

CERTIFICATE OF APPROPRIATENESS PLACARD

for Raleigh Historic Resources

Project Description:

Remove dead/diseased/dangerous tree; plant replacement tree

417 Watauga St

Address

Oakwood

Historic District

Historic Property

COA-0147-2025

Certificate Number

10/13/2025

Date of Issue

4/13/2026

Expiration Date

This card must be kept posted in a location within public view until all phases of the described project are complete. The work must conform with the code of the City of Raleigh and laws of the state of North Carolina. When your project is complete, you are required to ask for a final zoning inspection in a historic district area. Telephone the RHDC office at 832-7238 and commission staff will coordinate the inspection with the inspections Department. If you do not call for this final inspection, your Certificate of Appropriateness is null and void.

Signature,

Raleigh Historic Development Commission

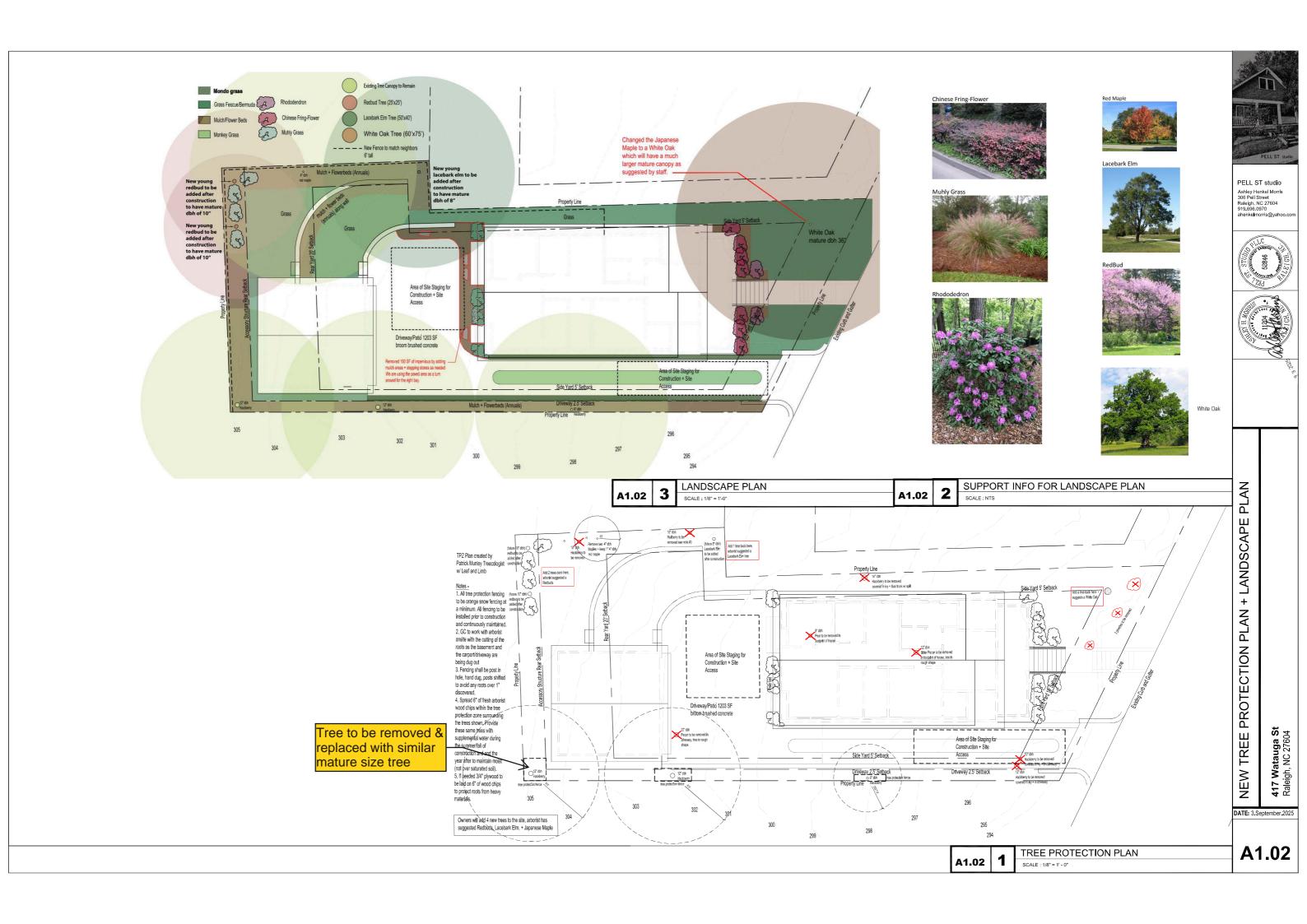
Pending the resolution of appeals, commencement of work is at your own risk.

