CITY OF DELAWARE
SHADE TREE COMMISSION
MEETING TO BE HELD VIRTUALLY VIA CISCO Webex **
6:30 P.M.

AGENDA

April 27, 2021

1. ROLL CALL

2. APPROVAL of the Motion Summary for the meeting held February 23, 2021, as recorded and transcribed.

3. PUBLIC COMMENTS
   - JOIN VIRTUAL MEETING: To provide live public comment please email emccloskey@delawareohio.net or call 740-203-1013 to sign up by 3 p.m. the date of the meeting. **Name and address are required for public comment**. Comments are limited to 3 minutes.
   - EMAIL, LETTER, PETITION: Emails, letters, and petitions received by 3 p.m. the date of the meeting will be presented to the Committee and submitted into the record. These items will not be read aloud during the meeting but will be available on the website following the meeting at the end of the next business day. **Name and address are required.**
   - FACEBOOK: Comments received on Facebook will not be presented during the meeting and will be addressed by staff subsequent to the meeting as appropriate.

4. ARBORIST REPORT

5. REVIEW of Draft Annual Report to Council

6. REVIEW of Urban Forestry Management Plan

7. STAFF COMMENTS

8. MEMBER COMMENTS

9. PLAN REVIEWS
   A. Communities at Glenross – Section 14

10. INFORMAL REVIEW
    A. United Dairy Farmers
    B. Terra Alta Club House
    C. Houk Road Development
    D. Park View- Sections 1,2, 7 3

11. ADJOURNMENT

** This meeting will be a virtual meeting. Residents are encouraged to view online through the City of Delaware Facebook page. To comply with the CDC recommendation prohibiting group meetings, no in person attendance by Council, staff, or the public will be available.

SHADE TREE COMMISSION
February 23, 2021
MOTION SUMMARY

ITEM 1. Roll Call

Chairwoman Brewster called the virtual meeting to order at 6:33 p.m.

Members Virtually Present: Nathan Andears, Stan Eddy, Dave Carey, Becki Wood-Meek, Vice-Chairwoman Susan Wright and Chairwoman Shannon Brewster

Members Absent: Melissa Bargar, Tom Glissman, Grace Martin

Council Virtually Present: Drew Farrell, City Council Liaison

Staff Virtually Present: Ted Miller, Parks and Natural Resource Director and Casey McCarty, Arborist

Motion to Excuse: Chairwoman Brewster moved to excuse Ms. Bargar, Mr. Glissman, Ms. Martin, seconded by Ms. Wood-Meek. Motion approved with a 6-0 vote.

ITEM 2. APPROVAL OF MOTION SUMMARY of Shade Tree Commission meeting of November 17, 2020, as recorded and transcribed.
APPROVAL OF MOTION SUMMARY of the Shade Tree Commission meeting held on December 15, 2020, as recorded and transcribed.

Motion: Vice-Chairwoman Wright moved to approve the Motion Summary for the November 17, 2020 meeting, seconded by Ms. Wood-Meek. Motion approved with a 5-0-1 (Andears) vote.

Motion: Vice-Chairwoman Wright moved to approve the Motion Summary for the December 15, 2020 meeting, seconded by Ms. Wood-Meek. Motion approved with a 6-0 vote.

ITEM 3. PUBLIC COMMENTS

There was no public comment received.

ITEM 4. ARBORIST REPORT

Mr. McCarty discussed tree removals for December and January as well as the tree pruning efforts by the City.

ITEM 5. REVIEW of Draft Urban Forestry Management Plan

Mr. Miller informed the Commission that this item was not ready to present at this meeting and will be discussed at a future meeting.

ITEM 6. STAFF COMMENTS

Mr. Miller discussed plans for invasive species removal at Mingo Park.

ITEM 7. MEMBER COMMENTS

A discussion was held regarding Arbor Day celebrations. Mr. Miller discussed plans to reach out to the student representative and the schools to determine if they would like to be involved.

The Commission also discussed if they would like to hand out saplings at the May First Friday event. At this time this discussion may have to continue through email and at the next meeting as it has not been determined when First Friday events will resume to have vendors and public involvement.

Mr. Carey recognized the past efforts of former Commissioner Tom Wolber. The Commission discussed reaching out to Mr. Wolber to receive the template for the annual report and for the Commission to work on a 2-year report to Council.

ITEM 8. PLAN REVIEWS

A. Communities at Glenross – Section 17 & 19 – approved as submitted
B. Penick Avenue Extension – approved as submitted
C. Boulder Reserve – approved as submitted

ITEM 9. ADJOURNMENT

Motion: Ms. Wood-Meek moved to adjourn the meeting, seconded by Vice-Chairwoman Wright. The Shade Tree Commission meeting adjourned at 7:22 p.m.

_____

Chairperson

_____

Clerk

ARBORIST REPORT

April 2021
MONTHLY SUMMARY

Street Trees			
	City Staff	**Contractor**	**Year to Date**
Planting	0	0	0
Pruning	17	6	683
Tree Removal	5	0	40
Stump Removal	7	0	22
Service Requests	8	0	37
Other	0	0	7
Park Trees			
Planting	0	0	
Arbor day Tree	0	0	
Pruning	2	0	13
Tree Removal	3	0	23
Stump Removal	3	0	5
Service Requests	0	0	0
Other	4	0	5

Plan Review			
Project	**Tree Survey**	**Landscape Plan**	**Tree Inspection**
Park View	Completed	Informational	
Glen Ross Sec 5 & 6	Completed	In progress	
Davis Tract	In progress	In progress	
Communities at glen ross sec 14	Completed	To be approved	
Houk Rd Condos	Completed	Informational	
UDF	Completed	Informational	
Coughlin Crossing	Completed	Approved	
Boulder reserve street and water	Completed	Approved	
Communities at Glen Ross 17&19	Completed	Approved	
Penick	Completed	Approved	

City of Delaware Has been named as a Tree City USA for the 40th consecutive year.

City of Delaware, Ohio
Shade Tree Commission
Annual Report for 2019 and 2020

Duties

The Shade Tree Commission (STC) of the City of Delaware was established in 1977 as an advisory board to City Council. Ordinance 77-2 regulates "the planting, transplanting, maintenance, and protection of trees and shrubs on city owned or controlled property." The STC, composed of 9 members from the public, is tasked "to study, investigate, plan, advise, report, and recommend to City Council any action, program, plan, or legislation which the commission shall find or determine to be necessary or advisable for the care, preservation, trimming, planting, removal, or disposition of trees and shrubs in public ways, streets, and alleys." Another duty of the STC is to assist City Council and Delaware residents "in the dissemination of news and information regarding the selection, planting, and maintenance of trees," whether they are on public or private property, and to make recommendations. Section 1168 of Delaware's Codified Ordinances regulates tree preservation for developments. The stated goal is "to maintain an equivalent tree canopy citywide before and after removal / construction" (1168.07).

Tree City USA

Delaware is one of more than 3,400 communities that are part of the national Tree City USA program, which is run by the Arbor Day Foundation (www.arborday.org). More than 143 million people live in a Tree City USA, according to the foundation. The four core standards to qualify are: a local city ordinance, the establishment of a tree board or commission, an annual budget of no less than $2 per resident, and an annual Arbor Day proclamation and celebration. In 2020 Delaware's community forestry expenditures were about $156,293 or $3.81 per capita, according to City Arborist Casey McCarty. As of 2020, Delaware has been a proud Tree City USA member for 40 consecutive years. It has an urban forest of more than 18,000 trees, valued at about $18 million.

Tree Benefits

Trees provide numerous benefits to residents and enhance a community's quality of life. The esthetic beauty of the tree canopy increases curb appeal and thus property values. Their shading and wind-breaking effect helps with heating and cooling bills. Delaware's trees save the community $193,000 annually in electricity and gas bills, according to researchers at The Ohio State University (OSU). Trees also absorb carbon dioxide (CO_2) and produce oxygen, improving air quality. Nearly 16 million pounds, or 8,000 tons, of carbon have been sequestered by Delaware's street trees over time and would represent carbon credits worth $24,000 per year if a carbon-trading system were in place. Another noteworthy aspect is the trees' ability to retain considerable amounts of rainwater, which helps reduce storm-water runoff and flooding. Delaware's public trees intercept more than 6 million gallons of storm water annually. Each tree—depending on its size, health, and the climate it grows in—provides an annual benefit of no less than $50. Linda Unterhill (in *Way of the Woods*, 2009) even claims that patients with a view of trees outside their windows heal faster and have fewer post-operative complications. Public-housing projects lacking trees and green spaces report nearly twice the crime rates as those that are landscaped attractively. Similar claims are made by Jill Jonnes in her 2016 book, *Urban Forests: A Natural History of Trees and People in the American Cityscape*. The STC believes that Delaware's urban forest is a worthwhile investment, as the benefits, both material and immaterial, are substantial. The same OSU researchers have calculated the value of Delaware's urban forest to be more than $700,000 in total annual benefits to residents through ecosystem services such as storm-water remediation and decreased cooling and heating costs. Last, but not least, trees provide habitat and a food source for countless pollinators, birds, and other urban wildlife such as squirrels.

Shifting to Remote Meetings

As with other city boards and commissions, the Shade Tree Commission shifted to meeting online during 2020, due to the novel coronavirus pandemic. In addition, public-outreach efforts were suspended during the same period. We hope to resume normal meeting events and public outreach efforts later in 2021.

2019 and 2020 Statistics

The following table shows an overview of the 2019 and 2020 maintenance activities related to Delaware's urban forest. The numbers were provided by City Arborist Casey McCarty in the "Year-End Summary" for each of the past two years.

STREET TREES				
	2019		2020	
	City Staff	Contractor	City Staff	Contractor
Planting	35	70	10	106
Pruning	1219	8	1000	413
Tree Removal	27	40	100	36
Stump Removal	40	24	105	6
Service Requests	255	--	263	--
Other	0	--		--
PARK TREES*				
	City Staff	Contractor	City Staff	Contractor
Planting	2	0	7	0
Pruning	43	0	0	0
Tree Removal	8	0	0	0
Stump Removal	4	0	0	0
Service Requests	0	--	0	--
Other	0	--	0	--

- Includes trees in Oak Grove Cemetery

These numbers show that during the past two years, new trees planted outnumbered trees removed, 230 to 211. Typically, about two dozen different species or varieties (cultivars) are planted from the commission's recommend tree list, continuing the STC's desire and practice to see the urban forest diversified. These recommendations call for clusters of about six to eight trees (three or four on each side of the street) of one species, followed by a similar cluster of a different species, while maintaining the desired visual continuity. Pruning normally occurs every five years, barring unforeseen circumstances.

STC also reviewed, commented on, and approved 19 development and building landscape planting plans in 2019 and 16 plans in 2020. In several cases, the City Arborist and the STC recommended replacement of listed species with more resilient and less problematic tree species or cultivars.

Budget

Taxpayers do not pay for Delaware's street trees. The acquisition, planting, and maintenance of street trees is largely funded by developers who have the option of replacing and replanting lost trees or by paying a replacement fee into a tree-bank fund. At times, significant amounts accumulate that are then used to purchase and plant new trees so that Delaware's tree canopy can be maintained and increased. The STC continued to provide City Council feedback when that body discussed Ordinance 1128, which relates to tree replacement and the tree bank. The commission decided that a tree replacement cost of $100.00 / caliper inch was satisfactory. That equation was adopted and placed into the annually updated City's Fee Schedule. The commission also continues to agree that it makes sense to set aside a rainy-day fund for those lean years when new tree-bank revenue is low or non-existent.

Public Outreach

The Commission continued public-outreach efforts in 2019 by participating in the "Healthy Kids Day" event at the YMCA in April, Delaware's First Friday event in May, and the annual Northern Olentangy Watershed (NOW) Festival at Mingo Park in June. At these events, members of the STC gave away about 300 white pine seedlings that were provided by the Delaware Soil and Water Conservation District (SWCD). The practice has been going on for many years. At all events, members of the STC fielded questions about tree species and tree health and handed out informational flyers. The STC also created a hand-out to illustrate proper mulching technique (see attached document). That hand-out was expected to be used at the public-outreach events in 2020 that were eventually cancelled due to the pandemic. We hope to use it at future events.

In addition, several STC documents are available for public inspection on the website of the City of Delaware (www.delawareohio.net) under Recreation, Parks & Natural Resources: tree-care instructions, and lists of permitted and restricted trees.

Arbor Day

In 2019, for the 39th consecutive year, the City of Delaware was awarded the recognition of Tree City USA. Arbor Day was celebrated with a tree planting at Hayes High School on Euclid Avenue. The Arbor Day tree was provided by the City of Delaware. In 2020, Arbor Day tree planting inwas postponed.

Respectfully submitted

Shade Tree Commission
April 2021

The 2021 members are listed below. The STC meets bimonthly on the fourth Tuesday at 6:30 p.m. Current meetings are streamed live; in-person meetings, when they resume, are held in City Hall. The meetings are open to the public and can be viewed live or at a later time.

Shannon Brewster (Chair)
Dave Carey
Stan Eddy
Tom Glissman
~~Fredericka Shanks (Hayes High School)~~
~~Tom Wolber~~
Rebecca Wood-Meek
Susan Wright (Vice Chair)

Our thanks to City Staff & Clerical Support

Elaine McCloskey
Ted Miller (Director of Parks and Natural Resources)
Casey McCarty (City Arborist)

[rev. 4/12/2021]

Table of Contents

Acknowledgements

Shade Tree Commission
Shannon Brewster- Chair
Susan Wright- Vice Chair
Nathan Andears
Melissa Bargar
Dave Carey
Stan Eddy
Drew Farrell (City Council Representative)
Tom Glissman
Grace Martin (Student Representative)
Rebecca Wood-Meek

Parks and Natural Resource Department
Ted Miller (Director)
Stacy Davenport (Parks Superintendent)
Casey McCarty (City Arborist)
JP Linkous (Parks Supervisor)
Doug Richmond (former City Arborist)
Bridget Donahue (Parks AA)

Introduction and Background

Purpose of the Plan

The 2021 City of Delaware Urban Forestry Management Plan provides a framework for policy and action that guides city government decision making to maintain, enhance, preserve, and sustain its urban forest.

Goals of this document:

- Increase and maximize the value of the urban forest.
- Create a maintenance plan to care for these valuable assets through various programs such as development of a pruning plan; identification, removal, and replacement of hazardous older trees; and creating a more diversified tree canopy.

What is the urban forest?
Delaware's urban forest consists of the trees that extend across public property including street rights-of-way, parks, cemeteries, golf courses and natural areas.

Statutory Requirements

The City of Delaware Ordinance Chapter 153.03 (d) requires the Shade Tree Commission "To study and recommend to Council a Master Street Tree and Shrub plan for the City." This document is intended to fulfill this obligation.

Urban Forest Status

In 2021, the City of Delaware is Celebrating its 40th year as a Tree City USA. Since 2012, the City's tree population has grown from 14,000 to over 20,000 trees, planted in the City Parks, along streets and in Oak Grove Cemetery. By year 2024, it is estimated that the tree population will increase to well above 20,000 trees to be cared for by the City of Delaware. The City of Delaware, along with the Shade Tree Commission of Delaware, comprised of citizens that live in the City, has always been committed to maintain the urban forest canopy and educate the public about the benefits of trees including improved air quality, carbon sequestration and the reduction of storm water runoff. Implementation of the plan will allow the city to take a proactive approach to managing the urban forest instead of a reactive approach.

City of Delaware has been a Tree City since 1981.

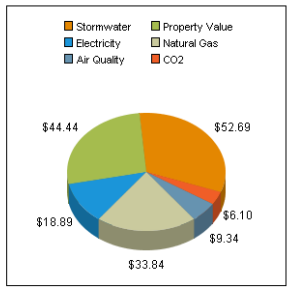
Responsibilities of the Urban Forestry Department:

- Tree inspection and inventory
- Tree pruning
- Tree removal
- Tree planting
- Respond to citizen service requests
- Inspect trees for pests and disease upon request
- Assist with storm response and cleanup
- Correct conflicts between trees and sidewalks, streets, or other infrastructure.
- Inspect trees planted by developers to ensure appropriate species, location, condition and mortality.
- Update Shade Tree Commission on new street trees and status of the urban forest
- Oversee park, cemetery and golf course trees
- Assist with selecting, watering and fertilization of hanging baskets

Currently, these responsibilities fall on the city Arborist with assistance from the parks staff.

Benefits of the Urban Forest

Overal Benefits | Storm Water | Property Value | Energy | Air Quality | CO2 | About the Model



Breakdown of your tree's benefits
Click on one of the tabs above for more detail

This **18 inch Norway maple** provides overall benefits of: $165 every year.

While some functional benefits of trees are well documented, others are difficult to quantify (e.g., human social and communal health). Trees' specific geography, climate, and interactions with humans and infrastructure is highly variable and makes precise calculations that much more difficult. Given these complexities, the results presented here should be considered initial approximations—a general accounting of the benefits produced by urban street-side plantings.

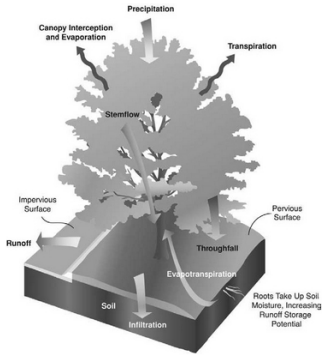
Benefits of trees do not account for the costs associated with trees' long-term care and maintenance.

If this tree is cared for and grows to 23 inches, it will provide $202 in annual benefits.

Norway maple
Acer platanoides

The National Tree Benefit Calculator was conceived and developed by Casey Trees and Davey Tree Expert Co.

Overal Benefits | Storm Water | Property Value | Energy | Air Quality | CO2 | About the Model



Your 18 inch Norway maple will intercept 1,944 gallons of stormwater runoff this year.

Urban stormwater runoff (or "non-point source pollution") washes chemicals (oil, gasoline, salts, etc.) and litter from surfaces such as roadways and parking lots into streams, wetlands, rivers and oceans. The more impervious the surface (e.g., concrete, asphalt, rooftops), the more quickly pollutants are washed into our community waterways. Drinking water, aquatic life and the health of our entire ecosystem can be adversely effected by this process.

Trees act as mini-reservoirs, controlling runoff at the source. Trees reduce runoff by:

- Intercepting and holding rain on leaves, branches and bark
- Increasing infiltration and storage of rainwater through the tree's root system
- Reducing soil erosion by slowing rainfall before it strikes the soil

For more information visit: The Center for Urban Forest Research

The National Tree Benefit Calculator was conceived and developed by Casey Trees and Davey Tree Expert Co.

Overal Benefits | Storm Water | Property Value | Energy | Air Quality | CO2 | About the Model

Located in front of a single family home, this 18 inch Norway maple will raise the property value by $44 this year.

Trees in front of single family homes have a greater property value benefit than those in front of multi-family homes, parks or commercial properties. Real estate agents have long known that trees can increase the "curb appeal" of properties thereby increasing sale prices. Research has verified this by showing that home buyers are willing to pay more for properties with ample versus few or no trees.

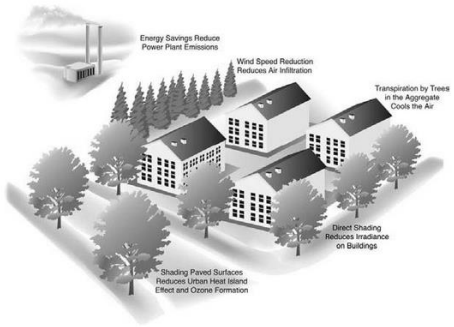
This model uses a tree's Leaf Surface Area (LSA) to determine increases in property values. That's a researcher's way of saying that a home with more trees (and more LSA) tends to have a higher value than one with fewer trees (and lower LSA). The values shown are annual and accumulate incrementally over time because each tree typically adds more leaf surface area each growing season. The amount of that increase depends on the type of tree – some add more, some less.

The 18 inch Norway maple you selected will add 184 square feet of LSA this year. In subsequent years it will add more, and the property value will increase accordingly.

For more information visit: The Center for Urban Forest Research

The National Tree Benefit Calculator was conceived and developed by Casey Trees and Davey Tree Expert Co.

Overal Benefits | Storm Water | Property Value | Energy | Air Quality | CO2 | About the Model



Your 18 inch Norway maple will conserve 249 Kilowatt hours of electricity for cooling and reduce consumption of oil or natural gas by 35 therm(s).

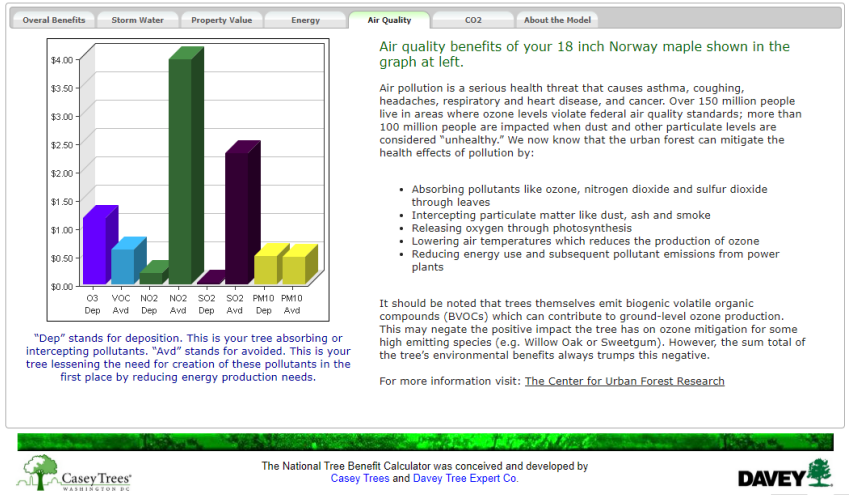
Trees modify climate and conserve building energy use in three principal ways (see figure at left):

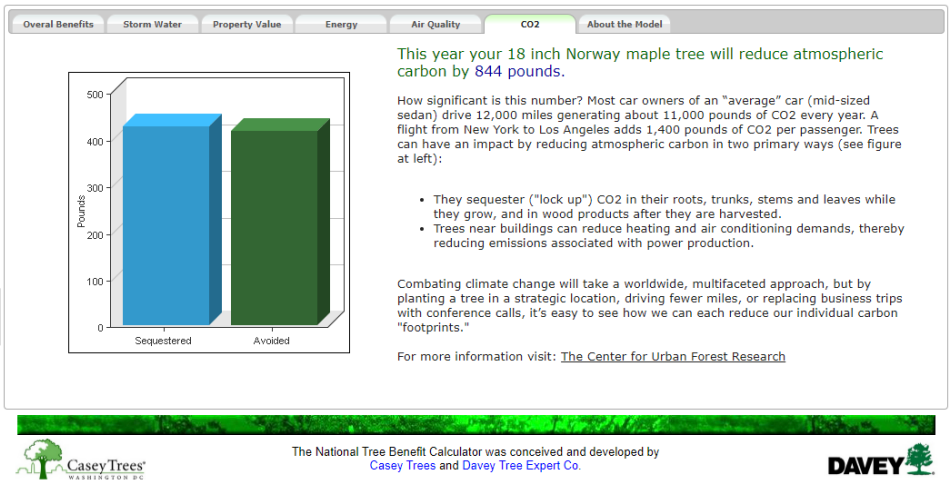
- Shading reduces the amount of heat absorbed and stored by buildings.
- Evapotranspiration converts liquid water to water vapor and cools the air by using solar energy that would otherwise result in heating of the air.
- Tree canopies slow down winds thereby reducing the amount of heat lost from a home, especially where conductivity is high (e.g., glass windows).

Strategically placed trees can increase home energy efficiency. In summer, trees shading east and west walls keep buildings cooler. In winter, allowing the sun to strike the southern side of a building can warm interior spaces. If southern walls are shaded by dense evergreen trees there may be a resultant increase in winter heating costs.

For more information visit: The Center for Urban Forest Research

The National Tree Benefit Calculator was conceived and developed by Casey Trees and Davey Tree Expert Co.





Credits:

- The National Tree Benefit Calculator was conceived and developed by Casey Trees and Davey Tree Expert Co.
- This tool is powered by i-Tree; the data generating the results comes from the i-Tree Tools CD ROM: http://www.itreetools.org/
- Significant text and graphical content was originally published by the USDA Forest Service's Center for Urban Forest Research through their Tree Guide series of publications. Credit should be given to authors of these publications.
- Facts about personal carbon production based on driving and flying courtesy of Conservation International
- For questions about this tool, contact Scott Maco (Davey Tree Expert Co.)

Tree Inventory Analysis and Recommendations

Tree Canopy Coverage

Tree canopy coverage is a measure of the portion of the town that is shaded by trees. iTree Canopy software was used in 2019 to estimate the citywide canopy at 24% ±2%. The Shade Tree Commission undertook this exercise using i-Tree which estimates tree cover and tree benefits for a given area with a random sampling process. The data was broken into City wards to determine areas that were inconsistent with the overall coverage.

Recommendation: The Shade Tree Commission recommends a 30-40% tree canopy coverage for Delaware. The current tree population has a significant number of younger trees and as these trees mature the coverage area will move higher into the recommended range. It is recommended that staff identify canopy-deficient areas of the city and prioritize tree planting in these areas.

