

# Meeting Notes

## Wake Forest, NC Comprehensive Transportation Plan

May 1st, 2018 @ 2 PM, Technical Steering Committee Meeting #2



### Attendees

Ray Boylston, Citizen  
Bill Crabtree, Wake Forest  
Candace Davis, Wake Forest  
Christa Greene, Stantec Consulting  
Vivian Jones, Mayor, Wake Forest  
Eric Keravuori, Wake Forest  
Suzette Morales, Wake Forest Project Manager  
Chip Russell, Wake Forest  
Colleen Sharpe, Citizen  
Brendie Vega, Wake Forest  
J. Scott Lane, Stantec Project Manager

### Synopsis of Comments

Mr. Lane thanked the committee for attending the second of their meetings, noting that this was the first “themed” meeting where the group would focus on a single mode transportation (roadways, in this instance). One of the action items from the preceding Technical Committee meeting was to invite guest speakers relevant to that meeting topic. Mr. Lane introduced Christa Greene, a principal with Stantec Consulting and long-time Wake Forest resident who has done a lot of prior traffic-related work in and around the community.

Ms. Greene using a PowerPoint presentation (attachment #1) talked about the history of the town, emphasizing how it has grown and changed since she became a resident. She also discussed the current STIP (State Transportation Improvement Program) and other, active projects in town. She finished her presentation by noting the need expressed by many to continue to build on the bike-able and walkable nature of the Town, and for protecting corridors and corridor capacity (e.g., through access management and controlled designs).

The group then discussed roadway-related matters, using a base map as a point of discussion. Mr. Lane also pointed out the volume-to-capacity ratio (V/C) and crash maps that were brought to the meeting, which might help illustrate the issues. These comments from the Technical Steering Committee included the following; additional written comments on the map are shown as an attachment (attachment #2):

- Obtain copy of NC 98 Corridor study report to relate to roadway recommendations
- Foundation Drive Extension plan
- Include roads that make new connections / increase connectivity
- Similarly, show connector / collector streets on map, including recent developments

- Consider environmental constraints (e.g., stream crossings) when contemplating new connections or roadways on new location
- Cross-Section for Averette available
- Coordinate with Rolesville on Rogers Road plans
- The plan should strongly emphasize safety, and include a Vision Zero element
- SE High-Speed Rail grade separation plan available
- Note service roads on east side of US Highway I

The group's attention was directed to the agenda, which contained the following future meeting information:

- Technical Committee Meeting: May 23, 2018 at 2pm
- Project Symposium: May 23, 2018 at 4pm

The meeting adjourned at approximately 3:30pm.

**Action Items:**

1. (Wake Forest) Homework: Take 5 photos of potential transportation projects or issues that you notice in Wake Forest before next Technical Steering Committee meeting by end of May
2. Eric Keravuori to send NC 98 corridor study, Foundation Drive plan, Railroad grade separation / plan, Averette Drive cross-section to Mr. Lane

*attachments: (1) Christa Greene presentation, (2) Steering Committee map comments*

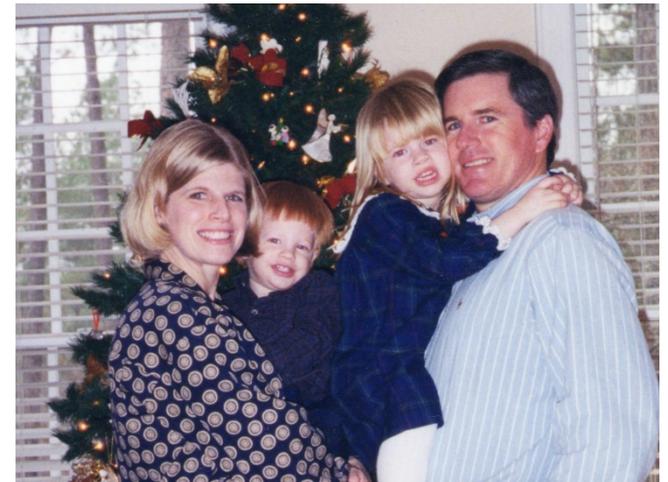
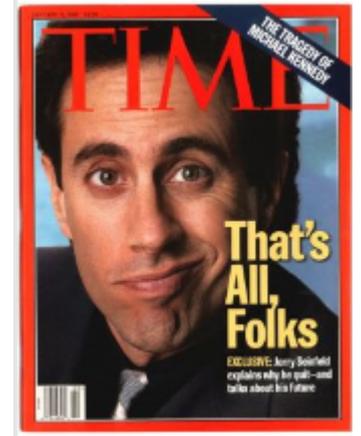