Type or print the following:						
Applicant name: Keith Brouillard						
Mailing address: 3604 Pewter PI						
City: Raleigh	State: NC		Zip code: 27612			
Date: 10/10/25		Dayti	ytime phone #: 919-906-2807			
Email address: khb1526@yahoo.com						
Applicant signature: Keith Brouill	dotloop v 10/10/25 TOSU-RLO					
Minor work (staff review) – one copy			Office Use Only			
Major work (COA committee review) – ten		Т	Transaction #:			
copies		F	File #: COA-0147-2025			
Additions > 25% of building sq. footage		e F	Fee:			
New buildings		Δ	Amount paid:			
Demolition of building or structure		F	Received date:			
All other		F	Received by:			
Post approval re-review of	conditions of	_				
approval						
Property street address: 417 Wat	auga St					
Historic district: Oakwood						
Historic property/Landmark name	(if applicable):					
Owner name: Keith Brouillard & .	Jennifer Speri					
Owner mailing address: 3604 Pewter Pl Raleigh NC 27612						
For applications that require review by the COA Committee (major work), provide addressed and stamped envelopes for owners for all properties with 100 feet on all sides of the property,						
as well as the property owner.	ioro roi un propo.		in the feet on an ended of the property,			
Property Owner Name &	Address		Property Owner Name & Address			

Page 1 of 2 REVISION 7.2.19

I understand that all major work applications that require review by the Raleigh Historic Development Commission's COA Committee must be submitted by 4 p.m. on the date of the application deadline; otherwise, consideration will be delayed until the following committee meeting. An incomplete application will not be accepted.

Will you be a	applying for rehabilita	Office Use Only Type of work: 76			
Did you cons Yes No	sult with staff prior to	Type of work.			
Desi	ign Guidelines: please	cite the applicable sections of the d	esign guidelines (<u>www.rhdc.org</u>).		
Section/Page Topic Brief description of work (a			ttach additional sheets as needed).		
1.3/ page 23	Tree Removal	Remove a large tree that will be within 5 ft of garage and overhangs neighbors lot.			
The surface of the su					
Certificate of A Please post the Certificate shal	ppropriateness. It is valic e enclosed placard form of I not relieve the applican		tom of the card. Issuance of a Minor Work from obtaining any other permit required by s from the date of approval.		
Signature (City	of Raleigh)		Date 10 / 13 / 2025		





A Photographic Guide to the Evaluation of Hazard Trees in Urban Areas TREE HAZARD EVALUATION FORM 2nd Edition

