### **Joint Work Session**

# Cary Town Council Chatham Board of Commissioners

Joint Land Use Plan

**September 18, 2007** 

- 1. Welcome & Introductions
- 2. Approval Of Agenda, Meeting Purpose
- 3. History Of Joint Planning Effort
- 4. Presentation Of Joint Staff Plan
- 5. Water Quality, Land Use, & Density
- 6. May '07 BoC Plan, Areas Of Agreement
- 7. Resolution Of Remaining Plan Areas
- 8. Update & Discussion Moratoria
- 9. Next Steps & Project Schedule

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### 3. History of the Joint Planning Effort

Joint Resolutions Adopted - Dec.'05. Specified Plan Approach:

- a) Joint Plan To Be Developed Independently By A Joint Staff Team
- b) 1<sup>st</sup> Public Hearing By June '06, Adoption By Aug. '06
- c) Public Involvement Two Community Meetings

## 3. History of the Joint Planning Effort

a)	Research Phase	Spring '06
b)	1 <sup>st</sup> Community Meeting - Project Introduction	June '06
c)	Joint Staff Charrette - Two Plan Options	Aug. '06
d)	2 <sup>nd</sup> Community Meeting – Public Feedback	Oct. '06
<b>e</b> )	Joint Staff Charrette – Developed Proposed Draft Plan	Jan. '06
f)	1st Joint Work Session	Feb. '07

## 3. History of the Joint Planning Effort

g) Chatham BoC Public April '07
Hearing

h) Chatham BoC Revised May '07

Plan Recommendation

i) Cary Council Work Jul. '07

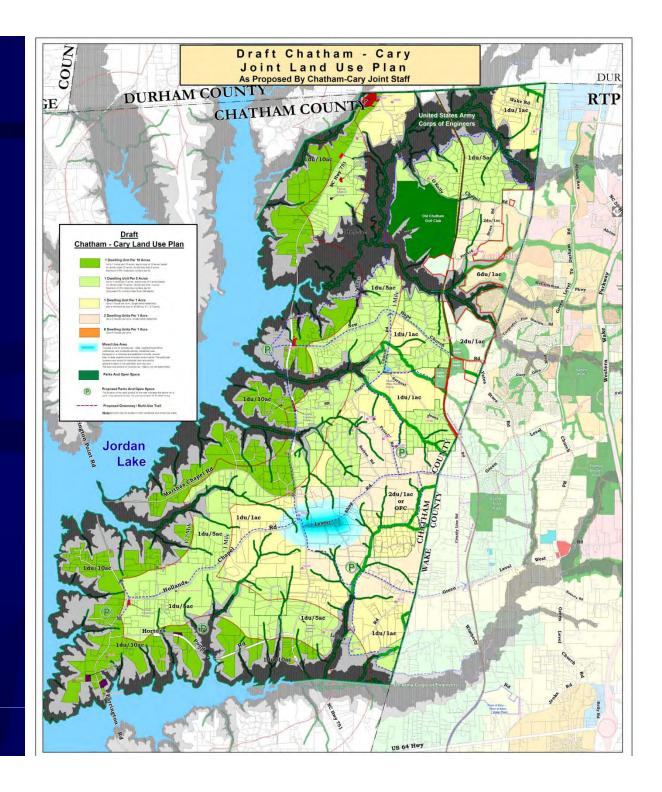
Session

i) 2<sup>nd</sup> Joint Work Session Sep. '07

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# Joint Staff's Draft Plan

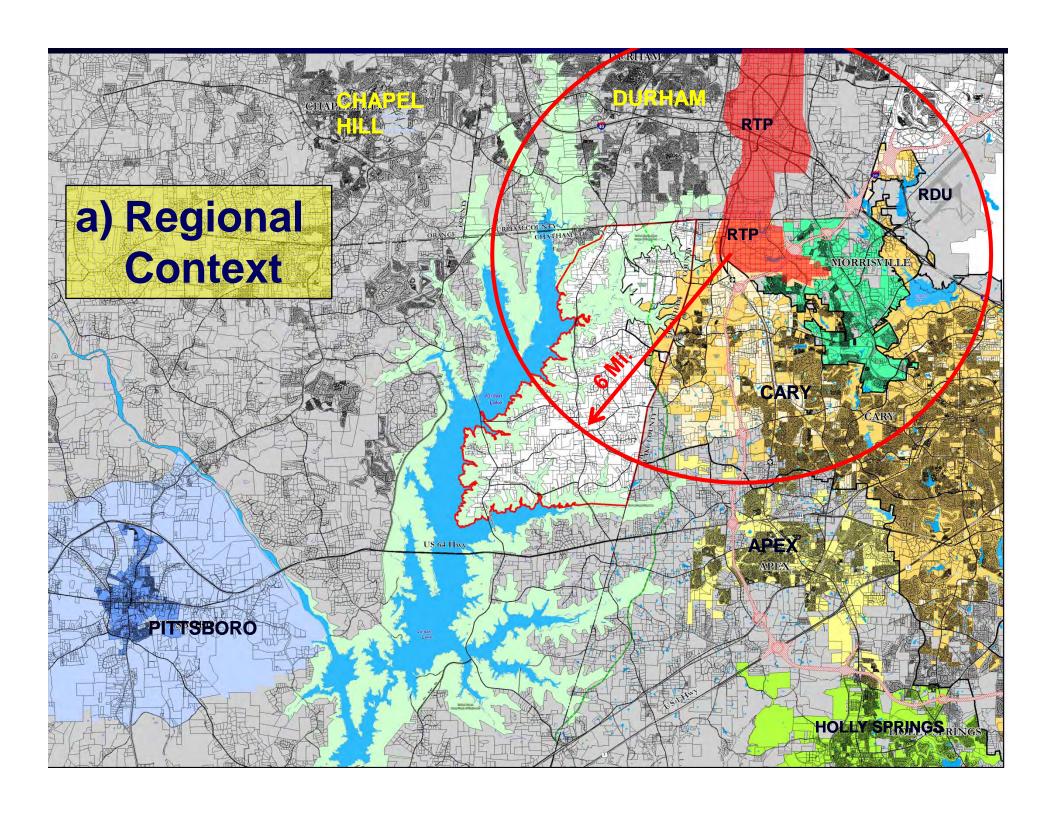
Feb. 2007



# Joint Staff Considerations

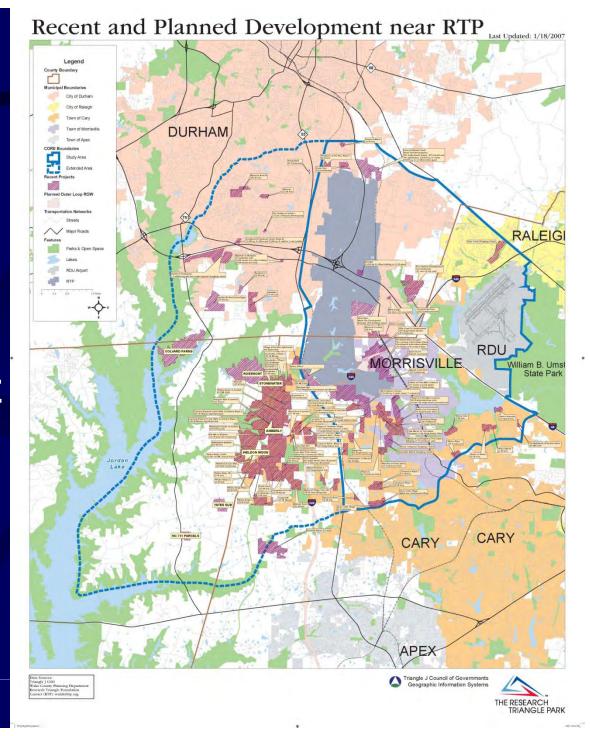
### **Land Use**

- a) Regional And Market Context
- b) Transportation Connections
- c) NC WRC Recommendations
- d) Density Transitions
- e) Contiguity To Town Limits
- f) Efficient Provision Of Services
- g) Well & Septic Rescue Exposure
- h) Zoning Precedents



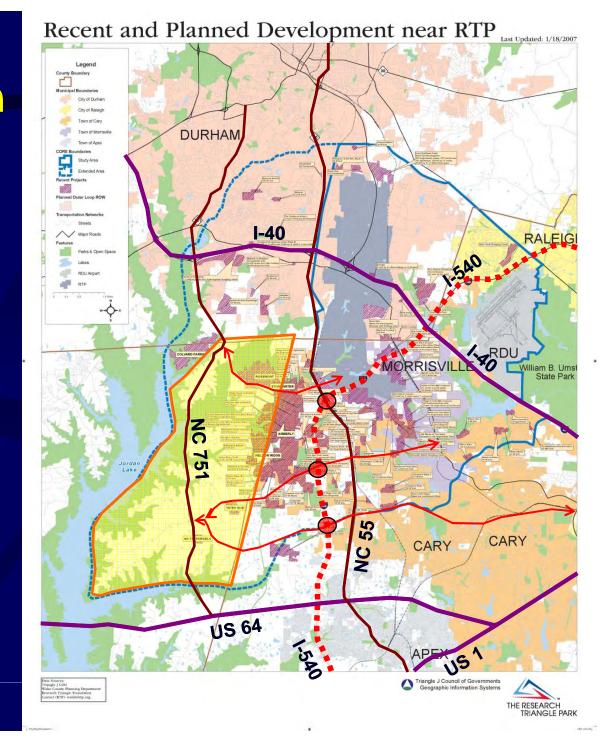
# a) Regional Context

- Map is from RTP Web Site →
- Outer Blue Line is the Extended CORE Boundary
- Entire Joint Study Area is Included

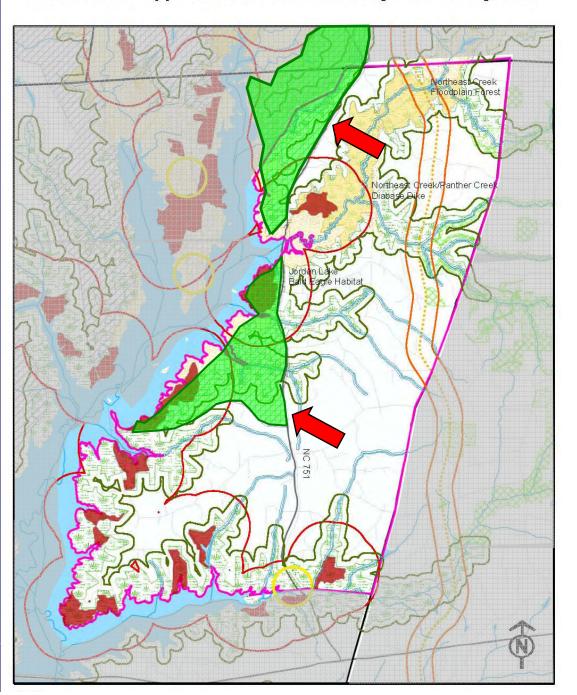


# b) Transportation Context

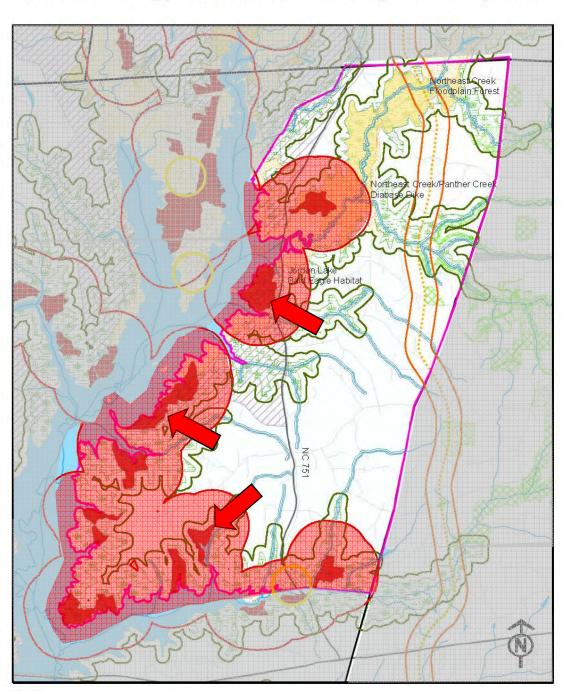
- ▶ RTP Web Map →
- > I-40
- > NC Hwy 55
- US Hwy 1 & 64
- > NC Hwy 751
- Future I-540 / Western Wake Pkwy
- Thoroughfare Connections