Trees on Public Grounds

It is estimated that there are more than 5,000 maintained trees in city parks and cemeteries and around public facilities. Smith, Mingo, Veterans & Blue Limestone community parks and Oak Grove Cemetery represent some of the most highly visible and appreciated trees in town, and should be maintained at a level equal to or exceeding the city's street trees.

Recommendation: It is recommended that the trees continued to be maintained prioritizing preventative maintenance practices. In addition, specimen trees in public locations could be highlighted to educate the community on the value of these trees.

Street Tree Population

The City of Delaware is currently responsible for maintaining approximately 20,000 trees along the public right of way. The city has a street tree population that exceeds many comparable or larger cities, such as Grove City (10,000), Westerville (15,000), and Springfield (17,000). The total number of street trees has grown rapidly due to the large number of new developments.

Recommendation: Identify funding sources that will allow for adequate staffing to increase the level of service in the city. The urban forest will likely continue to grow at a rapid pace and the Urban Forestry department will need to continue to dedicate staff time to monitoring tree installations and mortality counts to promote a healthy forest. The street tree population continues to climb and has become larger than other cities of comparable size. The City should focus on a healthy urban forest and a 30-40% canopy coverage which would include a more manageable tree planting requirement. This would require an evaluation of the current tree preservation ordinance that would allow for a manageable urban forest growth and review funding sources that could be used for the urban forest. In addition, we will need to continually research use of additional species that can diversify the urban forest.

Maintenance Needs and Recommendations

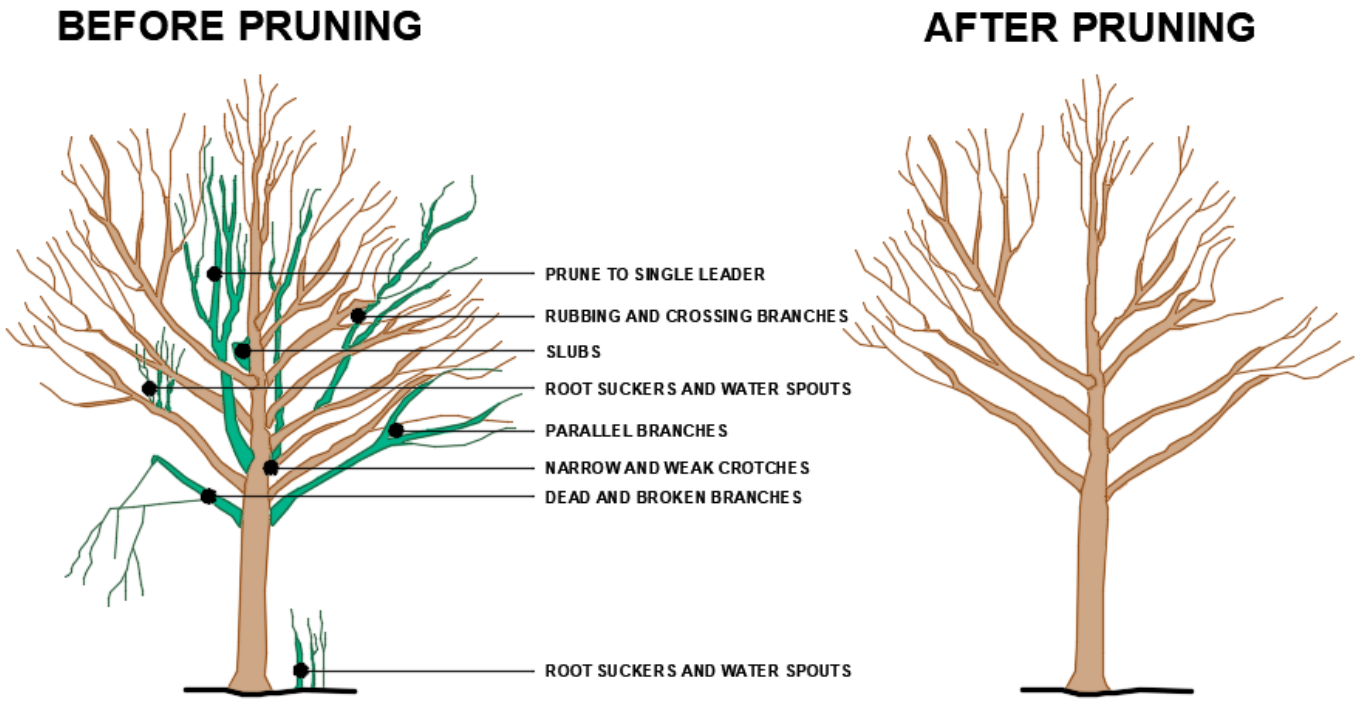
Removal of hazardous trees in older neighborhoods

A hazardous tree can be defined as having rotten limbs, excessive fruit debris, roots affecting infrastructure, disease, insect infestation, weather damaged or as determined by the city Arborist. Older areas of the City have many older silver maple and various other species. The maples are beginning to reach their lifespan limits and walnut trees are not only reaching their lifespan limits but also drop their fruit in the fall creating hazardous issues for people and property. Resources should be allocated for the safe and timely removal of these trees.

Recommendation: Complete a bi-annual inspection of older trees to determine hazardous trees. It's estimated that there are 250-300 trees that may be approaching their final years. The trees should be inspected regularly to be proactive in recognizing issues and taking corrective actions.

Pruning Program

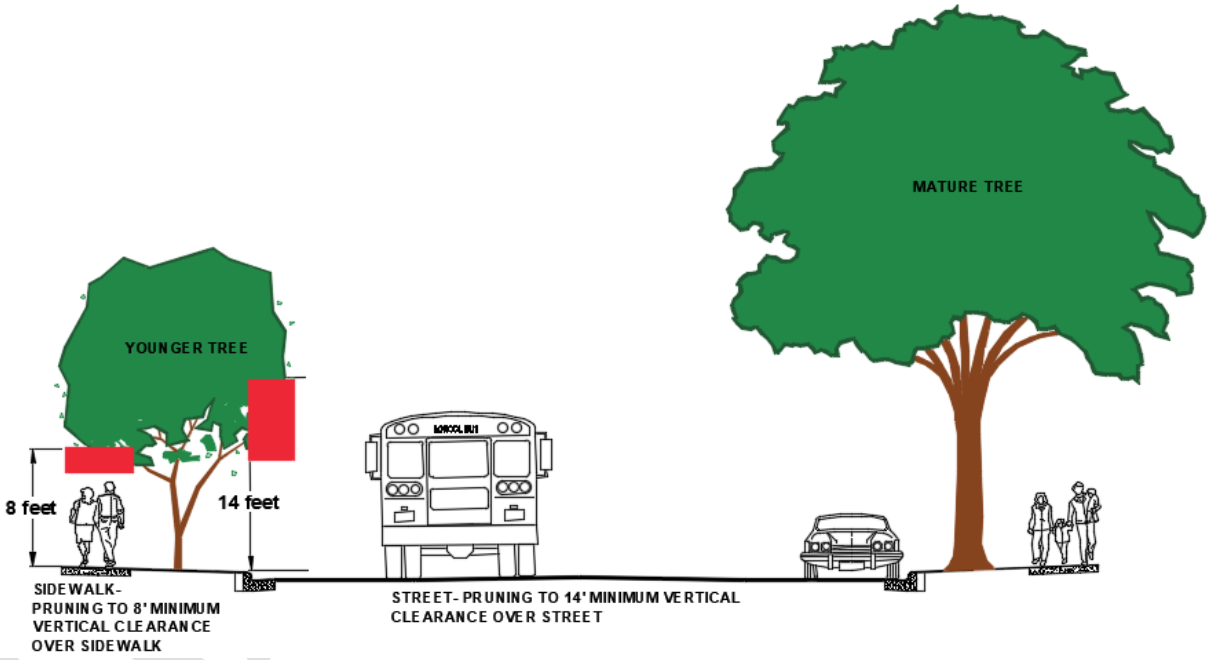
Currently there is a limited scheduled pruning program and most tree issues are dealt with through the Service Request system. A proactive tree pruning program has many advantages over on-demand maintenance, the most significant of which is reduced risk. In a proactive program, trees are regularly assessed and pruned, which generally means that most defects will be discovered and eliminated before they escalate to a hazardous situation with an unacceptable level of risk. Other advantages of a proactive pruning program:



- Increased environmental and economic benefits
- More predictable budgets and projectable workloads
- Reduced long-term tree maintenance costs if pruned correctly
- Extending the life and longevity of trees

Young trees that are less than 8 inches Diameter at Breast Height (DBH) will generally require more frequent pruning cycles (3 years) because they typically grow faster than mature trees and correcting structural problems at a younger age can greatly benefit the health of the tree. In addition, the pruning in young trees can often be done at the ground level without the use of specialized equipment making it much more economical.

City code calls for eight feet of clearance over sidewalks, fourteen feet over roadways. Pruning of trees within the "Sight Line Triangle" at street intersections, should be done as needed to maintain safe visual clearance.



The city arborist is currently utilizing parks staff and increasingly relying on contractors to prune street trees and public spaces. Seasonal staffing has been included in the 2021 budget that will allow an increase in pruning but will still be well short of a pruning cycle that would meet the appropriate level of service.

Recommendation: Increase staff and funding to prune approximately 9,000 trees per year. The city is currently pruning 1,300 (5 year average) trees per year, using staff and contractors. A significant increase in pruning is proposed to promote a healthy forest but also reduce long term maintenance. Regular pruning in the first eight years (after the guarantee period of 2 years) and as needed in later years. Structurally pruning a young plant will require less corrective pruning as the plant matures and is more likely to have a healthier formation. After initial installation, street trees have a 2 year warrant by the developer. Following that 2 year period, the City would regularly prune trees until about 8 years. This is estimated to be about 8,000 young trees per year. In addition, another 1,000 mature trees would be pruned to sustain a health forest. This approach will take several years to see results but will ultimately promote a sustainable urban forest.

Staffing

Current staffing in the Urban Forestry Department is not sufficient to support the proposed regular pruning in the first 8 years (species dependent) maintenance and pruning plan without increased use of outside certified contractors. The current and growing workload is large enough to support a crew that would be responsible for planting, maintaining and removing trees. In addition, tree inspection could be expanded. The current staff is not able to adequately monitor built sites to verify that The workload would continue to be supplemented by fewer contractors.

Recommendation: Utilize seasonal staff through 2021 and propose a full-time staff member in 2022 to help handle the increased workload and reduce the reliance on contractors. Increased pruning will be a significant task that will make it more economical to hire a full-time staff instead of continually increasing contractor budgets. Increasing pruning by 7,700 trees is feasible because many of trees will be younger trees that can be pruned in less time than a mature tree however, in the initial phase of this pruning program staff will still need to address mature trees that have not been pruned as frequently when younger. In addition, due to the current workload, staff has not been able to fully complete consistent inspection and counts of installed landscape plans particularly in non-public areas. The result of this is that installed landscapes may not match approved plans.

Sidewalk Program

The City's Safe Sidewalk Program has had a significant impact on the urban forest. Trees roots have damaged sidewalks due to a variety of issues that could be mediated with some updates to design standards. While these repairs are necessary to maintain the safety of the sidewalk, an emphasis needs to be made to preserve trees through the process.

Recommendation: Root pruning with specialized tools would greatly increase the health of the tree where the repair is made and will help maintain the structure of the sidewalk. The following recommendations would benefit the long-term care of street trees and cost efficiency in maintaining sidewalks:

1. Communication with Arborist and Streets Department when evaluating sidewalk issues caused by street trees. Communication will allow both teams to determine the best management practice for each instance.
2. Update the Standard Sidewalks Specifications (RDWD-19.1) to replace the sidewalk base material from 4" of #57 limestone gravel to 4" of #304 aggregate base and compact the base material prior to pouring concrete. Tree roots naturally search for well drained soil with plenty of oxygen which is found in the #57 base material. The compacted #304 base will discourage tree roots and should have an positive impact on reducing sidewalk damage from street trees.
3. Continue to follow the standard roadway detail that details an 8'-0" to 10'-0" tree lawn measured from the back curb to beginning of sidewalk. The tree lawn area does not include the sidewalk width and all new developments are following this standard.

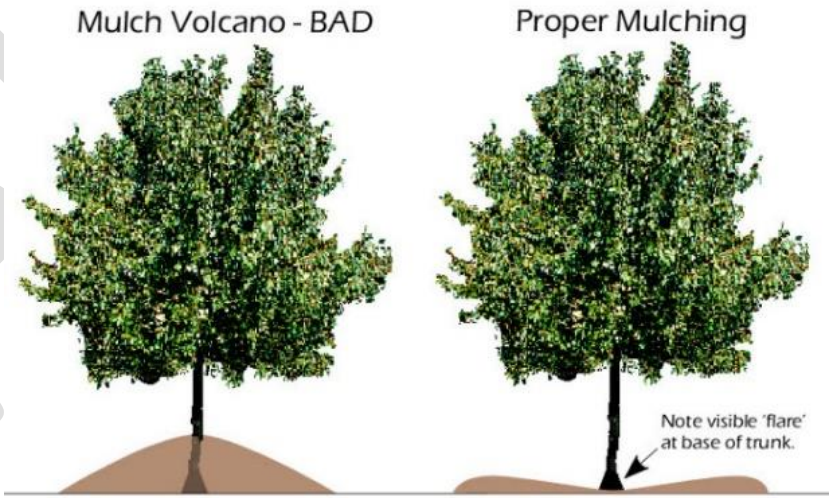
Species Diversity

Understanding we're working with species exceeding recommended limits, diversity is a problem that must be addressed. The City was able to catch up with the backlog of removed Ash Trees last season. However costly infestation is evidence that overplanting of any one species will create more possibility for significant tree loss in the event of another introduced pest problem. The Asian Longhorn Beetle (ALB) has infested a rural area near Claremont County in South Western Ohio. While it has wide range of host trees, Maple is its main choice of tree to infest. Should the ALB arrive in Delaware, there would be a monumental loss of trees.

Recommendation: As the current challenges manifest themselves, we will have the opportunity to improve species diversity as we plant replacement trees. Staff will also need to consider species that are not currently listed as approved trees and create pilot programs that can evaluate these species.

Volcano Mulching

There are many new street trees that have been improperly mulched by contractors and homeowners which has increased mortality and maintenance issues. Staff has been diligent about recognizing new plantings that have excessive mulch around the trunk but much of the problem after the initial planting when re-mulching continues to add layers of mulch.



Recommendation: Create public awareness through workshops and social media. Attend HOA meetings to bring awareness to the issue and promote proper mulching techniques.

Broadleaf Herbicides

Lawn fertilizer that includes a broadleaf weed killer is often dangerous to trees, particularly younger trees. The fertilizer is frequently applied to lawns without realizing the damage to young trees. Delaware has frequently seen this damage with he abundance of newer subdivisions and young trees.

Recommendation: Create public awareness through workshops and social media. Attend HOA meetings to bring awareness to the issue and limit use of broadleaf herbicides.

Work Management Plan, Staffing and Budget

Street Tree Management Priorities

To meet the goal of maximizing the value of the urban forest canopy, trees must be maintained and species diversity must increase. Working with the Shade Tree Commission and City staff, continued selection of proper and diverse replacement trees and best management practices for maintenance, pruning and planting, the urban forest will age and mature while moving from a removal and replacement phase to a maintenance and growth phase. The ability to load the City's Tree Inventory to City Works GIS will allow for a valuable monitoring / management tool.

To minimize the safety concerns and costs along with developing a sustainable urban forest, the following management activities are recommended, in order of descending priority:

1. **Tree inspection program**, inspect potential hazard trees, and maintain inventory by inspecting 1/5 of the city's trees annually. This will ensure the safety of the public and property and deliver accurate information to guide management decisions.
2. **Remove any hazardous trees** and correct any dangerous structural issues such as dead limbs, signage visibility and site distance issues to ensure public safety.
3. **Sidewalk Program:** Monitoring the industry for new and successful procedures will help in the preservation of existing trees during construction events. Root pruning trees prior to sidewalk excavation will help prevent the need for removal at the time of excavation. Any trees requiring removal will be replaced following the Street Tree Master List.
4. **Maintain large trees**, as these are the city's most valuable trees, and those most likely to become hazardous if not maintained.
5. **Maintain young trees** to prevent problems that may become public safety concerns in the future, or which could lead to the decline or death of the tree in the future.
6. **Update the Street Tree Master List**. This list was created by the Shade Tree Commission and City Staff. Using the information provided from a tree inventory analysis, the Street Tree Master List would be updated to help determine what tree species are appropriate and needed to diversify the tree canopy in Delaware. The list now recommends species of trees for streets that will be designed to place the appropriately sized tree species in each space. Trees will be selected to maximize the value at each planting site by planting the largest tree species for the site. Using at least three different species for each street when possible in new developments will help to diversify the urban forest.
7. **Tree Replacement Program.** The City of Delaware plants replacement trees for removed street trees at no cost to residents. This program takes place each Fall and replaces as many trees as possible. Removal locations are evaluated for

replacement using recommended guidelines for spacing from other infrastructure to lessen the chance of damage in the future as trees mature. Replacement trees are selected using the Street Tree Master List.

8. **Public Education**: Using some of the newer tools to the industry, the value in economic benefits that trees provide can now be identified. With these numbers we can help to educate the public on the importance of each individual tree and help show them how much value they could receive if they plant just one tree in their own yard. Some ways to share this information are using the City's website, Tree Talk Articles, and attending public events such as First Friday.
9. **Funding**: Continued funding for tree maintenance and replacement is vital to allow for future growth of the tree count and health of the urban forest. Continued implementation of these action steps will allow the urban forest to grow and maximize the benefit to citizens and visitors of Delaware.

Figure 1: Estimated total workload and cost comparison between city staff & contractors

ACTIVITY	CURRENT ESTIMATED WORKLOAD	2020 WORKLOAD COMPLETION	TOTAL WORKLOAD ESTIMATED COST FOR CONTRACTORS	TOTAL WORKLOAD ESTIMATED COSTS FOR STAFF
Inspection and Inventory	4,000 trees	800 trees (20% staff/80% incomplete)	**$53,320** ($80/hr-6 trees/hr)	**$12,060** ($18/hr intern) (670 hrs-10 min/tree)
Young Tree Pruning (1-8 years)	8,000 trees	1,300 trees (70% staff/30% contractor)	**$64,000** ($8/tree)	**$53,320** ($40/hr) (1,333 hrs-10 min/tree)
Large Tree Pruning (<8 years)	1,000 trees		**$20,000** ($20/tree)	**$16,680** ($40/hr) (417 hrs-25 min/tree)
Tree Removal	110 trees	110 trees (100% staff)	**$22,000** ($200/tree)	**$20,000** ($40/hr) (500 hrs-4.5 hrs/tree)
Large Tree Removal	10 trees	10 trees (100% contractor)	**$25,000** ($2,500/tree)	Staff not currently equipped
Tree Planting	130 trees	130 trees (18% staff, 82% contractor)	**$9,750** ($75/tree)	**$5,200** ($40/hr) (130 hrs-1 tree/hour)
Totals			**$194,070**	**$107,260**

Figure 2: Urban Forestry Program Budget

	ACTUAL BUDGET						PROPOSED BUDGET		
	2015	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**
Salary and Benefits	$62,629	$72,251	$76,247	$81,000	$82,395	$46,044	$92,123		
Professional Services	$10,045	$21,640	$24,955	$46,183	$49,237	$52,906	$80,000		
Tree Maintenance	$4,245	$3,999	0	$5,000	$4,022	$3,021	$5,000		
Operation & Small Equip.	$2,113	$1,614	$687	$1,447	$1,074	$731	$1,750		
Tree Purchases	$28,861	$24,986	$513	$433	$95	$5,000	$5,000		
Total	$107,893	$124,490	$102,402	$141,729	$136,823	$107,702	$183,873		
Population	36,794	37,554	38,193	39,219	40,568	42,600	43,995		
Urban Forestry Expenses per capita	$2.84	$3.28	$2.63	$3.54	$3.33	$2.53	$4.17		

Notes:

- 2020 Salary and benefits was lower due to a 6-month vacancy in the position

Comparison to other Municipalities' Budgets

Figure 3: Comparison to other Municipalities' Budgets

STREET TREE PROGRAM COMPARISON							
	Delaware	**Grove City**	**Hilliard**	**Marysville**	**Springfield**	**Upper Arlington**	**Westerville**
Forestry Staff	1	3	3	1	7	6	2
Forestry operating budget	$80,000	$200,000	$200,000	$110,000	$425,000	$500,000	$325,000
# of trees	20,0000	10,000	9,500	7,500	17,000	17,000	15,000
Population	40,568	41,820	36,534	24,667	58,877	35,366	41,103

Summary and Recommendations

General Recommendations

- Develop a pruning cycle for younger trees (1-8 years) and older trees (as necessary) and institute an annual plan that will keep up with current tree populations.
- Campaign to discourage volcano mulching.
- Educational material to promote proper pruning techniques.

Fiscal Year 2022-2023

- Hire additional full-time arborist technician.
- Hire seasonal intern to collect data for the tree inventory during the summer and purchase data collection unit.
- Update street tree list and propose potential trial species.
- Propose a stormwater fee that aligns with the urban forestry value contributing to stormwater management
- Review the City's tree ordinance and revise as needed.

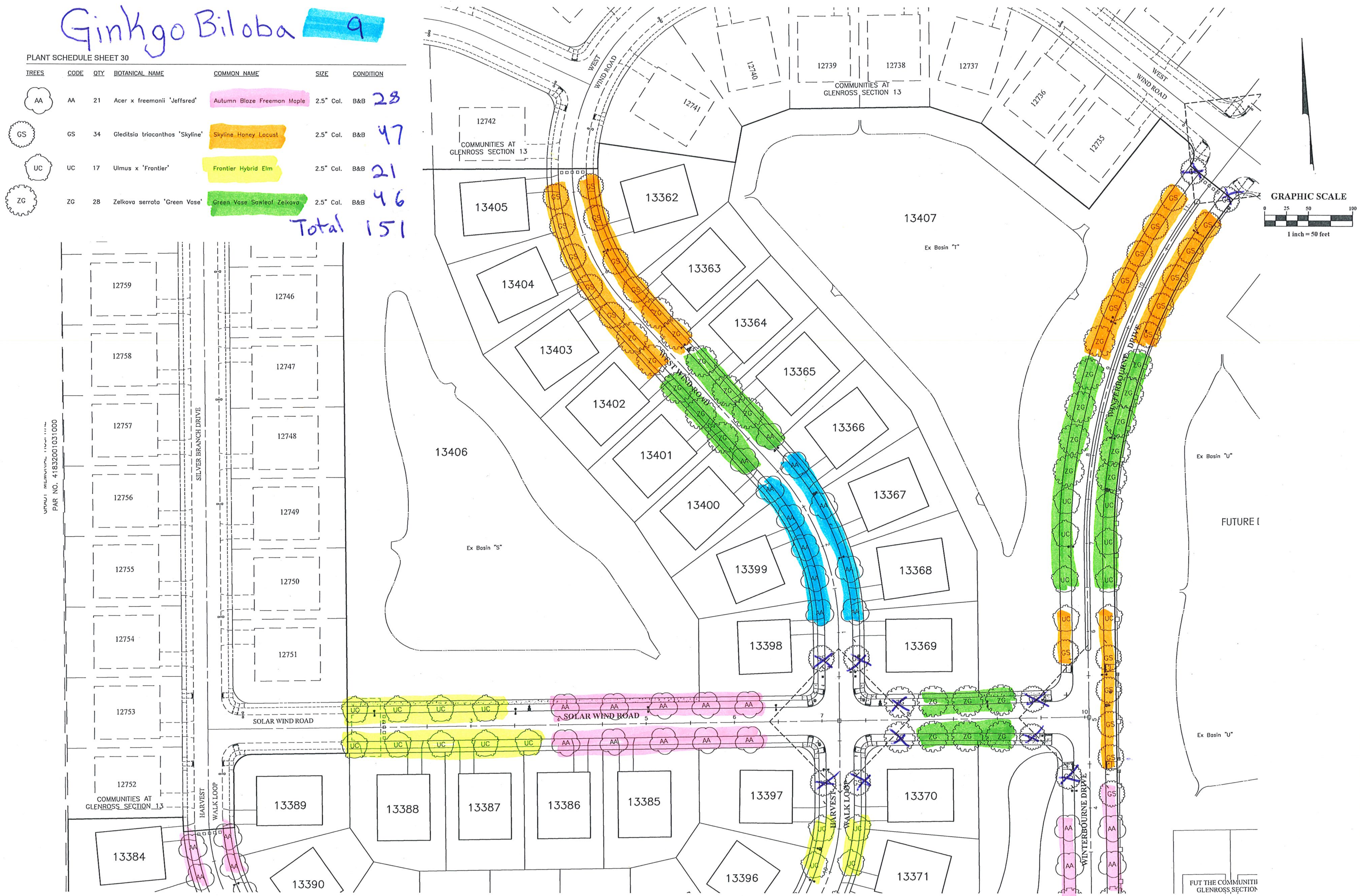
Fiscal Year 2023-2028

- Hire additional seasonal staff
- Review canopy coverage and determine if 30-40% goal is being met.
- Evaluate sidewalk issues and update standard construction methods as necessary.

