

Meeting Agenda - Final

Board of Commissioners

Monday, December 5, 2022

6:00 PM

Historic Courthouse Courtroom

Oath of Office and Organization of the Board

Regular Session - 6:00 PM - Historic Courthouse Courtroom

NOTE: Anyone needing an accommodation to participate in the meeting should Notify the County Manager's Office at 919-542-8200 at least 24 hours prior to the meeting.

INVOCATION and PLEDGE OF ALLEGIANCE

CALL TO ORDER

OATHS OF OFFICE

<u>22-4578</u>

Swearing in of Newly Elected Commissioners David Delaney, Franklin Gomez Flores, and Katie Kenlan

ORGANIZATION OF THE BOARD

22-4577 Election of Chair and Vice Chair

APPROVAL OF AGENDA and CONSENT AGENDA

The Board of Commissioners uses a Consent Agenda to act on non-controversial routine items quickly. The Consent Agenda is acted upon by one motion and vote of the Board. Items may be removed from the Consent Agenda and placed on the Regular Agenda at the request of a Board member or resident. The Consent Agenda contains the following items:

<u>22-4566</u>

Vote to adopt a resolution amending the schedule of regular meetings of the Chatham County Board of Commissioners for calendar year 2022.

Attachments: RES Amending Schedule of Regular Meetings 2022

22-4567

Vote to adopt a resolution amending the schedule of regular meetings of the Chatham County Board of Commissioners for calendar year 2023

Attachments: 2023 BOC Meeting Calendar Resolution

<u>22-4568</u>

Vote on a request to approve a contract with Motorola Solutions Inc. in the amount of \$888,655.64 for MCC7500E radio consoles and upgrades at the 911 center and authorize the county manager to execute the contract.

<u>22-4570</u>	Vote to approve competitive bid exemption and sole source for
	CentralSquare Technologies, LLC in the amount of \$43,225.00 for the
	CAD-to-CAD Unify product.

Vote to take and approve the official bond for Sheriff Mike Roberson as Chatham County Sheriff in accordance with NCGS 162-9.

Attachments: Travelers Bond for Sheriff

End of Consent Agenda

SPECIAL PRESENTATION

Vote on a request to adopt a Resolution Recognizing "Bushel & A Peck Day" for Kenzie Scoggins

Attachments: Bushel and a Peck Day Resolution

PUBLIC INPUT SESSION

The Public Input Session is held to give residents an opportunity to speak on any item. The session is no more than thirty minutes long to allow as many as possible to speak. Speakers are limited to no more than three minutes each and may not give their time to another speaker. Speakers are required to sign up in advance. Individuals who wish to speak but cannot because of time constraints will be carried to the next meeting and given priority. We apologize for the tight time restrictions. They are necessary to ensure that we complete our business. If you have insufficient time to finish your presentation, we welcome your comments in writing.

BOARD PRIORITIES

22-4573 Receive final Recommendations from the Tree Protection Working Group

<u>Attachments:</u> <u>Tree Protection Recommendations Powerpoint</u>

Tree Protection Working Group Recommendations

CLERK'S REPORT

MANAGER'S REPORT

COMMISSIONERS' REPORTS

<u>ADJOURNMENT</u>

RECEPTION

A light reception will be held immediately following the meeting on the first floor of the Historic Courthouse



Text File

File Number: 22-4578

Agenda Date: 12/5/2022 Version: 1 Status: Board Priorities

In Control: Board of Commissioners File Type: Agenda Item

Swearing in of Newly Elected Commissioners David Delaney, Franklin Gomez Flores, and Katie Kenlan



Text File

File Number: 22-4577

Agenda Date: 12/5/2022 Version: 1 Status: Board Priorities

In Control: Board of Commissioners File Type: Agenda Item

Election of Chair and Vice Chair



Text File

File Number: 22-4566

Agenda Date: 12/5/2022 Version: 2 Status: Approval of Agenda and

Consent Agenda

In Control: Board of Commissioners File Type: Resolution

Vote to adopt a resolution amending the schedule of regular meetings of the Chatham County Board of Commissioners for calendar year 2022.



CHATHAM COUNTY COMMISSIONERS

COUNTY MANAGER Dan LaMontagne

Karen Howard, Chair Franklin Gomez Flores, Vice Chair Mike Dasher Diana Hales Robert Logan

P. O. Box 1809, Pittsboro, NC 27312-1809 • Phone: (919) 542-8200

Established 1771

Resolution of the Chatham County Board of Commissioners

AMENDING THE SCHEDULE OF REGULAR MEETINGS OF THE CHATHAM COUNTY BOARD OF **COMMISSIONERS FOR CALENDAR YEAR 2022**

WHEREAS, G. S. § 153A-40 provides the manner by which the Board of Commissioners may establish regular meeting dates; and

WHEREAS, in order that the Board, staff and public may plan as far in advance as is practical and reasonable the Board of Commissioners has deliberated the establishing of a meeting schedule for calendar year 2022; and

WHEREAS, the Board believes that this is the most appropriate manner to schedule the meetings to conduct the public's business.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the County of Chatham, North Carolina that:

SECTION 1. The meeting schedule shown as Attachment A to this resolution shall be the official schedule of regular meetings for the Chatham County Board of Commissioners for calendar year 2022.

SECTION 2. Said schedule shall be posted in a location at or near the Historic Courthouse, the place of the Board of Commissioners' regular meetings; be distributed to the local news media and be kept on file by the Clerk to the Board of Commissioners in the County Manager's Office.

SECTION 3. Any subsequent changes to those scheduled shall be made, posted, and distributed in accordance with G. S. § 153A-40 and G. S. § 143-318.12.

Adopted, this the 5 th day of December 2022.	
	Karen Howard, Chair
	Chatham County Board of Commissioners

ATTEST:
Lindsay K. Ray, NCMCC, Clerk to the Board
Chatham County Board of Commissioners

Chatham County Board of Commissioners' Official Schedule for Regular Meetings

Chatham County Board of Commissioner Meetings consist of two parts, a workshop at 2pm or such later time dependent on the amount of time needed for the workshop, and the regular business agenda which will begin at 6pm. The Board reserves the right to cancel meetings the first Monday of the month if there is insufficient business to warrant a meeting. The Board will not hold a meeting the first Monday in January, July or September.

	pard will not hold a meeting the first Monday in January, July or S	
Date	Day/Time	Location
*January 11 th	Tuesday at 9:00 AM	Ag Center
* BOC Retreat		
*January 12 th	Wednesday at 9:00 AM	Ag Center
* BOC Retreat		
*January 14 th	Friday at 9:00 AM	Ag Center
* BOC Retreat		
*January 18 th	Tuesday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
*MLK Holiday Jan 17 th		
*January/February	TBD	TBD
* Legislative Breakfast		
February 7 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
February 21st	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
March 7 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
March 21 st	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
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April 4 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
Арш т	Work Session at 2.00 1 W, Regular Session at 0.00 1 W	Thistoric Courthouse
April 18 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
April 18	Wioliday Work Session at 2.00 FW, Regular Session at 0.00 FW	Historic Courtilouse
*N4 2rd	Manufact World Carrier at 2,00 DM Danular Carrier at 6,00 DM	III:-4- ni - C4h
*May 2 rd *Present the Budget	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
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*May 16 th *Budget Public Hearing	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
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*May 17 th	Budget Public Hearing in Siler City at 6:00 PM	Wren Library
*Budget Public Hearing		
*May 24 th	Tuesday at 9:00 AM	Ag Center
*Budget Work Session		
*May 25 th	Wednesday at 9:00 AM	Ag Center
*Budget Work Session		
*May 26 th	Thursday at 9:00 AM	Ag Center
*Budget Work Session		
June 6 th	Monday Work Session at 1:00 PM, Regular Session at 6:00 PM	Historic Courthouse
June 21st	Tuesday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
*Juneteenth Holiday Observed		
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	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
July 18 th		
July 18 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse Historic Courthouse
July 18 th August 24 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
July 18 th August 24 th		
July 18 th August 24 th September 19 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse Ag Center
July 18 th August 24 th September 19 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
July 18 th August 24 th September 19 th October 17 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM Monday Work Session at 2:00 PM, Regular Session at 6:00 PM Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse Ag Center Ag Center
July 18 th August 24 th September 19 th October 17 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse Ag Center
July 18 th August 24 th September 19 th October 17 th *November 7 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM Monday Work Session at 2:00 PM, Regular Session at 6:00 PM Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse Ag Center Ag Center
July 18 th August 24 th September 19 th October 17 th *November 7 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM Monday Work Session at 2:00 PM, Regular Session at 6:00 PM Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse Ag Center Ag Center
July 18 th August 24 th September 19 th October 17 th *November 7 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM Monday Work Session at 2:00 PM, Regular Session at 6:00 PM Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse Ag Center Ag Center
June 20 th July 18 th August 24 th September 19 th October 17 th *November 7 th *Present the CIP	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM Monday Work Session at 2:00 PM, Regular Session at 6:00 PM Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse Ag Center Ag Center

*November 21st	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Ag Center
*CIP Public Hearing		
December 5 th	Regular Session at 6:00 PM	Historic Courthouse
*Oath of Office for newly elected co	ommissioners	
December 13th	Tuesday at 9: 00 AM	Ag Center
*CIP Work Session		
December 19th	Monday Work Session at 1:00 PM, Regular Session at 6:00 PM	Ag Center
*January 17 th , 2023	Tuesday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
*MLK Holiday Jan 16 th		

Holiday	Observance Date	Day of Week
New Year's Day	December 31, 2021	Friday
MLK, Jr. Birthday	January 17, 2022	Monday
Good Friday	April 15, 2022	Friday
Memorial Day	May 30, 2022	Monday
Juneteenth	June 20, 2022	Monday
Independence Day	July 4, 2022	Monday
Labor Day	September 5, 2022	Monday
Veterans Day	November 11, 2022	Friday
Thanksgiving	November 24 & 25, 2022	Thursday & Friday
Christmas	December 23, 26 & 27, 2022	Friday, Monday, & Tuesday



Text File

File Number: 22-4567

Agenda Date: 12/5/2022 Version: 1 Status: Approval of Agenda and

Consent Agenda

In Control: Board of Commissioners File Type: Resolution

Vote to adopt a resolution amending the schedule of regular meetings of the Chatham County Board of Commissioners for calendar year 2023

CHATHAM COUNTY COMMISSIONERS





Karen Howard, Chair Franklin Gomez Flores, Vice Chair Mike Dasher Diana Hales Robert Logan

P. O. Box 1809, Pittsboro, NC 27312-1809 • Phone: (919) 542-8200

Established 1771

Resolution of the Chatham County Board of Commissioners

AMENDING THE TIME AND PLACE FOR MEETINGS OF THE CHATHAM COUNTY BOARD OF COMMISSIONERS FOR CALENDAR YEAR 2023

WHEREAS, G. S. § 153A-40 provides the manner by which the Board of Commissioners may establish regular meeting dates; and

WHEREAS, in order that the Board, staff and public may plan as far in advance as is practical and reasonable the Board of Commissioners has deliberated the establishing of a meeting schedule for calendar year 2023; and

WHEREAS, the Board believes that this is the most appropriate manner to schedule the meetings to conduct the public's business.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the County of Chatham, North Carolina that:

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SECTION 2. Said schedule shall be posted in a location at or near the Historic Courthouse, the place of the Board of Commissioners' regular meetings; be distributed to the local news media and be kept on file by the Clerk to the Board of Commissioners in the County Manager's Office.