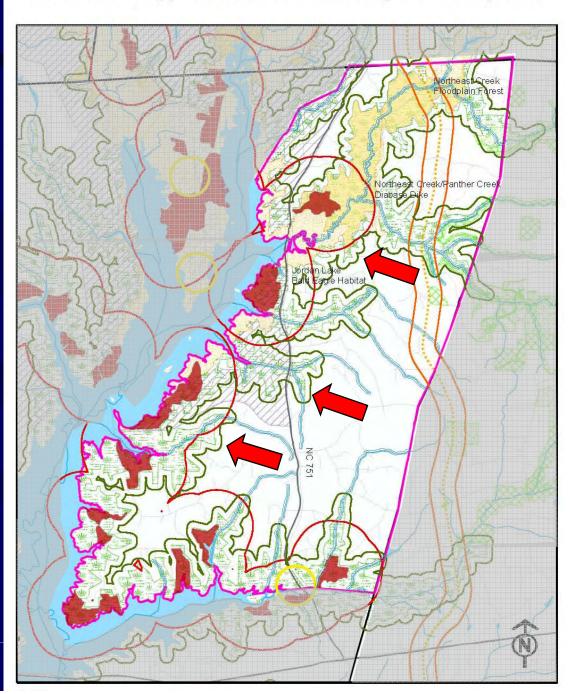
- c) Feedback From NC Wildlife Resources Commission
  - □ The Nature
     Conservancy
     EcoRegional
     Portfolio Sites
     Are Adjacent to
     Game Lands



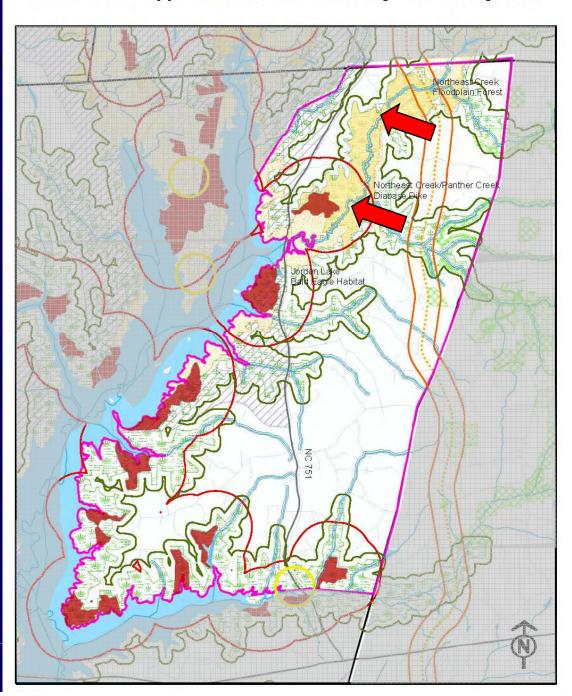
- c) Feedback From NC Wildlife Resources Commission
  - ⇒ Jordan Game
     Land Burn
     Blocks (Shaded
     Dark Red)
  - ⇒ ½ Mile Buffer Suggested



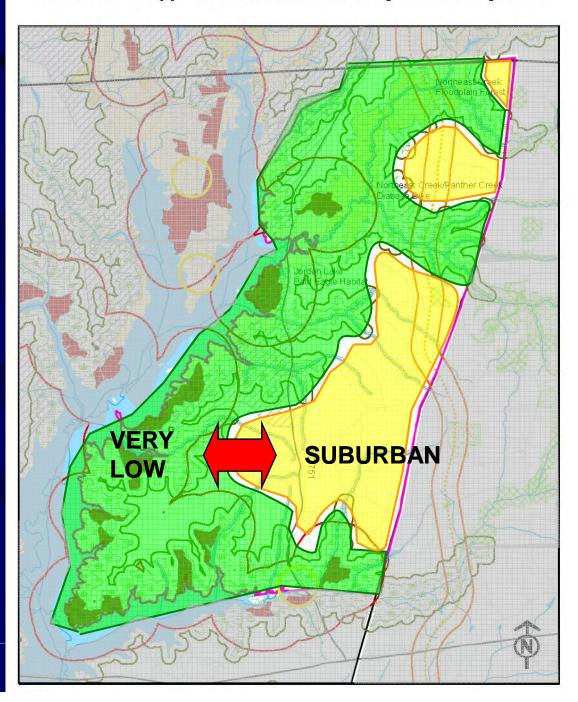
- c) Feedback From NC Wildlife Resources Commission
  - □ 150-Yard
     Hunting Buffer
     Recommended
     Next To U.S.
     Army C.O.E. &
     NC Game Lands



- c) Feedback From NC Wildlife Resources Commission

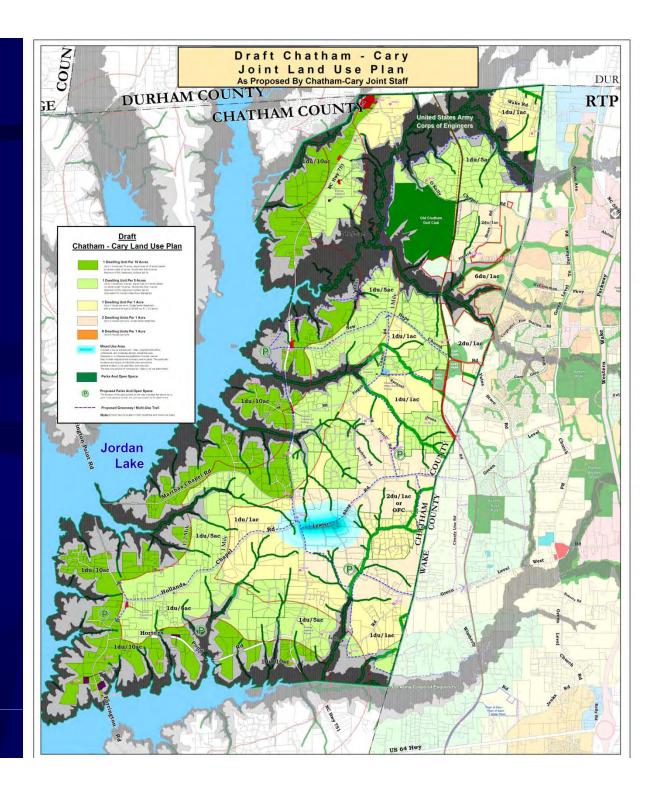


- c) Feedback From NC WRC
- d) Density
  Transitions
  - ⇒ Use "Zoning Extremes," e.g.:
  - ⇒ 5-10 ac. lots near lake, then...



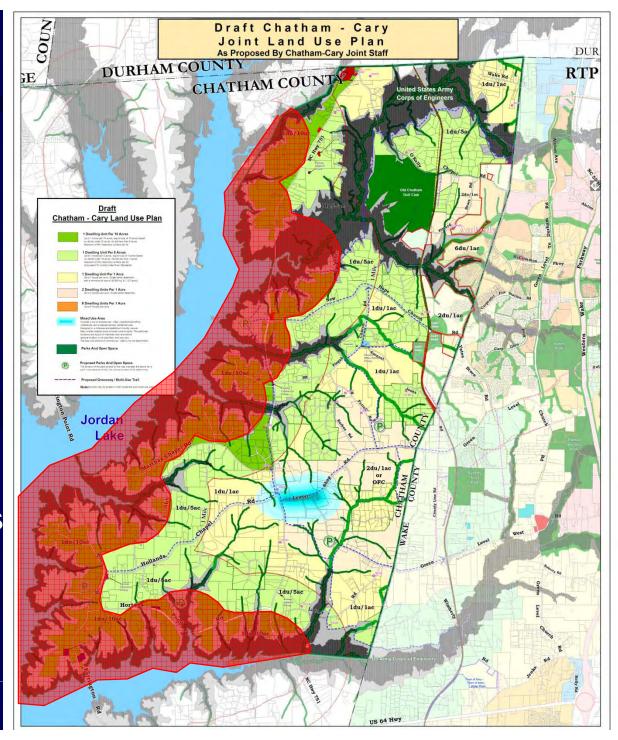
# Joint Staff's Draft Plan

Feb. 2007



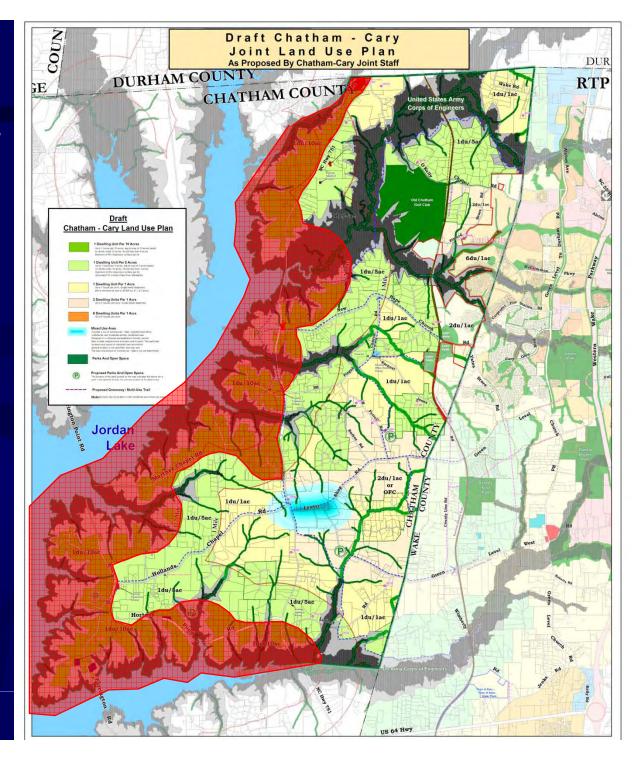
# Within the 1st Half Mile From Lake:

- 1 dwelling per 10 acres, avg.
- $\triangleright$  No lot < 6 ac.
- Impervious Limit of 8%
- Based on Species Habitat Impacts (WRC)