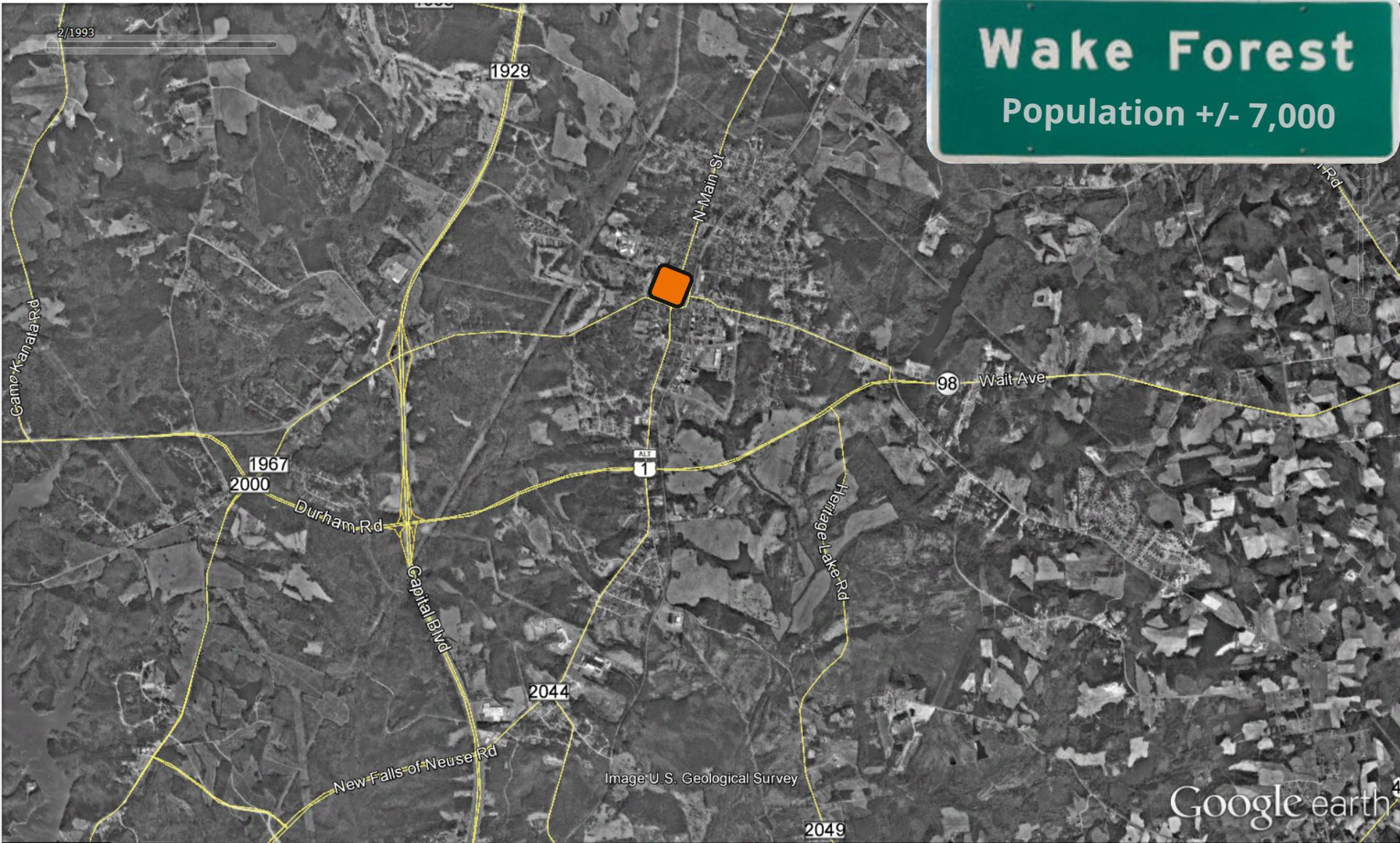
# Two Decades in Wake Forest: Through the Eyes of a Traffic Engineer