SECTION 3. Any subsequent changes to those scheduled shall be made, posted, and distributed in accordance with G. S. § 153A-40 and G. S. § 143-318.12.

Adopted, this theday of2022.	
	Karen Howard, Chair
	Chatham County Board of Commissioners
ATTEST:	
Lindsay K. Ray, NCMCC, Clerk to the	Board
Chatham County Roard of Commission	

Chatham County Board of Commissioners' Official Schedule for Regular Meetings

Chatham County Board of Commissioner Meetings consist of two parts, a workshop at 2pm or such later time dependent on the amount of time needed for the workshop, and the regular business agenda which will begin at 6pm. The Board reserves the right to cancel meetings the first Monday of the month if there is insufficient business to warrant a meeting. The Board will not hold a meeting the first Monday in January, July or September.

Date	ard will not hold a meeting the first Monday in January, July or S Day/Time	Location
*January 10 th	Tuesday at 9:00 AM	
* BOC Retreat	Tuesday at 9:00 AM	Ag Center
*January 11 th	W-114 0.00 AM	A = Courtou
*BOC Retreat	Wednesday at 9:00 AM	Ag Center
	T1 1 +0.00 AM	A G 4
*January 12 th	Thursday at 9:00 AM	Ag Center
* BOC Retreat	To the Wilder to a construction of the constru	
*January 17 th	Tuesday Work Session at 2:00 PM, Regular Session at 6:00 PM	Ag Center
*MLK Holiday Jan 16 th		
*January/February	TBD	TBD
* Legislative Breakfast		
February 6 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Ag Center
February 20 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Ag Center
March 6 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Ag Center
March 20 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Ag Center
<u>-</u>	,	5
April 3 rd	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
April 17 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
*May 1 st	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
*Presention of the Budget		
*May 15 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
*Budget Public Hearing	, , ,	
*May 16 th	Budget Public Hearing in Siler City at 6:00 PM	TBD
*Budget Public Hearing		
*May 23rd	Tuesday at 9:00 AM	TBD
*Budget Work Session	,	
*May 24 th	Wednesday at 9:00 AM	TBD
*Budget Work Session		122
*May 25 th	Thursday at 9:00 AM	TBD
*Budget Work Session	Thurbady at 7.00 Thir	122
June 5 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
June 20 th	T 1 W 1 C : (200 DM D 1 C : (600 DM	П. т. С - 4
*Juneteenth Holiday June 19 th	Tuesday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
"Juneteenth Honday June 19"		
July 17 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
August 7th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
August 21st	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
September 18 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
October 2 nd	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
October 16 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
*November 6 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
*Presentation of the CIP	, , , , , , , , , , , , , , , , , , , ,	1

*November 20 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
*CIP Public Hearing		
*November 21st	Tuesday at 9:00 AM	TBD
*CIP Work Session		
December 18 th	Monday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
*January 16 th , 2024	Tuesday Work Session at 2:00 PM, Regular Session at 6:00 PM	Historic Courthouse
*MLK Holiday Jan 15 th		

Holiday	Observance Date	Day of Week
New Year's Day	January 2, 2023	Monday
MLK, Jr. Birthday	January 16, 2023	Monday
Good Friday	April 7, 2023	Friday
Memorial Day	May 29, 2023	Monday
Juneteenth	June 19, 2023	Monday
Independence Day	July 4, 2023	Tuesday
Labor Day	September 4, 2023	Monday
Veterans Day	November 10, 2023	Friday
Thanksgiving	November 23 & 24, 2023	Thursday & Friday
Christmas	December 25, 26 & 27, 2023	Monday, Tuesday & Wednesday



Text File

File Number: 22-4568

Agenda Date: 12/5/2022 Version: 1 Status: Approval of Agenda and

Consent Agenda

In Control: Emergency Operations File Type: Agenda Item

Vote on a request to approve a contract with Motorola Solutions Inc. in the amount of \$888,655.64 for MCC7500E radio consoles and upgrades at the 911 center and authorize the county manager to execute the contract.

Introduction & Background: This is part of the approved CIP project for the county-wide Motorola P25 radio system upgrade. This also relates to the new EOC CIP project because we are upgrading existing hardware licenses and adding equipment to the new building. MCC7500E's are radio dispatch consoles and are critical equipment for the 911 center.

Discussion & Analysis: The new EOC allows for additional dispatch positions, and this requires the purchase of additional radio dispatch consoles. We are upgrading the licenses for the current radio dispatch console equipment and will relocate them to the new building. This equipment will be purchased off state contract.

How does this relate to the Comprehensive Plan: Ensure public safety through adequate resources, plans, and partnerships to keep people and property safe.

Budgetary Impact: \$888,655.64

Recommendation/Motion: Motion to approve a contract with Motorola Solutions Inc. in the amount of \$888,655.64 for MCC7500E radio consoles and upgrades at the 911 center and authorize the county manager to execute the contract.



Text File

File Number: 22-4570

Agenda Date: 12/5/2022 Version: 1 Status: Approval of Agenda and

Consent Agenda

In Control: Emergency Operations File Type: Agenda Item

Vote to approve competitive bid exemption and sole source for CentralSquare Technologies, LLC in the amount of \$43,225.00 for the CAD-to-CAD Unify product.

Introduction & Background: Emergency Communications uses computer aided dispatch (CAD) systems in the 9-1-1 center to process and dispatch emergency and non-emergency calls for service. To improve efficiency and interoperability with neighboring 9-1-1 centers, these CAD systems, which may be from different vendors, need to be connected in order to pass information between the CAD systems. The CentralSquare CAD-to-CAD Unify product provides this connection in a hosted environment.

Discussion & Analysis: North Carolina General Statute 143-129(e)(6) authorizes local governments to purchase without bidding when standardization is the overriding consideration and price competition for a product is not available. The CentralSquare CAD-to-CAD Unify product is used by Raleigh-Wake 911 and Cary 911. In order to connect our CAD systems with them, we will need to use this product.

How does this relate to the Comprehensive Plan: Ensure public safety through adequate resources, plans, and partnerships to keep people and property safe.

Budgetary Impact: \$43,225.00

Recommendation/Motion: Motion to approve competitive bid exemption and sole source for CentralSquare Technologies, LLC in the amount of \$43,225.00 for the CAD-to-CAD Unify product.



Text File

File Number: 22-4571

Agenda Date: 12/5/2022 Version: 1 Status: Approval of Agenda and

Consent Agenda

In Control: Sheriff's Office File Type: Agenda Item

Vote to take and approve the official bond for Sheriff Mike Roberson as Chatham County Sheriff in accordance with NCGS 162-9.

Action Requested: Vote on a request to approve the annual renewal of the bond for Sheriff Mike Roberson as Chatham County Sheriff.

Introduction & Background: NC General Statute (NCGS) 162-9 requires that the Board of Commissioners approve the official bond of the Sheriff. NCGS 162-8 requires that the Sheriff furnish a bond payable to the State of North Carolina for execution and return of process, payment of fees collected, and faithful execution of his office as Sheriff upon his election. This bond, issued by Travelers Casualty and Surety Company of America, is presently renewed on an annual basis each May.

Recommendation: Approve the annual renewal of the bond for Sheriff Mike Roberson as Chatham County Sheriff.



Travelers Casualty and Surety Company of America Hartford, CT 06183

CONTINUATION CERTIFICATE FIDELITY OR SURETY BONDS/POLICIES

T NI	TAT / A	
License No.	N/A	

In consideration of \$250.00 dollars renewal premium, the term of Bond/Policy No. 106910534 in the
amount of \$25,000.00 , issued on behalf of MICHAEL RAY ROBERSON ,
whose address is 237 WOODBERRY FOREST, PITTSBORO, NC 27312
in favor of State of North Carolina
whose address is 12 East Street
in connection with Public Official Bond is hereby extended to May 16, 2023
subject to all covenants and conditions of said bond/policy.
This certificate is designed to extend only the term of the bond/policy. It does not increase the amount which may be payable thereunder. The aggregate liability of the Company under the said bond/policy together with this certificate shall be exactly the same as, and no greater than it would have been, if the said bond/policy had originally been written to expire on the date to which it is now being extended.
Signed, sealed and dated April 27, 2020

TRAVELERST

Megan Unsworth

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

Travelers Casualty and Surety Company of America

Travelers Casualty and Surety Company of America ("Travelers") hereby grants your agency (together with its employees, the "Agency") permission to use the electronic image of Travelers' corporate seal (the 'Digital Seal') subject to the following conditions as well as any other terms and conditions communicated to the Agency by Travelers:

- The Digital Seal shall be used solely for the purpose of electronically affixing a seal to surety bonds or related instruments authorized by Travelers and executed on behalf of Travelers by the Agency pursuant to a valid Power of Altorney;
- The Agency may not transfer the Digital Seal to any other person or entity without the written consent of Travelers; and
- Travelers may revoke permission to use the Digital Seal at any time.

Please note that, in making the Digital Seal available for use at your own discretion, Travelers is not making any representations about the extent to which any particular obligee will find the Digital Seal acceptable.

To download the Digital Seal, please click here.

By Robert L Raney Senior Vice President

Attorney-in-Fact

This notice provides no coverage, nor does it change any policy terms. To determine the scope of coverage and the insured's rights and duties under the policy, read the entire policy carefully. For more information about the content of this notice, the insured should contact their agent or broker. If there is any conflict between the policy and this notice, the terms of the policy prevail.