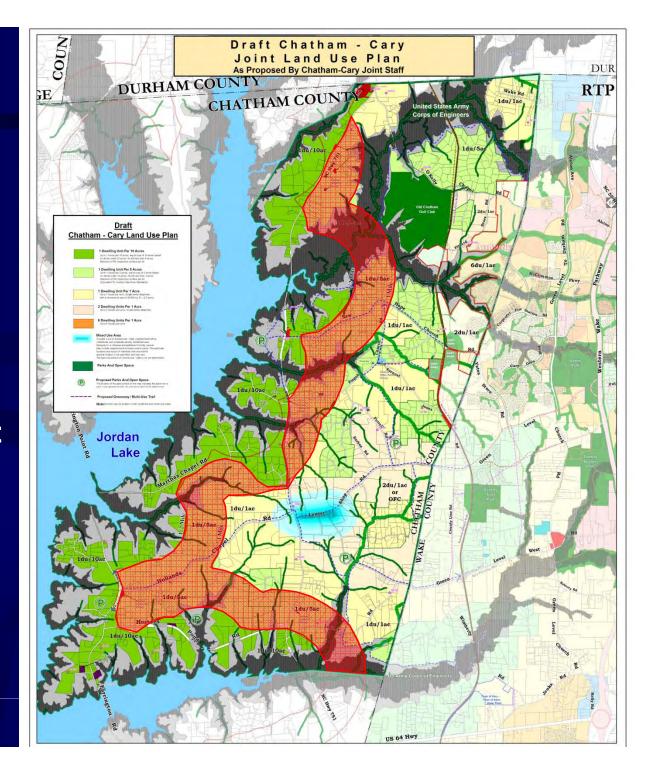
Adjacent to 1st Half Mile From Lake:

Land Use
Category Was
Extended
Eastward to
Conform with
TNC Portfolio
Sites, per the
WRC



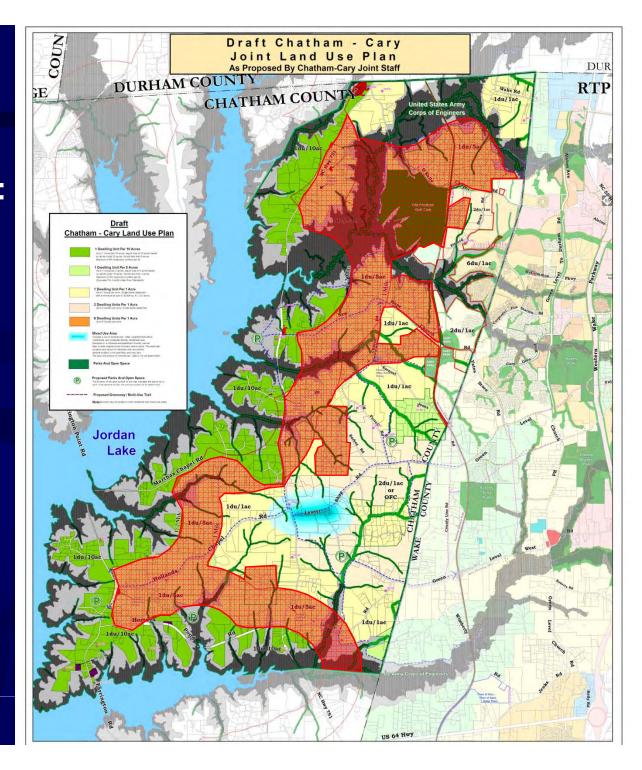
# Within the 2<sup>nd</sup> Half Mile From Lake:

- 1 dwelling per 5 acres, avg.
- No lot < 3 ac.</p>
- Impervious Limit of 8%



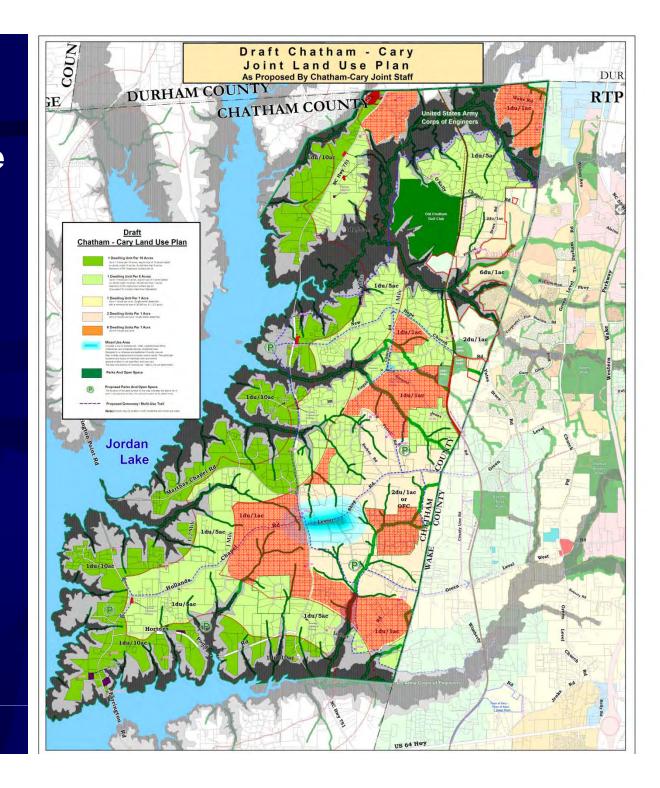
Adjacent to the 2<sup>nd</sup> Half Mile From Lake:

Land Use
 Category Was
 Extended
 Eastward to
 Some Existing
 Subdivisions, or
 to Nearest Road
 or Stream



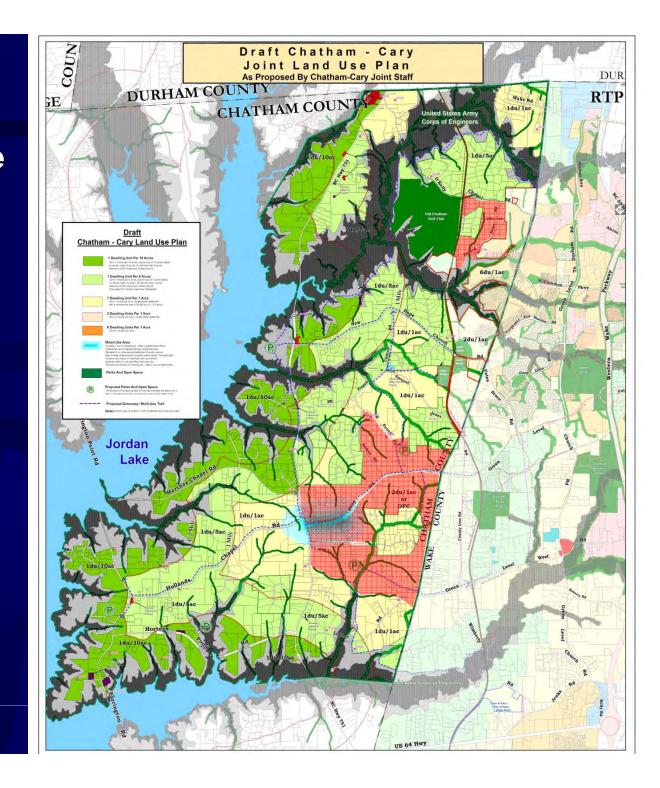
Densities Continue to Transition Eastward:

⇒ 1 dwelling per acre, 30,000 s.f. min.



Densities Continue to Transition Eastward:

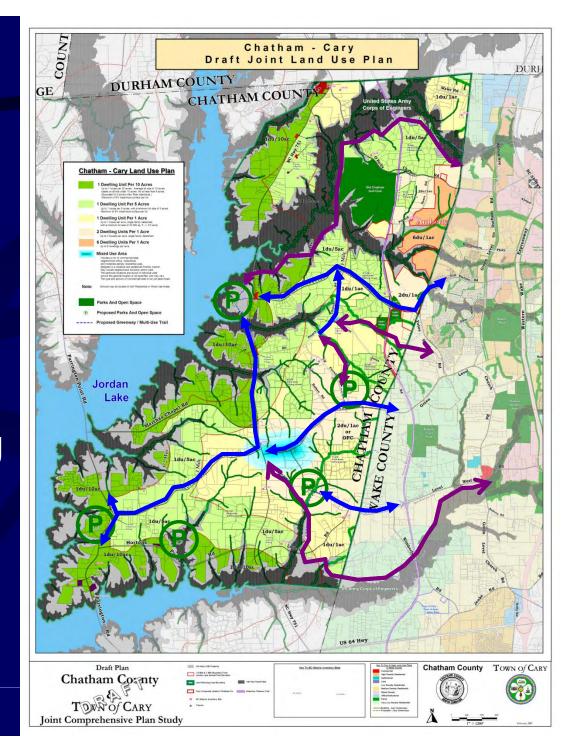
⇒ 2 dwellings per acre



#### **New Draft Plan**

# Public Parks & Greenways

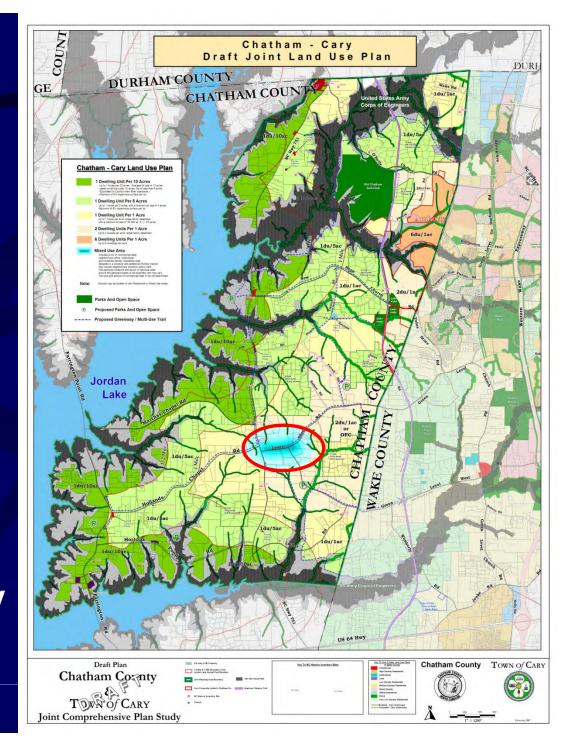
- Parks Distributed
   At Key COE
   Sites, and on
   Greenways
- Greenways Along Stream Buffers
- Multi-Use Paths Along Roads



#### **New Draft Plan**

And Lastly...