Ginkgo Biloba 9

PLANT SCHEDULE SHEET 30

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	
AA	AA	21	Acer x freemanii 'Jeffsred'	Autumn Blaze Freeman Maple	2.5" Col.	B&B	28
GS	GS	34	Gleditsia triacanthos 'Skyline'	Skyline Honey Locust	2.5" Col.	B&B	47
UC	UC	17	Ulmus x 'Frontier'	Frontier Hybrid Elm	2.5" Col.	B&B	21
ZG	ZG	28	Zelkova serrata 'Green Vase'	Green Vase Sawleaf Zelkova	2.5" Col.	B&B	46
						Total	151



GRAPHIC SCALE

0 25 50 100

1 inch = 50 feet

Trees owed by contractor 13

REVISIONS

MARK | DATE | DESCRIPTION

PulteGroup

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
FINAL DEVELOPMENT PLAN
FOR
COMMUNITIES AT GLENROSS
SECTION 14
STREET TREE PLAN

EMHT
Evans, Mechwart, Hambleton & Tilton, Inc.
emht.com

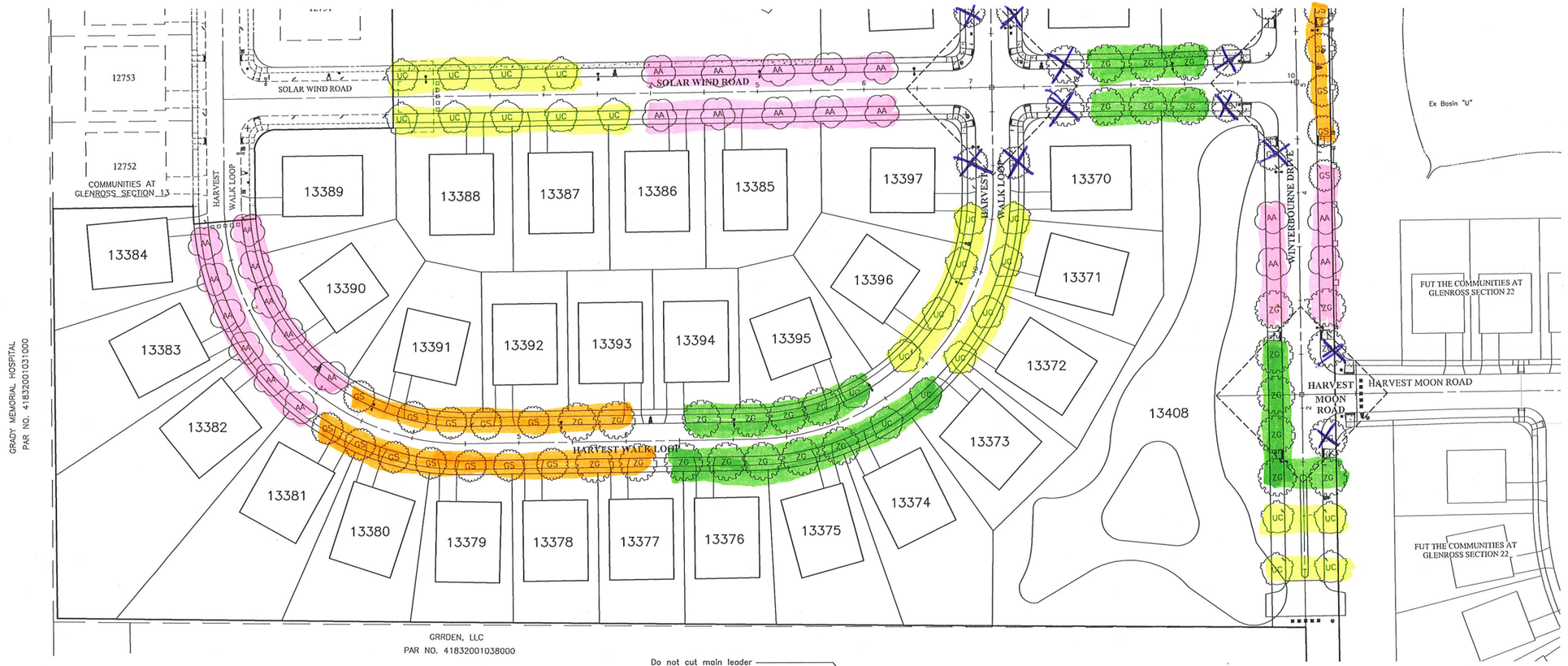
DATE 20190747

SCALE 1" = 50'

JOB NO. 20190747

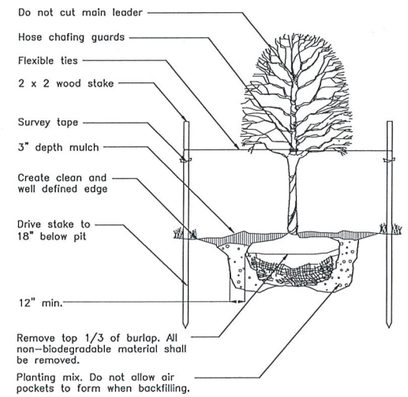
SHEET 8/10

c:\20190747\Dwg\04Sheets\Final Development Plan\8 Street Tree Plan.dwg, Last Saved By: sahore, 2/23/2021 2:51 PM Last Printed By: O'Hara, Shaun, 2/25/2021 12:14 PM (No Xrefs)



PLANT SCHEDULE SHEET 31

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
AA	AA	15	Acer x freemanii 'Jeffsred'	Autumn Blaze Freeman Maple	2.5" Cal.	B&B
GS	GS	12	Gleditsia triacanthos 'Skyline'	Skyline Honey Locust	2.5" Cal.	B&B
UC	UC	15	Ulmus x 'Frontier'	Frontier Hybrid Elm	2.5" Cal.	B&B
ZG	ZG	22	Zelkova serrata 'Green Vase'	Green Vase Sawleaf Zelkova	2.5" Cal.	B&B



1 DECIDUOUS TREE UNDER 3" CALIPER
N.T.S.

Trees shall be centered in the tree lawn.

No trees shall be placed within 10' of a hydrant.

GENERAL NOTES

1. Street tree selections shall be approved by the City of Delaware Street Tree Commission prior to installation.
2. Prior to installation, the landscape contractor shall inspect the general site conditions and verify the subgrade, elevations, utility locations and topsoil provided by general contractor. The landscape contractor shall notify the general contractor of any unsatisfactory conditions and work shall not proceed until such conditions have been corrected and are acceptable to the landscape contractor.
3. All trees shall meet or exceed standards set in the American Standard for Nursery Stock, ANSI Z60.1, 2004. All trees shall equal or exceed the measurements and sizes specified in the schedule.
4. All planting operations shall adhere to American Nursery & Landscape Association standards unless noted otherwise.
5. Substitutions shall be permitted with notification and written approval from the Owner & City. Substituted material shall be equivalent or greater in size than the specified plant. Substituted trees shall have the same essential characteristics and growth habit of the specified plant.
6. Confirm location of all utilities and subsurface drain lines prior to plant installation.
7. A pre-installation conference shall be conducted prior to planting operations with Owner & Contractor present.
8. Contractor may slightly field adjust plant locations as necessary to avoid utilities.
9. Contractor shall repair all lawn areas disturbed during construction with seed and warrant a healthy, weed free lawn prior to project acceptance.
10. Mulch tree rings with shredded hardwood mulch of uniform dark brown color. It shall be free of twigs, leaves, disease, pest or other material unsightly or injurious to trees. Average applied thickness shall be 3" depth.
11. Install all trees in accordance with planting details.
12. Street trees shall have a clear canopy height of 6' min.
13. Tree shall be placed a minimum of 3' from sidewalks and curbs.
14. All trees to be backfilled with prepared planting mix. Prepared planting mix shall be mixed on site and consist of one part topsoil, one part soil amendment, one part soil from excavation. Topsoil: ASTM D5268, ph range of 5.5 to 7, min. 4 percent organic material, free of stones 1 inch and larger. Soil amendment: Source separated yard waste compost from on Ohio EPA rated class IV compost facility.
15. All trees to be fertilized with a commercial grade fertilizer tablets consisting of fast and slow release nitrogen.
16. Contractor to determine plant list quantities from the plan. Graphic representation on plan supersedes in case of discrepancy with quantities on schedule.
17. Any item or areas damaged during construction shall be repaired or replaced to its original condition at the contractor expense.
18. Contractor shall thoroughly water all trees at time of installation and as needed until project acceptance by Owner. Contractor shall guarantee all trees installed for one full year from date of acceptance by the Owner. All trees shall be alive and at a vigorous rate of growth at the end of the guarantee period.

GRAPHIC SCALE

0 25 50 100

1 inch = 50 feet

REVISIONS

MARK	DATE	DESCRIPTION

PulteGroup

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
FINAL DEVELOPMENT PLAN
FOR
COMMUNITIES AT GLENROSS
SECTION 14
STREET TREE PLAN

EMH&T
Engineers • Surveyors • Planners • Scientists
5500 New Albany Road, Columbus, Ohio 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE 20190747

SCALE 1" = 50'

JOB NO. 20190747

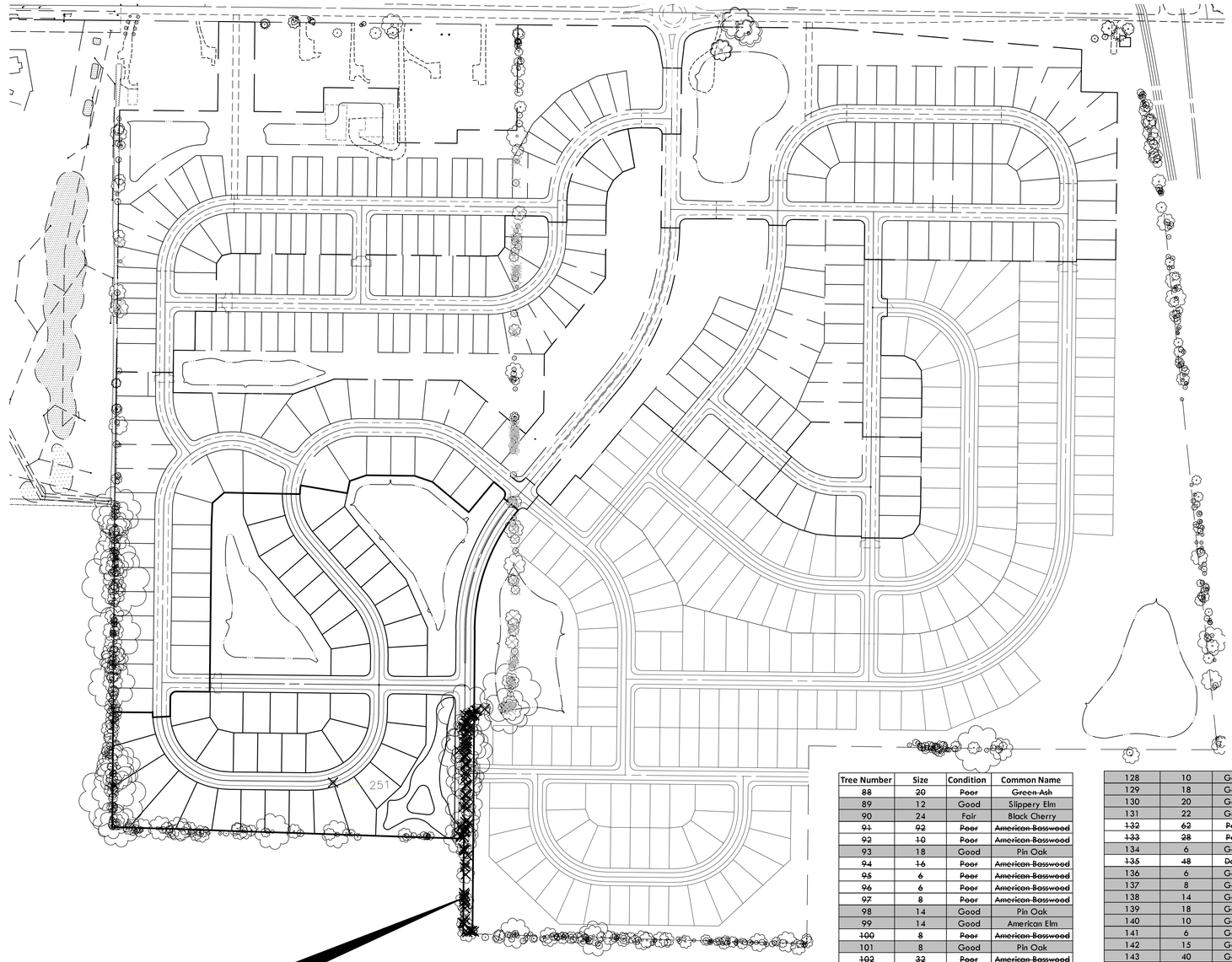
SHEET 9/10

SCALE 1"=50'

GRAPHIC SCALE

0 25 50 100

1 inch = 50 feet



GRAPHIC SCALE

0 100 200 400

1 inch = 200 feet

TREE INVENTORY

Total Number of Trees: 81 (1763 Caliper Inches)

Trees Removed (not including poor, dead or ash trees): 57 (905 Caliper Inches)

Poor, Dead or Ash Trees: 24 (858 Caliper Inches)

Trees to be Removed

Trees to be Removed Requiring Replacement

~~ABC~~ Poor, Dead or Ash Trees to be Removed

OVERALL TREE INVENTORY

	Removed	Replaced
Section 11	379	551.5
Section 12	0	293.5
Section 13	199	468
Section 14	905	127.5
Section 15	0	204.5
Section 16	435	254
Section 17	0	0
Section 18	0	265
Section 19	0	0
Section 20	0	0
Section 21	0	113.5
Section 22	0	217
Total	1918	2467.5

Tree Number	Size	Condition	Common Name
~~88~~	~~20~~	~~Poor~~	~~Green Ash~~
89	12	Good	Slippery Elm
90	24	Fair	Black Cherry
~~91~~	~~92~~	~~Poor~~	~~American Basswood~~
~~92~~	~~10~~	~~Poor~~	~~American Basswood~~
93	18	Good	Pin Oak
~~94~~	~~16~~	~~Poor~~	~~American Basswood~~
~~95~~	~~6~~	~~Poor~~	~~American Basswood~~
~~96~~	~~6~~	~~Poor~~	~~American Basswood~~
~~97~~	~~8~~	~~Poor~~	~~American Basswood~~
98	14	Good	Pin Oak
99	14	Good	American Elm
~~100~~	~~8~~	~~Poor~~	~~American Basswood~~
101	8	Good	Pin Oak
~~102~~	~~32~~	~~Poor~~	~~American Basswood~~
~~103~~	~~42~~	~~Poor~~	~~American Basswood~~
104	14	Good	American Elm
105	12	Good	Pin Oak
~~106~~	~~22~~	~~Poor~~	~~American Basswood~~
107	12	Good	Pin Oak
108	18	Good	Pin Oak
~~109~~	~~22~~	~~Poor~~	~~American Basswood~~
~~110~~	~~62~~	~~Poor~~	~~American Basswood~~
111	16	Good	Black Cherry
112	10	Fair	American Elm
~~113~~	~~72~~	~~Poor~~	~~American Basswood~~
~~114~~	~~6~~	~~Poor~~	~~Green Ash~~
115	18	Good	Shagbark Hickory
116	12	Fair	Pear
117	6	Fair	Pear
~~118~~	~~90~~	~~Poor~~	~~American Basswood~~
119	6	Good	American Elm
120	~~46~~	Good	Pin Oak
~~121~~	~~38~~	~~Dead~~	~~Green Ash~~
~~122~~	~~14~~	~~Poor~~	~~American Elm~~
123	8	Good	Pin Oak
124	10	Good	Hackberry
~~125~~	~~38~~	~~Dead~~	~~Green Ash~~
~~126~~	~~64~~	~~Poor~~	~~American Basswood~~
~~127~~	~~52~~	~~Poor~~	~~Green Ash~~
128	10	Good	Pin Oak
129	18	Good	Pin Oak
130	20	Good	Pin Oak
131	22	Good	Pin Oak
~~132~~	~~62~~	~~Poor~~	~~American Basswood~~
~~133~~	~~28~~	~~Poor~~	~~American Basswood~~
134	6	Good	Red Mulberry
~~135~~	~~48~~	~~Dead~~	~~Green Ash~~
136	6	Good	Red Mulberry
137	8	Good	Hackberry
138	14	Good	Hackberry
139	18	Good	Hackberry
140	10	Good	Hackberry
141	6	Good	Hackberry
142	15	Good	Hackberry
143	40	Good	Shagbark Hickory
144	58	Fair	Silver Maple
145	32	Good	Pin Oak
146	10	Good	Black Locust
147	6	Fair	Black Cherry
148	28	Good	Pin Oak
149	12	Good	Pin Oak
150	12	Good	Pin Oak
151	14	Good	Shagbark Hickory
152	30	Good	Pin Oak
153	10	Good	Shagbark Hickory
154	10	Good	Pin Oak
155	8	Good	Shagbark Hickory
156	8	Good	Shagbark Hickory
157	32	Good	Pin Oak
158	10	Good	Shagbark Hickory
159	22	Good	Pin Oak
160	12	Good	Pin Oak
161	26	Good	Pin Oak
162	10	Good	Pin Oak
163	18	Good	Pin Oak
251	8	Good	Black Cherry
623	12	Good	Pin Oak
624	8	Good	Pin Oak
625	6	Good	Pin Oak
785	32	Good	Pin Oak

REVISIONS

MARK	DATE	DESCRIPTION

PulteGroup

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
FINAL DEVELOPMENT PLAN
FOR
COMMUNITIES AT GLENROSS
SECTION 14
TREE INVENTORY & REMOVAL PLAN

EMH&T
Engineers • Surveyors • Planners • Scientists
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 866.775.5348
emht.com

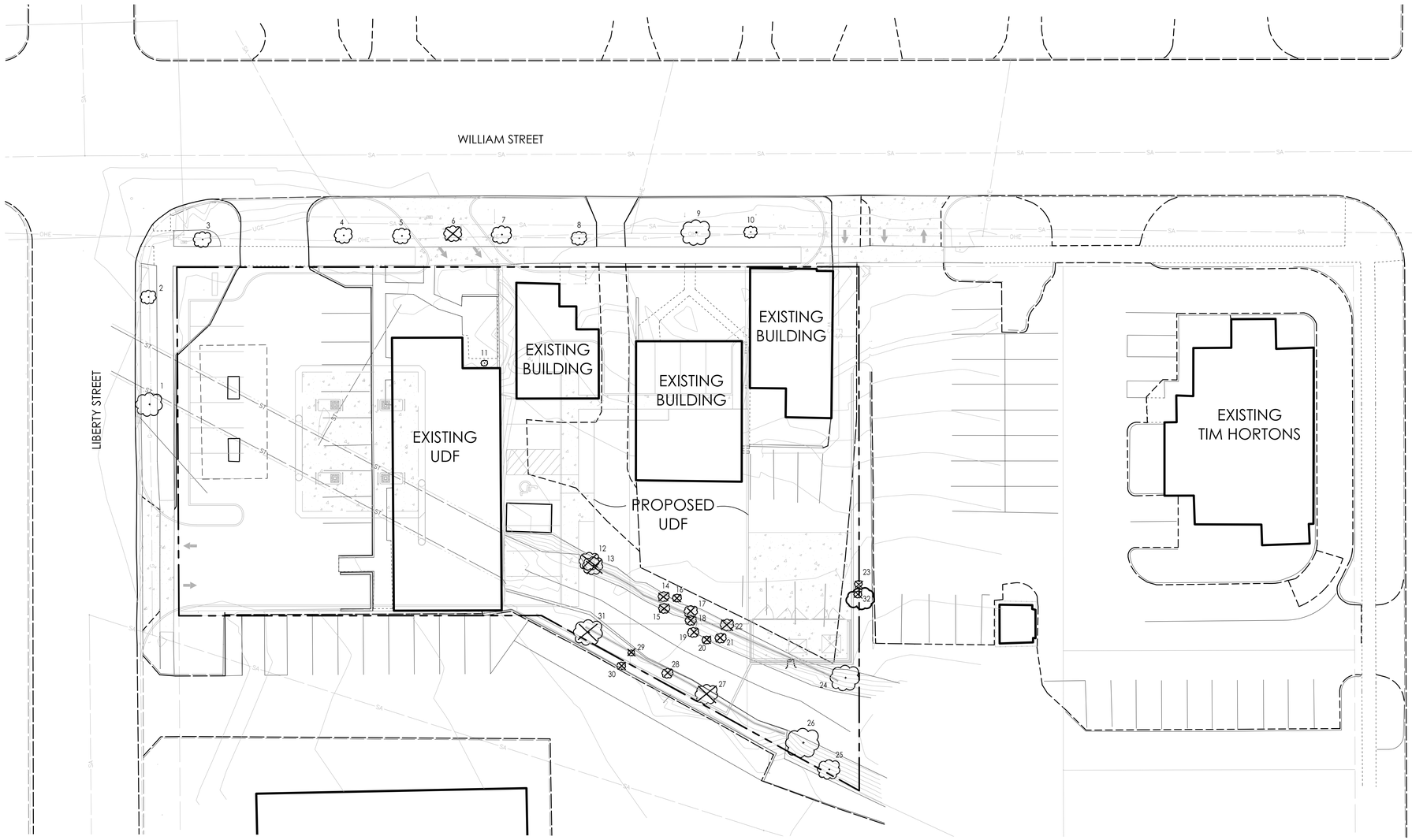
DATE 20190747

SCALE As Noted

JOB NO. 20190747

SHEET 7/10

J:\20190747\Dwg\04Sheets\Final Development Plan\7 Tree Inventory & Removal Plan.dwg, Last Saved By: sohara, 3/1/2021 1:35 PM Last Printed By: O'Hara, Shaun, 3/2/2021 8:57 AM (No Xrefs)



GENERAL NOTES:

1. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY TREE PROTECTION FENCE AS SHOWN.
2. ONLY TREES 6" CAL. (DBH) AND LARGER WITHIN DEVELOPMENT LIMITS NOTED ON THESE PLANS.
3. PROTECTION FENCING OR BARRIER SHALL REMAIN THROUGHOUT CONSTRUCTION AND ANY SUBSEQUENT GRADING OR EXCAVATION UNLESS OTHERWISE APPROVED ON A CLEARING AND GRADING PLAN. IN NO CASE SHALL MATERIALS, DEBRIS, FILL, VEHICLES OR EQUIPMENT BE STORED WITHIN THIS ENCLOSURE.

LEGEND

EXISTING TREES TO BE PRESERVED

EXISTING TREES TO BE REMOVED

TREES INVENTORY WITHIN PROJECT LIMTS

TREES LISTED IN INVENTORY BELOW ARE 'MAJOR TREES' AS DEFINED BY DELAWARE CODE 1168.02 AND ARE A MINIMUM SIX-INCH DIAMETER AT BREAST HEIGHT (DBH).