Presented by Christa Greene, PE  
May 1, 2018

# What was happening in 1998?!?

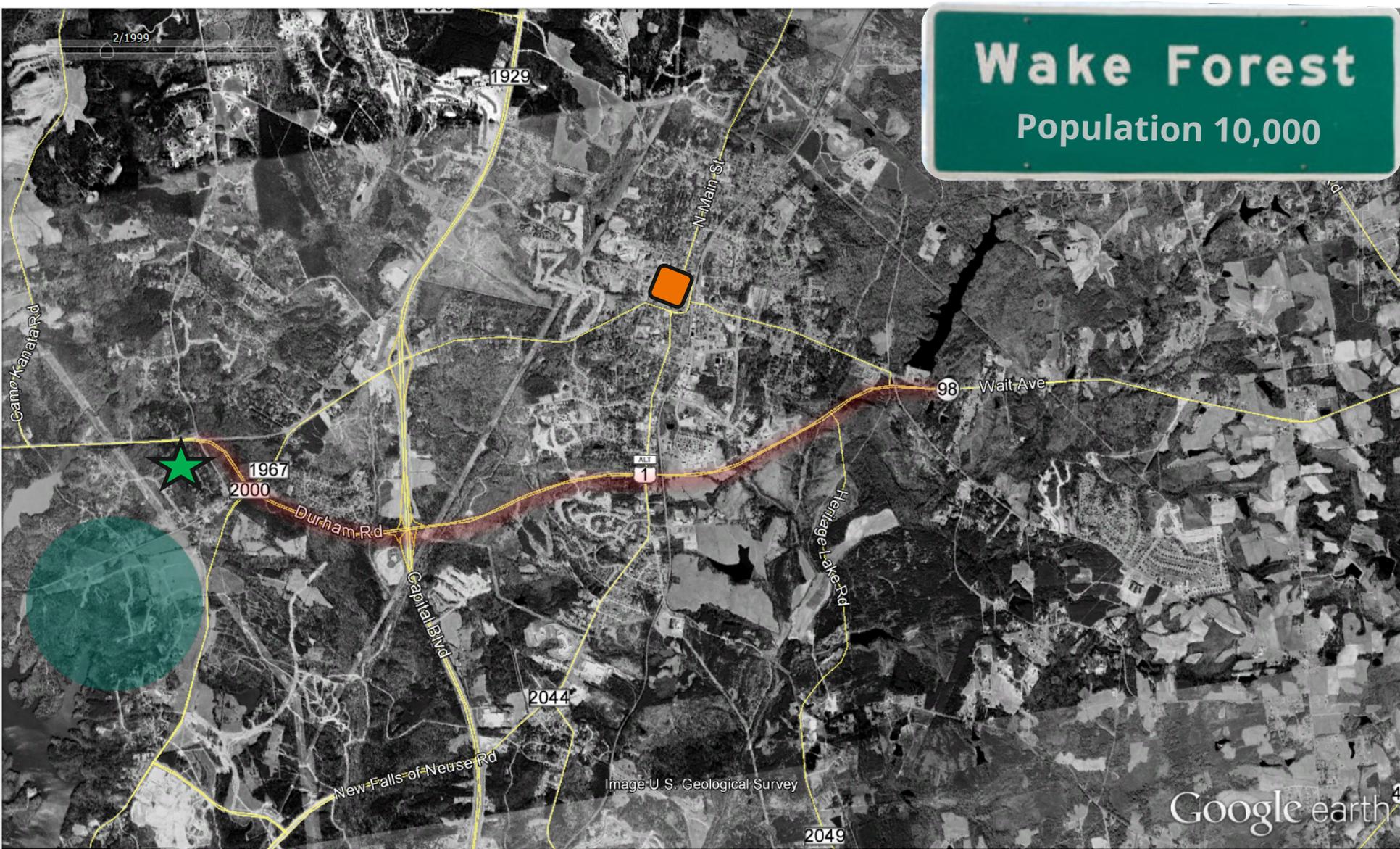