- Mixed Use Area Around/Near Intersection of NC 751 and Lewter Shop Rd.
  - > ~ 10 ac. Retail
  - ~ 10 ac. Office
  - ~ 20-40 ac.Moderate DensityHousing



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# **Water Quality**

- Current State Requirements
- Current Cary Requirements
- Future State Requirements
- Water Quality and Density

# State Requirements for Reservior Watershed Protection WS-IV

- Low Density Option
  - -24% impervious
  - No BMPs for Stormwater Treatment
  - -30' Buffers on Perennial Streams
  - Provision to go to 36% without curb and gutter

# State Requirements for Reservior Watershed Protection WS-IV

- High density option
  - -70% Impervious
  - **–BMPs for Stormwater Treatment** 
    - 85% TSS
    - 1st inch of runoff
    - Draw down below the water surface
  - -100' Buffers on Perennial Streams

# **Cary Stormwater Requirements**

- Mirrors Neuse Nutrient Sensitive Waters Rules
  - Uses BMPs to meet 3.6 Nitrogen Target
  - Peak Discharge mitigated to predev.
     1 yr 24 hr storm
  - -Stream Buffers
    - 100' if shown on USGS maps
    - 50' intermittent streams (soils maps)

# Jordan Lake TMDL Proposed

- Reduction Below 2001 Conditions
- Upper New Hope
  - -New Development N 2.2, P .82
  - -Existing Development 35% Reduction
  - Agriculture 35% Reduction

# Jordan Lake TMDL Proposed

- Lower New Hope
  - -New Development N 4.4, P 0.78
  - Existing Development Capped at Baseline
  - -Agriculture Capped at Baseline

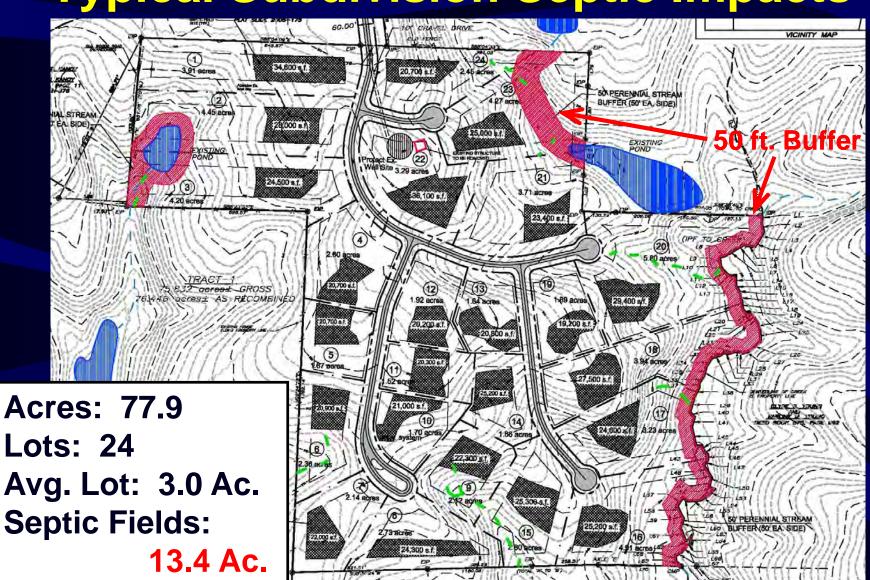
# **Water Quality & Density**

- Protecting Water Resources with Higher Density Development EPA 206
- Low Density Alone Does Not Protect Water Quality
- To Protect Water Quality
  - Preserve Open Space
  - Preserve Ecologically Sensitive Areas
  - Minimize Impervious Cover and Land Distrubance

# NC DWQ Jordan Lake Model

Land use description	TN	TP
Barren	45.96	29.92
Commercial/Heavy Industrial	24.05	3.70
Forest	1.59	0.33
Office/Light Industrial	16.47	2.63
Pasture	5.69	1.08
Residential <0.25 ac per du (sewered)	15.03	2.47
Residential – 0.25-0.5 ac per du (sewered)	11.86	2.00
Residential – 0.5-1.0 ac per du (sewered)	11.72	1.94
Residential – 0.5-1.0 ac per du (unsewered)	41.42	2.03
Residential – 1.0-1.5 ac per du (sewered)	10.89	1.81
Residential – 1.0-1.5 ac per du (unsewered)	28.71	1.86
Residential – 1.5-2.0 ac per du (sewered)	9.37	1.71
Residential – 1.5-2.0 ac per du (unsewered)	22.09	1.74
Residential – 2.0+ ac per du (sewered)	2.49	0.60
Residential – 2.0+ ac per du (unsewered)	11.40	0.63
Row Crop	13.37	5.32
Urban Green Space	3.57	0.61
Water	0.00	0.00
Wetland	2.20	0.40

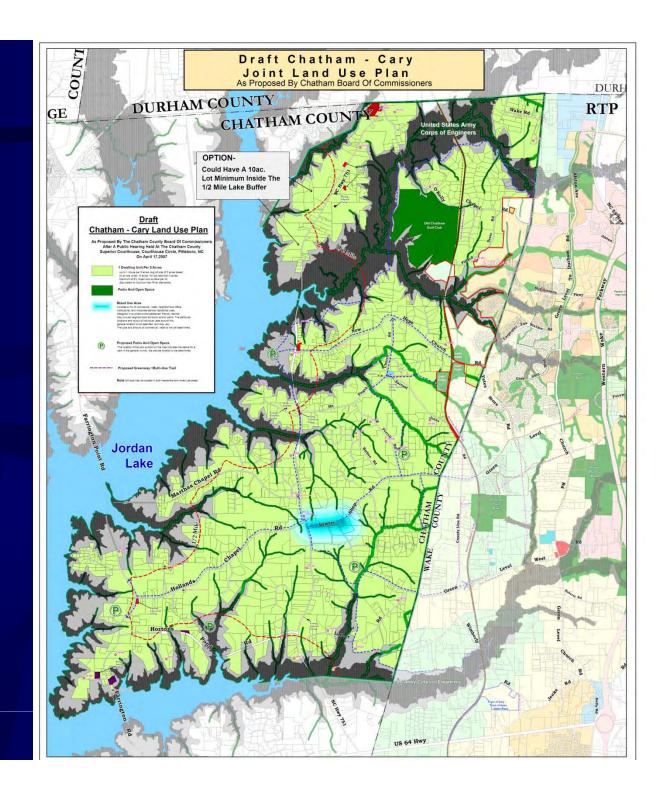
#### **Typical Subdivision Septic Impacts**



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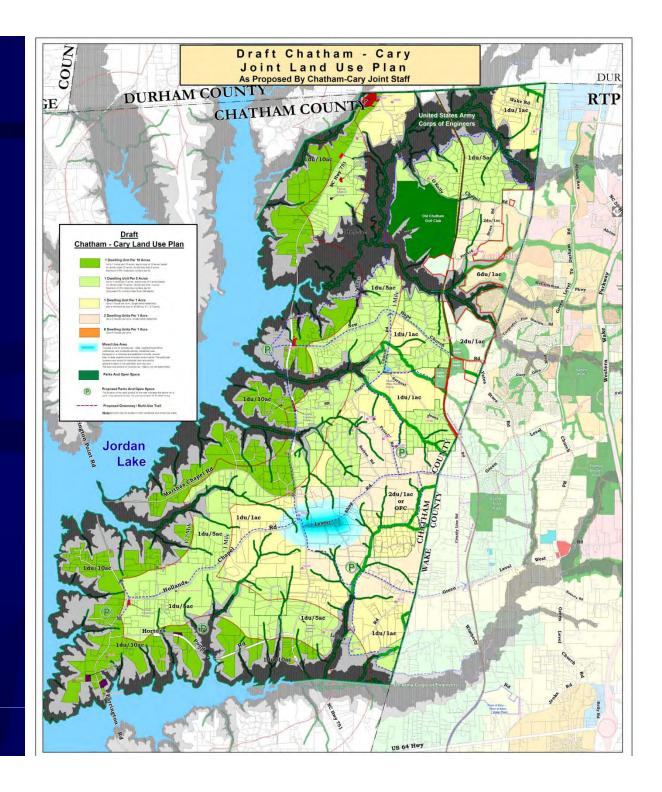
# Chatham B.O.C. Proposal

**May 2007** 



# Joint Staff's Draft Plan

Feb. 2007



### FYI: Land Use Comparison

	Acres	
Land Use	<b>Staff Plan</b>	<b>BoC Plan</b>
1 Unit Per 10 Acres	2,262	0
1 Unit Per 5 Acres	3,958	10,741
1 Unit Per Acre	2,716	0
2 Units Per Acre	1,746	0
Mixed Use Area	~60	0

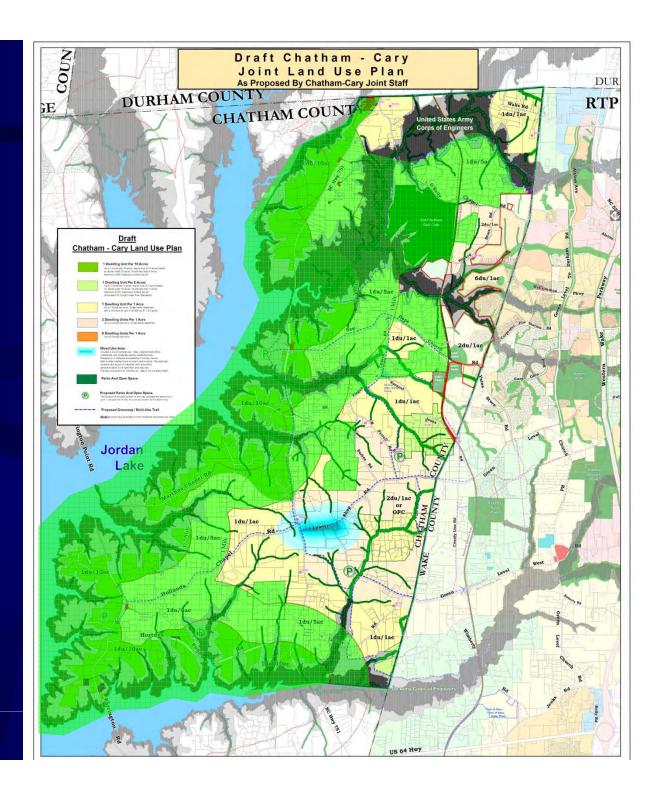
#### **FYI: Buildout Comparison**

(Theoretical *Maximums*)

Plan Scenario	Units
<b>Current Zoning (R40)</b>	9,200
Joint Staff Plan	7,500
Current Zoning, w/ Min. Lot Size = 3 Ac. For Septic	3,500
<b>BoC Plan</b>	2,200-2,400