TREE INVENTORY SCHEDULE

KEY	TREE SPECIE (COMMON NAME)	DBH	CONDITION	COMMENTS	EXEMPT FROM REPLACEMENT
1	HONEYLOCUST	16"	FAIR	PRESERVE	
2	HONEYLOCUST	14"	FAIR	PRESERVE	
3	HONEYLOCUST	14"	GOOD	PRESERVE	
4	HONEYLOCUST	18"	GOOD	PRESERVE	
5	HONEYLOCUST	12"	GOOD	PRESERVE	
6	HONEYLOCUST	12"	GOOD	REMOVE	
7	HONEYLOCUST	20"	GOOD	PRESERVE	
8	CHERRY	8"	GOOD	PRESERVE	
9	FLOWERING PEAR	20"	FAIR	PRESERVE	
10	CHERRY	12"	GOOD	PRESERVE	
11	JAPANESE MAPLE	5"	FAIR	PRESERVE	
12	HACKBERRY	18"	FAIR	REMOVE	
13	HACKBERRY	18"	FAIR	REMOVE	
14	BLACK LOCUST	10"	FAIR	REMOVE	
15	BLACK LOCUST	10"	FAIR	REMOVE	
TOTAL TREE CALIPER (DBH) REMOVED = 68"					

TREE INVENTORY SCHEDULE

KEY	TREE SPECIE (COMMON NAME)	DBH	CONDITION	COMMENTS	EXEMPT FROM REPLACEMENT
16	BLACK LOCUST	8"	FAIR	REMOVE	
17	ELM	12"	POOR	REMOVE	
18	ELM	10"	FAIR	REMOVE	
19	BLACK LOCUST	10"	POOR	REMOVE	
20	ELM	8"	FAIR	REMOVE	
21	UNKNOWN	10"	DEAD	REMOVE	X
22	ELM	18"	FAIR	REMOVE	
23	BLACK LOCUST	6"	FAIR	REMOVE	
24	BLACK LOCUST	26"	FAIR	PRESERVE	
25	WALNUT	20"	FAIR	PRESERVE	
26	HORNBEAM	30"	FAIR	PRESERVE	
27	ELM	20"	POOR	REMOVE	
28	CATALPA	10"	FAIR	REMOVE	
29	UNKNOWN	6"	FAIR	REMOVE	
30	UNKNOWN	8"	FAIR	REMOVE	
31	UNKNOWN	26"	FAIR	REMOVE	
32	UNKNOWN	8"	FAIR	REMOVE	
TOTAL TREE CALIPER (DBH) REMOVED = 108"					

TOTAL TREE CALIPER (DBH) REMOVED = 176"
CALCULATION DOES NOT INCLUDE TREES IN 'POOR' CONDITION

K4 ARCHITECTURE + DESIGN
555 Gest Street
Cincinnati, Ohio 45203
Tel: (513) 455-5000
Fax: (513) 455-5008
Webpage: www.k4architecture.com
Email: info@k4architecture.com

NEW CONVENIENCE STORE FOR:
UNITED DAIRY FARMERS
123 EAST WILLIAM STREET
DELAWARE, OH 45013

United Dairy Farmers

REVISIONS / SUBMISSIONS

NO.	DESCRIPTION	DATE
	CITY SUBMITTAL	06/10/20
	REVISED TREE SURVEY	03/02/21

EDGE PLANNING LANDSCAPE ARCHITECTURE URBAN DESIGN
330 W. SPRING STREET, SUITE 350
COLUMBUS, OH 43215
614.486.3343
www.edgela.com

0' 10' 20' 40' NORTH

TREE SURVEY

Drawn By:	BDF
Scale:	AS NOTED
Job No.:	19-2111

L1.01

J:\20200659\Dwg\04Sheets\final development plan7 Illustrative Site Plan.dwg, Last Saved By: sohara, 3/2/2021 8:21 AM Last Printed By: O'Hara, Shaun, 3/26/2021 4:25 PM (No Xrefs)

GRAPHIC SCALE
0 10 20
1 inch = 20 feet

SHEET	9/9
JOB NO.	20200659
SCALE	1" = 20'
DATE	March 2, 2021

EMHT
Evans, Mechwart, Hambleton & Tilton, Inc.
Engineers • Surveyors • Planners • Scientists
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 866.775.3648
emht.com

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
FINAL DEVELOPMENT PLAN
FOR
TERRA ALTA CLUBHOUSE

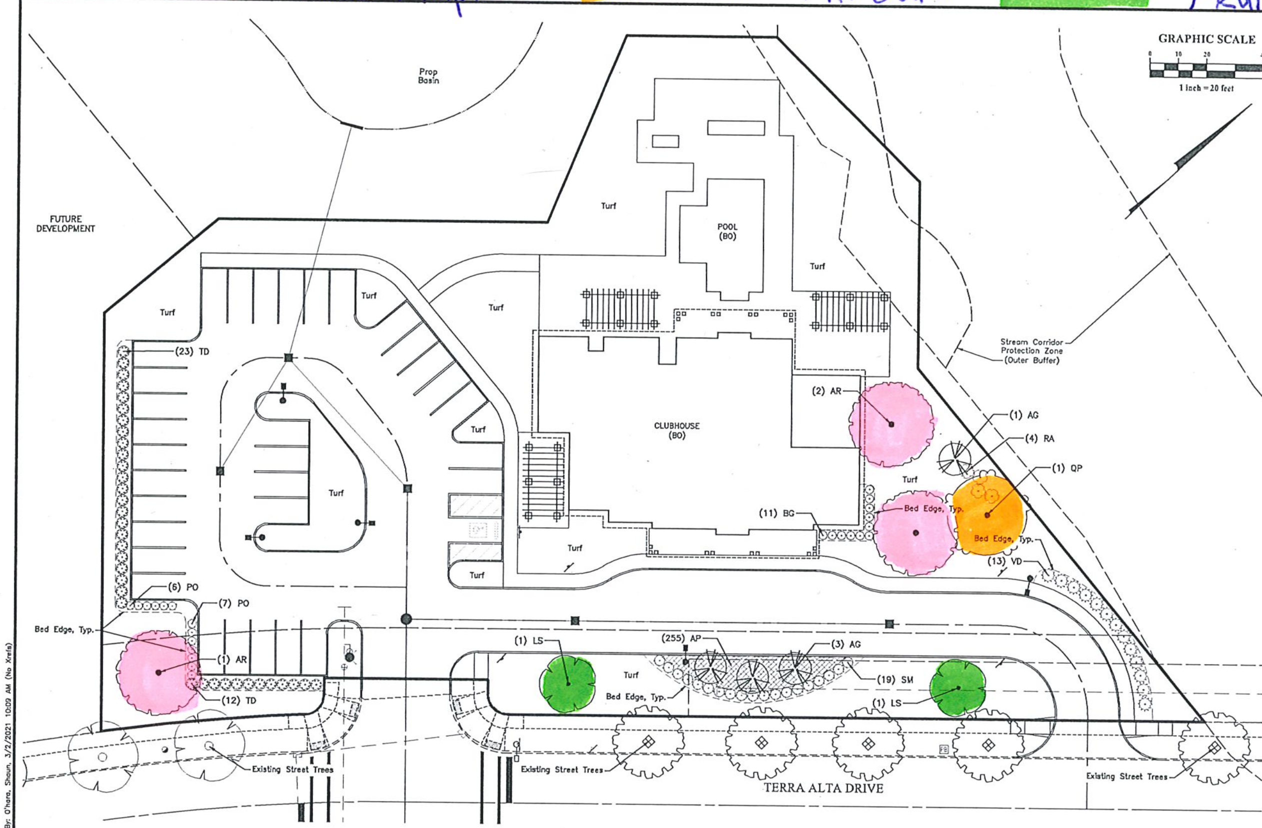
ILLUSTRATIVE SITE PLAN

TERRA ALTA, LLC
VINCE ROMANELLI
148 WEST SCHROCK ROAD
WESTERVILLE, OHIO 43081
TEL: (614) 891-2042
FAX: (614) 891-2045

REVISIONS		
MARK	DATE	DESCRIPTION

As Submitted

Red Maple — Pin Oak — Fruitless sweet gum



GRAPHIC SCALE

1 inch = 20 feet

NOTES:

The City of Delaware Codified Ordinance states:

1166.06 Street tree planting requirements.

In all zoning districts, developers shall plant and maintain shade trees along public and private streets in compliance with the following (Ord. 03-78. Passed September 22, 2003)

Street trees for the clubhouse frontage were a part of the Terra Alta Drive plans.

1166.07 Landscaping requirements for front yards.

Except for lots devoted to single-family detached dwellings and two-family dwellings, all areas within the required building and parking setback, excluding driveway openings, shall be landscaped and maintained in compliance with the following:

(a) One shade tree shall be provided for every fifty (50) linear feet of lot frontage or fraction thereof, not including drive entrances.

The clubhouse lot has 390' of frontage along Terra Alta Drive. A rate of one tree per 50 feet equates to eight trees. Due to limited space within the front yard, the developer is proposing to install some of the eight trees in areas other than the front yard - see Landscape Plan this sheet.

(b) Each tree at the time of installation shall have a minimum caliper of 3.0 inches and a clear trunk height of at least six (6) feet. Two 1.75-inch trees may be substituted for each 3.0-inch tree. (Ord. 02-54. Passed June 10, 2002)

The Developer shall install the four 1.75-inch caliper and six 3-inch caliper front yard trees.

(c) One shrub shall be provided for every ten (10) linear feet of lot frontage or fraction thereof, not including drive entrances.

The clubhouse lot has 390' of frontage along Terra Alta Drive. A rate of one shrub per 10 feet equates to 39 shrubs. Due to limited space within the front yard, the developer is proposing to install some of the 49 shrubs in areas other than the front yard - see Landscape Plan this sheet.

(d) All areas not devoted to trees and shrubs shall be planted with grass, ground cover or other live landscape treatment, excluding paving or gravel

All areas not devoted to trees and shrubs will be planted with grass.

(e) The landscaping may be flexible in its arrangement by appropriately aggregating the required plant material

See Site Plan this sheet.

1166.08 Screening and buffering when a lot abuts a residential district or use.

Screening and buffering along the entire length of a common boundary shall be provided in accordance with the following regulations and shall be approved as part of the development plan required by Chapter 1129.

(a) Required for the Following: Screening and buffering shall be required according to the following:
(1) When a lot in any non-residential district abuts a residential district;
(2) When a lot in an R-5, R-6, R-7 or R-8 District abuts a residential district; and
(3) When a lot in a residential district is devoted to a non-residential conditional use.

(b) Width of Buffer Yard. Each required buffer yard shall have a minimum width equal to the parking setback required for the district.

(c) Screening. When the natural vegetation within the required buffer yard does not form a solid, continuous, visual screen or does not have a minimum height of six (6) feet along the entire length of the common boundary, screening shall be installed in compliance with the following:
(1) Screening Materials. Screening within the buffer yard shall consist of one or more of the following:
A. A dense vegetative planting incorporating trees and/or shrubs of a variety which shall be equally effective in winter and summer. Trees and/or shrubs shall be adequately spaced to form a solid, continuous visual screen within three (3) years after the initial installation.
B. Non-living opaque structures such as a solid masonry wall or a solid fence that is compatible with the principal structure.
C. A fence with openings through which light and air may pass together with a landscaped area at least ten (10) feet wide. A chain link fence shall not be permitted D.A landscaped mound or berm at least five (5) feet wide, with no more than a 3:1 slope.
(2) Location. The location of the wall, fence, or vegetation shall be placed within the buffer yard to maximize the screening effect, as determined by the Planning Commission.

(3) Height of Screening. The height of screening shall be in accordance with the following:

A. Visual screening by walls, fences, or mounds in combination with vegetation, fences or walls shall be a minimum of six (6) feet high measured from the natural grade, except as set forth in subsection B below.

B. Whenever the required screening is located within a front yard or within fifty (50) feet of a parking lot, drive, or driveway entrance, the required screening shall not exceed a height of three (3) feet.
C. When used alone, vegetation shall be a minimum of six (6) feet high, as measured from the natural grade, in order to accomplish the desired screening effect. The required height shall be achieved no later than two (2) years after the initial installation.

1166.09 Screening and landscaping of parking lots.
(a) Landscaping on the Interior of Parking Lots. All new parking spaces and their associated driving aisle shall be defined by landscaped curbed islands, as described more fully elsewhere in this Chapter plus Chapter 1151—Parking. In addition to those parking lot islands, larger parking lots shall provide additional intervening or midway islands to break up the sea of asphalt, to provide shade for cars and pedestrians, and to be areas to absorb run-off. As such, additional interior landscaping of parking lots shall be provided in accordance with the following requirements: (Ord. 04-92. Passed 6-14-04)
1. For any parking area designed to accommodate forty (40) or more vehicles, a minimum of 5 percent (5%) of the parking lot shall be planted as landscaped island areas.
A. Landscaped islands shall be developed and distributed throughout the parking lot to:
1. Define major circulation aisles and driving lanes; and
2. Provide visual and climatic relief from broad expanses of pavement.
B. Each island shall be a minimum of ten (10) feet in any horizontal dimension
C. Within the landscaped islands, one (1) shade tree shall be provided for every ten (10) parking spaces. Each tree, at the time of installation, shall have a minimum caliper of 3.0 inches and a clear trunk height of at least six (6) feet. Two 1.75-inch trees may be substituted for each 3.0-inch tree.
D. D.Shrubs or low, spreading plant materials shall be planted within required landscaped islands in such a way that there is no impairment to the visibility of motorists or pedestrians.
E. E.Landscaped areas adjacent to the perimeter of the parking area shall not be counted as interior parking lot landscaped areas

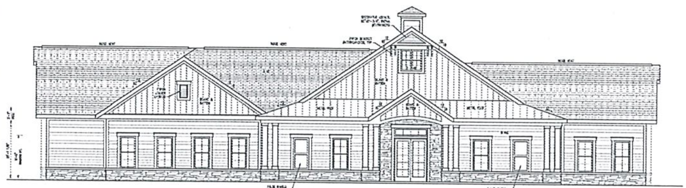
The proposed parking lot contains 29 spaces (less than 40 spaces).

2. For the purpose of this Section the area of a parking lot shall be the total vehicular surface area including circulation aisles.

(b). Screening Along Public Streets and Perimeter of Parking Areas. Whenever parking areas consisting of five (5) spaces or more are located such that the parked cars will be visible from a public street, screening, in addition to the interior landscaping required in subsection (a) above, shall be provided and maintained between the parking area and the street right-of-way.
(1)All shrubs, berms, walls, and fences shall have a minimum height of three (3) feet.
(2)Such landscaping and/or screening shall be located parallel to and within five (5) feet of the edge of the parking lot.
(3)Berms, with vegetation, are preferred

A continuous row of shrubs shall be installed between the parking lot and Terra Alta Drive, and along the west property line. See Landscape Plan this sheet.

The Developer and/or Home Owners Association my install more plants than what are depicted on this sheet sometime in the future.



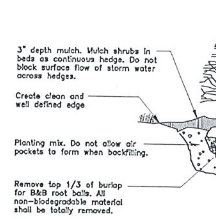
FRONT ELEVATION

RIGHT ELEVATION

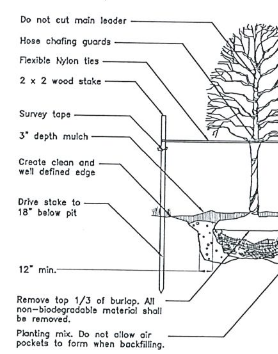
See architecture plans for clubhouse and pool information.

PLANT SCHEDULE CLUBHOUSE LANDSCAPE

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
AR	3	Acer rubrum	Red Maple	3" Cal.	B&B
LS	2	Liquidambar styraciflua 'Rotundiloba'	Fruitless Sweet Gum	3" Cal.	B&B
QP	1	Quercus palustris	Pin Oak	3" Cal.	B&B
ORNAMENTAL TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
AG	4	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Apple Serviceberry	1.75" Cal.	Clump Form
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
PO	13	Physocarpus opulifolius 'SMPOTW'	Tiny Wine Ninebark	24" Ht.	Cont.
RA	4	Rhus aromatica	Fragrant Sumac	18" Ht.	Cont.
SM	19	Syringa meyeri	Palibin Lilac	24" Ht.	B&B
VD	13	Viburnum dentatum 'Arrowwood'	Arrowwood Viburnum	36" Ht.	B&B
EVERGREEN SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
BG	11	Buxus x 'Green Velvet'	Green Velvet Boxwood	24" Ht.	Cont.
TD	35	Taxus x media 'Densiformis'	Dense Yew	30" Ht.	B&B
SEASONAL DISPLAY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
AP	550 sf	Annuals/Perennials/Ornamental Grasses		#1	Cont.



Shrub Planting
No Scale



Deciduous Tree Planting
No Scale

REVISIONS

MARK	DATE	DESCRIPTION

TERRA ALTA, LLC
VINCE ROMANELLI
148 WEST SCHROCK ROAD
WESTERVILLE, OHIO 43081
TEL: (614) 891-2042
FAX: (614) 891-2045

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
FINAL DEVELOPMENT PLAN
FOR
TERRA ALTA CLUBHOUSE
LANDSCAPE PLAN

EMHT

DATE: March 3, 2021
SCALE: 1" = 20'
JOB NO. 20200659
SHEET 4/6

J:\20200659\Dwg\04Sheets\final development plan\5 Landscape Plan.dwg, Last Saved By: jbobby, 3/2/2021 9:53 AM Last Printed By: O'Hara, Shaun, 3/2/2021 10:09 AM (No Xrefs)

KEY

- EXISTING TREE
- EXISTING TREE TO BE REMOVED (SEE "TREE REMOVAL PLAN" SHEET)
- TREE PRESERVATION AREA
- TREE PROTECTION FENCE (SEE DETAIL 1, "TREE REMOVAL PLAN" SHEET)
- GRADING LIMITS
- 100-YEAR FLOOD PLAIN

NOTE: SEE "TREE SURVEY DATA" SHEET FOR INDEX OF EXISTING TREES

ADDENDUM B

OVERALL TREE SURVEY PLAN

DELAWARE, OH

HOUK ROAD DEVELOPMENT

PREPARED FOR ARCHITECTURAL ALLIANCE

DATE: 1.13.2021

NORTH
SCALE: 1"=100'
0 50 100 200 300

Faris Planning & Design
LAND PLANNING • LANDSCAPE ARCHITECTURE
243 N. 5th Street Suite 401 Columbus, OH 43215
p (614) 487-1964 www.farisplanninganddesign.com

FLOOD WAY

100 - YEAR FLOOD PLAIN

FLOOD WAY

100 - YEAR FLOOD PLAIN

KEY

- EXISTING TREE
- EXISTING TREE TO BE REMOVED (SEE "TREE REMOVAL PLAN" SHEET)
- TREE PRESERVATION AREA
- TREE PROTECTION FENCE (SEE DETAIL 1, "TREE REMOVAL PLAN" SHEET)
- GRADING LIMITS
- 100-YEAR FLOOD PLAIN

NOTE: SEE "TREE SURVEY DATA" SHEET FOR INDEX OF EXISTING TREES

TREE PRESERVATION PLAN DELAWARE, OH

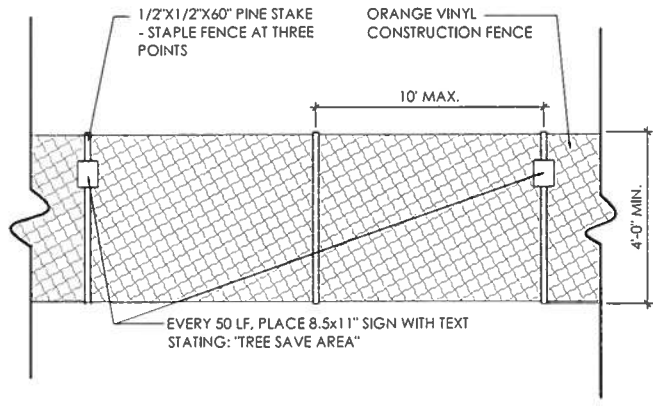
HOUK ROAD DEVELOPMENT

PREPARED FOR ARCHITECTURAL ALLIANCE

DATE: 1.13.2021

NORTH
SCALE: 1"=50'
0 25 50 100 150

Faris Planning & Design
LAND PLANNING • LANDSCAPE ARCHITECTURE
243 N. 5th Street Suite 401 Columbus, OH 43215
p (614) 487-1964 www.farisplanninganddesign.com



1 TREE PROTECTION FENCE 05-2809
N.T.S.

KEY

EXISTING TREE TO BE REMOVED

TREE PROTECTION FENCE (SEE DETAIL 1, THIS SHEET)

NOTE: SEE "TREE SURVEY DATA" SHEET FOR INDEX OF EXISTING TREES

TREE REMOVAL PLAN DELAWARE, OH

HOUK ROAD DEVELOPMENT

PREPARED FOR ARCHITECTURAL ALLIANCE

DATE: 1.13.2021

NORTH
SCALE: 1"=50'
0 25 50 100 150

Faris Planning & Design
LAND PLANNING • LANDSCAPE ARCHITECTURE
243 N. 5th Street Suite 401 Columbus, OH 43215
p (614) 487-1964 www.farisplanninganddesign.com

TREE #	SIZE	SPECIES	CONDITION	STATUS
1	7	CHERRY	GOOD	REMOVE
2	6	PINE	GOOD	REMOVE
3	31	MAPLE	GOOD	REMOVE
4	13	TREE	DEAD	REMOVE
5	26	HACKBERRY	GOOD	REMOVE
6	6	SPRUCE	POOR	REMOVE
7	11	TREE	DEAD	REMOVE
8	15	WALNUT	GOOD	REMOVE
9	39	WALNUT	GOOD	REMOVE
10	34	MAPLE	GOOD	REMOVE
11	20	MAPLE	GOOD	REMOVE
12	19	MAPLE	GOOD	PRESERVE
13	15	ASH	POOR	PRESERVE
14	9	MULBERRY	FAIR	PRESERVE
15	11	MULBERRY	POOR	PRESERVE
16	8	HACKBERRY	GOOD	PRESERVE
17	10	HACKBERRY	GOOD	PRESERVE
18	6	HICKORY	FAIR	PRESERVE
19	9	TREE	DEAD	REMOVE
20	21	HICKORY	FAIR	PRESERVE
21	7	APPLE	FAIR	PRESERVE
22	8	SPRUCE	GOOD	PRESERVE
23	10	SPRUCE	GOOD	PRESERVE
24	9	HACKBERRY	FAIR	PRESERVE
25	33	HACKBERRY	GOOD	PRESERVE
26	22	SPRUCE	GOOD	REMOVE
27	18	SPRUCE	GOOD	REMOVE
28	22	PINE	GOOD	PRESERVE
29	11	SPRUCE	GOOD	REMOVE
30	13	PINE	FAIR	REMOVE
31	16	PINE	GOOD	REMOVE
32	15	PINE	FAIR	REMOVE
33	25	MULBERRY	POOR	REMOVE
34	11	PINE	GOOD	REMOVE
35	21	PINE	GOOD	REMOVE
36	22	PINE	GOOD	REMOVE
37	13	SWEETGUM	GOOD	REMOVE
38	13	SWEETGUM	GOOD	REMOVE
39	15	MULBERRY	FAIR	PRESERVE
40	12	MULBERRY	POOR	PRESERVE
41	15	PINE	GOOD	PRESERVE
42	6	HACKBERRY	FAIR	PRESERVE
43	12	TREE	DEAD	PRESERVE
44	10	SWEETGUM	GOOD	REMOVE
45	13	SWEETGUM	FAIR	REMOVE
46	13	LOCUST	GOOD	PRESERVE
47	6	HACKBERRY	GOOD	PRESERVE
48	15	LOCUST	GOOD	PRESERVE
49	7	LOCUST	FAIR	PRESERVE
50	15	HACKBERRY	GOOD	PRESERVE
51	11	MULBERRY	POOR	PRESERVE
52	10	MULBERRY	FAIR	PRESERVE
53	21	ASH	FAIR	PRESERVE
54	12	HICKORY	FAIR	PRESERVE
55	10	PINE	FAIR	PRESERVE
56	12	PINE	FAIR	REMOVE
57	13	PINE	GOOD	PRESERVE
58	10	HACKBERRY	GOOD	PRESERVE
59	15	LOCUST	FAIR	PRESERVE
60	9	PINE	FAIR	REMOVE
61	11	PINE	GOOD	REMOVE
62	11	PINE	FAIR	PRESERVE
63	18	PINE	FAIR	PRESERVE
64	9	LOCUST	GOOD	PRESERVE
65	13	WALNUT	GOOD	REMOVE
66	14	PINE	FAIR	PRESERVE
67	18	LOCUST	FAIR	PRESERVE
68	20	MULBERRY	FAIR	PRESERVE
69	7	ASH	GOOD	REMOVE
70	10	HACKBERRY	FAIR	REMOVE
71	9	APPLE	POOR	REMOVE
72	16	LOCUST	GOOD	REMOVE
73	17	LOCUST	FAIR	REMOVE
74	9	PINE	FAIR	REMOVE
75	10	PINE	FAIR	REMOVE
76	14	LOCUST	FAIR	REMOVE
77	14	LOCUST	GOOD	REMOVE
78	6	PINE	POOR	REMOVE
79	10	LOCUST	GOOD	REMOVE
80	6	PINE	GOOD	REMOVE
81	11	PINE	FAIR	REMOVE
82	11	LOCUST	FAIR	REMOVE
83	11	MAPLE	FAIR	REMOVE
84	11	PINE	FAIR	PRESERVE
85	9	PINE	FAIR	PRESERVE
86	6	PINE	POOR	PRESERVE
87	17	LOCUST	POOR	PRESERVE
88	14	LOCUST	FAIR	PRESERVE
89	11	LOCUST	FAIR	PRESERVE
90	15	LOCUST	FAIR	PRESERVE
91	18	LOCUST	GOOD	PRESERVE
92	14	PINE	FAIR	PRESERVE
93	7	PINE	FAIR	PRESERVE
94	19	LOCUST	GOOD	PRESERVE
95	10	LOCUST	FAIR	PRESERVE
96	10	PINE	FAIR	PRESERVE
97	7	HACKBERRY	FAIR	REMOVE
98	10	HACKBERRY	GOOD	REMOVE
99	23	OAK	GOOD	REMOVE
100	30	COTTONWOOD	FAIR	REMOVE
101	20	PINE	GOOD	REMOVE
102	37	WALNUT	POOR	REMOVE
103	21	PINE	FAIR	REMOVE
104	34	MAPLE	FAIR	REMOVE
105	31	MAPLE	FAIR	REMOVE
106	39	MAPLE	GOOD	REMOVE
107	21	SWEETGUM	FAIR	REMOVE
108	12	RED CEDAR	POOR	REMOVE
109	7	MULBERRY	FAIR	REMOVE
110	13	APPLE	POOR	REMOVE
111	35	MAPLE	FAIR	REMOVE
112	17	SWEETGUM	FAIR	REMOVE
113	7	PINE	FAIR	REMOVE
114	6	PINE	FAIR	REMOVE
115	13	SPRUCE	GOOD	REMOVE
116	20	SWEETGUM	FAIR	REMOVE
117	15	PINE	FAIR	REMOVE
118	14	MAPLE	GOOD	REMOVE
119	9	SPRUCE	FAIR	REMOVE
120	6	SPRUCE	GOOD	REMOVE
121	10	TREE	DEAD	REMOVE
122	7	SPRUCE	FAIR	REMOVE
123	10	SPRUCE	GOOD	REMOVE
124	6	SPRUCE	GOOD	REMOVE
125	6	SPRUCE	POOR	REMOVE
126	7	SPRUCE	FAIR	PRESERVE **
127	9	SPRUCE	FAIR	PRESERVE **
128	25	PINE	FAIR	REMOVE
129	30	PINE	FAIR	REMOVE
130	12	MULBERRY	POOR	REMOVE
131	8	TREE	DEAD	REMOVE
132	8	PINE	POOR	REMOVE
133	31	PINE	FAIR	REMOVE
134	35	PINE	GOOD	REMOVE
135	57	MAPLE	GOOD	PRESERVE **
136	65	MAPLE	GOOD	PRESERVE **
137	20	COTTONWOOD	FAIR	PRESERVE **
138	19	COTTONWOOD	FAIR	PRESERVE **
139	9	COTTONWOOD	POOR	PRESERVE **
140	11	COTTONWOOD	POOR	PRESERVE **
141	10	COTTONWOOD	FAIR	PRESERVE **
142	12	COTTONWOOD	POOR	PRESERVE **
143	6	COTTONWOOD	FAIR	PRESERVE **
144	19	LOCUST	POOR	PRESERVE **
145	11	TREE	DEAD	PRESERVE **
146	7	COTTONWOOD	GOOD	PRESERVE **
147	9	LOCUST	FAIR	PRESERVE **
148	9	ASH	FAIR	PRESERVE **
149	11	ASH	GOOD	PRESERVE **
150	9	TREE	DEAD	PRESERVE **
151	12	COTTONWOOD	FAIR	PRESERVE **
152	7	HACKBERRY	POOR	PRESERVE **
153	10	WALNUT	FAIR	PRESERVE **
154	7	COTTONWOOD	GOOD	PRESERVE **
155	15	HACKBERRY	GOOD	PRESERVE **
156	14	LOCUST	GOOD	PRESERVE **
157	13	LOCUST	FAIR	PRESERVE **
158	11	LOCUST	GOOD	PRESERVE **
159	16	HACKBERRY	GOOD	PRESERVE **
160	6	HACKBERRY	GOOD	PRESERVE **
161	6	HACKBERRY	FAIR	PRESERVE **
162	7	WALNUT	FAIR	PRESERVE **
163	7	ELM	GOOD	PRESERVE **
164	7	COTTONWOOD	GOOD	PRESERVE **
165	38	MAPLE	GOOD	PRESERVE **
166	43	MAPLE	GOOD	PRESERVE **
167	8	COTTONWOOD	FAIR	PRESERVE **
168	12	COTTONWOOD	POOR	PRESERVE **
169	6	COTTONWOOD	GOOD	PRESERVE **
170	7	COTTONWOOD	FAIR	PRESERVE **
171	10	MULBERRY	FAIR	PRESERVE **
172	7	COTTONWOOD	POOR	PRESERVE **
173	10	MULBERRY	FAIR	PRESERVE **
174	20	ELM	GOOD	PRESERVE **
175	11	WALNUT	POOR	PRESERVE **
176	7	MAPLE	POOR	PRESERVE **
177	7	MAPLE	FAIR	PRESERVE **
178	7	COTTONWOOD	FAIR	PRESERVE **
179	7	COTTONWOOD	FAIR	PRESERVE **
180	19	LOCUST	GOOD	PRESERVE **