Independent Agent And Broker Compensation Notice

For information on how Travelers compensates independent agents, brokers, or other insurance producers, please visit this website: www.travelers.com/w3c/legal/Producer_Compensation_Disclosure.html.

Or write or call:

Travelers, Agency Compensation One Tower Square Hartford, Connecticut 06183

(866) 904.8348

NTC-19036 Rev. 01-19



Text File

File Number: 22-4576

Agenda Date: 12/5/2022 Version: 1 Status: Board Priorities

In Control: Board of Commissioners File Type: Resolution

Agenda Number:

Vote on a request to adopt a Resolution Recognizing "Bushel & A Peck Day" for Kenzie Scoggins

RESOLUTION RECOGNIZING "BUSHEL & A PECK DAY" FOR KENZIE SCOGGINS

- WHEREAS, Kenzie Wrenn Scoggins, a five-year-old resident of Siler City, Chatham County, North Carolina, was diagnosed on December 8, 2021 with an aggressive brain tumor called Childhood Diffuse Intrinsic Pontine Glioma (DIPG); and
- **WHEREAS,** DIPG forms within the brain stem, is inoperable, and currently has no cure with a statistic of having a 1% chance of living more than five years; and
- **WHEREAS**, As the tumor progresses, it puts pressure on the nerves that control the body's vital functions which slowly causes paralysis, yet those suffering remain fully aware; and
- **WHEREAS,** Kenzie Wrenn Scoggins underwent numerous treatments, tests, and appointments over nine months as she courageously fought for her young life; and
- WHEREAS, Kenzie Wrenn Scoggins passed away on September 18, 2022, in the comfort of her home; and
- **WHEREAS**, "A Bushel and a Peck" by Doris Day was Kenzie's favorite song, and December 17 is Kenzie's birthday.
- **NOW, THEREFORE, BE IT RESOLVED,** that the Chatham County Board of Commissioners proclaims December 17, 2022, as "Bushel & A Peck Day" in Chatham County in remembrance of Kenzie Wrenn Scoggins and to raise awareness of DIPG.

Adopted this 5th day of December 2022.



Text File

File Number: 22-4573

Agenda Date: 12/5/2022 Version: 1 Status: Board Priorities

In Control: Board of Commissioners File Type: Agenda Item

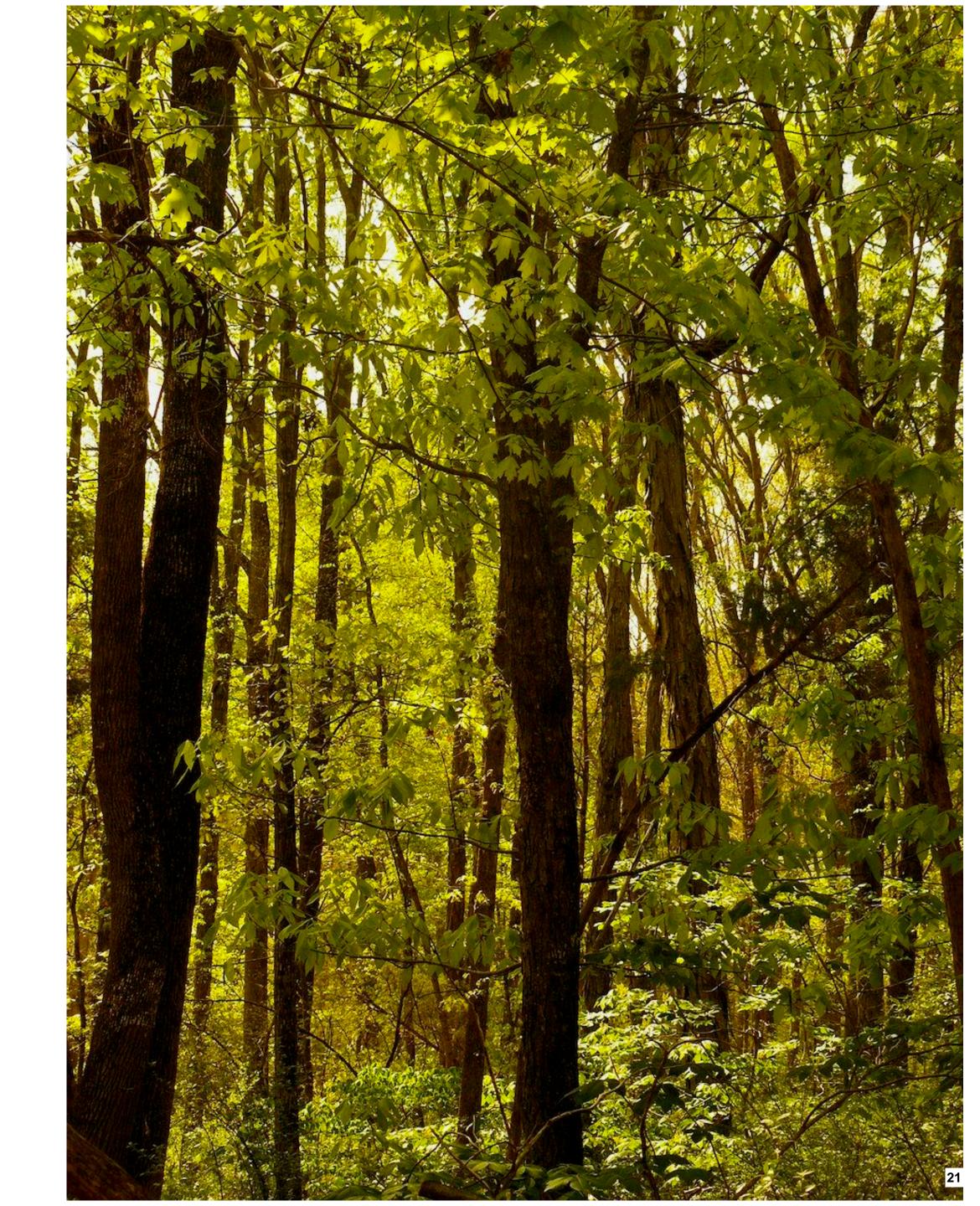
Agenda Number:

Receive final Recommendations from the Tree Protection Working Group

Recommendations for Chatham County Tree Protections for the Unified Development Ordinance

Chatham County
Tree Protection Working
Group

December 5, 2022



Introduction

The Tree Protection Working Group was approved by the Chatham County Board of Commissioners in May, 2022.

Its mission is to create recommendations to the BOC for new regulations to protect trees and forest cover in Chatham County that can be incorporated into the Unified Development Ordinance.

The Working Group is composed of 8 members from 4 advisory boards.

- Environmental Review Advisory Committee: Elaine Chiosso (Chair), Jeannie Ambrose, Heather Holley
- •Planning Board:
 George Lucier, Caroline Siverson
- •Climate Change Advisory Committee: John Graybeal, Alicia Koblansky
- •Grand Trees of Chatham Sharon Garbutt

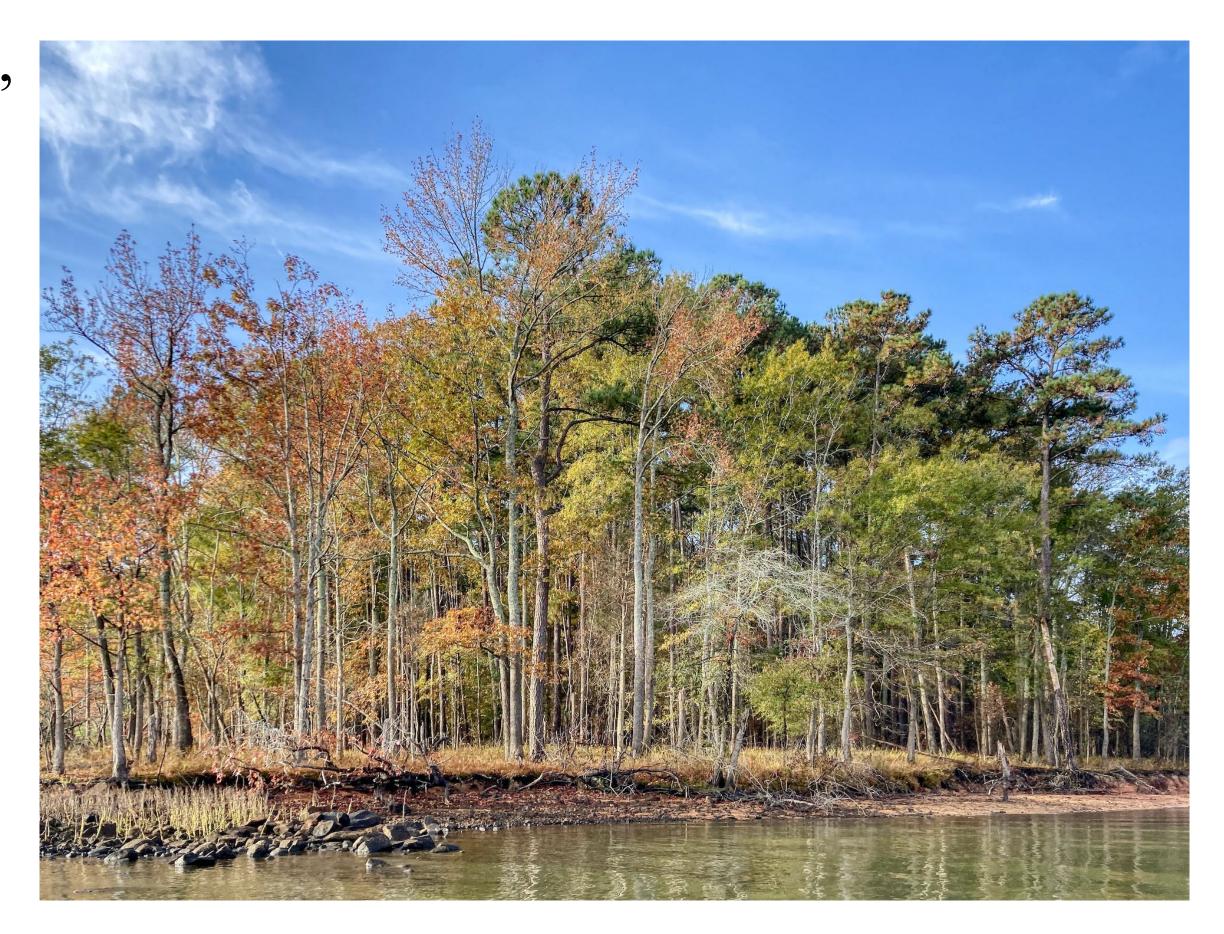
Need for Tree Protection

- From 2001 to 2021, Chatham County grew 66% from 51,482 people to 77,889.
- In that same period of time we lost 87,722 acres of forest land, equivalent to a 27% decrease in tree cover since 2000, and 14.9 metric tons of CO₂ emissions. This is higher than the 24% average loss during that time period in North Carolina as a whole.
- Chatham County is predicted to continue this rapid growth, and will lose more tree coverage unless protections are put in place.