Site/Address: 417 Wofanger St. Ralagh, NC	HAZARD RATING:
Map/Location:	3 + 3 + 3 = 7
Owner: public private unknown other	Failure + Size + Target = Hazard Potential of part Rating Rating
Date: 9/30/25 Inspector; Many Ann Metcalt, #50-172A	Immediate action needed
	Needs further inspection
	Dead tree
TREE CHARACTERISTICS	
Tree #: Species: Celtis occidentalis - C	ommon trackberry
DBH: 19" # of trunks: Height: 60' Spread: Spread:	
Form: generally symmetric minor asymmetry major asymmetry stump sprout	☐ stag-headed
Crown class:	
Live crown ratio: 60 % Age class:	-mature/senescent
Pruning history: □ crown cleaned □ excessively thinned □ topped □ crown raised □ pollarded	□ crown reduced □ flush cuts □ cabled/braced
mone multiple pruning events Approx. dates: Un known	
Special Value: specimen heritage/historic wildlife unusual street tree screen	shade indigenous protected by gov. agency
TREE HEALTH	
Foliage color: normal chlorotic necrotic Epicormics? (Y)N Growth	obstructions:
	es wire/ties signs cables
	/pavement
Woundwood development: ☐ excellent	r
Vigor class: ☐ excellent ☐ average ☐ fair ☐ poor	
Major pests/diseases:	22
SITE CONDITIONS Site Conditions are based an	proposed garage + no
Site Character: residence commercial industrial park open space natu	
Landscape type: parkway raised bed container mound wan shrub b	order wind break
Irrigation: Some adequate inadequate excessive trunk wettled	
Recent site disturbance? (Y)N Construction of soil disturbance of grade change of line	ne clearing site clearing
% dripline paved: 0% 10-25% 25-50% 50-75% 75-100% Paven	nent lifted? Y N
% dripline w/ fill soil: 0% 10-25% 25-50% 50-75% 75-100%	
% dripline grade lowered: 0% 10-25% 25-50% 50-75% 75-100%	
Soil problems: drainage shallow compacted droughty saline alkaline acidic	small volume disease center history of fail
clay expansive slope aspect:	utilities
Obstructions: lights signage line-of-sight view overhead lines underground	
Exposure to wind: single tree below canopy above canopy recently exposed winds Prevailing wind direction: No Winter Occurrence of snow/ice storms never selds	
Sin Summer	Jili Li regularly
TARGET	
Use Under Tree: building parking traffic edestrian ecreation landscape Can target be moved? Y N Can use be restricted? Y N Occupancy: occasional use intermittent use frequent use constant use	hardscape Small features utility lines
Can target be moved? Y (N) Can use be restricted?, Y (N)	
Occupancy: Doccasional use Dintermittent use X frequent use Doccasional use	

TREE DEFECTS	-						
ROOT DEFECTS:							
Suspect root rot: Y (N) M	ushroom/conk/hracket nrese	nt: v(N) ID:					
Suspect root for.	~ M	Hadamiands Danier	Anderste Dlow	Construction of			
Exposed roots: severe	_ moderate _ Lipw	Undermined:	Tallouerate Lilow	construction of			
Root pruned: distar	ice from trunk Root area	affected:%					
Restricted root area: seve	ere Kmoderate 🗆 low	Potential for root failure	severe moderate	low garage			
Restricted root area: severe moderate low Potential for root failure: severe moderate low Suranger LEAN: 25-30 deg. from vertical natural self-corrected soil heaving: Y N							
Decay in plane of lean: Y	Roots broken (Y) N	Soil cracking: YCN					
Compounding factors:			Lean severity: sever	re moderate low			
CROWN DEFECTS: Indicate pre	esence of individual defects ar	nd rate their severity (s = seve	re, m = moderate, I = low)				
DEFECT	ROOT CROWN	TRUNK	SCAFFOLDS	BRANCHES			
Poor taper							
Bow, sweep							
Codominants/forks							
Multiple attachments	*						
Included bark	3						
Excessive end weight			300 lean to	South			
Cracks/splits							
Hangers							
Girdling							
Wounds/seam							
Decay							
Cavity							
Conks/mushrooms/bracket							
Bleeding/sap flow							
Loose/cracked bark							
			to the same of the				
Nesting hole/bee hive Deadwood/stubs							
Borers/termites/ants			the end of				
Cankers/galls/burls	30		1 the end of	0 14			
Previous failure 🗻		,	Contract of the second				
HAZARD RATING							
Tree part most likely to fail:	Scaffold bra	volus /	Failure potential: 1 - low; 2	- medium; 3 high; 4 - severe			
Inspection period:		other one hom	Size of part: 1 - <6" (15 cm); 2 - 6-18" (15-45 cm);			
Fritain Detection Circ of Doct	Torget Dating - Hazard Ratin	0		75 cm); 4 - >30" (75 cm)			
Failure Potential + Size of Part			Target rating: 1 - occasiona				
5 + 2	+ 3 = 9		3-) frequent u	ise; 4 - constant use			
HAZARD ABATEMEN	T						
Prune: remove defective	part reduce end weight	□ crown clean □ thin □	raise canopy crown reduce	restructure shape			
Cable/Brace:			Inspect further: root crown	decay aerial monitor			
Remove tree: (Y) N Re	place? Y N Move targ	et: Y (N) Other:					
Remove tree: N Replace? Y N Move target: Y N Other:							
Effect on adjacent trees: \(\text{none} \text{evaluate} \) Notification: \(\text{owner} \text{manager} \text{governing agency} \) Date: \(\frac{10}{8} \) Date: \(\frac{10}{8} \)							
	manager — governing agenc						
COMMENTS							