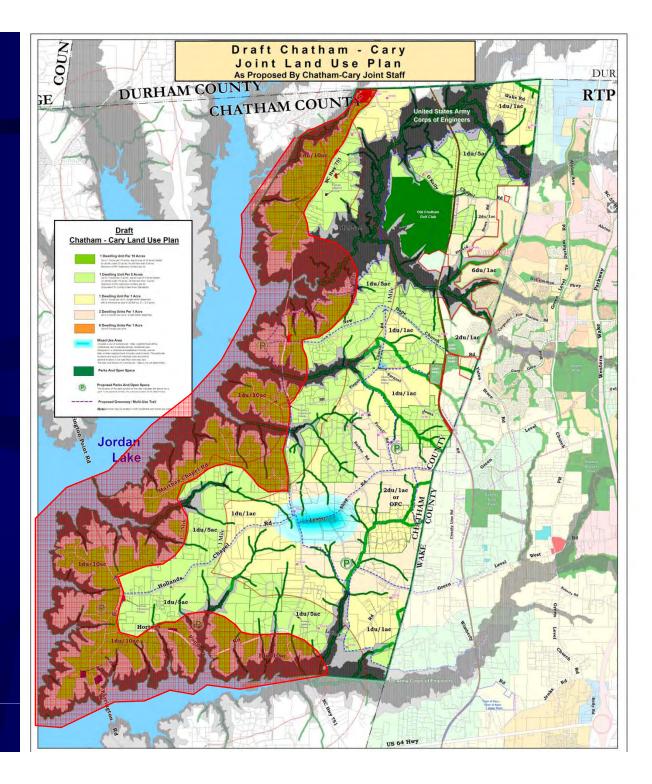
# Areas Of Agreement

- In green,shown overJoint StaffPlan
- > = 58% Of Plan Area



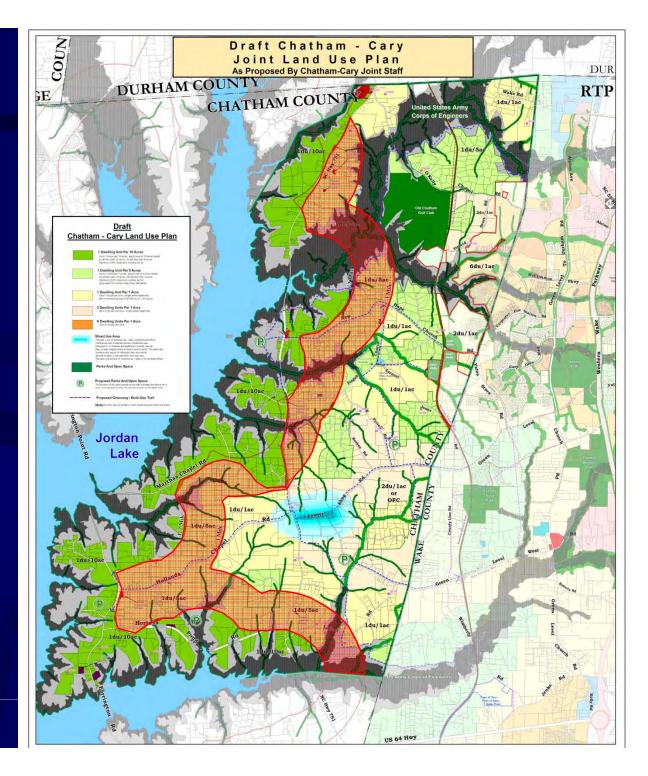
# Discussion Topic #1

Is the B.o.C.
willing to
down-zone the
area within
½ mile of the
lake to 1 house
per 10 acres?



# Discussion Topic #2

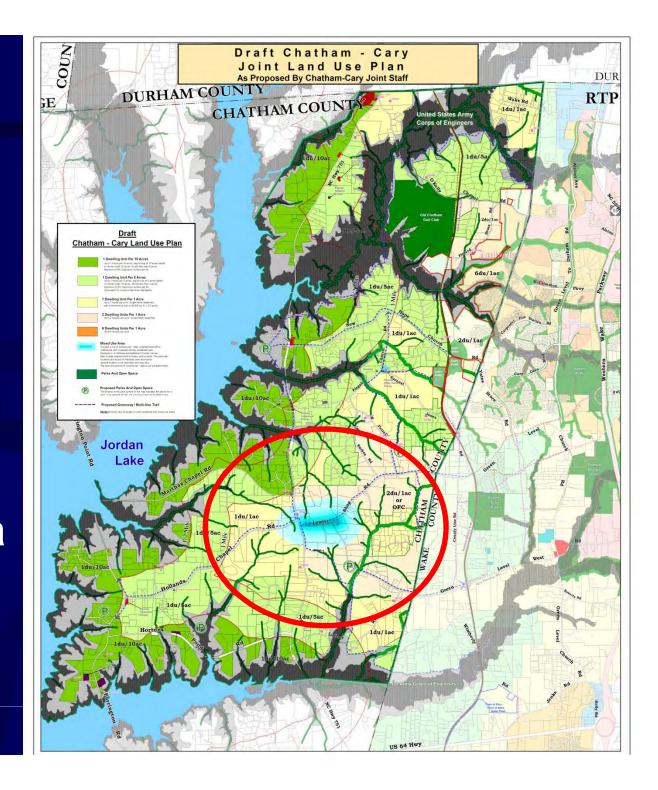
Is the B.o.C. willing to down-zone the area between 1/2 and 1 mile of the lake to 1 house per 5 acres?

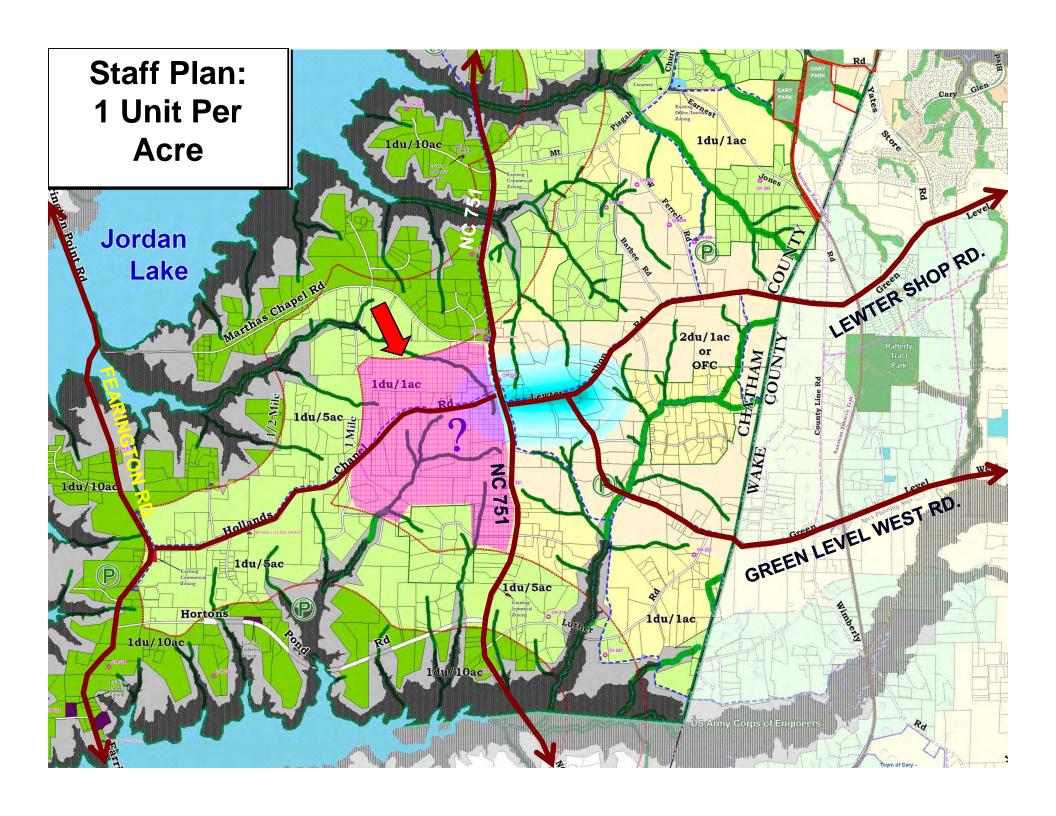


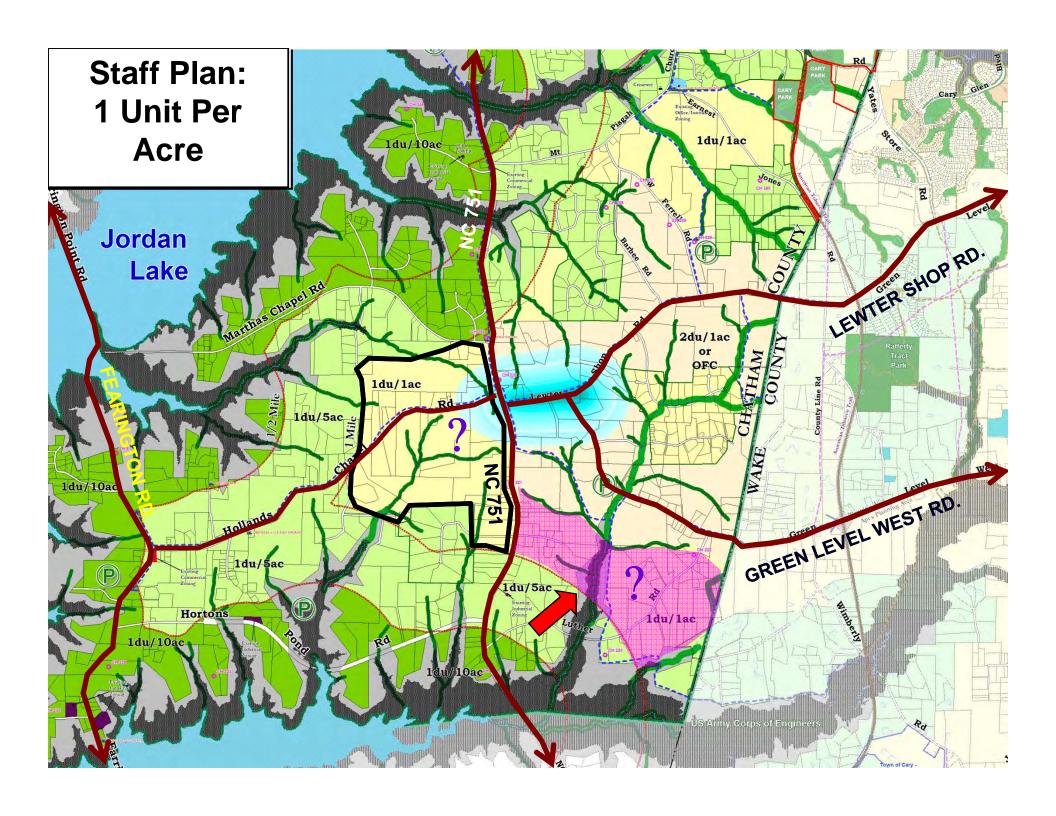
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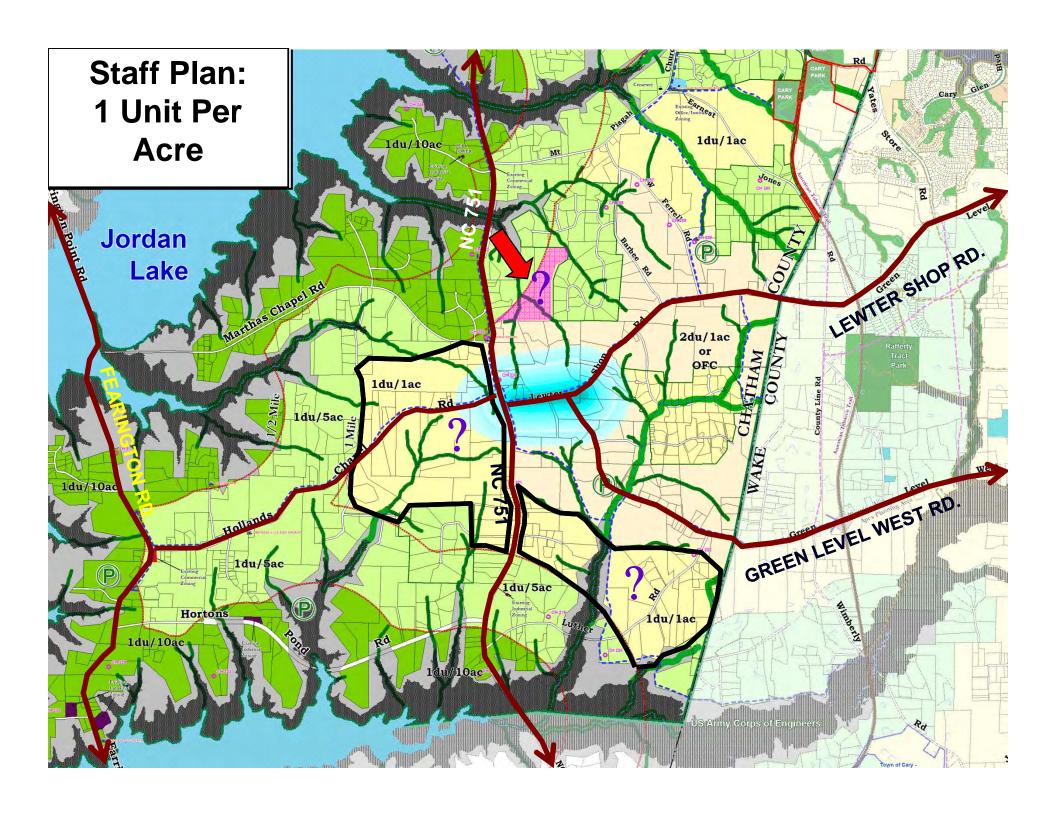
## Discussion Topic #3:

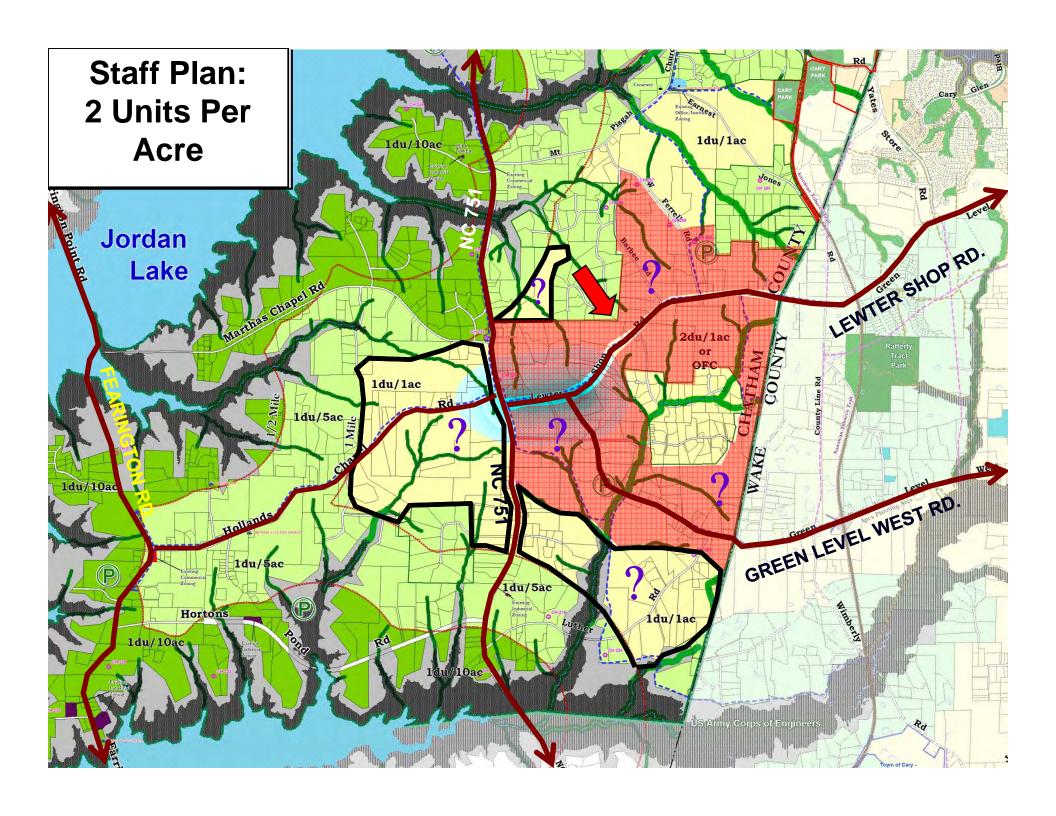
Resolution of Land Uses in Southern Area

