

Arbor Report

May 18, 2024

Re: Tree Survey for Specimen Trees.

Scope:

Services were retained to conduct a tree census for all Protected trees and determine scoring for potential Specimen Trees for the Project site located at 1974 SR16, St. Augustine, Fl.

Methods:

Each tree was visually inspected using a Level 2, Tree Risk Assessment as defined by the **International Society of Arboriculture (ISA)**. This level of inspection includes a 360-degree visual evaluation of the tree from top to bottom including a review of the crown, trunk, root flare, and above-ground roots to look for structural defects, decay, pests, and disease.

Each tree was identified to species and were measured for Diameter at Breast Height (DBH) using a standard forestry DBH tape or field calipers.

Tree heights were determined using a **Haglof EC II-D** digital clinometer.

Canopy spread was measured using a measuring wheel on the ground and recording the canopy spread north to south and east to west and averaged.

Invasive, exotic trees and dead trees were not recorded.

SJC Land Development Code Article XII Definitions:

Protected Tree: Any Tree having a Diameter at Breast Height (DBH) of eight (8) inches or greater, excluding Exempt Trees. Native Southern red cedar (*Juniperus silicicola*) and Sand live oak (*Quercus geminata*) with a DBH two (2) inches or greater shall be a Protected Tree whenever it occurs on lands lying east of the Intracoastal Waterway, Tolomato River or Matanzas River. Any Tree preserved or planted to meet the requirements of this Code becomes a Protected Tree, regardless of size.

SJC Land Development Code Section 4.01.05:

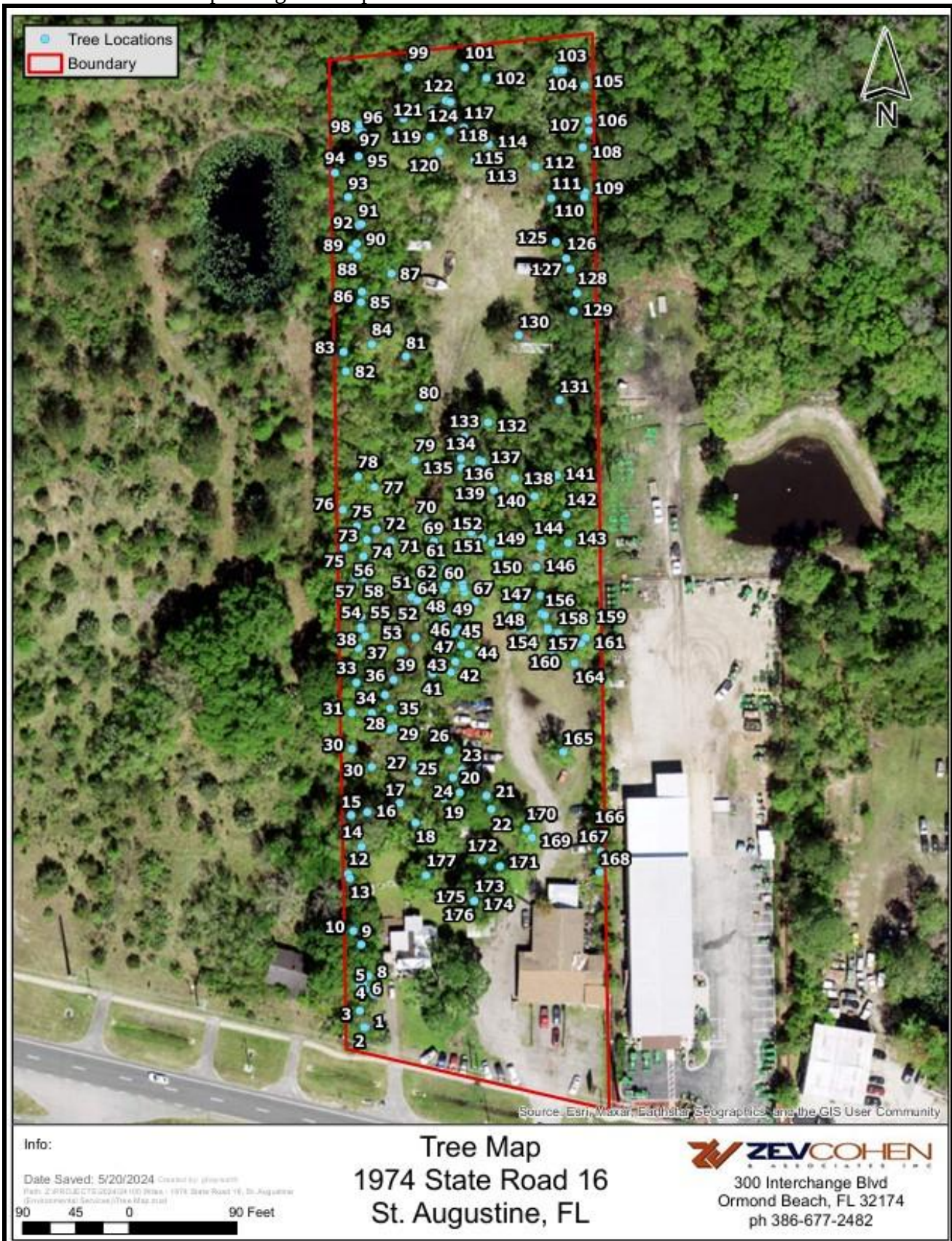
Specimen Tree Designation: The County Administrator, property Owner, or an Applicant may request that a Native Tree become a Specimen Tree when professional field measurements document species, height, crown spread, D.B.H. and overall condition. The results in total points awarded a Tree designee must be equal to or greater than seventy percent (70%) of the current Florida State Champion Tree for that species as published in "Big Trees the Florida Register" for all species except that the total points awarded must equal or exceed fifty percent (50%) for Laurel Oak, Live Oak, Southern Magnolia, and Southern Red Cedar. The County Administrator shall review and approve all Specimen Tree designation requests.