Lineberger's Tree Service, Inc.

Brent & Beverly Lineberger 5404 Penny Road Raleigh, NC 27606 (919)834-0055

info@LinebergerTree.com

www.LinebergerTree.com

Keith Brouillard 3604 Pewter Place Raleigh, NC 27612 October 9, 2025

RE: 417 Watauga St.

Keith.

Thank you for contacting Lineberger Tree Service and allowing me to visit your property to perform a visual inspection of the Red Maple tree in the front yard and trees in the back yard on Tuesday September 30th. As requested, I focused on ground assessment of the trees. No climbing or aerial inspection was performed. Some of the tree characteristics and site changes I looked for include: leaf color, stem structure, 19-inch dbh canopy color, leaf and canopy density, presence of lean or decay, root failure, root disturbance, bark damage, grade changes, borer and other insects, the presence of decay fungi, and changes in canopy cover.

Recommendation:

- Remove 19-inch dbh Hackberry, rear left corner of property & grind stump.

Please see attached report and Tree Hazard Evaluation. Please contact our office through the website when you are ready for any estimate to remove the Hackberry tree. It was a pleasure working with you. Please feel free to contact me if you need additional information.

Sincerely,

Mary Ann Metcalf, ISA Certified Arborist #SO-0172 Lineberger's Tree Service, Inc 919-834-0055 office 919-612-3063 cell/text

Email: MaryannMetcalf@LinebergerTree.com

Tree Evaluation Report

Date Tree Evaluated: 9/30/2025

Inspector: Mary Ann Metcalf, Certified Arborist #SO-0172A; NC Registered Forester #1385

Property Owner: Keith Bouillard

Site Address: 417 Watauga St., Raleigh, NC

Tree Evaluated: *Celtis occidentalis*, Common Hackberry **Location on property:** Rear left corner of property, 3 ft. north of the property marker the edge of the root flare is touching the property line

Tree Characteristics: Diameter: 19-inch dbh

Trunks: 1 Height: 60 ft. Spread: 50 ft.

Form: Major Asymmetry (the end of 1 major scaffold branch is gone; the other scaffold branch has

2 smaller branches)

Crown Class: Co-dominant (there are 2 major scaffold branches that make up the crown.)

Value: Shade

The 19-inch Hackberry live crown is about 50%. There are 2 major scaffold branches left on the tree. The larger major scaffold branch end is gone causing secondary growth along the largest major scaffold branch. Secondary growth is not as beneficial to the tree's health as the original true branch. The other major scaffold branch further divides into 3 branches, 1 is gone and 2 true branches are present.

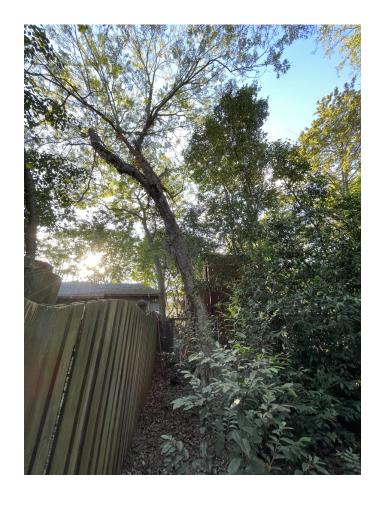
The foliage is chlorotic (yellowing), sparse, the twig growth is average, the callus wood development when branches are removed is poor and the tree vigor is fair (the tree's ability to form callus wood when branches fall off or when removed).