Purposes for Tree Protection Rules

- Protecting air quality by absorbing pollutants
- Protecting water quality in our counties rivers, streams and lakes by reducing stormwater pollution and soil erosion
- Decreasing flooding by slowing stormwater runoff and recharging groundwater
- Protecting biodiversity and wildlife habitat and minimizing forest fragmentation
- Moderating temperature by providing shade and increasing energy conservation
- Sequestering carbon dioxide to reduce and mitigate climate change



Recommendation #1

Chatham County Tree Arborist

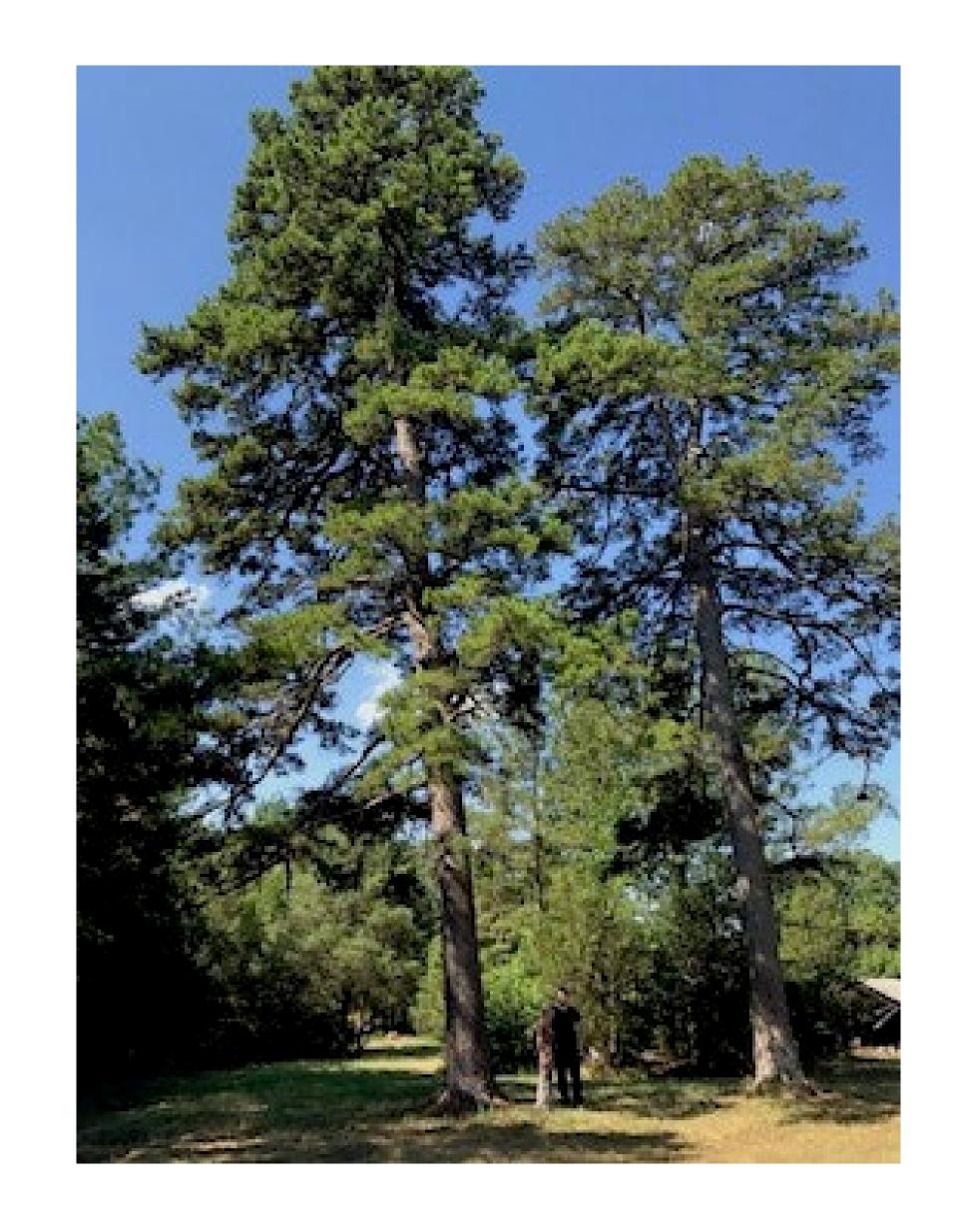
- We recommend that Chatham County hire a tree arborist certified by the International Society of Arboriculture to oversee tree protection elements in the UDO and to work with developers to meet regulations on tree protection.
- The arborist should be a full-time position within the Planning Department.



Recommendation #2

Minimum Tree Canopy Coverage Area Rules

- All new development must conserve the required percentages of tree canopy depending on zoning classifications.
- Stream buffers required by the Chatham County Watershed Protection Ordinance shall not be counted as part of the tree canopy area minimum requirements.
- Replacement plantings for minimum tree canopy coverage area are required for developments built on former pasture, crop or other cleared land.



Minimum Tree Canopy Percentages in UDO Zoning Classifications

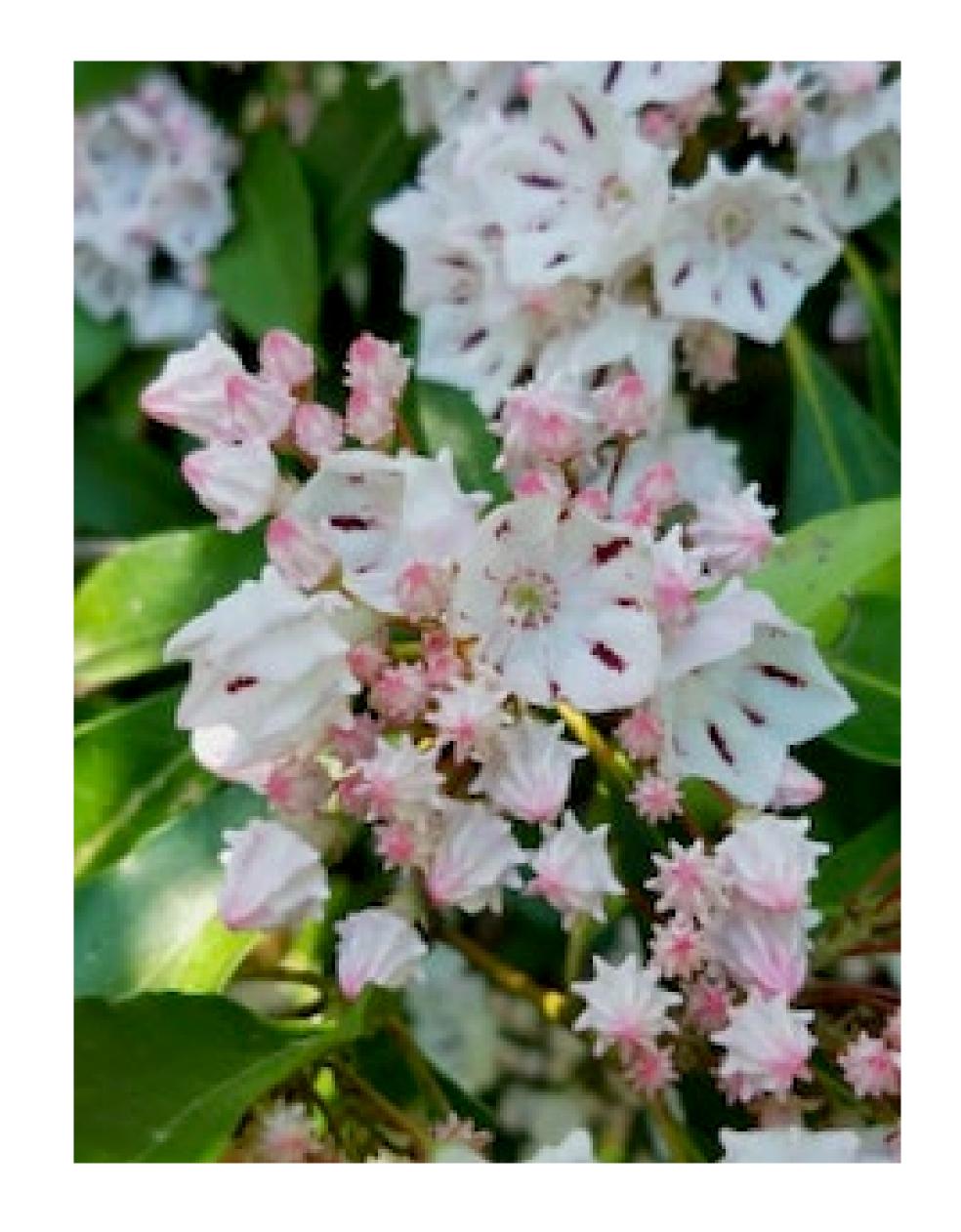
(Based on current probable zoning classifications under review)

Residential Zones	Percentage Canopy
Parks	50
Protected Lands	70
Agricultural subdivision	20
Conservation Residential	60
Rural Residential	35
Suburban Residential	25
Compact Residential	20

Percentage Canopy
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Recommendation #3 Replacement Trees to Meet Minimum Tree Canopy Percentages

- Standards for replacement trees, including density, caliper size and height shall be determined by the type and size of tree at maturity.
- Native trees and shrubs shall be selected from the list provided by the county arborist, unless approved by the county arborist.
- Invasive non-native species shall not be used as replacement plantings.