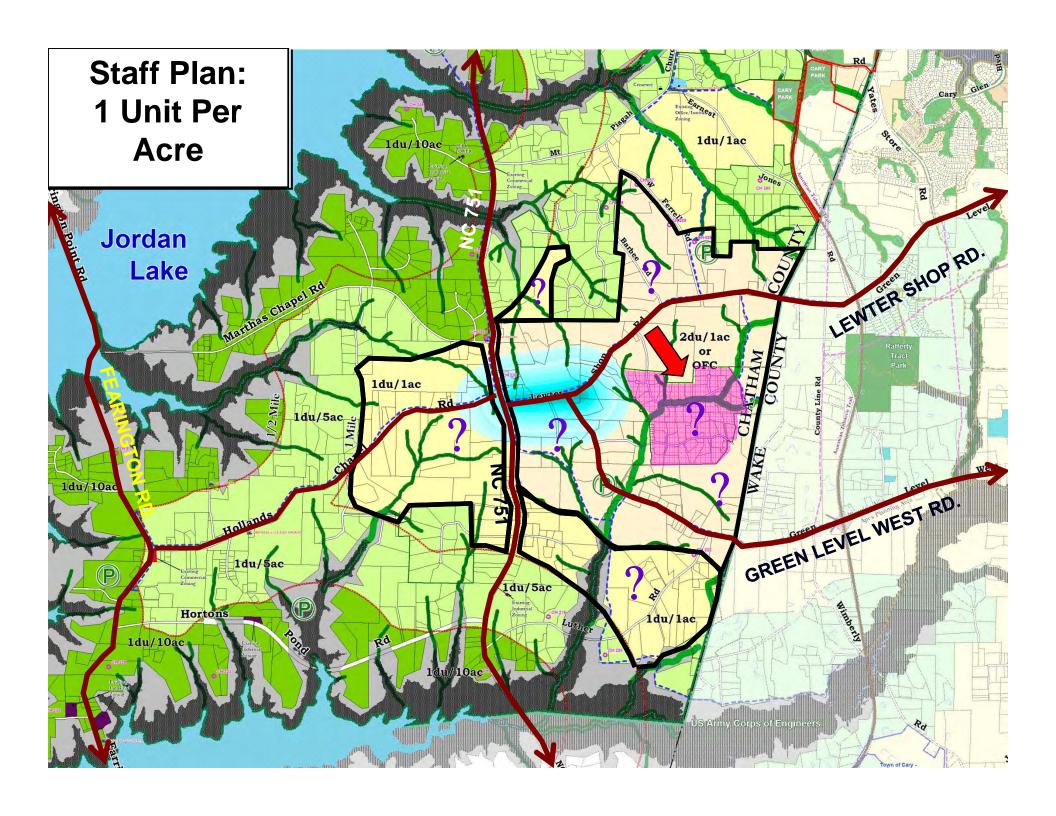


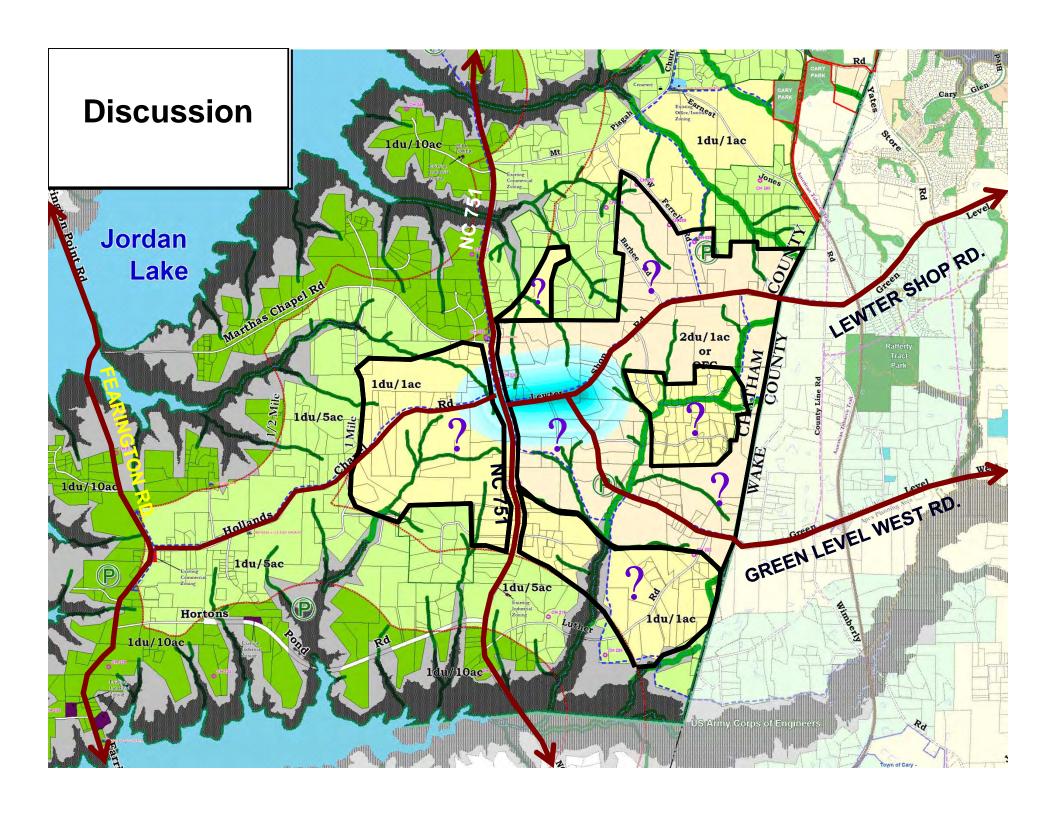






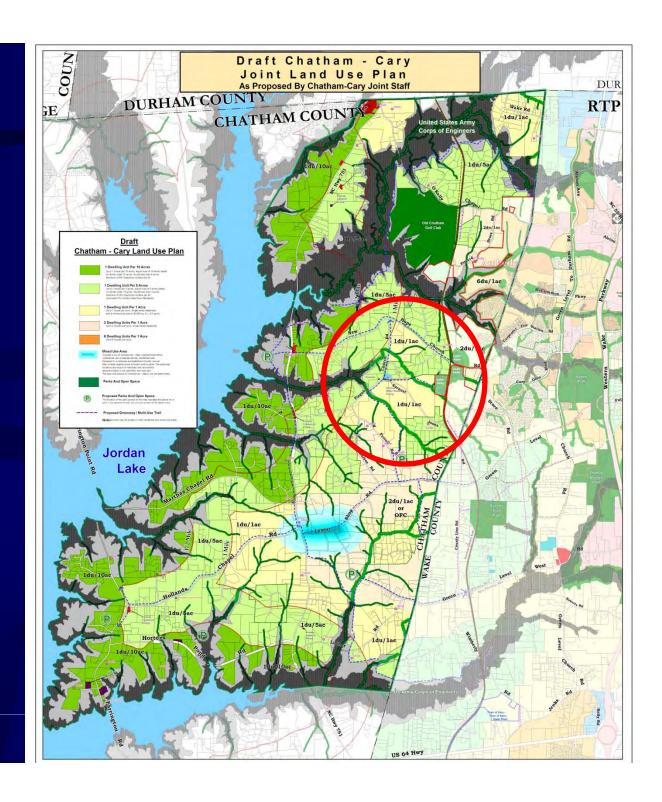


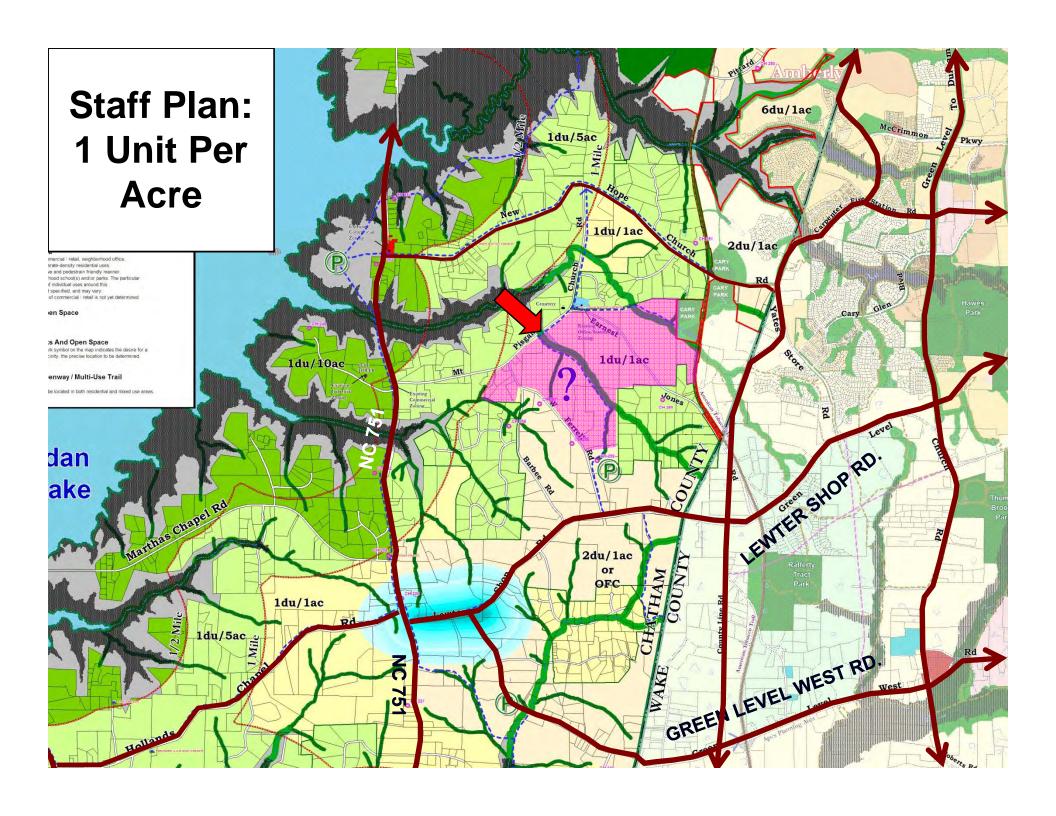


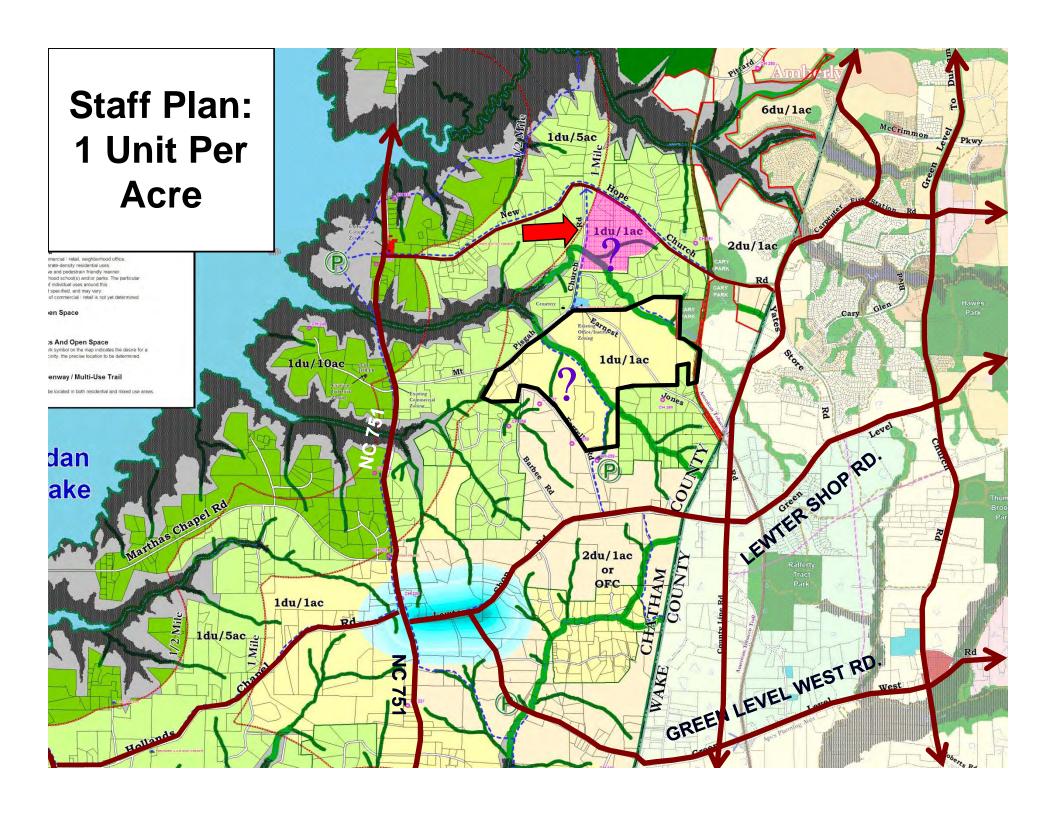


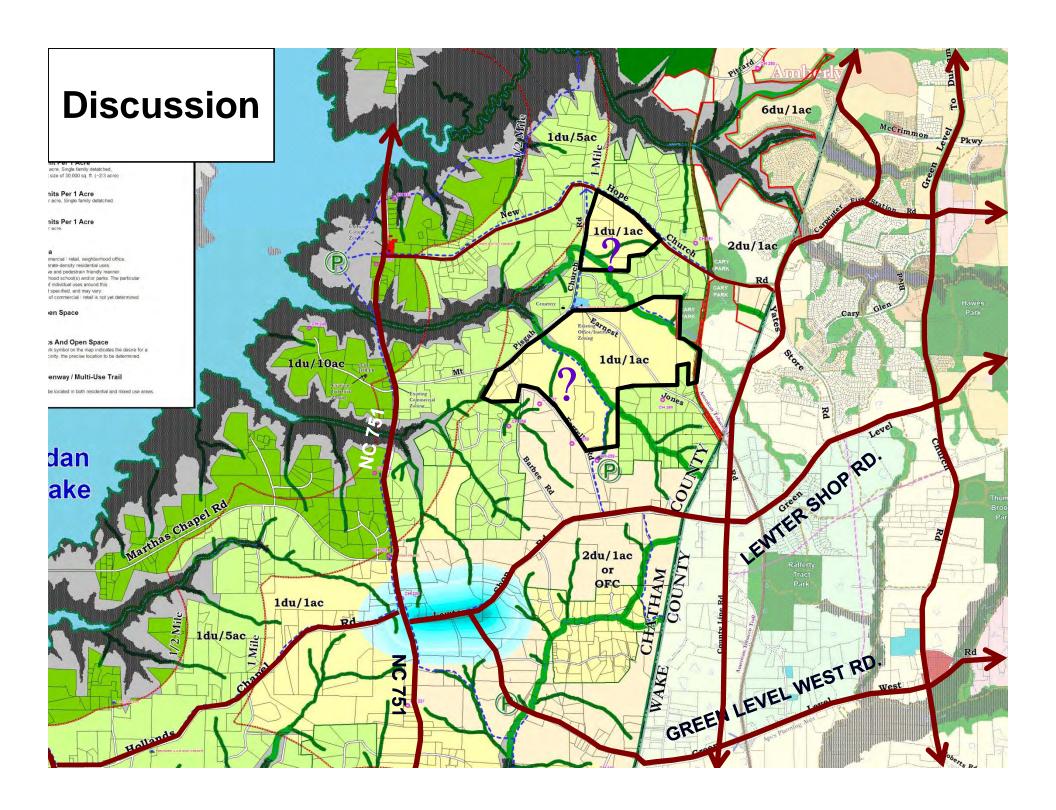
## Discussion Topic #4:

Resolution of Land Uses in Central Area



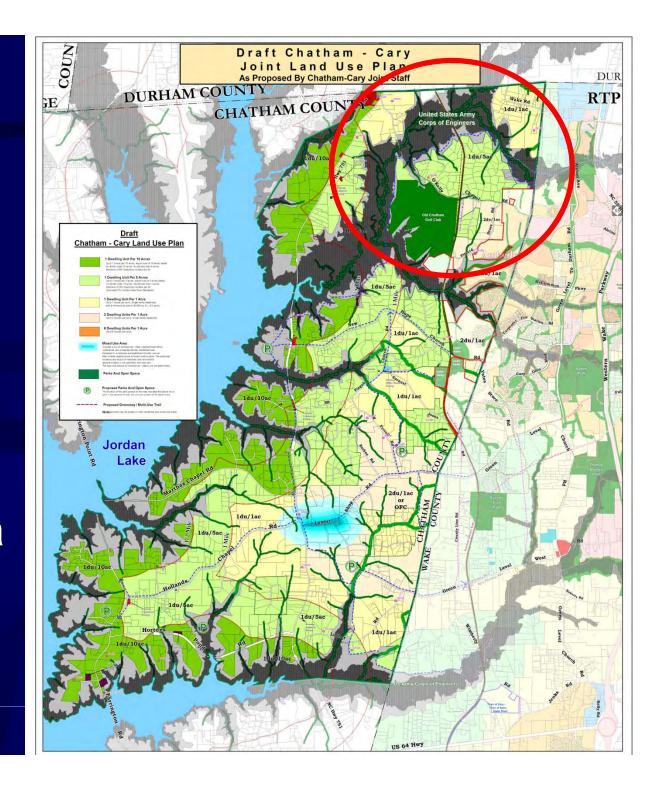


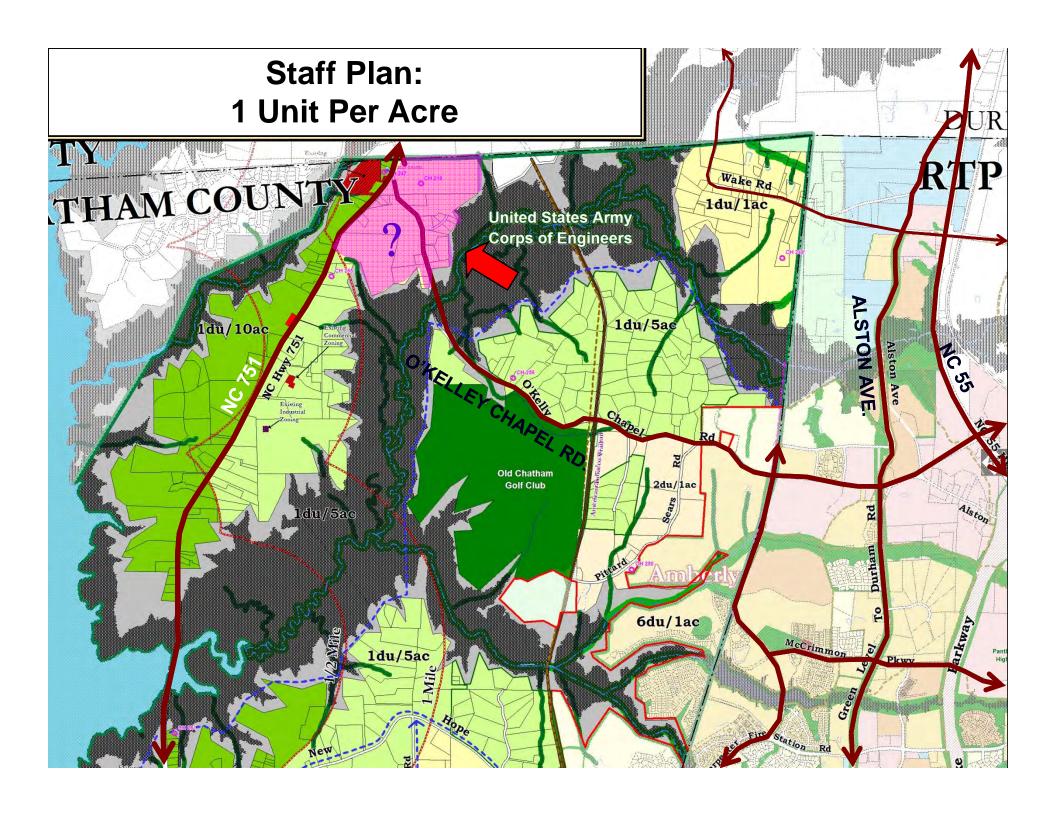


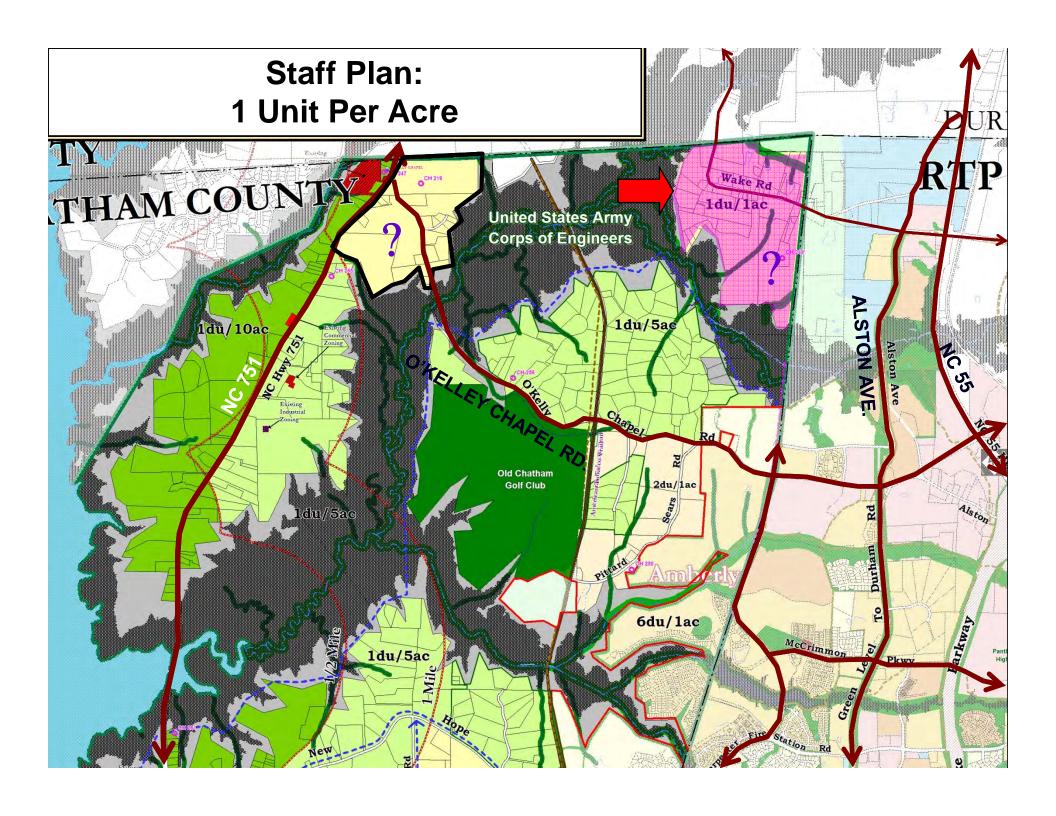


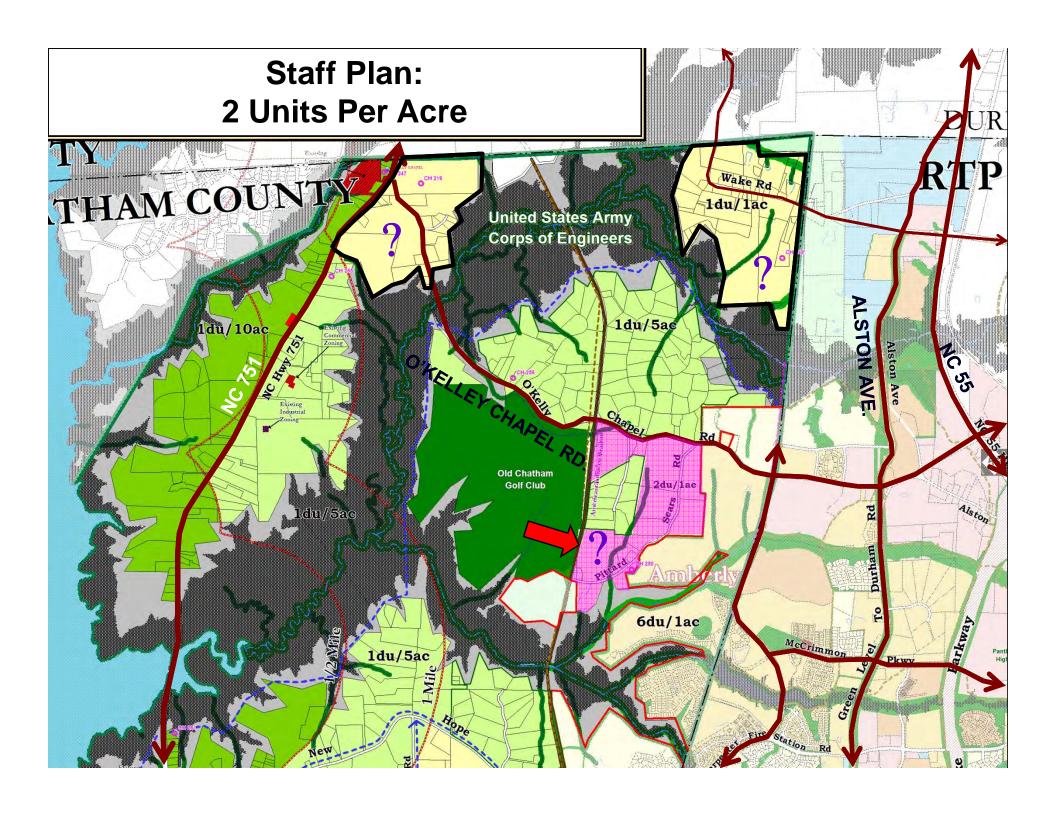
## Discussion Topic #5:

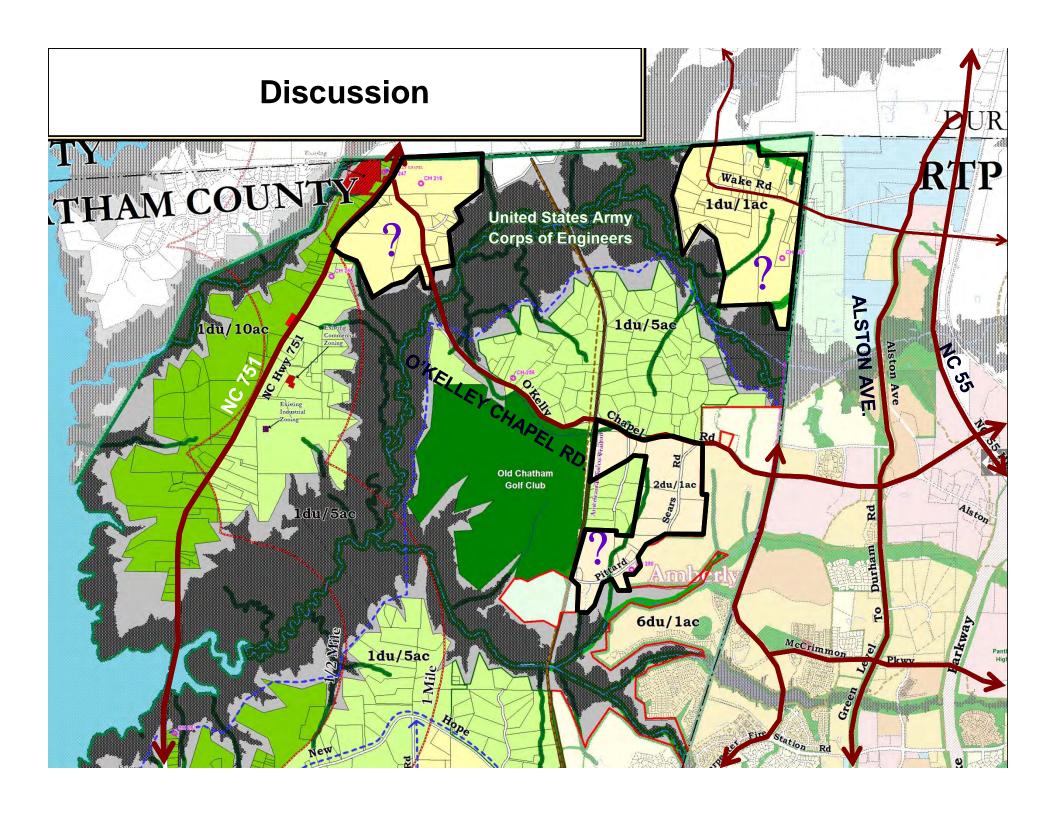
Resolution of Land Uses in Northern Area











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#### 8. Moratoria

- a) Update on Chatham County Subdivision Moratorium
- b) Update on Cary Annexation Moratorium (Expires Sep. 28)
- c) Consider a Chatham County Rezoning Moratorium Within Study Area?

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### 9. Next Steps - Schedule

- a) Join Staff Will Revise The Schedule And The Plan Based on Tonight's Direction
- b) 3<sup>rd</sup> Community Meeting
- c) Staff Evaluates Public Input, then Makes Further Plan Revisions
- d) 3<sup>rd</sup> Joint Work Session?
- e) Commence Joint Public Hearing & Adoption Process

### 9. Other Next Steps

**Board And Council Will Need To Decide On:** 

- a) Joint Plan Adoption Procedures
- b) The Plan's Official Policy Status
- c) Implementation Methods and Procedures

### **Closing Discussion**