** INDICATES TREES WITHIN 100 YEAR FLOOD PLAIN

TREE #	SIZE	SPECIES	CONDITION	STATUS
181	10	HONEYSUCKLE	GOOD	PRESERVE **
182	8	TREE	DEAD	PRESERVE **
183	6	COTTONWOOD	FAIR	PRESERVE **
184	9	COTTONWOOD	GOOD	PRESERVE **
185	21	OSAGE ORANGE	FAIR	PRESERVE **
186	14	HACKBERRY	GOOD	PRESERVE **
187	11	LOCUST	GOOD	PRESERVE **
188	15	LOCUST	FAIR	PRESERVE **
189	7	ASH	FAIR	PRESERVE **
190	6	COTTONWOOD	FAIR	PRESERVE **
191	8	WALNUT	FAIR	PRESERVE **
192	6	WALNUT	FAIR	PRESERVE **
193	7	COTTONWOOD	FAIR	PRESERVE **
194	7	WALNUT	FAIR	PRESERVE **
195	7	COTTONWOOD	GOOD	PRESERVE **
196	8	ASH	FAIR	PRESERVE **
197	6	ASH	GOOD	PRESERVE **
198	7	COTTONWOOD	FAIR	PRESERVE **
199	9	HACKBERRY	GOOD	PRESERVE **
200	20	COTTONWOOD	GOOD	PRESERVE **
201	22	COTTONWOOD	GOOD	PRESERVE **
202	7	CHERRY	GOOD	PRESERVE **
203	9	LOCUST	GOOD	PRESERVE **
204	20	LOCUST	FAIR	PRESERVE **
205	9	ELM	FAIR	PRESERVE **
206	6	COTTONWOOD	GOOD	PRESERVE **
207	9	LOCUST	POOR	PRESERVE **
208	20	LOCUST	FAIR	PRESERVE **
209	20	LOCUST	GOOD	PRESERVE **
210	8	COTTONWOOD	FAIR	PRESERVE **
211	7	ASH	GOOD	PRESERVE **
212	13	WALNUT	GOOD	PRESERVE **
213	7	ASH	FAIR	PRESERVE **
214	7	WALNUT	FAIR	PRESERVE **
215	13	WALNUT	GOOD	PRESERVE **
216	6	COTTONWOOD	FAIR	PRESERVE **
217	6	ASH	FAIR	PRESERVE **
218	8	ASH	POOR	PRESERVE **
219	8	ASH	FAIR	PRESERVE **
220	8	ASH	FAIR	PRESERVE **
221	10	WALNUT	FAIR	PRESERVE **
222	11	COTTONWOOD	FAIR	PRESERVE **
223	8	ASH	FAIR	PRESERVE **
224	8	ASH	POOR	PRESERVE **
225	7	WALNUT	FAIR	PRESERVE **
226	6	WALNUT	POOR	PRESERVE **
227	6	ASH	FAIR	PRESERVE **
228	6	ASH	POOR	PRESERVE **
229	7	WALNUT	FAIR	PRESERVE **
230	10	WALNUT	GOOD	PRESERVE **
231	8	WALNUT	FAIR	PRESERVE **
232	11	ELM	GOOD	PRESERVE **
233	7	ASH	GOOD	PRESERVE **
234	7	ASH	FAIR	PRESERVE **
235	8	WALNUT	GOOD	PRESERVE **
236	10	LOCUST	GOOD	PRESERVE **
237	6	ASH	FAIR	PRESERVE **
238	10	HACKBERRY	GOOD	PRESERVE **
239	7	HACKBERRY	GOOD	PRESERVE **
240	11	HACKBERRY	POOR	PRESERVE **
241	15	WALNUT	GOOD	PRESERVE **
242	10	HACKBERRY	GOOD	PRESERVE **
243	10	HACKBERRY	FAIR	PRESERVE **
244	6	HACKBERRY	GOOD	PRESERVE **
245	10	HACKBERRY	FAIR	PRESERVE **
246	6	HACKBERRY	GOOD	PRESERVE **
247	6	ELM	FAIR	PRESERVE **
248	8	WALNUT	GOOD	PRESERVE **
249	52	WALNUT	GOOD	PRESERVE **
250	6	HACKBERRY	GOOD	PRESERVE **
251	9	HACKBERRY	GOOD	PRESERVE **
252	11	HACKBERRY	FAIR	PRESERVE **
253	7	HACKBERRY	FAIR	PRESERVE **
254	7	ASH	POOR	PRESERVE **
255	10	LOCUST	FAIR	PRESERVE **
256	7	WALNUT	GOOD	PRESERVE **
257	8	WALNUT	FAIR	PRESERVE **
258	10	COTTONWOOD	FAIR	PRESERVE **
259	12	COTTONWOOD	GOOD	PRESERVE **
260	7	ELM	FAIR	PRESERVE **
261	9	ELM	POOR	PRESERVE **
262	9	WALNUT	FAIR	PRESERVE **
263	8	LOCUST	GOOD	PRESERVE **
264	6	HACKBERRY	FAIR	PRESERVE **
265	7	WALNUT	POOR	PRESERVE **
266	9	COTTONWOOD	FAIR	PRESERVE **
267	21	COTTONWOOD	GOOD	PRESERVE **
268	15	COTTONWOOD	GOOD	PRESERVE **
269	8	WALNUT	FAIR	PRESERVE **
270	18	COTTONWOOD	GOOD	PRESERVE **
271	7	COTTONWOOD	FAIR	PRESERVE **
272	6	COTTONWOOD	FAIR	PRESERVE **
273	8	HACKBERRY	GOOD	PRESERVE **
274	18	HACKBERRY	GOOD	PRESERVE **
275	9	WALNUT	GOOD	PRESERVE **
276	28	LOCUST	GOOD	PRESERVE **
277	10	WALNUT	GOOD	PRESERVE **
278	9	ELM	POOR	PRESERVE **
279	12	ASH	POOR	PRESERVE **
280	8	ELM	FAIR	PRESERVE **
281	11	HACKBERRY	FAIR	PRESERVE **
282	9	ASH	FAIR	PRESERVE **
283	14	HACKBERRY	FAIR	PRESERVE **
284	7	HACKBERRY	FAIR	PRESERVE **
285	10	HACKBERRY	GOOD	PRESERVE **
286	12	ELM	POOR	PRESERVE **
287	9	HACKBERRY	GOOD	PRESERVE **
288	32	LOCUST	GOOD	PRESERVE **
289	6	HACKBERRY	FAIR	PRESERVE **
290	7	WALNUT	POOR	PRESERVE **
291	9	HACKBERRY	GOOD	PRESERVE **
292	20	LOCUST	GOOD	PRESERVE **
293	13	LOCUST	FAIR	PRESERVE **
294	16	COTTONWOOD	GOOD	PRESERVE **
295	7	COTTONWOOD	FAIR	PRESERVE **
296	7	COTTONWOOD	FAIR	PRESERVE **
297	7	WALNUT	FAIR	PRESERVE **
298	10	HACKBERRY	GOOD	PRESERVE **
299	13	HACKBERRY	FAIR	PRESERVE **
300	7	COTTONWOOD	GOOD	PRESERVE **
301	10	COTTONWOOD	POOR	PRESERVE **
302	10	HACKBERRY	FAIR	PRESERVE **
303	6	HACKBERRY	GOOD	PRESERVE **
304	8	HACKBERRY	GOOD	PRESERVE **
305	6	HACKBERRY	POOR	PRESERVE **
306	6	HACKBERRY	GOOD	PRESERVE **
307	20	LOCUST	FAIR	PRESERVE **
308	11	HACKBERRY	FAIR	PRESERVE **
309	9	HACKBERRY	GOOD	PRESERVE **
310	14	HACKBERRY	FAIR	PRESERVE **
311	14	COTTONWOOD	POOR	PRESERVE **
312	8	HACKBERRY	FAIR	PRESERVE **
313	11	HACKBERRY	GOOD	PRESERVE **
314	8	HACKBERRY	GOOD	PRESERVE **
315	21	COTTONWOOD	GOOD	PRESERVE **
316	8	HACKBERRY	GOOD	PRESERVE **
317	8	HACKBERRY	FAIR	PRESERVE **
318	9	HACKBERRY	FAIR	PRESERVE **
319	18	COTTONWOOD	FAIR	PRESERVE **
320	6	ASH	FAIR	PRESERVE **
321	10	HACKBERRY	GOOD	PRESERVE **
322	7	HACKBERRY	GOOD	PRESERVE **
323	11	HACKBERRY	GOOD	PRESERVE **
324	7	HACKBERRY	GOOD	PRESERVE **
325	7	WALNUT	FAIR	PRESERVE **
326	23	HACKBERRY	FAIR	PRESERVE **
327	8	HACKBERRY	POOR	PRESERVE **
328	47	HACKBERRY	GOOD	PRESERVE **
329	6	WALNUT	FAIR	PRESERVE **
330	10	HACKBERRY	FAIR	PRESERVE **
331	7	ELM	FAIR	PRESERVE **
332	7	HACKBERRY	FAIR	PRESERVE **
333	15	CHERRY	POOR	PRESERVE **
334	39	LOCUST	GOOD	PRESERVE **
335	11	ELM	GOOD	PRESERVE **
336	19	LOCUST	GOOD	PRESERVE **
337	17	LOCUST	FAIR	PRESERVE **
338	11	HACKBERRY	FAIR	PRESERVE **
339	35	LOCUST	POOR	PRESERVE **
340	13	HACKBERRY	FAIR	PRESERVE **
341	6	HACKBERRY	FAIR	PRESERVE **
342	8	ELM	FAIR	PRESERVE **
343	12	HACKBERRY	FAIR	PRESERVE **
344	8	HACKBERRY	FAIR	PRESERVE **
345	7	HACKBERRY	FAIR	PRESERVE **
346	14	HACKBERRY	GOOD	PRESERVE **
347	12	HACKBERRY	FAIR	PRESERVE **
348	8	HACKBERRY	FAIR	PRESERVE **
349	14	HICKORY	FAIR	PRESERVE **
350	13	MULBERRY	FAIR	PRESERVE **
351	9	HACKBERRY	GOOD	PRESERVE **
352	8	HAWTHORN	FAIR	PRESERVE **
353	19	HICKORY	FAIR	PRESERVE **
354	9	MAPLE	FAIR	PRESERVE **
355	7	ELM	FAIR	PRESERVE **
356	9	HACKBERRY	FAIR	PRESERVE **
357	10	WALNUT	GOOD	PRESERVE **
358	6	ASH	FAIR	REMOVE
359	12	PINE	POOR	REMOVE
360	9	TREE	DEAD	REMOVE

** INDICATES TREES WITHIN 100 YEAR FLOOD PLAIN

TREE #	SIZE	SPECIES	CONDITION	STATUS
361	18	PINE	GOOD	REMOVE
362	8	PINE	POOR	REMOVE
363	7	PINE	GOOD	REMOVE
364	15	PINE	GOOD	REMOVE
365	7	BIRCH	FAIR	REMOVE
366	11	PINE	GOOD	REMOVE
367	9	PINE	POOR	REMOVE
368	9	PINE	FAIR	REMOVE
369	12	PINE	GOOD	REMOVE
370	9	PINE	FAIR	REMOVE
371	10	PINE	GOOD	REMOVE
372	30	PINE	GOOD	REMOVE
373	8	ELM	FAIR	REMOVE
374	10	ELM	FAIR	REMOVE
375	11	BIRCH	FAIR	REMOVE
376	6	HACKBERRY	FAIR	REMOVE
377	17	PINE	FAIR	REMOVE
378	7	ELM	FAIR	REMOVE
379	7	ELM	FAIR	REMOVE
380	13	PINE	FAIR	REMOVE
381	20	PINE	GOOD	REMOVE
382	10	HACKBERRY	GOOD	REMOVE
383	27	PINE	GOOD	REMOVE
384	22	TREE	DEAD	REMOVE
385	10	PINE	FAIR	REMOVE
386	10	PINE	FAIR	REMOVE
387	9	PINE	GOOD	REMOVE
388	7	PINE	POOR	REMOVE
389	9	PINE	FAIR	REMOVE
390	8	PINE	FAIR	REMOVE
391	11	PINE	FAIR	REMOVE
392	12	PINE	GOOD	REMOVE
393	8	PINE	FAIR	REMOVE
394	16	PINE	GOOD	REMOVE
395	9	PINE	GOOD	REMOVE
396	7	PINE	FAIR	REMOVE
397	9	PINE	GOOD	REMOVE
398	7	PINE	POOR	REMOVE
399	11	PINE	FAIR	REMOVE
400	7	WALNUT	POOR	REMOVE
401	9	PINE	FAIR	REMOVE
402	11	PINE	GOOD	REMOVE
403	6	HACKBERRY	GOOD	REMOVE
404	7	ELM	FAIR	REMOVE
405	7	WALNUT	FAIR	REMOVE
406	7	HONEYSUCKLE	POOR	REMOVE
407	7	WALNUT	GOOD	REMOVE
408	8	TREE	DEAD	REMOVE
409	11	PINE	POOR	REMOVE
410	10	ELM	GOOD	REMOVE
411	6	ELM	GOOD	REMOVE
412	6	ELM	FAIR	REMOVE
413	9	PINE	GOOD	REMOVE
414	9	PINE	GOOD	REMOVE
415	8	PINE	GOOD	REMOVE
416	10	PINE	FAIR	REMOVE
417	8	PINE	POOR	REMOVE
418	6	CHERRY	FAIR	REMOVE
419	7	HACKBERRY	GOOD	REMOVE
420	10	PINE	FAIR	REMOVE
421	10	ASH	GOOD	REMOVE
422	7	CHERRY	FAIR	REMOVE
423	14	PINE	GOOD	REMOVE
424	10	CHERRY	FAIR	REMOVE
425	9	TREE	DEAD	REMOVE
426	9	PINE	FAIR	REMOVE
427	11	PINE	FAIR	REMOVE
428	10	PINE	FAIR	REMOVE
429	7	CHERRY	FAIR	REMOVE
430	9	PINE	GOOD	REMOVE
431	10	PINE	FAIR	REMOVE
432	11	PINE	FAIR	REMOVE
433	10	PINE	FAIR	REMOVE
434	11	PINE	POOR	REMOVE
435	22	PINE	GOOD	REMOVE
436	7	HICKORY	FAIR	REMOVE
437	10	TREE	DEAD	REMOVE
438	8	WALNUT	FAIR	REMOVE
439	11	PINE	GOOD	REMOVE
440	7	MULBERRY	FAIR	REMOVE
441	6	CHERRY	FAIR	REMOVE
442	11	MULBERRY	FAIR	REMOVE
443	7	CHERRY	FAIR	REMOVE
444	8	CHERRY	FAIR	REMOVE
445	11	HACKBERRY	GOOD	REMOVE
446	8	ASH	GOOD	REMOVE
447	8	HACKBERRY	FAIR	REMOVE
448	17	PINE	FAIR	REMOVE
449	21	PINE	GOOD	REMOVE
450	18	PINE	FAIR	REMOVE
451	28	LOCUST	FAIR	REMOVE
452	16	WALNUT	FAIR	REMOVE
453	11	PINE	GOOD	REMOVE
454	19	PINE	GOOD	REMOVE
455	6	ASH	FAIR	REMOVE
456	8	PINE	FAIR	REMOVE
457	10	ELM	GOOD	REMOVE
458	8	HICKORY	FAIR	REMOVE
459	7	ELM	FAIR	REMOVE
460	7	CHERRY	FAIR	REMOVE
461	7	ASH	FAIR	REMOVE
462	7	ELM	POOR	REMOVE
463	10	PINE	FAIR	REMOVE
464	8	CHERRY	FAIR	REMOVE
465	7	CHERRY	FAIR	REMOVE
466	7	WALNUT	FAIR	REMOVE
467	8	ASH	FAIR	REMOVE
468	11	ASH	POOR	REMOVE
469	10	PINE	FAIR	REMOVE
470	8	CHERRY	FAIR	REMOVE
471	9	PINE	POOR	OFF SITE
472	11	PINE	FAIR	OFF SITE
473	10	PINE	FAIR	PRESERVE
474	10	PINE	GOOD	REMOVE
475	9	PINE	FAIR	REMOVE
476	10	PINE	GOOD	REMOVE
477	6	HACKBERRY	FAIR	REMOVE
478	8	ASH	GOOD	REMOVE
479	11	PINE	GOOD	REMOVE
480	6	CHERRY	GOOD	REMOVE
481	11	PINE	GOOD	REMOVE
482	9	PINE	GOOD	REMOVE
483	7	ELM	POOR	REMOVE
484	7	ELM	FAIR	REMOVE
485	10	PINE	FAIR	REMOVE
486	7	HACKBERRY	GOOD	REMOVE
487	10	PINE	POOR	REMOVE
488	15	PINE	GOOD	REMOVE
489	16	HACKBERRY	GOOD	PRESERVE
490	11	PINE	FAIR	OFF SITE
491	11	PINE	FAIR	OFF SITE
492	9	PINE	GOOD	OFF SITE
493	11	PINE	GOOD	PRESERVE
494	16	PINE	GOOD	PRESERVE
495	19	PINE	FAIR	OFF SITE
496	10	PINE	FAIR	OFF SITE
497	11	PINE	FAIR	OFF SITE
498	11	PINE	GOOD	OFF SITE
499	6	CHERRY	FAIR	OFF SITE
500	6	LOCUST	POOR	PRESERVE
501	8	LOCUST	POOR	PRESERVE
502	8	ELM	FAIR	PRESERVE
503	9	PINE	FAIR	PRESERVE
504	10	PINE	GOOD	REMOVE
505	6	HACKBERRY	GOOD	REMOVE
506	15	LOCUST	FAIR	REMOVE
507	8	LOCUST	FAIR	REMOVE
508	11	ELM	GOOD	REMOVE
509	11	HICKORY	FAIR	REMOVE
510	14	PINE	GOOD	REMOVE
511	7	MAPLE	GOOD	PRESERVE
512	10	ASH	POOR	PRESERVE
513	6	HACKBERRY	GOOD	REMOVE
514	9	PINE	POOR	REMOVE
515	10	PINE	POOR	REMOVE
516	9	PINE	FAIR	REMOVE
517	10	MAPLE	GOOD	REMOVE
518	9	CHERRY	GOOD	REMOVE
519	14	WALNUT	GOOD	REMOVE
520	11	CHERRY	GOOD	REMOVE
521	8	AILANTHUS	FAIR	REMOVE
522	11	PINE	POOR	REMOVE
523	11	PINE	FAIR	REMOVE
524	8	CHERRY	POOR	REMOVE
525	8	WALNUT	GOOD	REMOVE
526	7	HACKBERRY	GOOD	REMOVE
527	11	MULBERRY	POOR	REMOVE
528	11	WALNUT	FAIR	REMOVE
529	7	ASH	FAIR	REMOVE
530	8	HACKBERRY	GOOD	REMOVE
531	11	ELM	FAIR	REMOVE
532	7	HICKORY	FAIR	OFF SITE
533	7	HACKBERRY	GOOD	REMOVE
534	19	TREE	DEAD	OFF SITE
535	9	WALNUT	POOR	REMOVE
536	7	HICKORY	POOR	REMOVE
537	16	WALNUT	FAIR	REMOVE
538	19	ELM	FAIR	REMOVE
539	7	MAPLE	GOOD	REMOVE
540	6	WALNUT	POOR	REMOVE