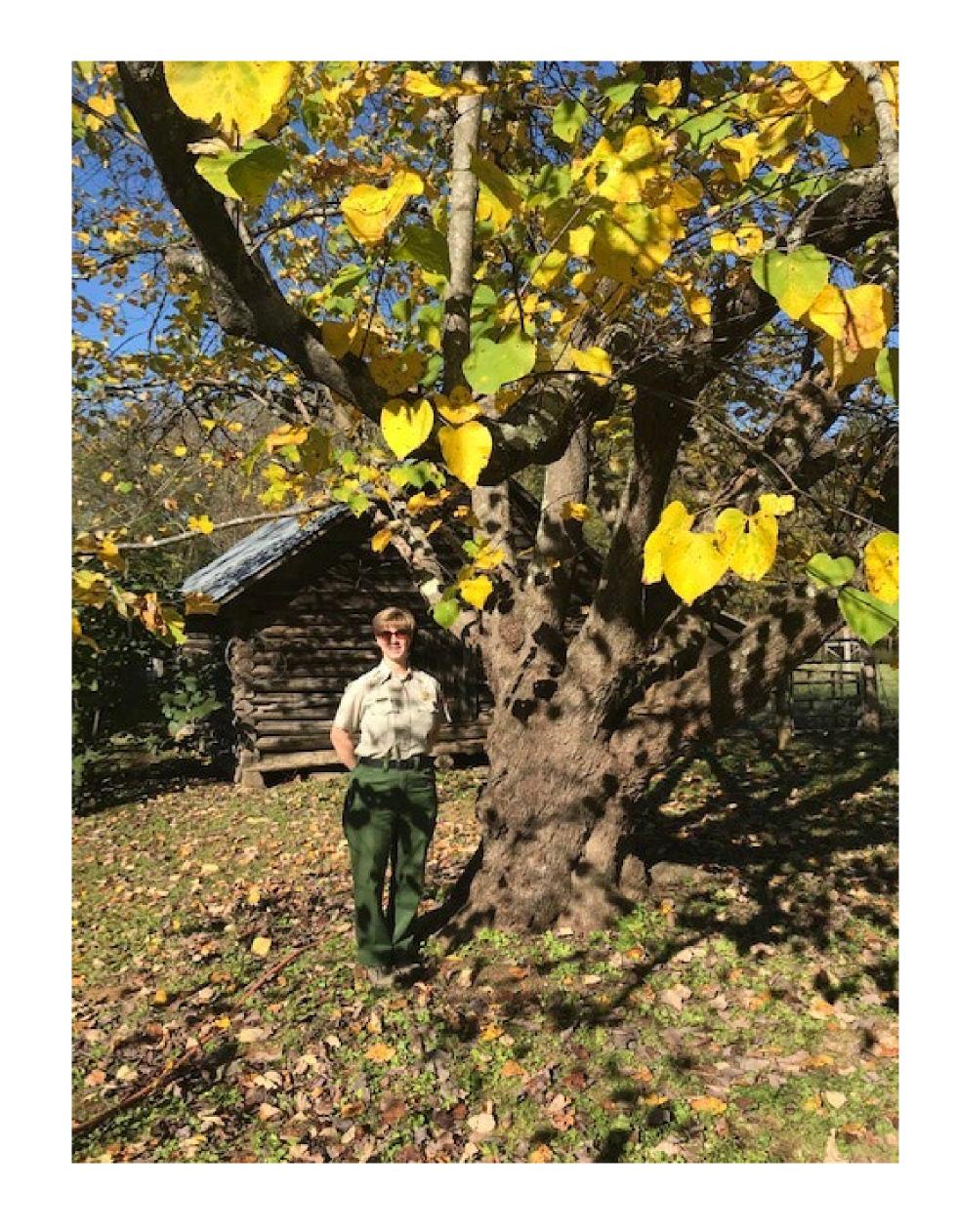


Recommendation #4

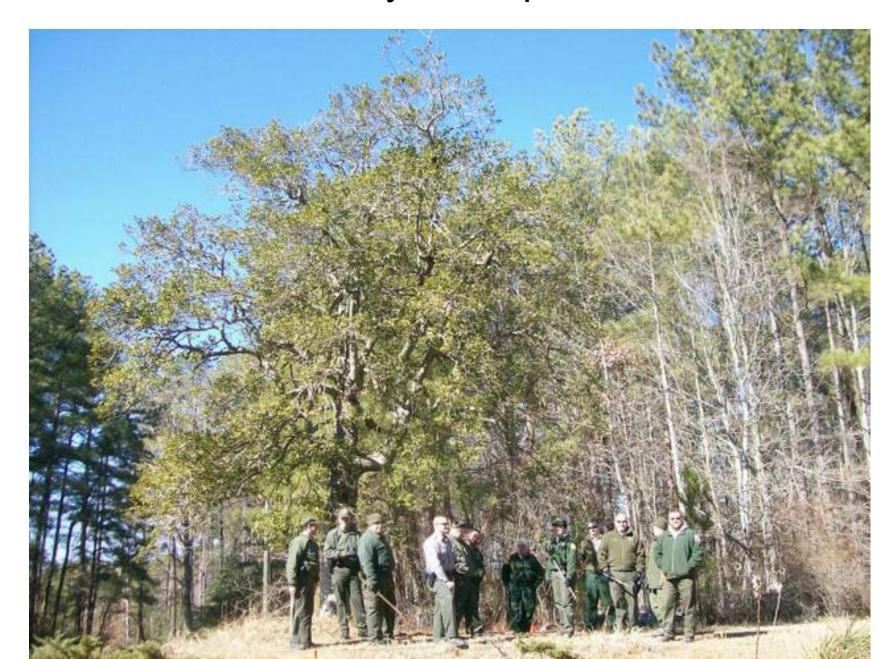
Protection and Classification of "Grand Trees"

We recommend that the four categories of trees used by Grand Trees of Chatham be protected and preserved during development.

- Champion Trees: Selected based on their large size for that particular species.
- **Historic Trees:** At least 50 years old and associated with a significant historical event or location.
- Landmark Trees: Remarkable natural groupings or communities of trees
- **Meritorious Trees:** Special trees in a variety of situations.



Chatham County Champion Willow Oak



Meritorious American Holly at Ebenezer Church

Some Grand Trees of Chatham County



National Champion Blackjack Oak



Landmark Chestnut Oak Group

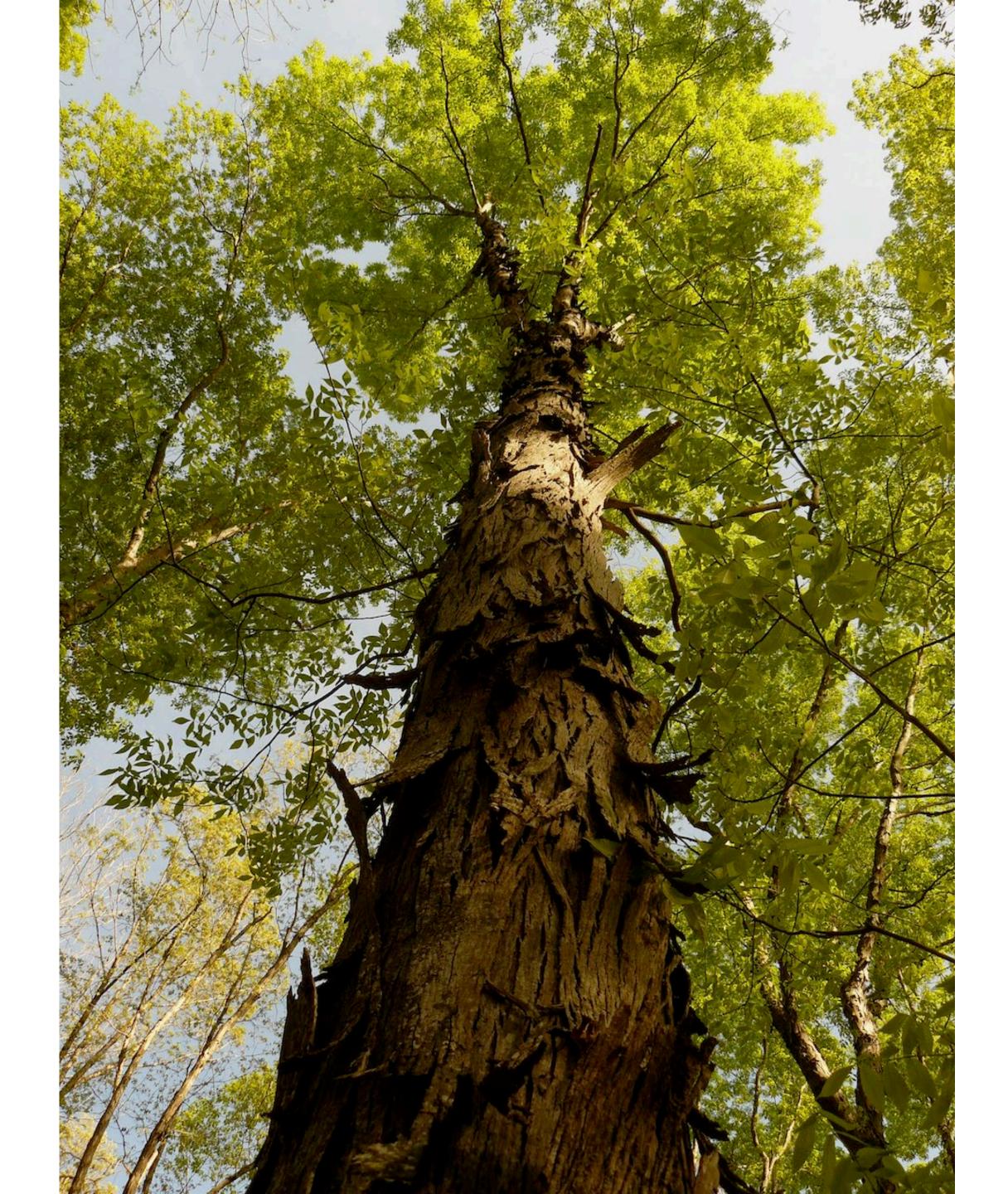
Recommendation #5 Incentives for Tree Protection During Logging Operations

• We recommend that Chatham County investigate incentives to protect trees within the riparian buffers, as logging operations (silviculture) are currently exempt from county riparian buffer rules under state law.

 We also recommend incentives for silviculture that would encourage protection of a percentage of the tree canopy during logging operations.