The base of the tree trunk has a natural 20 degree lean to the southwest. Further up the stem the top of the larger scaffold branch leans a further 10 degrees to the southwest. The prevailing wind direction in the Raleigh area is from the South in the Summer and from the North in the Winter. Due to the natural lean, the crown of the tree is over the backyards of two of the neighboring properties. One neighbor has a constructed outdoor play area for their children and the other neighbor has outdoor furniture arranged partially under the tree. There is no decay in the buttress roots or lower trunk or upper stem that I detected from a ground inspection. The buttress roots are growing around bricks. There is an old wire fence along the property line growing into the buttress roots and lower trunk.

The site was previously a residence, the buildings have been removed. The 19-inch Hackberry tree is being evaluated because the site is proposed to be developed with a garage. The garage top left corner is proposed to be located approximately 5 ft. east of the tree and 3 ft. north of the tree. The area for grading, excavation, and ground preparation for the garage will remove 25% of the critical root zone (23.75 ft. for 19-inch dbh tree) of the tree. (The critical root zone used by the City of Raleigh for development purposes is 1.25 ft./inch diameter). There are 12 visible buttress roots/root flairs, 4 of those will most likely be affected by the garage. These 4 roots are on the backside of the lean.

Recommendation:

Due to the 20 degree natural trunk lean to the SW toward the neighboring property, the roots affected opposite the lean, the unhealthy large scaffold branch, chlorotic foliage and the poor vigor of the tree, and the 25% root disturbance my recommendation is to remove the 19-inch dbh Hackberry tree.











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Nyssa sylvatica

Common Name(s): Blackgum; Black Gum; Black Tupelo; Common Tupelo Tree;

<u>Cotton Gum; Nyssa; Pepperidge; Sour Gum; Tupelo</u> Previously known as: Nyssa canadensis; Nyssa caroliniana; Nyssa sylvatica var. aquatica

Phonetic Spelling

NIH-suh sil-VAT-i-ka

Description

Black gum or black tupelo is a medium-sized, native deciduous tree in the tupelo family (Nyssaceae). Its native range includes southern Ontario to the Central and Eastern United States, and Mexico. In the mountains of North Carolina, Tennessee, Virginia, and Georgia. Growing throughout North Carolina in dry upland forests, occasionally in bottomlands, savannas, swamp margins, and upland depressions that are occasionally flooded. It can also be found in the hills and mountains on dry slopes with oaks and hickories. The black gum is grown as an ornamental for its beautiful, scarlet red, fall color and for its shiny, dark green leaves in the summer. The specific epithet, *sylvatica*, means "of the woods."

The tree prefers average, medium to wet soils in full sun. It prefers moist, acidic soils, but is adaptive and tolerates poorly-drained soils and standing water, some drought, and some dry soils, at least in the wild. It tolerates many soil types and moisture conditions, but is slow-growing, reaching about 12 to 15 feet in about ten years, growing faster with a good watering and fertilizer schedule.

The black gum reaches a mature size of 40 to 70 feet tall but typically reaches 20 to 30 feet in cultivation. Trunk diameter is typically 1 to 2 feet but can reach 4 to 5 feet in taller specimens. It has a flowering habit that is dioecious, meaning a male and female tree are required to produce fruit. However, some plants have mostly male flowers while others have mostly female flowers, with most plants having a few perfect flowers. This would account for some plants being loaded with egg-shaped blue-black berries, while others may only have a few berries. Female trees need a male pollinator to set fruit. The nectar from the flowers is sought after by bees and tupelo honey is highly prized.

This tree is an excellent choice to support wildlife in the landscape. However, it should be sited in a permanent location because its long taproot makes it difficult to transplant later. It is tolerant of drought, heat, dry, and wet soils, and is moderately salt tolerant, but it is intolerant to alkaline soils. It withstands wind, ice, and salt spray in coastal locations. Black gum is a good street tree, specimen, and shade tree. The spectacular fall foliage color will add interest to your landscape.