** INDICATES TREES WITHIN 100 YEAR FLOOD PLAIN

TREE #	SIZE	SPECIES	CONDITION	STATUS
541	7	HACKBERRY	GOOD	REMOVE
542	8	ELM	GOOD	REMOVE
543	9	MAPLE	GOOD	REMOVE
544	9	MAPLE	GOOD	REMOVE
545	9	WALNUT	POOR	REMOVE
546	23	MAPLE	GOOD	REMOVE
547	8	ELM	FAIR	REMOVE
548	9	ELM	POOR	REMOVE
549	6	MAPLE	GOOD	REMOVE
550	7	ELM	FAIR	REMOVE
551	8	ELM	FAIR	REMOVE
552	7	ELM	FAIR	REMOVE
553	9	MULBERRY	FAIR	REMOVE
554	8	PINE	GOOD	REMOVE
555	8	ELM	POOR	REMOVE
556	8	ASH	FAIR	OFF SITE
557	17	PINE	GOOD	REMOVE
558	6	ELM	FAIR	REMOVE
559	16	PINE	GOOD	REMOVE
560	7	ELM	FAIR	REMOVE
561	10	ELM	FAIR	REMOVE
562	9	ELM	GOOD	REMOVE
563	14	ELM	FAIR	REMOVE
564	13	HACKBERRY	GOOD	REMOVE
565	17	HACKBERRY	FAIR	REMOVE
566	6	ASH	FAIR	REMOVE
567	9	WALNUT	FAIR	REMOVE
568	6	WALNUT	FAIR	REMOVE
569	7	HACKBERRY	GOOD	REMOVE
570	6	ELM	FAIR	REMOVE
571	9	ASH	FAIR	REMOVE
572	6	WALNUT	GOOD	REMOVE
573	6	MAPLE	GOOD	REMOVE
574	19	ELM	FAIR	REMOVE
575	10	CHERRY	FAIR	REMOVE
576	7	WALNUT	FAIR	REMOVE
577	8	AILANTHUS	POOR	REMOVE
578	10	PINE	FAIR	REMOVE
579	13	PINE	GOOD	REMOVE
580	13	PINE	FAIR	REMOVE
581	7	PINE	POOR	REMOVE
582	9	PINE	FAIR	REMOVE
583	8	PINE	POOR	REMOVE
584	9	PINE	FAIR	REMOVE
585	10	PINE	GOOD	REMOVE
586	10	PINE	GOOD	REMOVE
587	12	PINE	GOOD	REMOVE
588	7	PINE	FAIR	REMOVE
589	8	PINE	GOOD	REMOVE
590	9	HACKBERRY	FAIR	REMOVE
591	8	ASH	POOR	REMOVE
592	9	PINE	GOOD	REMOVE
593	13	PINE	GOOD	REMOVE
594	8	PINE	GOOD	REMOVE
595	7	ELM	FAIR	REMOVE
596	16	PINE	FAIR	REMOVE
597	7	WALNUT	FAIR	PRESERVE
598	10	PINE	FAIR	PRESERVE
599	10	PINE	FAIR	PRESERVE
600	8	PINE	GOOD	REMOVE
601	9	ELM	FAIR	PRESERVE
602	8	PINE	GOOD	PRESERVE
603	14	PINE	GOOD	PRESERVE
604	7	PINE	FAIR	PRESERVE
605	10	PINE	GOOD	PRESERVE
606	10	LOCUST	GOOD	PRESERVE
607	8	LOCUST	GOOD	PRESERVE
608	6	ELM	FAIR	PRESERVE
609	6	PINE	GOOD	PRESERVE
610	9	PINE	FAIR	PRESERVE
611	9	HACKBERRY	GOOD	PRESERVE
612	17	PINE	FAIR	PRESERVE
613	8	HACKBERRY	FAIR	PRESERVE
614	15	LOCUST	GOOD	PRESERVE
615	14	PINE	GOOD	PRESERVE
616	8	ELM	FAIR	PRESERVE
617	15	PINE	FAIR	PRESERVE
618	9	PINE	POOR	OFF SITE
619	6	ELM	POOR	REMOVE
620	9	ELM	FAIR	REMOVE
621	8	ASH	POOR	REMOVE
622	9	PINE	POOR	REMOVE
623	13	LOCUST	FAIR	REMOVE
624	8	LOCUST	GOOD	REMOVE
625	8	LOCUST	FAIR	REMOVE
626	10	LOCUST	FAIR	OFF SITE
627	6	ELM	GOOD	REMOVE
628	8	LOCUST	GOOD	REMOVE
629	11	PINE	GOOD	REMOVE
630	9	PINE	FAIR	REMOVE
631	11	PINE	GOOD	REMOVE
632	7	HACKBERRY	FAIR	REMOVE
633	7	WALNUT	GOOD	REMOVE
634	10	PINE	GOOD	REMOVE
635	8	PINE	FAIR	REMOVE
636	11	PINE	GOOD	REMOVE
637	11	PINE	GOOD	OFF SITE
638	6	ELM	POOR	REMOVE
639	8	PINE	GOOD	REMOVE
640	7	ELM	FAIR	OFF SITE
641	19	PINE	GOOD	REMOVE
642	6	ELM	GOOD	REMOVE
643	6	ASH	POOR	REMOVE
644	10	WALNUT	FAIR	REMOVE
645	8	PINE	FAIR	REMOVE
646	8	ELM	GOOD	REMOVE
647	8	HACKBERRY	FAIR	OFF SITE
648	10	PINE	POOR	REMOVE
649	10	ELM	GOOD	REMOVE
650	6	ELM	FAIR	REMOVE
651	6	ELM	POOR	REMOVE
652	8	PINE	FAIR	REMOVE
653	7	ELM	GOOD	REMOVE
654	6	ELM	FAIR	REMOVE
655	7	AILANTHUS	FAIR	REMOVE
656	9	HONEYSUCKLE	POOR	REMOVE
657	7	ASH	GOOD	REMOVE
658	9	ELM	GOOD	REMOVE
659	6	MAPLE	FAIR	REMOVE
660	7	HONEYSUCKLE	POOR	REMOVE
661	8	ELM	FAIR	REMOVE
662	8	AILANTHUS	FAIR	REMOVE
663	8	AILANTHUS	FAIR	REMOVE
664	10	LOCUST	GOOD	REMOVE
665	8	MAPLE	GOOD	REMOVE
666	8	HACKBERRY	FAIR	REMOVE
667	16	PINE	FAIR	REMOVE
668	9	ELM	GOOD	REMOVE
669	12	LOCUST	GOOD	REMOVE
670	12	LOCUST	FAIR	REMOVE
671	8	WILLOW	FAIR	REMOVE
672	7	ELM	FAIR	REMOVE
673	9	WALNUT	FAIR	REMOVE
674	8	WALNUT	GOOD	REMOVE
675	9	WALNUT	GOOD	REMOVE
676	8	ELM	GOOD	REMOVE
677	7	ELM	FAIR	REMOVE
678	7	LOCUST	FAIR	REMOVE
679	9	HONEYSUCKLE	POOR	REMOVE
680	9	HACKBERRY	GOOD	REMOVE
681	11	PINE	GOOD	REMOVE
682	12	ELM	GOOD	REMOVE
683	8	HONEYSUCKLE	POOR	REMOVE
684	7	ELM	FAIR	REMOVE
685	9	ELM	FAIR	PRESERVE
686	16	LOCUST	GOOD	PRESERVE
687	7	ELM	FAIR	PRESERVE
688	7	ELM	FAIR	REMOVE
689	9	CHERRY	GOOD	REMOVE
690	6	ELM	GOOD	REMOVE
691	6	HACKBERRY	FAIR	REMOVE
692	8	ELM	FAIR	PRESERVE
693	10	LOCUST	GOOD	PRESERVE
694	7	LOCUST	FAIR	PRESERVE
695	10	ASH	GOOD	PRESERVE
696	9	CHERRY	GOOD	PRESERVE
697	11	CHERRY	FAIR	PRESERVE
698	6	ELM	GOOD	PRESERVE
699	8	ELM	FAIR	REMOVE
700	8	WALNUT	FAIR	REMOVE
701	8	ELM	FAIR	REMOVE
702	9	ELM	GOOD	REMOVE
703	9	HONEYSUCKLE	POOR	REMOVE
704	9	ELM	FAIR	REMOVE
705	10	ELM	FAIR	REMOVE
706	7	HACKBERRY	FAIR	PRESERVE
707	8	HACKBERRY	FAIR	PRESERVE
708	9	HACKBERRY	POOR	PRESERVE
709	16	LOCUST	GOOD	PRESERVE
710	8	PINE	GOOD	REMOVE
711	7	ELM	FAIR	REMOVE
712	17	PINE	GOOD	REMOVE
713	8	HONEYSUCKLE	FAIR	REMOVE
714	7	ELM	FAIR	REMOVE
715	8	ELM	FAIR	REMOVE
716	8	ELM	FAIR	REMOVE
717	8	HONEYSUCKLE	FAIR	REMOVE
718	7	WALNUT	GOOD	REMOVE
719	13	PINE	GOOD	REMOVE
720	9	CHERRY	POOR	PRESERVE

** INDICATES TREES WITHIN 100 YEAR FLOOD PLAIN

TREE SURVEY DATA (1 OF 2) DELAWARE, OH

HOUK ROAD DEVELOPMENT

PREPARED FOR ARCHITECTURAL ALLIANCE

DATE: 1.13.2021

Faris Planning & Design
LAND PLANNING • LANDSCAPE ARCHITECTURE
243 N. 5th Street Suite 401 Columbus, OH 43215
p (614) 487-1964 www.farisplanninganddesign.com

TREE #	SIZE	SPECIES	CONDITION	STATUS
721	9	CHERRY	FAIR	PRESERVE
722	10	TREE	DEAD	PRESERVE
723	6	HACKBERRY	GOOD	PRESERVE
724	9	PINE	GOOD	PRESERVE
725	10	ELM	GOOD	PRESERVE
726	7	ELM	FAIR	PRESERVE
727	9	ELM	FAIR	REMOVE
728	9	CHERRY	FAIR	REMOVE
729	8	ELM	FAIR	REMOVE
730	9	ELM	FAIR	REMOVE
731	10	WALNUT	GOOD	REMOVE
732	7	WALNUT	GOOD	REMOVE
733	10	WALNUT	GOOD	REMOVE
734	10	WALNUT	FAIR	REMOVE
735	7	WALNUT	GOOD	REMOVE
736	6	WALNUT	GOOD	REMOVE
737	7	OAK	GOOD	REMOVE
738	15	PINE	FAIR	REMOVE
739	15	PINE	FAIR	REMOVE
740	16	PINE	GOOD	REMOVE
741	12	PINE	GOOD	REMOVE
742	11	PINE	GOOD	REMOVE
743	15	PINE	GOOD	REMOVE
744	7	HONEYSUCKLE	FAIR	REMOVE
745	13	PINE	FAIR	REMOVE
746	16	WILLOW	GOOD	REMOVE
747	8	HONEYSUCKLE	FAIR	REMOVE
748	10	PINE	GOOD	REMOVE
749	16	PINE	FAIR	REMOVE
750	10	PINE	FAIR	REMOVE
751	10	PINE	FAIR	REMOVE
752	17	PINE	GOOD	REMOVE
753	10	OAK	GOOD	REMOVE
754	13	PINE	GOOD	REMOVE
755	10	ASH	FAIR	REMOVE
756	10	PINE	FAIR	REMOVE
757	14	PINE	GOOD	REMOVE
758	10	PINE	FAIR	REMOVE
759	9	PINE	GOOD	REMOVE
760	16	PINE	FAIR	REMOVE
761	6	WALNUT	POOR	REMOVE
762	15	PINE	GOOD	REMOVE
763	8	PINE	GOOD	REMOVE
764	7	ELM	FAIR	REMOVE
765	7	PINE	FAIR	REMOVE
766	7	ELM	FAIR	REMOVE
767	8	WALNUT	GOOD	REMOVE
768	9	WALNUT	FAIR	REMOVE
769	9	WALNUT	GOOD	REMOVE
770	7	ELM	FAIR	REMOVE
771	12	ELM	GOOD	REMOVE
772	8	PINE	GOOD	REMOVE
773	10	HACKBERRY	GOOD	REMOVE
774	9	WALNUT	GOOD	PRESERVE
775	8	PINE	POOR	PRESERVE
776	8	PINE	FAIR	PRESERVE
777	8	PINE	POOR	PRESERVE
778	9	PINE	FAIR	PRESERVE
779	7	HONEYSUCKLE	FAIR	PRESERVE
780	8	HONEYSUCKLE	POOR	PRESERVE
781	8	ASH	FAIR	PRESERVE
782	8	HONEYSUCKLE	POOR	PRESERVE
783	11	HACKBERRY	FAIR	PRESERVE
784	7	HACKBERRY	POOR	PRESERVE
785	6	HACKBERRY	FAIR	PRESERVE
786	9	PINE	POOR	PRESERVE
787	8	ELM	FAIR	PRESERVE
788	9	PINE	GOOD	PRESERVE
789	9	ELM	FAIR	PRESERVE
790	7	PINE	POOR	PRESERVE
791	8	PINE	FAIR	PRESERVE
792	14	ELM	GOOD	PRESERVE
793	9	PINE	GOOD	REMOVE
794	11	PINE	GOOD	REMOVE
795	10	PINE	GOOD	REMOVE
796	8	ELM	FAIR	REMOVE
797	8	ELM	FAIR	REMOVE
798	9	PINE	FAIR	REMOVE
799	10	PINE	GOOD	REMOVE
800	8	PINE	FAIR	REMOVE
801	8	PINE	FAIR	REMOVE
802	15	LOCUST	FAIR	REMOVE
803	7	PINE	POOR	REMOVE
804	9	PINE	GOOD	REMOVE
805	35	LOCUST	GOOD	REMOVE
806	17	LOCUST	FAIR	REMOVE
807	9	PINE	GOOD	REMOVE
808	16	LOCUST	GOOD	REMOVE
809	8	LOCUST	GOOD	REMOVE
810	10	LOCUST	GOOD	REMOVE
811	10	PINE	GOOD	PRESERVE
812	9	PINE	GOOD	PRESERVE
813	14	LOCUST	GOOD	PRESERVE
814	8	LOCUST	FAIR	PRESERVE
815	9	LOCUST	FAIR	PRESERVE
816	9	LOCUST	GOOD	REMOVE
817	9	ELM	FAIR	REMOVE
818	19	LOCUST	GOOD	PRESERVE
819	13	LOCUST	FAIR	PRESERVE
820	8	ELM	FAIR	REMOVE
821	6	ELM	FAIR	REMOVE
822	8	ELM	FAIR	REMOVE
823	9	LOCUST	FAIR	REMOVE
824	8	HACKBERRY	FAIR	REMOVE
825	9	LOCUST	GOOD	REMOVE
826	15	LOCUST	GOOD	REMOVE
827	15	PINE	GOOD	REMOVE
828	7	ELM	POOR	REMOVE
829	13	PINE	GOOD	REMOVE
830	7	HACKBERRY	GOOD	REMOVE
831	11	WALNUT	POOR	REMOVE
832	13	PINE	FAIR	REMOVE
833	9	HONEYSUCKLE	POOR	REMOVE
834	13	ELM	FAIR	REMOVE
835	16	PINE	FAIR	REMOVE
836	7	HONEYSUCKLE	FAIR	REMOVE
837	15	PINE	POOR	REMOVE
838	9	ASH	FAIR	REMOVE
839	6	ELM	FAIR	REMOVE
840	9	PINE	POO	REMOVE
841	12	PINE	POOR	REMOVE
842	7	HACKBERRY	FAIR	REMOVE
843	9	LOCUST	POOR	REMOVE
844	6	HACKBERRY	GOOD	REMOVE
845	7	HACKBERRY	FAIR	REMOVE
846	7	HACKBERRY	GOOD	REMOVE
847	11	ASH	POOR	REMOVE
848	8	ELM	GOOD	REMOVE
849	10	ELM	FAIR	REMOVE
850	8	LOCUST	FAIR	REMOVE
851	8	HONEYSUCKLE	FAIR	REMOVE
852	9	ELM	FAIR	REMOVE
853	10	PINE	FAIR	REMOVE
854	12	PINE	FAIR	REMOVE
855	15	PINE	GOOD	REMOVE
856	14	PINE	GOOD	REMOVE
857	11	PINE	FAIR	REMOVE
858	13	PINE	FAIR	REMOVE
859	10	WALNUT	POOR	REMOVE
860	13	PINE	FAIR	REMOVE
861	16	PINE	GOOD	REMOVE
862	9	NE	GOOD	EMOVE
863	12	PINE	POOR	REMOVE
864	14	PINE	GOOD	REMOVE
865	8	HACKBERRY	FAIR	PRESERVE **
866	7	HONEYSUCKLE	FAIR	PRESERVE **
867	8	HACKBERRY	FAIR	PRESERVE **
868	13	HACKBERRY	FAIR	PRESERVE **
869	8	ELM	POOR	REMOVE
870	19	LOCUST	GOOD	REMOVE
871	7	WALNUT	GOOD	REMOVE
872	8	OAK	GOOD	REMOVE
873	18	ELM	GOOD	REMOVE
874	8	PINE	FAIR	REMOVE
875	6	WALNUT	GOOD	REMOVE
876	15	PINE	GOOD	REMOVE
877	15	PINE	FAIR	REMOVE
878	6	OAK	POOR	REMOVE
879	8	HACKBERRY	POOR	PRESERVE **
880	21	LOCUST	FAIR	PRESERVE **
881	13	PINE	FAIR	REMOVE
882	7	ASH	FAIR	REMOVE
883	11	ELM	FAIR	REMOVE
884	8	HONEYSUCKLE	FAIR	REMOVE
885	17	PINE	GOOD	REMOVE
886	8	ELM	FAIR	REMOVE
887	8	PINE	POOR	REMOVE
888	14	PINE	FAIR	REMOVE
889	9	LOCUST	FAIR	REMOVE
890	110	CHERRY	FAIR	REMOVE
891	7	PINE	POOR	REMOVE
892	11	PINE	FAIR	REMOVE
893	8	MAPLE	FAIR	REMOVE
894	9	ELM	FAIR	REMOVE
895	7	ELM	GOOD	REMOVE
896	12	PINE	GOOD	REMOVE
897	7	ELM	FAIR	REMOVE
898	9	PINE	GOOD	REMOVE
899	8	ELM	FAIR	REMOVE
900	7	ELM	GOOD	REMOVE

** INDICATES TREES WITHIN 100 YEAR FLOOD PLAIN

TREE #	SIZE	SPECIES	CONDITION	STATUS
901	7	ELM	FAIR	REMOVE
902	10	PINE	GOOD	REMOVE
903	10	PINE	GOOD	REMOVE
904	7	ELM	FAIR	REMOVE
905	7	MAPLE	GOOD	REMOVE
906	16	PINE	GOOD	REMOVE
907	7	ELM	GOOD	REMOVE
908	7	MAPLE	FAIR	REMOVE
909	7	ELM	FAIR	REMOVE
910	13	LOCUST	FAIR	PRESERVE
911	9	HACKBERRY	FAIR	PRESERVE
912	9	LOCUST	FAIR	PRESERVE
913	19	OAK	GOOD	PRESERVE
914	8	ELM	GOOD	PRESERVE
915	8	ELM	GOOD	PRESERVE
916	10	LOCUST	GOOD	PRESERVE
917	8	HACKBERRY	GOOD	PRESERVE
918	10	HACKBERRY	GOOD	PRESERVE
919	8	CHERRY	FAIR	PRESERVE
920	7	CHERRY	FAIR	PRESERVE
921	13	HACKBERRY	FAIR	PRESERVE
922	8	CHERRY	FAIR	PRESERVE
923	9	PINE	GOOD	PRESERVE
924	14	LOCUST	GOOD	PRESERVE
925	8	ELM	GOOD	PRESERVE
926	17	LOCUST	GOOD	PRESERVE
927	12	PINE	GOOD	PRESERVE
928	11	HACKBERRY	GOOD	PRESERVE
929	6	HACKBERRY	FAIR	PRESERVE
930	6	HACKBERRY	GOOD	PRESERVE
931	9	LOCUST	POOR	PRESERVE
932	11	HACKBERRY	FAIR	OFF SITE
933	8	HACKBERRY	GOOD	OFF SITE
934	8	ASH	FAIR	PRESERVE
935	8	HACKBERRY	POOR	PRESERVE
936	11	HACKBERRY	GOOD	PRESERVE
937	10	CHERRY	POOR	PRESERVE
938	10	CHERRY	FAIR	PRESERVE
939	7	HACKBERRY	GOOD	PRESERVE
940	7	HACKBERRY	GOOD	PRESERVE
941	8	CHERRY	FAIR	PRESERVE
942	9	WALNUT	FAIR	PRESERVE **
943	10	ELM	FAIR	PRESERVE **
944	8	HACKBERRY	FAIR	PRESERVE **
945	11	LOCUST	GOOD	PRESERVE **
946	6	HACKBERRY	FAIR	PRESERVE
947	14	CHERRY	GOOD	PRESERVE
948	8	CHERRY	FAIR	PRESERVE
949	7	HACKBERRY	FAIR	PRESERVE
950	10	LOCUST	FAIR	PRESERVE
951	8	AILANTHUS	FAIR	PRESERVE
952	8	HACKBERRY	FAIR	PRESERVE
953	8	LOCUST	FAIR	PRESERVE
954	9	HACKBERRY	GOOD	PRESERVE
955	9	LOCUST	GOOD	PRESERVE
956	17	LOCUST	FAIR	PRESERVE
957	11	LOCUST	GOOD	PRESERVE
958	10	ASH	GOOD	PRESERVE
959	10	CHERRY	FAIR	PRESERVE
960	6	ELM	FAIR	PRESERVE
961	15	PINE	GOOD	PRESERVE
962	14	PINE	FAIR	PRESERVE
963	7	HONEYSUCKLE	FAIR	REMOVE
964	16	LOCUST	FAIR	REMOVE
965	11	LOCUST	GOOD	REMOVE
966	10	TREE	DEAD	REMOVE
967	14	LOCUST	FAIR	REMOVE
968	14	PINE	GOOD	REMOVE
969	13	PINE	GOOD	REMOVE
970	11	LOCUST	POOR	REMOVE
971	10	LOCUST	POOR	REMOVE
972	15	MAPLE	GOOD	REMOVE
973	19	PINE	GOOD	REMOVE
974	15	PINE	FAIR	REMOVE
975	10	LOCUST	POOR	REMOVE
976	15	PINE	FAIR	REMOVE
977	7	HONEYSUCKLE	POOR	PRESERVE
978	12	CHERRY	POOR	PRESERVE
979	11	CHERRY	GOOD	PRESERVE
980	8	HACKBERRY	FAIR	PRESERVE
981	9	CHERRY	FAIR	PRESERVE
982	19	CHERRY	GOOD	PRESERVE
983	11	CHERRY	FAIR	PRESERVE
984	10	CHERRY	POOR	PRESERVE **
985	9	HACKBERRY	FAIR	PRESERVE **
986	8	CHERRY	FAIR	PRESERVE **
987	7	HACKBERRY	FAIR	PRESERVE
988	9	HACKBERRY	GOOD	PRESERVE
989	9	CHERRY	FAIR	PRESERVE **
990	10	HONEYSUCKLE	FAIR	PRESERVE **
991	8	WILLOW	GOOD	PRESERVE **
992	11	LOCUST	FAIR	PRESERVE **
993	7	HONEYSUCKLE	FAIR	PRESERVE **
994	9	AILANTHUS	FAIR	PRESERVE **
995	8	HONEYSUCKLE	POOR	PRESERVE **
996	8	HONEYSUCKLE	FAIR	PRESERVE **
997	7	AILANTHUS	FAIR	PRESERVE **
998	9	HONEYSUCKLE	FAIR	REMOVE
999	6	HACKBERRY	GOOD	PRESERVE **
1000	11	LOCUST	FAIR	PRESERVE **
1001	7	AILANTHUS	FAIR	PRESERVE **
1002	8	WALNUT	FAIR	PRESERVE **
1003	9	LOCUST	GOOD	PRESERVE **
1004	10	LOCUST	GOOD	PRESERVE **
1005	8	ELM	FAIR	PRESERVE **
1006	8	WALNUT	GOOD	PRESERVE **
1007	10	WALNUT	GOOD	PRESERVE **
1008	9	HACKBERRY	GOOD	PRESERVE **
1009	9	ELM	GOOD	PRESERVE **
10 0	6	WALNUT	GOOD	PRESERVE **
1011	6	WALNUT	FAI	PRESERVE **
1012	6	WALNUT	FAIR	PRESERVE **
1013	6	WALNUT	FAIR	PRESERVE **
1014	6	WALNUT	POOR	PRESERVE **
1015	6	LOCUST	FAIR	PRESERVE **
1016	9	ELM	GOOD	PRESERVE **
1017	7	HACKBERRY	GOOD	PRESERVE **
1018	7	HACKBERRY	FAIR	PRESERVE **
1019	6	HACKBERRY	GOOD	PRESERVE **
1020	11	HACKBERRY	FAIR	PRESERVE **
1021	6	HACKBERRY	FAIR	PRESERVE **
1022	7	HACKBERRY	GOOD	PRESERVE **
1023	9	HACKBERRY	FAIR	PRESERVE **
1024	7	HACKBERRY	GOOD	PRESERVE **
1025	14	HACKBERRY	FAIR	PRESERVE **
1026	39	HACKBERRY	POOR	PRESERVE **
1027	9	HACKBERRY	POOR	PRESERVE **
1028	7	HACKBERRY	GOOD	PRESERVE **
1029	8	HACKBERRY	FAIR	PRESERVE **
1030	12	HACKBERRY	GOOD	PRESERVE **
1031	13	HACKBERRY	GOOD	PRESERVE **
1032	10	ELM	FAIR	PRESERVE **
1033	20	HACKBERRY	GOOD	PRESERVE **
1034	7	HACKBERRY	FAIR	PRESERVE **
1035	24	HACKBERRY	GOOD	PRESERVE **
1036	6	HACKBERRY	FAIR	PRESERVE **
1037	7	ELM	POOR	PRESERVE **
1038	9	HACKBERRY	FAIR	PRESERVE **
1039	6	ELM	FAIR	PRESERVE **
1040	9	HACKBERRY	GOOD	PRESERVE **
1041	43	LOCUST	GOOD	PRESERVE **
1042	7	HACKBERRY	FAIR	PRESERVE **
1043	7	HACKBERRY	FAIR	PRESERVE **
1044	6	ASH	FAIR	PRESERVE **
1045	7	CHERRY	FAIR	PRESERVE **
1046	6	HACKBERRY	FAIR	PRESERVE **
1047	7	HACKBERRY	FAIR	PRESERVE **
1048	10	HACKBERRY	GOOD	PRESERVE **
1049	8	HACKBERRY	GOOD	PRESERVE **
1050	7	HACKBERRY	FAIR	PRESERVE **
1051	12	HACKBERRY	GOOD	PRESERVE **
1052	8	LOCUST	FAIR	PRESERVE **
1053	16	LOCUST	GOOD	PRESERVE **
1054	8	HACKBERRY	GOOD	PRESERVE **
1055	11	HACKBERRY	FAIR	PRESERVE **
1056	14	OAK	GOOD	PRESERVE **
1057	6	HACKBERRY	FAIR	PRESERVE **
1058	15	LOCUST	GOOD	PRESERVE **
1059	7	ASH	GOOD	PRESERVE **
1060	10	WALNUT	FAIR	PRESERVE **
1061	10	LOCUST	POOR	PRESERVE **
1062	6	ELM	GOOD	PRESERVE **
1063	6	WALNUT	GOOD	PRESERVE **
1064	22	WALNUT	GOOD	PRESERVE **
1065	7	HACKBERRY	FAIR	PRESERVE **
1066	6	CHERRY	POOR	PRESERVE **
1067	11	HACKBERRY	GOOD	PRESERVE **
1068	9	WALNUT	POOR	PRESERVE **
1069	8	HACKBERRY	FAIR	PRESERVE **
1070	8	WALNUT	GOOD	PRESERVE **
1071	10	WALNUT	GOOD	PRESERVE **
1072	6	CHERRY	FAIR	PRESERVE **
1073	11	WALNUT	GOOD	PRESERVE **
1074	10	WALNUT	GOOD	PRESERVE **
1075	6	HACKBERRY	FAIR	PRESERVE **
1076	15	CHERRY	FAIR	PRESERVE **
1077	13	HACKBERRY	FAIR	PRESERVE **
1078	9	CHERRY	GOOD	PRESERVE **
1079	7	CHERRY	FAIR	PRESERVE **
1080	7	ELM	FAIR	PRESERVE **