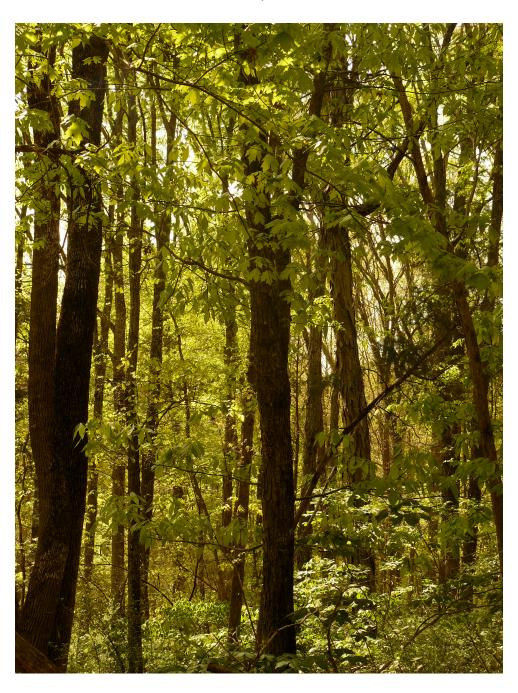


Questions?



Recommendations for Tree Protections for Chatham County Unified Development Ordinance

Chatham County Tree Protection Working Group December 5, 2022



Tree Protection Working Group Recommendations for Chatham County Unified Development Ordinance

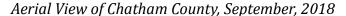
Introduction

The Tree Protection Working Group was approved by the Chatham County Board of Commissioners in May, 2022. Its mission is to create recommendations to the BOC for new regulations to protect trees and forest cover in Chatham County that can be incorporated into the Unified Development Ordinance. It is composed of 8 members from the Environmental Review Advisory Committee, the Planning Board, the Climate Change Advisory Committee and Grand Trees of Chatham.

- Elaine Chiosso, Chair, Environmental Review Advisory Committee
- Jeannie Ambrose, Environmental Review Advisory Committee
- Heather Holley, Environmental Review Advisory Committee
- George Lucier, Planning Board
- Caroline Siverson, Planning Board
- John Graybeal Climate Change Advisory Committee
- Alicia Koblansky, Climate Change Advisory Committee
- Sharon Garbutt, Grand Trees of Chatham

Chatham County has grown from 51,482 people to 77,889 between 2001 and 2021, a 66% increase. In that same period of time we have lost 87,722 acres of forest land, equivalent to a 27% decrease in tree cover since 2000, and 14.9 metric tons of CO_2 emissions. This is higher than the 24% average loss during that time period in North Carolina as a whole. (https://www.globalforestwatch.org).

Chatham County is predicted to continue to develop rapidly and loss of more forest cover is expected, if unchecked. These tree protection and canopy coverage recommendations will give the county the tools needed to protect more of the existing tree coverage, with benefits for air quality, water quality, stormwater mitigation, temperature moderation and carbon storage.





1. Purposes for Tree Protection

- A. Conserving Natural Resources:
 - Improving air and water quality
 - Protecting and improving the quality of county's rivers, streams, and wetlands
 - Improving surface drainage and aquifer recharge
 - Reducing and controlling storm water runoff to minimize soil erosion and pollution, while promoting soil stabilization and enrichment
 - Promoting the preservation of connected open space, existing tree canopy and vegetation
 - Protecting natural diversity and wildlife habitat
 - Minimizing fragmentation of wildlife habitat by preserving connecting forested areas
- B. Reducing and Mitigating Climate Change and Responding and Adapting to Emerging Threats:
 - Absorbing and sequestering carbon dioxide as well as sulfur dioxide and nitrous oxides from the atmosphere and filtering other airborne pollutants
 - Moderating temperature by providing shade and increasing energy conservation
 - Controlling velocity and direction of storm water runoff to prevent flooding



2. Chatham County Tree Arborist

We recommend that Chatham County hire an ISA (International Society of Arboriculture) certified tree arborist to oversee tree protection elements in the UDO and to work with developers to help meet relevant regulations on tree protection. The arborist should be a full-time position within the Planning Department. **See Appendix A**

3. Minimum Tree Canopy Coverage Area Recommendations

- a. All new development must conserve the required percentages of tree canopy within its total area depending on zoning classifications. **See Appendix B**
- b. Stream buffers required by the Chatham County Watershed Protection Ordinance shall not be counted as part of the tree canopy area minimum requirements.
- c. Replacement plantings for minimum tree canopy coverage area are required for developments built on former pasture, crop or other cleared land.
- d. In Compact Residential, Compact Mixed Use and Compact Non-Residential Districts, a minimum of 5% of the tree canopy requirement must be in defined park areas.

4. Replacement Trees Recommendation

In order to meet minimum tree canopy percentages the following standards and requirements shall be met:

- a. Standards for replacement trees, including density, caliper size and height shall be determined by the type and size of tree at maturity. **See Appendix C**
- b. Native trees and shrubs must be selected from the list provided by the county arborist. Species not on the list may be approved by the county arborist. **See Appendix D**
- c. Invasive non-native species shall not be used as replacement plantings. See Appendix E

5. Protection and Classification of "Grand Trees"

- a. We recommend that the four categories of Grand Trees of Chatham be used as definitions: **See Appendix F**
 - Champion Trees: Trees are nominated and selected for this category based on their large size for that particular species.
 - Historic Trees: Nominees must be at least 50 years old to qualify. The trees must be specifically associated with some significant historical event or location.
 - Landmark Trees: Emphasis is on remarkable natural groupings or communities of trees rather than individual trees.
 - Meritorious Trees: Category accommodates special trees in a variety of situations.
- b. All 4 categories must be protected and preserved during development unless the county arborist finds there is no practicable way to retain certain trees, in which case the county arborist will determine appropriate mitigation.

6. Incentives for logging operations (silviculture)

- a. We recommend that Chatham County investigate incentives to protect trees within the riparian buffers, as silviculture is currently exempt from county rules under state law.
- b. We also recommend incentives for silviculture to encourage protection of a percentage of the tree canopy during logging operations.



Appendix A

Chatham County Arborist Job Description

Justification

• This full-time position within the Planning Dept. is essential for implementation of the Tree Protection rules in Chatham County's new Unified Development Ordinance [UDO]

Description of major duties and responsibilities but are not limited to:

- Does fieldwork to assess and inventory trees to identify native trees or groves of particular significance
- Collaborates/consults with NC Natural Heritage Program staff on their site evaluation of NHP priority natural areas to produce a base map and Arborist Report
- Coordinates with county departments, Planning Board, and other advisory boards and committees [including a new Tree Advisory Board?] on developing a specific tree protection plan as part of the permitting process for each applicant
- Reviews and/or approves reports, development proposals and related documents submitted by the permit applicant for consistency with applicable environmental regulations and policies
- Maintains a list of plants appropriate to sites being developed–preferably, drought tolerant and native species, and a list of non-permitted plants that are unsuitable for use in any purpose due to their invasive tendencies.
- May approve the use of desirable native species that are not generally available in the required minimum size provided that the sum of the caliper of the tree(s) planted is equal to or greater than the required caliper specified in the regulations for replacement tree standards
 - Meets with applicant prior to any tree disturbance
- May approve an appropriate alternative tree removal mitigation plan during site development if there is no practicable way to retain protected tree(s) as defined by Grand Trees of Chatham criteria.
- Performs periodic on-sight inspections and/or supervision to verify compliance of standards for tree protection, mitigation, and removal before, during and after construction
- Investigates, identifies, and enforces any possible regulatory violations of county tree protection regulations
 - Prepares and maintains records and data bases.
- Analyzes data from aerial surveillance maps for a biennial status report/presentation on county-wide tree canopy coverage
- Engages in education outreach programs to inform the public about the value of trees and tree retention and encourages developers, landowners, and others to increase biodiversity by integrating habitat connectivity among parcels of land using native plant species and native species diversity, and removing/reducing non-native invasive plants in their tree protection/landscape plans.

Qualifications:

• ISA [International Society of Arboriculture] Arborist Certification

Appendix B

Minimum Tree Canopy Percentages in UDO Zoning Classifications

(Based on current probable zoning classifications under review)

Residential Zones	Percentage Canopy
Parks	50
Protected Lands	70
Agricultural subdivision	20
Conservation Residential	60
Rural Residential	35
Suburban Residential	25
Compact Residential	20

Non-Residential Zones	Percentage Canopy
Rural Village	30
Office/Institutional	30
Neighborhood Business	20
Compact Mixed Use	20
Community Business	20
Compact Non-Residential	20
Regional Business	20
Rural Highway Commercial	30
Light Industry	20
Heavy Industry	20

Notes

- 1. Stream/wetland buffers required by watershed regulations shall not be counted in tree canopy calculations.
- 2. Public right of ways, waterbodies, stormwater and utility easements shall not be included in the total land area used in the canopy coverage calculation.
- 3. Replacement plantings for minimum tree canopy coverage are required for developments built on former pasture, crop or cleared land except for Parks and Protected Lands.
- 4. In Compact Residential, Compact Mixed Use and Compact Non-Residential Districts, a minimum of 5% of the tree canopy requirement must be in defined park areas.

Appendix C

Tree replacement to meet canopy percentage requirement

If the existing tree canopy is less than the minimum standards required herein or not able to provide long-term benefits, the required minimum canopy coverage shall be established by planting new trees. The tree canopy deficit shall be determined by subtracting the area of retained tree canopy as shown on the tree protection plan from the minimum area of canopy coverage required.

General Standards for replacement of canopy:

- Plantings of replacement trees in buffer and open space areas shall be native, non-invasive and drought tolerant with consideration given to the availability of irrigation and to the possibility of deer browse damage. Supplemental watering shall be provided during dry spells for the first growing season to assure the success of the planting and some form of deer deterrence utilized until plantings are established.
- Plantings in buffers and open space areas shall be clustered to provide a natural look and shall reflect the native plant communities appropriate to the hydrology of the area.
- Plantings on individual lots in residential districts and in commercial, industrial and mixed-use districts may be more formal and utilize non-invasive species that are locally adapted to the conditions of the site with an emphasis on the use of native plants where possible.
- Street trees shall be required at the rate of one canopy tree and one understory, either deciduous or evergreen, tree for every 65 feet of street frontage along existing and proposed public and private streets within a development, not including alleys.
- Plantings in all areas shall be selected to add diversity and to avoid monocultures that can encourage the spread of pests and diseases.
- Tree replacement areas shall be contiguous with existing canopy or other landscape features such as floodplains and stream buffers on site as well as on surrounding properties to prevent forest fragmentation wherever possible.
- Native trees and shrubs shall be locally sourced and from seed grown species to the extent possible.