Quick ID Hints:

- · deeply furrowed bark
- leaf shape elliptic to obovate, dark green upper surface, pale green undersides
- brilliant fall foliage colors of yellow, orange, purple, and red
- entire margins to Irregular coarse teeth near the tips of some leaves
- $\bullet\,$ branches held more or less 90 degrees to the main stem
- · bluish-black drupes from September to October
- chambered pith
- · vascular bundles in the leaf scar

Insects, Diseases, or Other Plant Problems: Leaf miners and scale are occasional insect pests. It has some susceptibility to leaf spots, cankers, and rust. it has been recently found that a number of the black gum trees have been dying. There was evidence of leaf spots and cankers, but the cause has not been determined.

Key to Nyssa

VIDEO created by Grant L. Thompson for "Trees, Shrubs, and Woody Vines for Landscaping" a plant identification course offered by the Department of Horticulture at Iowa State University.

Mountain Ridge Top Garden - East Lawn and Lower Drive Border

Mountain Ridge Top Garden - North Lawn and Upper Drive Border

Mountain Ridge Top Garden - North Woods | Mountain Ridge Top Garden - West Meadow and Woods

Paths & Walkways



Nyssa sylvatica Jim Robbins CC BY-NC-ND 4.0 Download Image



Nyssa sylvatica Bark Jim Robbins CC BY-NC-ND 4.0 <u>Download Image</u>

Nyssa sylvatica 'Sparkler' Form Jim Robbins CC BY-NC-ND 4.0 Download Image

Cultivars / Varieties:

Afterburner® ('David Odom'), 'Autumn Cascades', Fire Starter® ('JFS-Red'), 'Green Gable', 'Miss Scarlet', 'Red Rage', 'Red Splyndor', 'Sheri's Cloud', 'Snow Flurries', 'Sparkler', Swamp Tupelo, var. biflora, 'Wildfire', 'Zydeco Twist'

3 of 7 10/10/2025, 9:26 AM

Attributes:

Genus:

Nyssa

Species:

sylvatica

Family:

Nyssaceae

Uses (Ethnobotany):

Wood is tough, cross-grained, hard to work, and warps easily. It is often used for crates, cross ties, rough floors, and pulpwood.

Life Cycle:

Perennial

Woody

Recommended Propagation

Strategy:

Layering

Seed

Country Or Region Of Origin:

Southern Ontario, Central and Eastern United States, and Mexico

Distribution:

Native: United States—AL, AR, CT, FL, GA, IL KS, KY, LA, ME, MA, MI, MS, MO, NH, NJ, NY, NC, OH, OK, PA, RI, SC, TN, TX, VT, VA, and WI; Canada—Ontario; Mexico—Mexico Central, Mexico Gulf, Mexico Northeast, and Mexico Southeast.

Fire Risk Rating:

low flammability

Wildlife Value:

Its young sprouts are eaten by white-tailed deer. The fruits (berries) are enjoyed by thrushes and other songbirds, wild turkeys, black bear, foxes, raccoons and opossums from August through October. It is one of the most important food sources for fall song bird migration. The natural hollows that form in the tree are a refuge for reptiles, tree frogs, bats and other wildlife. The spring flowers are a nectar source for bees.

Play Value:

Attracts Pollinators

Colorful

Wildlife Food Source

Particularly Resistant To (Insects/ Diseases/Other Problems):

Resistant to fire. This tree is somewhat resistant to deer

damage.

Edibility:

Fruit can be eaten raw or cooked. Produces a thin sharply acid pulp that is pleasant to roll in the mouth as a masticatory, it is also used in preserves. The honey bees produce from the flowers of this tree is highly prized.

Dimensions:

Height: 40 ft. 0 in. - 70 ft. 0 in. Width: 20 ft. 8 in. - 35 ft. 6 in.