** INDICATES TREES WITHIN 100 YEAR FLOOD PLAIN

TREE #	SIZE	SPECIES	CONDITION	STATUS
1081	6	HACKBERRY	GOOD	PRESERVE **
1082	6	WALNUT	GOOD	PRESERVE **
1083	7	CHERRY	GOOD	PRESERVE **
1084	7	CHERRY	GOOD	PRESERVE **
1085	9	HACKBERRY	FAIR	PRESERVE **
1086	9	HACKBERRY	GOOD	PRESERVE **
1087	8	WALNUT	GOOD	PRESERVE **
1088	16	LOCUST	GOOD	PRESERVE **
1089	7	HACKBERRY	FAIR	PRESERVE **
1090	13	WALNUT	GOOD	PRESERVE **
1091	6	HACKBERRY	GOOD	PRESERVE **
1092	6	HACKBERRY	FAIR	PRESERVE **
1093	11	HACKBERRY	GOOD	PRESERVE **
1094	9	HACKBERRY	FAIR	PRESERVE **
1095	14	WALNUT	GOOD	PRESERVE **
1096	7	HACKBERRY	FAIR	PRESERVE **
1097	6	HACKBERRY	GOOD	PRESERVE **
1098	14	COTTONWOOD	FAIR	PRESERVE **
1099	8	HACKBERRY	GOOD	PRESERVE **
1100	9	HACKBERRY	FAIR	PRESERVE **
1101	8	COTTONWOOD	GOOD	PRESERVE **
1102	7	HACKBERRY	FAIR	PRESERVE **
1103	7	HACKBERRY	GOOD	PRESERVE **
1104	8	HACKBERRY	GOOD	PRESERVE **
1105	10	HACKBERRY	GOOD	PRESERVE **
1106	11	HACKBERRY	GOOD	PRESERVE **
1107	7	HACKBERRY	FAIR	PRESERVE **
1108	9	HACKBERRY	GOOD	PRESERVE **
1109	6	HACKBERRY	FAIR	PRESERVE **
1110	8	HACKBERRY	GOOD	PRESERVE **
1111	8	HACKBERRY	GOOD	PRESERVE **
1112	11	ELM	POOR	PRESERVE **
1113	7	HACKBERRY	FAIR	PRESERVE **
1114	7	HACKBERRY	GOOD	PRESERVE **
1115	14	WALNUT	FAIR	PRESERVE **
1116	7	HACKBERRY	FAIR	PRESERVE **
1117	7	HACKBERRY	FAIR	PRESERVE **
1118	8	CHERRY	POOR	PRESERVE **
1119	14	CHERRY	FAIR	PRESERVE **
1120	7	CHERRY	FAIR	PRESERVE **
1121	8	CHERRY	FAIR	PRESERVE **
1122	8	CHERRY	FAIR	PRESERVE **
1123	7	OAK	FAIR	PRESERVE **
1124	8	OAK	POOR	PRESERVE **
1125	11	WALNUT	GOOD	PRESERVE **
1126	15	HACKBERRY	GOOD	PRESERVE **
1127	7	CHERRY	GOOD	PRESERVE **
1128	7	WALNUT	GOOD	PRESERVE **
1129	7	CHERRY	GOOD	PRESERVE **
1130	8	CHERRY	FAIR	PRESERVE **
1131	8	TREE	DEAD	PRESERVE **
1132	8	LOCUST	FAIR	PRESERVE **
1133	6	CHERRY	FAIR	PRESERVE **
1134	7	CHERRY	FAIR	PRESERVE **
1135	7	HONEYSUCKLE	FAIR	PRESERVE **
1136	7	AILANTHUS	FAIR	PRESERVE **
1137	11	CHERRY	FAIR	PRESERVE **
1138	9	CHERRY	GOOD	PRESERVE **
1139	8	CHERRY	FAIR	PRESERVE **
1140	10	CHERRY	POOR	PRESERVE **
1141	8	HONEYSUCKLE	FAIR	PRESERVE **
1142	9	CHERRY	GOOD	PRESERVE **
1143	12	CHERRY	FAIR	PRESERVE **
1144	7	ASH	GOOD	PRESERVE **
1145	9	WALNUT	GOOD	PRESERVE **
1146	9	LOCUST	POOR	PRESERVE **
1147	7	WALNUT	GOOD	PRESERVE **
1148	16	WALNUT	FAIR	PRESERVE **
1149	11	WALNUT	GOOD	PRESERVE **
1150	11	COTTONWOOD	FAIR	PRESERVE **
1151	7	HACKBERRY	GOOD	PRESERVE **
1152	18	COTTONWOOD	FAIR	PRESERVE **
1153	9	LOCUST	FAIR	PRESERVE **
1154	10	LOCUST	GOOD	OFF SITE
1155	8	HACKBERRY	POOR	OFF SITE
1156	7	HACKBERRY	FAIR	OFF SITE
1157	7	HACKBERRY	FAIR	OFF SITE
1158	7	HACKBERRY	GOOD	PRESERVE **
1159	10	HACKBERRY	GOOD	PRESERVE **
1160	11	HACKBERRY	FAIR	PRESERVE **
1161	7	HACKBERRY	POOR	PRESERVE **
1162	8	WALNUT	GOOD	PRESERVE **
1163	11	HACKBERRY	FAIR	PRESERVE **
1164	8	HACKBERRY	FAIR	PRESERVE **
1165	7	HACKBERRY	POOR	PRESERVE **
1166	13	HACKBERRY	FAIR	PRESERVE **
1167	7	HACKBERRY	FAIR	PRESERVE **
1168	7	HACKBERRY	FAIR	PRESERVE **
1169	17	COTTONWOOD	POOR	PRESERVE **
1170	8	TREE	DEAD	PRESERVE **
1171	9	WALNUT	POOR	PRESERVE **
1172	11	HACKBERRY	FAIR	PRESERVE **
1173	14	HACKBERRY	FAIR	PRESERVE **
1174	13	HACKBERRY	GOOD	PRESERVE **
1175	9	WALNUT	FAIR	PRESERVE **
1176	11	WALNUT	FAIR	PRESERVE **
1177	9	WALNUT	FAIR	PRESERVE **
1178	6	HACKBERRY	FAIR	PRESERVE **
1179	12	WALNUT	FAIR	PRESERVE **
1180	7	HACKBERRY	FAIR	PRESERVE **
1181	6	OAK	GOOD	PRESERVE **
1182	8	WALNUT	GOOD	PRESERVE **
1183	8	HACKBERRY	FAIR	PRESERVE **
1184	7	CHERRY	FAIR	PRESERVE **
1185	10	CHERRY	FAIR	PRESERVE **
1186	7	CHERRY	POOR	PRESERVE **
1187	8	CHERRY	POOR	PRESERVE **
1188	7	CHERRY	FAIR	PRESERVE
1189	7	CHERRY	FAIR	PRESERVE **
1190	8	ASH	GOOD	PRESERVE **
1191	7	ELM	FAIR	PRESERVE **
1192	11	CHERRY	FAIR	PRESERVE
1193	7	CHERRY	POOR	PRESERVE
1194	7	OAK	FAIR	PRESERVE
1195	10	OAK	FAIR	PRESERVE **
1196	10	ASH	POOR	PRESERVE **
1197	12	CHERRY	FAIR	PRESERVE
1198	8	ELM	FAIR	PRESERVE
1199	8	CHERRY	FAIR	PRESERVE
1200	6	WALNUT	FAIR	PRESERVE
1201	7	WALNUT	GOOD	PRESERVE
1202	8	CHERRY	FAIR	PRESERVE
1203	6	LOCUST	POOR	PRESERVE
1204	6	CHERRY	FAIR	PRESERVE
1205	10	LOCUST	GOOD	PRESERVE
1206	7	ASH	GOOD	PRESERVE
1207	6	HONEYSUCKLE	FAIR	PRESERVE
1208	13	CHERRY	GOOD	PRESERVE
1209	18	CHERRY	GOOD	PRESERVE
1210	8	WALNUT	GOOD	OFF SITE
1211	7	HACKBERRY	GOOD	PRESERVE
1212	8	HACKBERRY	FAIR	PRESERVE
1213	9	HACKBERRY	GOOD	PRESERVE
1214	13	LOCUST	GOOD	PRESERVE
1215	6	HACKBERRY	FAIR	PRESERVE
1216	26	LOCUST	GOOD	PRESERVE
1217	9	HACKBERRY	GOOD	PRESERVE
1218	8	HACKBERRY	FAIR	PRESERVE
1219	9	HACKBERRY	POOR	PRESERVE
1220	11	HACKBERRY	GOOD	PRESERVE
1221	21	HACKBERRY	GOOD	PRESERVE
1222	6	HACKBERRY	FAIR	PRESERVE
1223	9	CHERRY	POOR	PRESERVE
1224	7	HACKBERRY	GOOD	PRESERVE
1225	11	COTTONWOOD	FAIR	PRESERVE
1226	8	CHERRY	FAIR	PRESERVE
1227	6	HACKBERRY	FAIR	PRESERVE
1228	7	HACKBERRY	FAIR	PRESERVE
1229	6	HACKBERRY	GOOD	PRESERVE
1230	17	LOCUST	FAIR	PRESERVE
1231	6	HACKBERRY	FAIR	PRESERVE
1232	10	LOCUST	FAIR	PRESERVE
1233	9	LOCUST	FAIR	PRESERVE
1234	8	LOCUST	FAIR	OFF SITE
1235	10	ASH	POOR	OFF SITE
1236	8	CHERRY	GOOD	PRESERVE
1237	6	LOCUST	POOR	PRESERVE
1238	34	HACKBERRY	GOOD	PRESERVE
1239	21	HACKBERRY	FAIR	PRESERVE
1240	6	CHERRY	FAIR	PRESERVE

** INDICATES TREES WITHIN 100 YEAR FLOOD PLAIN

TREE #	SIZE	SPECIES	CONDITION	STATUS
1241	6	CHERRY	POOR	PRESERVE
1242	7	CHERRY	FAIR	PRESERVE **
1243	10	CHERRY	GOOD	PRESERVE **
1244	8	OAK	GOOD	PRESERVE **
1245	15	WALNUT	GOOD	PRESERVE **
1246	15	ELM	POOR	PRESERVE **
1247	8	CHERRY	FAIR	PRESERVE **
1248	7	WALNUT	GOOD	PRESERVE **
1249	7	CHERRY	FAIR	PRESERVE **
1250	10	HACKBERRY	FAIR	PRESERVE **
1251	6	HACKBERRY	GOOD	PRESERVE **
1252	7	CHERRY	GOOD	PRESERVE **
1253	6	CHERRY	GOOD	PRESERVE **
1254	8	CHERRY	FAIR	PRESERVE **
1255	7	CHERRY	FAIR	PRESERVE **
1256	10	ELM	FAIR	PRESERVE **
1257	7	CHERRY	POOR	PRESERVE **
1258	8	CHERRY	GOOD	PRESERVE **
1259	8	HACKBERRY	FAIR	PRESERVE **
1260	8	CHERRY	FAIR	PRESERVE **
1261	7	TREE	DEAD	PRESERVE **
1262	8	ASH	POOR	PRESERVE **
1263	8	WALNUT	FAIR	PRESERVE **
1264	19	CHERRY	POOR	PRESERVE **
1265	6	ASH	FAIR	PRESERVE **
1266	6	CHERRY	FAIR	PRESERVE **
1267	6	CHERRY	FAIR	PRESERVE **
1268	8	WALNUT	FAIR	PRESERVE **
1269	6	CHERRY	FAIR	PRESERVE **
1270	7	CHERRY	FAIR	PRESERVE **
1271	6	HACKBERRY	POOR	PRESERVE **
1272	8	CHERRY	GOOD	PRESERVE **
1273	8	WALNUT	FAIR	PRESERVE **
1274	9	WALNUT	FAIR	PRESERVE **
1275	10	CHERRY	GOOD	PRESERVE **
1276	8	CHERRY	FAIR	PRESERVE **
1277	6	ASH	FAIR	PRESERVE **
1278	16	LOCUST	GOOD	PRESERVE **
1279	6	HACKBERRY	GOOD	PRESERVE **
1280	7	COTTONWOOD	GOOD	PRESERVE **
1281	7	OAK	GOOD	PRESERVE **
1282	11	OAK	FAIR	PRESERVE **
1283	6	LOCUST	GOOD	PRESERVE **
1284	19	LOCUST	GOOD	PRESERVE **
1285	8	TREE	DEAD	PRESERVE **
1286	7	HACKBERRY	FAIR	PRESERVE **
1287	9	LOCUST	FAIR	PRESERVE **
1288	6	HACKBERRY	GOOD	PRESERVE **
1289	7	HACKBERRY	FAIR	PRESERVE **
1290	6	HACKBERRY	GOOD	PRESERVE **
1291	17	COTTONWOOD	GOOD	PRESERVE **
1292	6	LOCUST	FAIR	PRESERVE **
1293	7	LOCUST	POOR	PRESERVE **
1294	9	HACKBERRY	GOOD	PRESERVE **
1295	15	LOCUST	GOOD	PRESERVE **
1296	8	WALNUT	FAIR	PRESERVE **
1297	8	LOCUST	GOOD	PRESERVE **
1298	8	HACKBERRY	GOOD	PRESERVE **
1299	9	ASH	GOOD	PRESERVE **
1300	6	CHERRY	FAIR	PRESERVE **
1301	6	HACKBERRY	FAIR	PRESERVE **
1302	7	CHERRY	GOOD	PRESERVE **
1303	6	CHERRY	FAIR	PRESERVE **
1304	8	HACKBERRY	GOOD	PRESERVE **
1305	6	HACKBERRY	FAIR	PRESERVE **
1306	8	ASH	FAIR	PRESERVE **
1307	7	ASH	GOOD	PRESERVE **
1308	26	HACKBERRY	POOR	PRESERVE
1309	14	HACKBERRY	FAIR	PRESERVE
1310	10	HACKBERRY	POOR	PRESERVE
1311	19	HACKBERRY	FAIR	PRESERVE
1312	38	HACKBERRY	FAIR	OFF SITE
1313	6	HACKBERRY	POOR	PRESERVE **
1314	22	HACKBERRY	GOOD	PRESERVE
1315	16	COTTONWOOD	FAIR	PRESERVE **
1316	7	OAK	FAIR	PRESERVE **
1317	6	HACKBERRY	GOOD	PRESERVE **
1318	10	LOCUST	GOOD	PRESERVE
1319	7	OAK	FAIR	PRESERVE **
1320	9	CHERRY	GOOD	PRESERVE **
1321	11	COTTONWOOD	FAIR	PRESERVE **
1322	10	COTTONWOOD	FAIR	PRESERVE **
1323	9	COTTONWOOD	GOOD	PRESERVE **
1324	10	HACKBERRY	FAIR	PRESERVE **
1325	10	LOCUST	GOOD	PRESERVE **
1326	6	HACKBERRY	GOOD	PRESERVE **
1327	12	LOCUST	POOR	PRESERVE **
1328	9	LOCUST	FAIR	PRESERVE **
1329	8	COTTONWOOD	FAIR	PRESERVE **
1330	6	HACKBERRY	GOOD	PRESERVE **
1331	8	HACKBERRY	FAIR	PRESERVE **
1332	11	HACKBERRY	POOR	PRESERVE **
1333	17	LOCUST	FAIR	PRESERVE **
1334	9	LOCUST	POOR	PRESERVE **
1335	10	LOCUST	GOOD	PRESERVE **
1336	9	LOCUST	GOOD	PRESERVE **
1337	10	LOCUST	FAIR	PRESERVE
1338	6	HACKBERRY	FAIR	PRESERVE **
1339	10	COTTONWOOD	FAIR	PRESERVE **
1340	8	LOCUST	GOOD	PRESERVE **
1341	8	LOCUST	FAIR	PRESERVE **
1342	12	LOCUST	FAIR	PRESERVE **
1343	11	LOCUST	FAIR	PRESERVE **
1344	9	ELM	FAIR	PRESERVE **
1345	8	HACKBERRY	FAIR	PRESERVE **
1346	7	HACKBERRY	FAIR	PRESERVE **
1347	19	LOCUST	GOOD	PRESERVE **
1348	15	ELM	FAIR	PRESERVE **
1349	8	ELM	FAIR	PRESERVE **
1350	7	ELM	FAIR	PRESERVE **
1351	11	HACKBERRY	GOOD	PRESERVE **
1352	8	HACKBERRY	POOR	PRESERVE **
1353	7	HACKBERRY	GOOD	PRESERVE **
1354	7	HACKBERRY	FAIR	PRESERVE **
1355	6	HACKBERRY	FAIR	PRESERVE **
1356	13	COTTONWOOD	GOOD	PRESERVE **
1357	6	HACKBERRY	FAIR	PRESERVE **
1358	9	COTTONWOOD	POOR	PRESERVE **
1359	7	COTTONWOOD	FAIR	PRESERVE **
1360	9	COTTONWOOD	FAIR	PRESERVE **
1361	9	COTTONWOOD	GOOD	PRESERVE **
1362	6	HACKBERRY	GOOD	PRESERVE **
1363	7	HACKBERRY	FAIR	PRESERVE **
1364	14	ELM	GOOD	PRESERVE **
1365	6	HACKBERRY	FAIR	PRESERVE **
1366	6	HACKBERRY	GOOD	PRESERVE **
1367	8	HACKBERRY	GOOD	PRESERVE **
1368	10	HACKBERRY	FAIR	PRESERVE **
1369	7	HACKBERRY	FAIR	PRESERVE **
1370	15	COTTONWOOD	GOOD	PRESERVE **
1371	23	LOCUST	GOOD	PRESERVE **
1372	7	ELM	GOOD	PRESERVE **
1373	10	LOCUST	GOOD	PRESERVE **
1374	8	HACKBERRY	FAIR	PRESERVE
1375	21	LOCUST	FAIR	OFF SITE
1376	7	HACKBERRY	FAIR	PRESERVE **
1377	6	HACKBERRY	POOR	PRESERVE
1378	18	LOCUST	GOOD	PRESERVE **
1379	7	LOCUST	POOR	PRESERVE **
1380	7	HACKBERRY	FAIR	PRESERVE **
1381	18	LOCUST	FAIR	PRESERVE **
1382	34	ASH	GOOD	PRESERVE **
1383	18	COTTONWOOD	FAIR	PRESERVE **
1384	8	HACKBERRY	FAIR	PRESERVE
1385	8	HACKBERRY	GOOD	PRESERVE **
1386	31	LOCUST	GOOD	PRESERVE
1387	10	HACKBERRY	GOOD	PRESERVE
1388	9	PINE	GOOD	REMOVE

** INDICATES TREES WITHIN 100 YEAR FLOOD PLAIN

REPLACEMENT CALCULATIONS*

*ALL MAJOR TREES, NOT INCLUDING DEAD OR INVASIVE

TREES REMOVED	INCHES REMOVED
474	5,391

PRESERVED TREES WITHIN 100-YEAR FLOOD PLAIN

*ALL MAJOR TREES, NOT INCLUDING DEAD OR INVASIVE

TREES PRESERVED	INCHES PRESERVED
526	5,436

PRESERVED TREES (NOT IN 100-YEAR

*ALL MAJOR TREES, NOT INCLUDING DEAD OR INVASIVE

TREES PRESERVED	INCHES PRESERVED
222	2,425

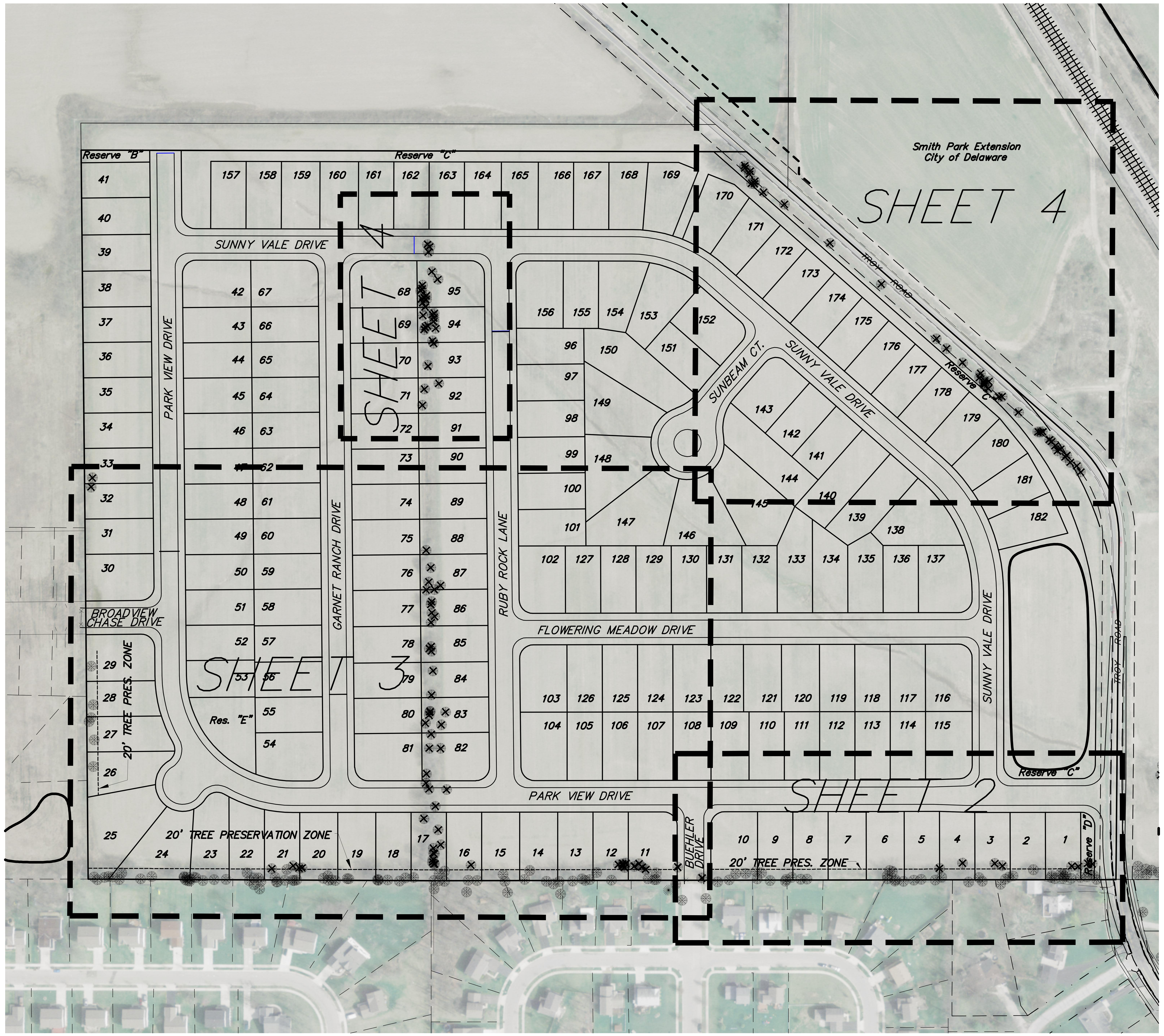
TREE SURVEY DATA (2 OF 2) DELAWARE, OH

HOUK ROAD DEVELOPMENT

PREPARED FOR ARCHITECTURAL ALLIANCE

DATE: 1.13.2021

Faris Planning & Design
LAND PLANNING • LANDSCAPE ARCHITECTURE
243 N. 5th Street Suite 401 Columbus, OH 43215
p (614) 487-1964 www.farisplanninganddesign.com



REV. NUM.	REVISION DESCRIPTION	SHT(S)	INITIAL	DATE

Prepared For:
D.R. HORTON
America's Builder
507 Executive Campus Dr.
Suite 100
Westerville, Ohio 43082