Planting Standards:

The approval and implementation of a planting plan shall be in accordance with the following:

- 1. One (1) replacement tree per 500 square feet of tree canopy coverage deficit shall be planted in accordance with an approved planting plan.
- 2. The replacement planting shall include a mix of the basic plant types including
 - A. Large deciduous canopy trees 30 feet or greater in height and width At least 2-inch caliper or 10 feet in 25 gallon container at time of planting and spaced at least 18 feet apart.
 - B. Evergreen Trees at least 20 feet tall having green foliage year around At least a minimum height of eight feet at the time of planting.

- Shall be planted at least 12 feet apart
- C. Deciduous Understory Tree 10 to 30 feet
 - At least 1-inch caliper or 8 foot height for single stemmed tree
 - 8 foot height for multi-stemmed tree at time of planting.
 - Should be planted at least 12 feet apart
- 3. At least 50% of replacement trees shall be large canopy trees
- 4. When ten or more trees are required to be planted on a site to meet these regulations, a mix of species shall be provided as follows:
 - 11 to 20 trees, 3 species required, maximum of 40% of a single species
 - 21 to 40 trees, 4 species required, maximum of 35% of a single species
 - 41 to 80 trees, 6 species required, maximum of 30% of a single species
 - 81 to 150 trees, 8 species required, maximum of 25% of a single species
 - Over 150 trees, 10 species required, maximum of 20% of a single species
- 5. Standards for plant materials are to meet or exceed size and shape relationships specified in the latest edition of ANSI-Z60.1 American Standard for Nursery Stock
- 6. Standards for planting shall be in keeping with those established by ANSI A300 Tree Care Operations: Standard Practices for Tree, Shrub, and Other Woody Plant Management planting and transplanting.
- 7. The county arborist shall maintain a list of plants appropriate to sites being developed. The list shall include drought tolerant and native species
- 8. The county arborist shall maintain a list of plants that are not permitted for any use due to their invasive tendencies. Such species shall not be planted as landscaping for any purpose.
- 9. The county arborist may approve the use of desirable native species that are not generally available in the required minimum size provided that the sum of the caliper planted is equal to or greater than the required caliper specified above.

Appendix D

Recommended Native Plant List

Trees:

Acer floridanum – Southern Sugar Maple

Acer leucoderme – Chalk Maple

Acer negundo – var negundo – Eastern Boxelder

Acer rubrum var. drummondii – Drummond's Red Maple

Acer rubrum var. rubrum - Red Maple

Acer rubrum var. trilobum – Carolina Red Maple

Acer saccharinum – Sugar Maple

Aesculus sylvatica - Painted Buckeye

Aesculus pavia - Red Buckeye

Alnus serrulata – Tag Alder

Amelanchier arborea – Common Serviceberry

Amelanchier canadensis – Canadian Serviceberry

Aralia spinosa – Devil's Walking Stick

Asimina spinosa – Pawpaw

Baccharis halimifolia - Groundseltree

Betula nigra – River Birch

Carpinus caroliniana ssp. caroliniana - Ironwood

Carpinus caroliniana ssp. virginiana – Ironwood

Carya carolinae – septentrionalis – Carolina Shagbark Hickory

Carya cordiformis – Bitternut Hickory

Carya glabra – Pignut Hickory

Carya laciniosa – Shellbark Hickory

Carya ovalis - Red Hickory, Sweet Pignut Hickory

Carya ovata – Shagbark Hickory

Caryo pallida – Sand Hickory

Carya tomentosa – Mockernut Hickory

Castanea dentate – American Chestnut

Castanea pummila - Chinkapin

Celtis laevigata var. laevigata – Sugarberry

Celtis occidentalis var. occidentalis – Common Hackberry

Celtis tenuifolia – Dwarf Hackberry

Cercis Canadensis var. Canadensis - Eastern Redbud

Chionanthus virginicus – Fringe tree

Cornus alternifolia – Alternate-leaved Dogwood

Cornus florida - Flowering Dogwood

Crataegus aprica - Sunny Hawthorn

Crataegus crus-galli – Cockspur Hawthorne

Crataegus flabellatat - Fanleaf Hawthorne

Crataegus marshalii - Parsley Hawthorn

Crataegus phaenopyrum – Washington Hawthorn

Crataegus punctate - Dotted Hawthorn

Crataegus uniflora – One-flower Hawthorn

Crataegus viridis - Green Hawthorn

Diospyrus virginiana – Common Persimmon

Euonymus atropurpureus var. atropurpureus - Eastern Wahoo

Fagus grandifolia var. caroliniana – American Beech

Frangula caroliniana – Carolina Buckthorn

Fraxinus americana – White Ash

Fraxinus caroliniana- Carolina Ash

Fraxinus pennsylvanica – Green Ash

Fraxinus profunda – Pumpkin Ash

Halesia tetraptera var. tetraptera – Silverbell

Hamamelis virginiana – American Witchhazel

Ilex decidua - Possumhaw

Iles montana – Mountain Holly

Ilex opaca – American Holly

Juglans nigra – Black Walnut

Juiperus virginiana – Eastern Red cedar

Kalmia latifolia – Mountain Laurel

Liquidambar styraciflua – Sweetgum

Liriodendron tulipifera – Tulip poplar

Magnolia macrophylla - Bigleaf Magnolia

Magnolia tripetala – Umbrella-Tree

Magnolia virginiana - Sweetbay

Malus angustifolia – Southern Crabapple

Morella cerifera - Wax Myrtle

Morus rubra – Red Mulberry

Nyssa biflora – Swamp Tupelo

Nyssa sylvatica - Blackgum, Black Tupelo

Ostrya virginiana – Hophornbeam

Oxydendrum arboretum - Sourwood

Pinus echinata - Shortleaf Pine

Pinus palustris – Longleaf Pine

Pinus serotina – Pond Pine

Pinus taeda - Loblolly Pine

Pinus virginiana – Virginia Pine

Platanus occidentalis - American Sycamore

Populous deltoids - Eastern Cottonwood

Prunus americana – American Plum

Prunus angustifolia – Chickasaw Plum

Prunus Mexicana – Mexican Plum

Prunus serotina – Black Cherry

Ptelea trifoliate – Hoptree

Quercus alba - White Oak

Quercus bicolor – Swamp White Oak

Quercus coccinea – Scarlet Oak

Quercus falcate – Southern Red Oak

Quercus lyrata – Overcup Oak

Quercus marilandica – Blackjack Oak

Quercus michauxii – Swam Chestnut Oak

Quercus montana – Chestnut Oak

Quercus nigra – Water Oak

Quercus pagoda – Cherrybark Oak

Quercus palustris – Pin Oak

Quercus phellos – Willow Oak

Quercus rubra – Northern Red Oak

Quercus shumardii - Shumard Oak

Quercus stellate - Post Oak

Quercus velutina – Black Oak

Rhododendron catawbiense – Catawba Rhododendron

Rhus copallinum var. copallinum – Shining Sumac

Rhus glabra – Smooth Sumac

Salix nigra - Black Willow

Sassafras albidum – Sassafras

Staphylea trifolia – American Bladdernut

Styrax grandifolius – Bigleaf Snowbell

Symplocos tinctoria - Sweetleaf

Taxodium distichum - Bald cypress

Tillia americana var caroliniana - Carolina Basswood

Tsuga Canadensis – Eastern Hemlock

Ulmus alata - Winged Elm

Ulmus americana – American Elm

Ulmus rubra – Slippery Elm

Vaccinium arboretum – Sparkleberry, Farkleberry

Viburnum nudum – Possumhaw Viburnum

Viburnum prunifolium – Blackhaw

Viburnum rufidulum – Rusty Blackhaw

Shrubs and Subshrubs:

Amelanchier obovalis – Coastal Plain Serviceberry

Amelanchier stolonifera – Running Serviceberry

Amorpha fruticosa – False Indigo Bush

Amorpha herbacea – Dwarf Indigo bush

Aronia arbutifolia – Red Chokeberry

Aronia prunifolia – Purple Chokeberry

Arundinaria gigantean - Giant Cane

Arundinaria tecta - Switch Cane

Asimina parviflora – Smallflower Pawpaw

Berberis canadensis – American Barberry

Callicarpa americana – American Beautyberry

Calycanthus floridus var. glaucus – Sweet Betsy

Ceonothus americanus – New Jersey tea

Cephalanthus occidentalis - Common Buttonbush

Chimaphila maculate – Striped Pipsissewa

Chimaphila umbellate ssp. cisatlantica – Pipsissewa

Clematis ochroleuca – Curlyheads

Clethra alnifolia – Sweet Pepperbush

Cornus amomum - Swamp Dogwood, Silky Dogwood

Cornus stricta - Stiff Dogwood

Cornus racemosa – Gray Dogwood

Corylus Americana – American Hazelnut

Corylus cornuta - Beaked Hazelnut

Cunila origanoides – American-dittany, Wild oregano

Cyrilla racemiflora – Swamp Titi

Dirca palustris – Eastern Leatherwood

Epigaea repens – Trailing Arbutus

Eubotrys racemosa – Coastal Fetterbush

Euonymus americanus – Hearts-a-busting

Fothergilla major – Mountain Witchalder

Galax urceolata – Galax

Gaultheria procumbens – Wintergreeen, Teaberry

Gaylussacia brachycera – Box Huckleberry

Gaylussacia baccata – Black Hucklebery

Gaylussacia dumosa – Dwarf Huckleberry

Gaylussacia frondosa – Blue Huckleberry

Huperzia lucidula – Shining Firmoss, Shining Clubmoss

Hydrangea arborescens - Wild Hydrangea

Hypericum crux-andreae – St. Andrew's Cross, St. Peter's Wort

Hypericum densiflorum – Bushv St. John's Wort

Hypericum hypericoides - St. Andrew's Cross

Hypericum lloydi – Sandhill St. John's Wort

Hypericum nudiflorum – Early St. John's Wort

Hypericum prolificum – Shrubby St. John's Wort

Hypericum stragalum - St Andrew's Cross

Ilex glabra – Inkberry

Ilex verticilata – Common Winterberry

Itea virginica – Virginia Sweetspire

Leucothoe fontanesiana – Doghobble

Lindera benzoin var. benzoin – Smooth Northern Spicebush

Lindera benzoin var. pubescens – Hairy Northern Spicebush

Lycopodium digitatum – Running-Cedar

Lycopodium obscurum – Common Ground Pine

Lycopodium tristachyum – Blue Running cedar

Lyonia ligustrina – Maleberry

Lyonia mariana – Staggerbush

Manfreda virgainica – Eastern Falsealoe

Morella caroliniensis – Southern Bayberry

Nestronia umbelluta - Leechbrush

Opuntia humifusa – Eastern Prickly Pear

Philadelphus inodorus - Mock orange

Phoradendron leucarpum – Oak Mistletoe

Physocarpus opulifolius – Eastern Ninebark

Pvrola americana – Rounded Shinleaf

Rhododendron arborescens - Smooth Azalea

Rhododendron periclymenoides - Pink Azalea

Rhododendron viscosum - Swamp Azalea

Rhus aromatic - Fragrant Sumac

Rhus michauxii - Michaux's Sumac

Robinia hispida var. hispida – Bristly Locust

Robinia nana – Dwarf Bristly Locust

Rosa carolina - Carolina Rose

Rosa palustris – Swamp Rose

Rubus argutus – Saw-tooth Blackberry

Rubus cuneifolius – Sand Blackberry

Rubus flagellaris – Whiplash Dewberry

Rubus hispidus – Bristly Dewberry

Rubus occidentalis – Black Raspberry

Rubus trivalis – Southern Dewberry

Salix caroliniana – Coastal Plain Willow

Salix humilis - Prairie Willow

Salix sericea - Silky Willow

Sambucus canadensis – Common Elderberry

Selaginella apoda – Meadow Spikemoss

Selaginella rupestris – Rock Spikemoss

Symphoricarpos orbiculatus – Coralberry

Toxicodendron pubenscens – Atlantic Poison Oak

Vaccinium caesariensis – High-bush Blueberry

Vaccinium crassifolium – Creeping Blueberry

Vaccinium elliottii – Elliott's Blueberry

Vaccinium formosum Southern Highbush Blueberry

Vaccinium fuscatum – Black Highbush Blueberry

Vaccinium x marianum (formosum x fuscatuam) – Southern x Black Highbush Blueberry

Vaccinium pallidum – Early Lowbush Blueberry

Viburnum stamineum – Deerberry

Vaccinium tenellum – Small Black Blueberry

Viburnum acerifolium – Mapleleaf Viburnum

Viburnum dentatum – Southern Arrowwood

Viburnum rafinesquianum – Downy Arrowwood

Viburnum recognitum – Smooth Arrowwood

Zanthorhiza simplicissima - Yellowroot

Yucca filamentosa – Adam's Needle, Bear-Grass

Native Vines:

Bignonia capreolata – Crossvine

Campsis radicans – Trumpet Creeper

Clematis crispa – Swamp Leatherflower

Clematis viorna - N. Leatherflower

Clematis virginiana – Virgin's bower

Gelsemium sempervirens – Carolina Yellow Jessamine

Lonicera sempervirens – Trumpet Honeysuckle

Menispermum canadense – Common Moonseed

Michella repans – Partridgeberry

Parthenocissus quinquefolia – Virginia Creeper

Smilax bona-nox – Saw Greenbrier, Catbriar

Smilax glauca – Whiteleaf Greenbriar

Smilax hispida – Bristly Greenbriar

Smilex laurifolia – Laurel Greenbriar

Smilex rotundifolia – Common Greenbriar

Smilax walteri - Coral Greenbrier

Thyrsanthella difformis – Climbing Dogbane

Toxicodondron radicans – Eastern Poison Ivy

Vitis aestivalis var. aestivalis – Summer Grape

Vitis cinerea var. balleyana – Possum Grape

Vitis labrusca – Fox Grape

Vitis rotundifolia - Muscadine Grape, Scupperernong

Vitis vulpina – Frost Grape

Wisteria frutescens – American Wisteria

Appendix E

Invasive Plant List

Trees:

Acer plantanoides – Norway Maple
Ailianthus altissima – Tree of Heaven
Albizia julibrissin – Mimosa
Paulownia tomentosa – Princess Tree
Pyrus calleryana – Bradford Pear
Broussonetia papyrifera – Paper Mulberry
Melia azedarach - Chinaberry
Morus Alba – White Mulberry
Quercus acutissima – Sawtooth Oak
Triadica sebifera – Chinese Tallow Tree

Shrubs:

Bambusa spp – Exotic Bamboo
Berberis (Mahonia) bealei - Leatherleaf Mahonia
Berberis thunbergii - Japanese Barberry
Elaeagnus angustifolia - Russian Olive
Elaeagnus pungens -Thorny Olive
Elaeagnus umbellata - Autumn Olive
Euonymus alata - Burning Bush

Ligustrum japonicum - Japanese Privet

Ligustrum sinense - Chinese Privet

Lonicera fragrantissima - Fragrant Honeysuckle

Lonicera maackii - Bush Honeysuckle

Lonicera morrowii – Marrow's Honeysuckle

Lonicera standishii – Standish's Honeysuckle

Lonicera x bella (Lonicera tatarica x morrowii) – Pretty Honeysuckle

Lonicera tatarica – Tartarian Honeysuckle

Nandina domestica - Heavenly Bamboo

Poncirus trifoliata - Trifoliate Orange

Phyllostachys spp. – Exotic Bamboo

Pseudosasa japonica – Arrow Bamboo

Rhamnus cathartica – Common Buckthorn

Rhodotypos scandens – Jetbead

Rosa multiflora - Multiflora Rose

Rubus phoenicolasius – Wineberry

Spiraea japonica – Japanese Spiraea

Tamarix ramosissima - Salt Cedar

Vitus rotundifolia – Roundleaf Chaste tree

Vines:

Akebia quinata – Chocolate vine
Ampelopsis glandulosa (Ampelopsis brevipedunculata) – Porcelain berry
Cardiospermum haliacacabum – Balloon Vine, Heartseed
Causonis japonica – Sorrel Vine
Celastrus orbiculatus – Oriental Bittersweet
Clematis terniflora – Sweet Autumn Clematis
Dioscorea polystachya – Chinese Yam Vine
Euonymus fortune - Wintercreeper
Hedera helix – English Ivy
Lonicera japonica - Japanese Honeysuckle
Persicaria perfoliata - Mile-a-minute Vine
Pueraria montana var. lobata – Kudzu
Wisteria sinensis – Chinese Wisteria
Wisteria floribunda – Japanese Wisteria

Appendix F

Grand Trees of Chatham Award Categories

Trees may be nominated in the following four categories

- <u>Champion Trees</u>: Trees are nominated and selected for this category based on their large size (which usually also means old age) for that particular species. This might be a 7-foot diameter, 100-foot tall oak but could also be a thirty-foot tall dogwood. Using the measurement and point system established for state and national champion trees, a nominated tree's point total must equal or exceed 75% of the current state champion tree's total. Point total is calculated by an equation using tree circumference, height, and crown spread. (Point totals for NC Champion Trees by species can be found at: https://www.ncforestservice.gov/urban/nc champion big trees database search.asp)
- <u>Historic Trees:</u> Nominees must be at least 50 years old to qualify. The trees must be specifically associated with a significant historical event or location (appropriate documentation is required).
- <u>Landmark Trees:</u> Emphasis is on natural groupings or communities of trees rather than individual trees. The White Pine trees at Triangle Land Conservancy's White Pines Nature Preserve exemplify this category.
- Meritorious Trees: Category accommodates special trees in a variety of situations.
 The board has a broad range of flexibility in presenting awards in this category.
 Trees in this category could be future Champion Trees, commemorative trees associated with a particular event or trees of special significance to community members.

How a Tree Is Measured

Three measurements are taken: (1) Trunk Circumference (measured in inches), (2) Vertical Tree Height (measured to the nearest foot), and (3) Average Crown Spread (measured to the nearest foot).

How a Champion Tree is Determined

- A champion tree is determined using a formula which adds the tree's circumference in inches to the tree's height in feet plus one-quarter (0.25) of the average crown spread.
 This is the total point value for the tree. Example: A tree 144 inches in circumference, 100 feet tall, with an average crown spread of 80 feet: 144 + 100 + [80/4] = 264 total points.
- Since the size of a tree varies with the species, nominees are compared only with others of the same species: white oak against white oak; flowering dogwood against flowering dogwood, etc.
- In Chatham County a tree is awarded Champion status if its total points are at least 75% of the total points earned by the NC State Champion tree of the same species.

Examples of Grand Trees in Chatham County



State Champion White Oak



State Champion Redbud



County Champion Shortleaf Pines



County Champion Hackberry



Landmark Group Chestnut Oak



National Champion Blackjack Oak



County Champion Willow Oak



Meritorious American Holly at Ebenezer Church

Appendix G References and Resources

The following are resources used by the Tree Protection Working Group as we complied our recommendations for tree protection regulations in the Unified Development Ordinance.

Purposes:

Plan Chatham - Chatham County Comprehensive Plan https://www.chathamcountync.gov/home/showpublisheddocument/48133/637209066019700000

Nicolas Institute for Environmental Policy and NC Forest Service Guide to Local Tree Ordinance Creation

http://www.ncforestservice.gov/urban/pdf/treeprotection.pdf

Tree Coverage and Replacement:

Town of Chapel Hill NC UDO

https://library.municode.com/nc/chapel hill/codes/code of ordinances?nodeId=CO APX-ALAUSMA ART5DEDEST 5.7TRPR

Orange County NC UDO

https://orangecountync.gov/DocumentCenter/View/2288/Unified-Development-Ordinance-UDO-PDF

Durham NC City UDO

https://durham.municipal.codes/UD0/8.3.1

Nicolas Institute for Environmental Policy and NC Forest Service Guide to Local Tree Ordinance Creation

http://www.ncforestservice.gov/urban/pdf/treeprotection.pdf

Recommended Native Plants:

Trees, Shrubs and Woody Vines by Will Cook https://www.carolinanature.com/trees/

Invasive Plants:

North Carolina Native Plant Society Invasive Plant List https://ncwildflower.org/wp-content/uploads/NCNPS-Invasive-Plant-List-20220914.pdf

Grand Trees Of Chatham:

Guidelines for The Grand Trees of Chatham Recognition Program https://www.chathamcountync.gov/home/showpublisheddocument/26312/636162136084830000