Whole Plant Traits:

Plant Type:

Native Plant

Tree

Woody Plant Leaf Characteristics:

Deciduous

Habit/Form:

Columnar

Irregular

Open

Pyramidal

Rounded

Spreading

Growth Rate:

Medium

Maintenance:

Low

Texture:

Medium

Cultural Conditions:

Light:

Full sun (6 or more hours of direct sunlight a day)

Soil Texture:

Clay

Loam (Silt)

Sand

Soil pH:

Acid (<6.0)

Neutral (6.0-8.0)

Soil Drainage:

Good Drainage

Moist

Occasional Flooding

Occasionally Dry

Occasionally Wet

Available Space To Plant:

12-24 feet

24-60 feet

NC Region:

Coastal

Mountains

Piedmont

USDA Plant Hardiness Zone:

4a, 4b, 5a, 5b, 6a, 6b, 7a, 7b, 8a, 8b, 9a, 9b

4 of 7

Fruit:

Fruit Color:

Black

Blue

Fruit Value To Gardener:

Edible

Display/Harvest Time:

Fall

Summer

Fruit Type:

Drupe

Fruit Length:

< 1 inch

Fruit Width:

< 1 inch

Fruit Description:

Female trees only. From late summer to fall, the tree produces green drupes that ripen to bluishblack, round to oval, 3/8 to 1/2-inch long, and clustered on stalks up to 1 1/2 inches long. Thin, bitter-smelling flesh surrounds the small, ribbed seeds. The fruits are edible but sour. Birds and small mammals enjoy the drupes.

Flowers:

Flower Color:

Green

White

Flower Inflorescence:

Insignificant

Umbel

Flower Bloom Time:

Spring

Summer

Flower Size:

< 1 inch

Flower Description:

The tree is dioecious and requires male and female plants to produce fruits. The flowers bloom in the spring from May to June; they are not showy. They are small, greenish-yellow, and occur in small clusters. An individual flower is about 1/8 of an inch in diameter.

Leaves:

Woody Plant Leaf Characteristics:

Deciduous

Leaf Color:

Green

Leaf Feel:

Glossy

Leathery

Waxy

Leaf Value To Gardener:

Showy

Deciduous Leaf Fall Color:

Gold/Yellow

Orange

Purple/Lavender

Red/Burgundy

Leaf Type:

Simple

Leaf Arrangement:

Alternate

Leaf Shape:

Elliptical

Obovate

Leaf Margin:

Dentate

Entire

Hairs Present:

Yes

Leaf Length:

3-6 inches

Leaf Width:

1-3 inches

Leaf Description:

Leaves are dark green on the upper surface, paler green on the undersides, 3 to 6 inches long and 1/2 to 3 inches wide, alternate, elliptic to obovate, blunt points, and are pubescent along the veins. Leaves turn yellow, orange, red, or purple in the fall. On sprouts or young trees, the leaves may have a few coarse teeth. The petiole is 0.5 to 1-inch long and reddish

Bark:

Bark Color:

Black

Dark Brown

Light Gray

Surface/Attachment:

Furrowed

Ridges

Bark Plate Shape:

Rectangle

Square

Bark Description:

The bark is gray, brown to black, and deeply furrowed to create rectangular or square ridges (cobbled). The bark on younger trees is furrowed between flat ridges and matures into quadrangular blocks that are dense, hard, and nearly black.

Stem:

Stem Color:

Brown/Copper

Gray/Silver

Stem Is Aromatic:

No

Pith (Split Longitudinally):

Chambered

Stem Description:

The twig color is gray to brown. The slender limbs grow at right angles to the trunk.

Landscape:

Landscape Location:

Coastal

Lawn

Naturalized Area

Riparian

Woodland

Landscape Theme:

Drought Tolerant Garden

Native Garden

Nighttime Garden

Pollinator Garden

Rain Garden

Water Garden

Design Feature:

Shade Tree

Specimen

Street Tree

Attracts:

Bees

Frogs

Pollinators

Reptiles

Small Mammals

Songbirds

Specialized Bees

Resistance To Challenges:

Black Walnut

Deer

Drought

Dry Soil

Fire

Heat

Pollution

Salt

Wet Soil

Wind



6 of 7

7 of 7