Prepared By:
WATCON
CONSULTING ENGINEERS & SURVEYORS
83 Shull Avenue Ph.
Gahanna, Ohio 43230
(614) 414-7979

CITY OF DELAWARE, DELAWARE COUNTY, OHIO

PARK VIEW

OVERALL TREE SURVEY INDEX

GRAPHIC SCALE 1"=100'

Scale: 1"=100'(H)

DRFT	CKD
SAL	JTW

1/5

Z:\PARK VIEW (TROY ROAD)\DRAWINGS\2-TREE CLEARING EXHIBITS\PARK VIEW TREE SURVEY INDEX.DWG - 1 XREFS: Park View Engineering Base - PLOTTED BY JIM WATKINS - March 22, 2021 - 1:49 PM

SECTION 1, (Part 2)

SECTION 1, (Part 1)

PARK VIEW DRIVE

SUNNY VALE DRIVE

Reserve "C"

Reserve "D"

BUETHLER DRIVE

TROY ROAD

20' TREE PRESERVATION ZONE

13 12 11 10 9 8 7 6 5 4 3 2 1

108 109 110 111 115

160 162 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 202 203 204 205 206 208 209 210 213 214 215 216 217 218 219 223 225 226 227 229 230 232 233 234 235 236 238 239 240 241 242 294 295 296 297 298 299 300 301 302

REV. NUM	REVISION DESCRIPTION	SHT(S)	INITIAL	DATE

507 Executive Campus Dr.
Suite 100
Westerville, Ohio 43082

Prepared For: D·R·HORTON America's Builder

Prepared By:
WATCON
CONSULTING ENGINEERS & SURVEYORS
83 Shull Avenue Ph.
Gahanna, Ohio 43230
(614) 414-7979

CITY OF DELAWARE, DELAWARE COUNTY, OHIO

PARK VIEW

OVERALL TREE SURVEY

GRAPHIC SCALE 1"=40'

Scale: 1"=40'(H)

DRFT	CKD
SAL	JTW

2 of 5

SECTION 3

SECTION 1, (Part 2)

PARK VIEW DRIVE
GARNET RANCH DRIVE
RUBY ROCK LANE
BROADVIEW CHASE DR.
FLOWERING MEADOW DRIVE
PARK VIEW DRIVE
BUEHLER DRIVE
20' TREE PRESERVATION ZONE
20' TREE PRESERVATION ZONE
Res. "E"

DATE	INITIAL	SHT(S)	REVISION DESCRIPTION	REF. NUM

507 Executive Campus Dr.
Suite 100
Westerville, Ohio 43082

Prepared For: D.R. HORTON America's Builder

Prepared By:
T&T WATCON
CONSULTING ENGINEERS & SURVEYORS
83 Shull Avenue Ph.
Gahanna, Ohio 43230
(614) 414-7979

CITY OF DELAWARE, DELAWARE COUNTY, OHIO

PARK VIEW

OVERALL TREE SURVEY

GRAPHIC SCALE 1"=40'

Scale: 1"=40'(H)

DRFT	CKD
SAL	JTW

3/5

Z:\PARK VIEW (TROY ROAD)\DRAWINGS\2-TREE CLEARING EXHIBITS\PARK VIEW TREE SURVEY INDEX.DWG - 1 XREFS: Park View Engineering Base - PLOTTED BY JIM WATKINS - March 22, 2021 - 1:49 PM

SUNNY VALE DRIVE

GARNET RANCH DRIVE

RUBY ROCK LANE

TROY ROAD

Smith Park Extension
City of Delaware

Reserve

SECTION 3

SECTION 2

149 148 147 146 144 143 142 145 141 140 139 138 137 136 135 134 133 132 131 129 128 127 130 126 125 124 123 122 303

284 283 282 281 280 279 278 277 276 275 274 273 272 271 270 269 268 267 266 265 264 263 262 261 260 259 258 256 254 253 251 250 248 246 245 244 243

68 69 70 71 95 94 93 92

169 170 171 172 173 174 175 176 177 178 179 180 181 182

152 143 141 144 145 146 140 139 138

Prepared By:
TAT WATCON
CONSULTING ENGINEERS & SURVEYORS
83 Shull Avenue Ph.
Gahanna, Ohio 43230
(614) 414-7979

Prepared For:
D·R·HORTON
America's Builder
507 Executive Campus Dr.
Suite 100
Westerville, Ohio 43082

REV. NUM	REVISION DESCRIPTION	SHT(S)	INITIAL	DATE

CITY OF DELAWARE, DELAWARE COUNTY, OHIO

PARK VIEW

OVERALL TREE SURVEY

Scale: 1"=40'(H)

GRAPHIC SCALE 1"=40'

DRFT	CKD
SAL	JTW

4/5

ID	Common Name	Scientific Name	Size	Trunks	Condition
1	Pin Oak	*Quercus palustris*	6	1	Good
2	Pin Oak	*Quercus palustris*	6	1	Good
3	American Elm	*Ulmus americana*	6	1	Good
4	Pin Oak	*Quercus palustris*	6	1	Good
5	Pin Oak	*Quercus palustris*	7	1	Good
6	Pin Oak	*Quercus palustris*	20	1	Good
7	Pin Oak	*Quercus palustris*	24	1	Good
8	Red Oak	*Quercus rubra*	11	1	Good
9	Pin Oak	*Quercus palustris*	21	1	Good
10	Pin Oak	*Quercus palustris*	11	1	Good
11	Pin Oak	*Quercus palustris*	11	1	Good
12	Pin Oak	*Quercus palustris*	34	1	Good
13	Hackberry	*Celtis occidentalis*	14	1	Good
14	Hackberry	*Celtis occidentalis*	7	1	Fair
15	Hackberry	*Celtis occidentalis*	9	1	Fair
16	Pin Oak	*Quercus palustris*	7	1	Good
17	Hackberry	*Celtis occidentalis*	6	1	Good
18	Pin Oak	*Quercus palustris*	16	1	Good
19	Pin Oak	*Quercus palustris*	26	1	Good
20	Hackberry	*Celtis occidentalis*	12	1	Good
21	Hackberry	*Celtis occidentalis*	9	1	Good
22	Hackberry	*Celtis occidentalis*	6	1	Good
24	Hackberry	*Celtis occidentalis*	9	1	Good
25	Black Cherry	*Prunus serotina*	8	1	Poor
26	Pin Oak	*Quercus palustris*	37	1	Good
27	Pin Oak	*Quercus palustris*	8	1	Good
28	Pin Oak	*Quercus palustris*	14	1	Good
29	Green Ash	*Fraxinus pennsylvanica*	11	1	Dead
30	Eastern Cottonwood	*Populus deltoides*	14	1	Good
31	Eastern Cottonwood	*Populus deltoides*	14	1	Good
32	Hawthorn	*Crataegus sp.*	7	1	Fair
33	Hackberry	*Celtis occidentalis*	9	1	Good
34	Hawthorn	*Crataegus sp.*	10	1	Fair
35	Black Cherry	*Prunus serotina*	8	1	Fair
36	Pin Oak	*Quercus palustris*	7	1	Good
37	Pin Oak	*Quercus palustris*	7	1	Good
38	Pin Oak	*Quercus palustris*	6	1	Good
39	Pin Oak	*Quercus palustris*	7	1	Good
40	Pin Oak	*Quercus palustris*	7	1	Good
42	Black Cherry	*Prunus serotina*	9	1	Fair
43	Black Cherry	*Prunus serotina*	7	1	Dead
55	Hackberry	*Celtis occidentalis*	13	1	Good
56	Hackberry	*Celtis occidentalis*	13	1	Good
57	Hackberry	*Celtis occidentalis*	8	1	Good
58	Hackberry	*Celtis occidentalis*	13	1	Good
59	Hackberry	*Celtis occidentalis*	8	1	Good
61	Hackberry	*Celtis occidentalis*	13	1	Good
60a	Green Ash	*Fraxinus pennsylvanica*	13	1	Dead
60b	Green Ash	*Fraxinus pennsylvanica*	9	1	Dead
64	Hawthorn	*Crataegus sp.*	12	1	Poor
65	Hackberry	*Celtis occidentalis*	7	1	Good
66a	Hawthorn	*Crataegus sp.*	7	1	Poor
66b	Hawthorn	*Crataegus sp.*	4	1	Poor
67	Pin Oak	*Quercus palustris*	24	1	Good
68	Pin Oak	*Quercus palustris*	34	1	Good
69	Hawthorn	*Crataegus sp.*	6	1	Fair
70	Pin Oak	*Quercus palustris*	6	1	Good
71	Hackberry	*Celtis occidentalis*	15	1	Good
72	Hawthorn	*Crataegus sp.*	8	1	Fair
73	Hackberry	*Celtis occidentalis*	10	1	Good
74	Shagbark Hickory	*Carya ovata*	14	1	Good
75	American Elm	*Ulmus americana*	8	1	Good
76a	Red Maple	*Acer rubrum*	14	1	Good
76b	Red Maple	*Acer rubrum*	6	1	Good
77	Hackberry	*Celtis occidentalis*	9	1	Fair
78	Hackberry	*Celtis occidentalis*	11	1	Good
79	Hackberry	*Celtis occidentalis*	13	1	Good
80a	Hackberry	*Celtis occidentalis*	14	1	Good
80b	Hackberry	*Celtis occidentalis*	7	1	Good
81	Hackberry	*Celtis occidentalis*	9	1	Good
82	Hackberry	*Celtis occidentalis*	10	1	Good
83a	Hawthorn	*Crataegus sp.*	7	1	Fair
83b	Hawthorn	*Crataegus sp.*	6	1	Fair
83c	Hawthorn	*Crataegus sp.*	5	1	Fair
83d	Hawthorn	*Crataegus sp.*	5	1	Fair
87	Hackberry	*Celtis occidentalis*	9	1	Good
88	Pin Oak	*Quercus palustris*	14	1	Good
89	Green Ash	*Fraxinus pennsylvanica*	8	1	Dead
90	Pin Oak	*Quercus palustris*	9	1	Good
91	Pin Oak	*Quercus palustris*	12	1	Good
92	Pin Oak	*Quercus palustris*	8	1	Good
93	Pin Oak	*Quercus palustris*	9	1	Good
94	Pin Oak	*Quercus palustris*	11	1	Good
95	Green Ash	*Fraxinus pennsylvanica*	18	1	Dead
96	Pin Oak	*Quercus palustris*	6	1	Good
97	Pin Oak	*Quercus palustris*	6	1	Good
98	Green Ash	*Fraxinus pennsylvanica*	10	1	Poor
99	Green Ash	*Fraxinus pennsylvanica*	8	1	Poor
100	Green Ash	*Fraxinus pennsylvanica*	8	1	Poor
101	Honey Locust	*Gleditsia triacanthos*	7	1	Fair
102	Hackberry	*Celtis occidentalis*	7	1	Good
103a	White Mulberry	*Morus alba*	19	1	Fair
103b	White Mulberry	*Morus alba*	16	1	Fair
104a	White Mulberry	*Morus alba*	22	1	Fair
104b	White Mulberry	*Morus alba*	16	1	Fair
106	Green Ash	*Fraxinus pennsylvanica*	9	1	Fair
107	Hackberry	*Celtis occidentalis*	8	1	Good
108	Green Ash	*Fraxinus pennsylvanica*	32	1	Dead
109	White Mulberry	*Morus alba*	7	1	Poor
110	Hackberry	*Celtis occidentalis*	7	1	Good
111a	White Mulberry	*Morus alba*	21	1	Fair
111b	White Mulberry	*Morus alba*	15	1	Fair
113	Hackberry	*Celtis occidentalis*	10	1	Good
114	Pin Oak	*Quercus palustris*	7	1	Good
115a	White Mulberry	*Morus alba*	7	1	Fair
115b	White Mulberry	*Morus alba*	7	1	Fair
116	Pin Oak	*Quercus palustris*	7	1	Good
117a	White Mulberry	*Morus alba*	18	1	Fair
117b	White Mulberry	*Morus alba*	14	1	Fair
117c	White Mulberry	*Morus alba*	13	1	Fair
120	Pin Oak	*Quercus palustris*	7	1	Good
122	Pin Oak	*Quercus palustris*	7	1	Good
123	Pin Oak	*Quercus palustris*	8	1	Good
124a	Honey Locust	*Gleditsia triacanthos*	12	1	Good
124b	Honey Locust	*Gleditsia triacanthos*	8	1	Good
125	Honey Locust	*Gleditsia triacanthos*	12	1	Good
126	American Elm	*Ulmus americana*	25	1	Good
127	Honey Locust	*Gleditsia triacanthos*	7	1	Good
129	Honey Locust	*Gleditsia triacanthos*	8	1	Good
130	Honey Locust	*Gleditsia triacanthos*	7	1	Good
131	Honey Locust	*Gleditsia triacanthos*	6	1	Good
132	Honey Locust	*Gleditsia triacanthos*	6	1	Good
133	Honey Locust	*Gleditsia triacanthos*	8	1	Good
134	Honey Locust	*Gleditsia triacanthos*	13	1	Good
135	Honey Locust	*Gleditsia triacanthos*	6	1	Good
136	Honey Locust	*Gleditsia triacanthos*	9	1	Good
137	Honey Locust	*Gleditsia triacanthos*	8	1	Good
138	Honey Locust	*Gleditsia triacanthos*	6	1	Good
139	Honey Locust	*Gleditsia triacanthos*	7	1	Good
140	Honey Locust	*Gleditsia triacanthos*	6	1	Good
141	Honey Locust	*Gleditsia triacanthos*	7	1	Good
142	Honey Locust	*Gleditsia triacanthos*	7	1	Good
143	Honey Locust	*Gleditsia triacanthos*	10	1	Good
144	Honey Locust	*Gleditsia triacanthos*	6	1	Good
145	Honey Locust	*Gleditsia triacanthos*	7	1	Good
146	Hackberry	*Celtis occidentalis*	9	1	Good
147	Hackberry	*Celtis occidentalis*	7	1	Good
148	American Elm	*Ulmus americana*	37	1	Good
149	American Elm	*Ulmus americana*	9	1	Good
150	Red Maple	*Acer rubrum*	7	1	Good
151	Green Ash	*Fraxinus pennsylvanica*	9	1	Dead
152	Green Ash	*Fraxinus pennsylvanica*	9	1	Dead
153	Pin Oak	*Quercus palustris*	27	1	Good
154	Hackberry	*Celtis occidentalis*	12	1	Good
155	Pin Oak	*Quercus palustris*	9	1	Good
157	Shagbark Hickory	*Carya ovata*	12	1	Good
158	Pin Oak	*Quercus palustris*	25	1	Good
159	Shagbark Hickory	*Carya ovata*	11	1	Good
160	Hackberry	*Celtis occidentalis*	7	1	Good
162a	Pin Oak	*Quercus palustris*	22	1	Good
162b	Pin Oak	*Quercus palustris*	19	1	Good
164	Pin Oak	*Quercus palustris*	12	1	Good
165	Pin Oak	*Quercus palustris*	21	1	Good
166	Hackberry	*Celtis occidentalis*	12	1	Good
167	American Elm	*Ulmus americana*	6	1	Good
168	Hackberry	*Celtis occidentalis*	15	1	Good
169	Eastern Cottonwood	*Populus deltoides*	14	1	Good
170	American Elm	*Ulmus americana*	6	1	Good
171	Eastern Cottonwood	*Populus deltoides*	14	1	Good
172	American Elm	*Ulmus americana*	6	1	Good
173	American Elm	*Ulmus americana*	8	1	Good
174	Pin Oak	*Quercus palustris*	7	1	Good
175	Pin Oak	*Quercus palustris*	7	1	Good
176	Eastern Cottonwood	*Populus deltoides*	16	1	Good
177	Pin Oak	*Quercus palustris*	7	1	Good
178	American Elm	*Ulmus americana*	8	1	Good
179	American Elm	*Ulmus americana*	7	1	Good
180	American Elm	*Ulmus americana*	11	1	Good
181	Pin Oak	*Quercus palustris*	7	1	Good
182	Blue Spruce	*Picea pungens*	6	1	Good
183	Callery Pear	*Pyrus calleryana*	10	1	Good
184	Callery Pear	*Pyrus calleryana*	7	1	Good
185	Pin Oak	*Quercus palustris*	6	1	Good
186	Eastern Cottonwood	*Populus deltoides*	8	1	Good
187	Callery Pear	*Pyrus calleryana*	10	1	Good
188	Pin Oak	*Quercus palustris*	24	1	Good
189a	Hackberry	*Celtis occidentalis*	11	1	Good
189b	Hackberry	*Celtis occidentalis*	7	1	Good
190	Pin Oak	*Quercus palustris*	7	1	Good
191	Pin Oak	*Quercus palustris*	7	1	Good
192	Pin Oak	*Quercus palustris*	9	1	Good
193	Crabapple	*Malus coronaria*	6	1	Poor
194	Pin Oak	*Quercus palustris*	9	1	Good
195	Callery Pear	*Pyrus calleryana*	9	1	Good
196	Black Cherry	*Prunus serotina*	10	1	Poor
197	American Elm	*Ulmus americana*	11	1	Dead
198	Green Ash	*Fraxinus pennsylvanica*	16	1	Dead
199	Pin Oak	*Quercus palustris*	25	1	Good
200a	Honey Locust	*Gleditsia triacanthos*	14	1	Good
200b	Honey Locust	*Gleditsia triacanthos*	8	1	Good
202	Green Ash	*Fraxinus pennsylvanica*	8	1	Poor
203	Green Ash	*Fraxinus pennsylvanica*	7	1	Poor
204	White Oak	*Quercus alba*	19	1	Good
205	Pin Oak	*Quercus palustris*	36	1	Good
206	Honey Locust	*Gleditsia triacanthos*	30	1	Fair
208	Green Ash	*Fraxinus pennsylvanica*	7	1	Poor
209	Pin Oak	*Quercus palustris*	15	1	Good
210	Eastern Cottonwood	*Populus deltoides*	8	1	Good
213	Eastern Cottonwood	*Populus deltoides*	11	1	Good
214	Silver Maple	*Acer saccharinum*	28	1	Good
215	Swamp White Oak	*Quercus bicolor*	27	1	Good
216	Silver Maple	*Acer saccharinum*	20	1	Fair
217	White Oak	*Quercus alba*	18	1	Good
218	Eastern Cottonwood	*Populus deltoides*	9	1	Good
219a	White Mulberry	*Morus alba*	10	1	Poor
219b	White Mulberry	*Morus alba*	10	1	Poor
219c	White Mulberry	*Morus alba*	9	1	Poor
219d	White Mulberry	*Morus alba*	8	1	Poor
223a	American Elm	*Ulmus americana*	9	1	Fair
223b	American Elm	*Ulmus americana*	9	1	Fair
225	Sugar Maple	*Acer saccharum*	9	1	Good
226	White Oak	*Quercus alba*	18	1	Good
227a	Red Maple	*Acer rubrum*	14	1	Good
227b	Red Maple	*Acer rubrum*	9	1	Good
229	Sugar Maple	*Acer saccharum*	8	1	Good
230a	Sugar Maple	*Acer saccharum*	9	1	Good
230b	Sugar Maple	*Acer saccharum*	7	1	Good
232	Sugar Maple	*Acer saccharum*	11	1	Good
233	Sugar Maple	*Acer saccharum*	8	1	Good
234	White Oak	*Quercus alba*	9	1	Good
235	Eastern Cottonwood	*Populus deltoides*	11	1	Good
236	Sugar Maple	*Acer saccharum*	8	1	Good
237	Sugar Maple	*Acer saccharum*	10	1	Good
238	Sugar Maple	*Acer saccharum*	10	1	Good
239	Sugar Maple	*Acer saccharum*	10	1	Good
240	Sugar Maple	*Acer saccharum*	9	1	Dead
241	American Elm	*Ulmus americana*	7	1	Good
242	Boxelder	*Acer negundo*	8	1	Good
243	American Elm	*Ulmus americana*	23	1	Good
244	American Elm	*Ulmus americana*	17	1	Good
245	American Elm	*Ulmus americana*	6	1	Good
246a	Eastern Cottonwood	*Populus deltoides*	17	1	Good
246b	Eastern Cottonwood	*Populus deltoides*	16	1	Good
248a	American Elm	*Ulmus americana*	9	1	Good
248b	American Elm	*Ulmus americana*	6	1	Good
250	American Elm	*Ulmus americana*	6	1	Good
251a	American Elm	*Ulmus americana*	7	1	Good
251b	American Elm	*Ulmus americana*	7	1	Good
253a	American Elm	*Ulmus americana*	11	1	Good
253b	American Elm	*Ulmus americana*	7	1	Good
254a	American Elm	*Ulmus americana*	10	1	Good
254b	American Elm	*Ulmus americana*	9	1	Good
256a	American Elm	*Ulmus americana*	16	1	Good
256b	American Elm	*Ulmus americana*	12	1	Good
258	American Elm	*Ulmus americana*	16	1	Good
259	American Elm	*Ulmus americana*	9	1	Good
260	American Elm	*Ulmus americana*	14	1	Good
261	Honey Locust	*Gleditsia triacanthos*	26	1	Good
262	American Elm	*Ulmus americana*	7	1	Fair
263	American Elm	*Ulmus americana*	9	1	Fair
264	American Elm	*Ulmus americana*	10	1	Good
265	Green Ash	*Fraxinus pennsylvanica*	6	1	Poor
266	American Elm	*Ulmus americana*	7	1	Good
267	Hackberry	*Celtis occidentalis*	9	1	Good
268	Hackberry	*Celtis occidentalis*	7	1	Good
269	Hackberry	*Celtis occidentalis*	10	1	Good
270a	American Elm	*Ulmus americana*	11	1	Good
270b	American Elm	*Ulmus americana*	5	1	Good
271	American Elm	*Ulmus americana*	11	1	Good
272	Hackberry	*Celtis occidentalis*	6	1	Good
273	White Mulberry	*Morus alba*	10	1	Fair
274	Black Cherry	*Prunus serotina*	8	1	Fair
275	Eastern Cottonwood	*Populus deltoides*	18	1	Poor
276	American Elm	*Ulmus americana*	19	1	Good
277	White Oak	*Quercus alba*	6	1	Good
278	Hackberry	*Celtis occidentalis*	12	1	Good
279	Hackberry	*Celtis occidentalis*	6	1	Poor
280	White Oak	*Quercus alba*	51	1	Poor
281	White Oak	*Quercus alba*	34	1	Good
282	White Oak	*Quercus alba*	40	1	Good
283	White Oak	*Quercus alba*	31	1	Good
284	White Oak	*Quercus alba*	24	1	Good
285	Callery Pear	Pyrus calleryana	6	1	Good
286	Hackberry	Celtis occidentalis	22	1	Good
287	Hawthorn	Crataegus sp.	7	1	Fair
288	Green Ash	Fraxinus pennsylvanica	6	1	Fair
289	Red Mulberry	Morus rubra	6	1	Fair
290	Pin Oak	Quercus palustris	7	1	Good
291	Hackberry	Celtis occidentalis	6	1	Fair
292	Green Ash	Fraxinus pennsylvanica	6	1	Poor
293	Pin Oak	Quercus palustris	6	1	Good
294	Green Ash	Fraxinus pennsylvanica	9	1	Dead
295	White Oak	Quercus alba	7	1	Good
296	Pin Oak	Quercus palustris	6	1	Good
297	American Elm	Ulmus americana	6	1	Fair
298	Honey Locust	Gleditsia triacanthos	6	1	Good
299	Green Ash	Fraxinus pennsylvanica	7	1	Poor
300	Black Walnut	Juglans nigra	15	1	Good
301	Sugar Maple	Acer saccharum	8	1	Good
302	Sugar Maple	Acer saccharum	7	1	Good
303	Pin Oak	Quercus palustris	6	1	Good
304a	Pin Oak	*Quercus palustris*	8	1	Good
304b	Pin Oak	*Quercus palustris*	7	1	Good

	Inches	Number
TOTAL NUMBERS & INCHES OF TREES SAVED* (Good & Fair)	1473	116
TOTAL NUMBERS & INCHES OF TREES REMOVED (Good & Fair)	1459	141
TOTAL NUMBERS & INCHES OF TREES REMOVED (Poor & Dead)	394	36

DEAD, POOR CONDITION

TREES TO BE REMOVED

TREES TO REMAIN

REV. NUM	REVISION DESCRIPTION	SHT(S)	INITIAL	DATE

507 Executive Campus Dr.
Suite 100
Westerville, Ohio 43082

Prepared For: D.R. HORTON America's Builder

Prepared By: WATCON
CONSULTING ENGINEERS & SURVEYORS
83 Shull Avenue Ph.
Gahanna, Ohio 43230
(614) 414-7979

CITY OF DELAWARE, DELAWARE COUNTY, OHIO

PARK VIEW

OVERALL TREE SURVEY DATA

Scale: NONE

DRFT CKD
SG JTW

5 of 5

Z:\PARK VIEW (TROY ROAD)\DRAWINGS\2- TREE CLEARING EXHIBITS\PARK VIEW TREE SURVEY INDEX.DWG — 1 XREFS: Park View Engineering Base — PLOTTED BY JIM WATKINS — March 22, 2021 — 1:49 PM