Observations / Discussion:

This parcel is partially developed with existing structures and about half of the parcel is currently forested. The canopy is dominated by water oak (*Quercus nigra*), laurel oak (*Quercus laurifolia*), sweetgum (*Liquidambar styraciflua*) and slash pine (*Pinus elliottii*). The tree species are uniform in age, size and distribution and are growing tightly together with limiting spread of lateral branches except for some of the laurel oaks located on the edges that had room to spread into adjacent parcels.

Conclusion:

A total of one hundred seventy-seven (177) **Protected Trees** were reviewed and recorded. Four (4) of these trees meet scoring criteria to be classified as **Specimen Trees**. These trees are labeled as #8, #10, #31 and #33 on the data table and corresponding tree map. All four of these trees are laurel oaks.



SINCERELY,



Ray Jarrett

Biologist / Arborist

ISA Certified Arborist FL-5343A (Nov 2005)

ISA Tree Risk Assessment Qualified (TRAQ)

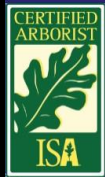
Environmental and Urban Tree Consulting

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- Fertilizing and disease management
- Tree surveys
- Tree health assessments / arbor reports
- Tree health recovery plans
- Tree protection plans for construction
- DEP Professional Mangrove Trimmer (PMT)
- Land Management- Defensible Space & Rx Fire

TNC, UF/IFAS Certified Land Manager

Prescribed Burn Manager #2019-4937

ISA Certified Arborist #FL-5343

ISA Tree Risk Assessment Qualified

Certified Landscape Inspector (LIAF)

Certified Stormwater Inspector #38419 (FDEP)

Limited Commercial Urban Fertilizer Applicator License

Technical Literature References

American National Standard Institute (ANSI) A300 (Part 9) 2017. ***Tree Risk Assessment***, Tree Care Industry Association, Inc. (TCIA), Manchester, NH.

American National Standard Institute (ANSI) A300 (Part 8) 2020. ***Tree, Shrub, and Woody Plant Management – Standard Practices (Root Management)***, Tree Care Industry Association, Inc. (TCIA), Manchester, NH.

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Council of Tree and Landscape Appraisers. 2000. ***Guide for Plant Appraisal, 9th Edition***. International Society of Arboriculture, Champaign, Illinois.

Costello, L.R. and K.S. Jones. 2003. ***Reducing Infrastructure Damage by Tree Roots: A Compendium of Strategies***. Western Chapter of the International Society of Arboriculture) WCISA). Porterville, CA.

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Fite, Kelby and E. Thomas Smiley. 2016. Best Management Practices, ***Managing Trees During Construction***. International Society of Arboriculture, Champaign, Illinois.

Fishel, Frederick M., Susan W. Williams and O. Norman Nesheim. 2013. ***Ornamental and Turfgrass Management***. University of Florida.

Florida Exotic Pest Plant Council. 2005. *List of Florida's Invasive Species*. Internet: <http://fleppc.org>. Florida Exotic Pest Plant Council.

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- Luley, Christopher J., 2023. ***Wood Decay Fungi Common to Urban Living Trees in the Northeast & Central United States***. Urban Forest Diagnostics LLC in Cooperation with Draves Arboretum. Darien Center NY.
- Matheny, Nelda P., and James R. Clark. ***Evaluation of Hazard Trees in Urban Areas***. 1994. International Society of Arboriculture. Champaign, Illinois.
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- Smiley, E. Thomas, Nelda Matheny and Sharon Lil. 2017. Best Management Practices, ***Tree Risk Assessment***. International Society of Arboriculture, Champaign, Illinois.
- Watson, Gary. 2014. Best Management Practices, ***Tree Planting***. International Society of Arboriculture, Champaign, Illinois.
- Wunderlin, R. P., and B. F. Hansen. 2004. *Atlas of Florida Vascular Plants* (<http://www.plantatlas.usf.edu/>).[S. M. Landry and K. N. Campbell (application development), Florida Center for Community Design and Research.] Institute for Systematic Botany, University of South Florida, Tampa.