Google





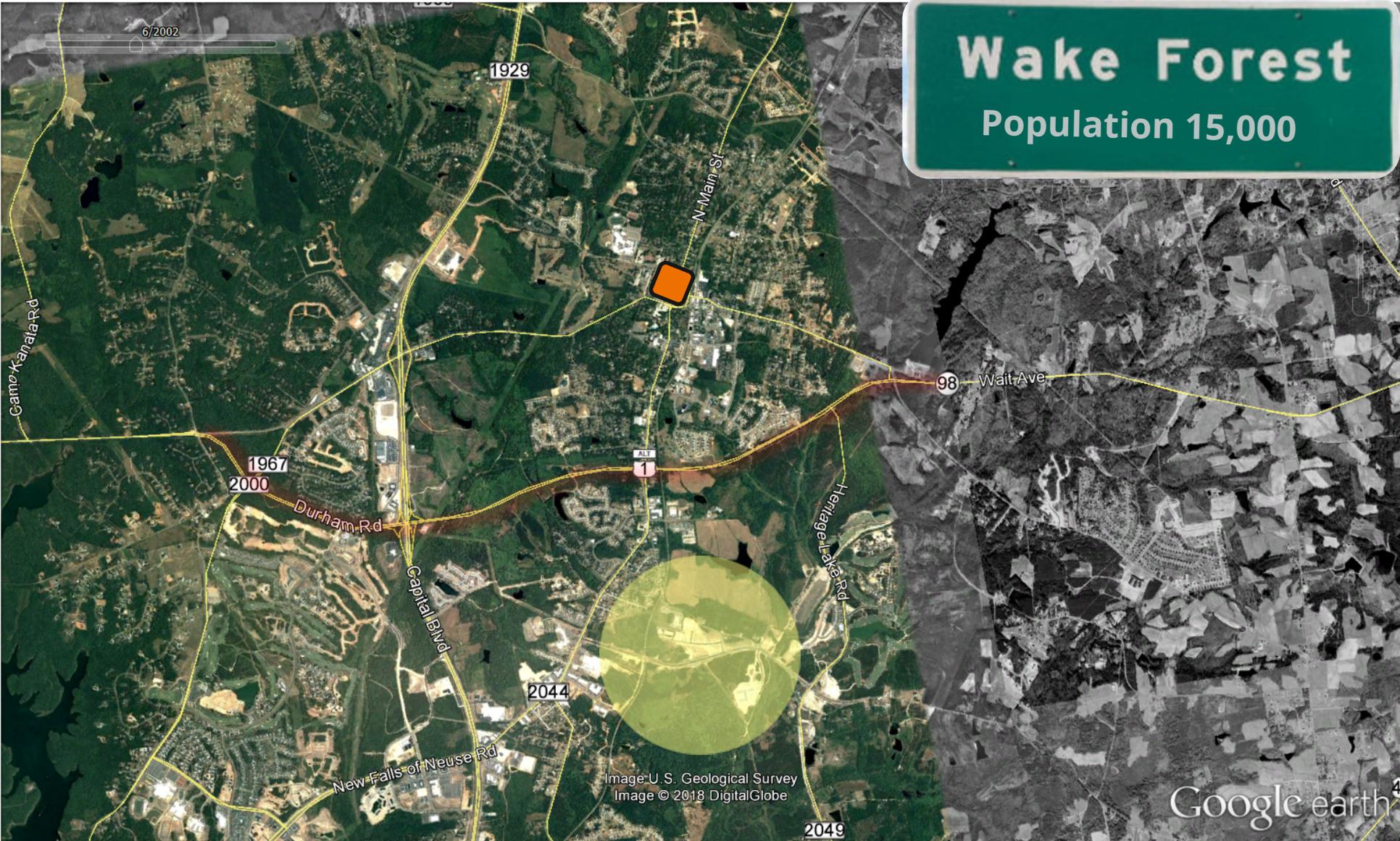
**Wake Forest**  
Population +/- 7,000

February 1993



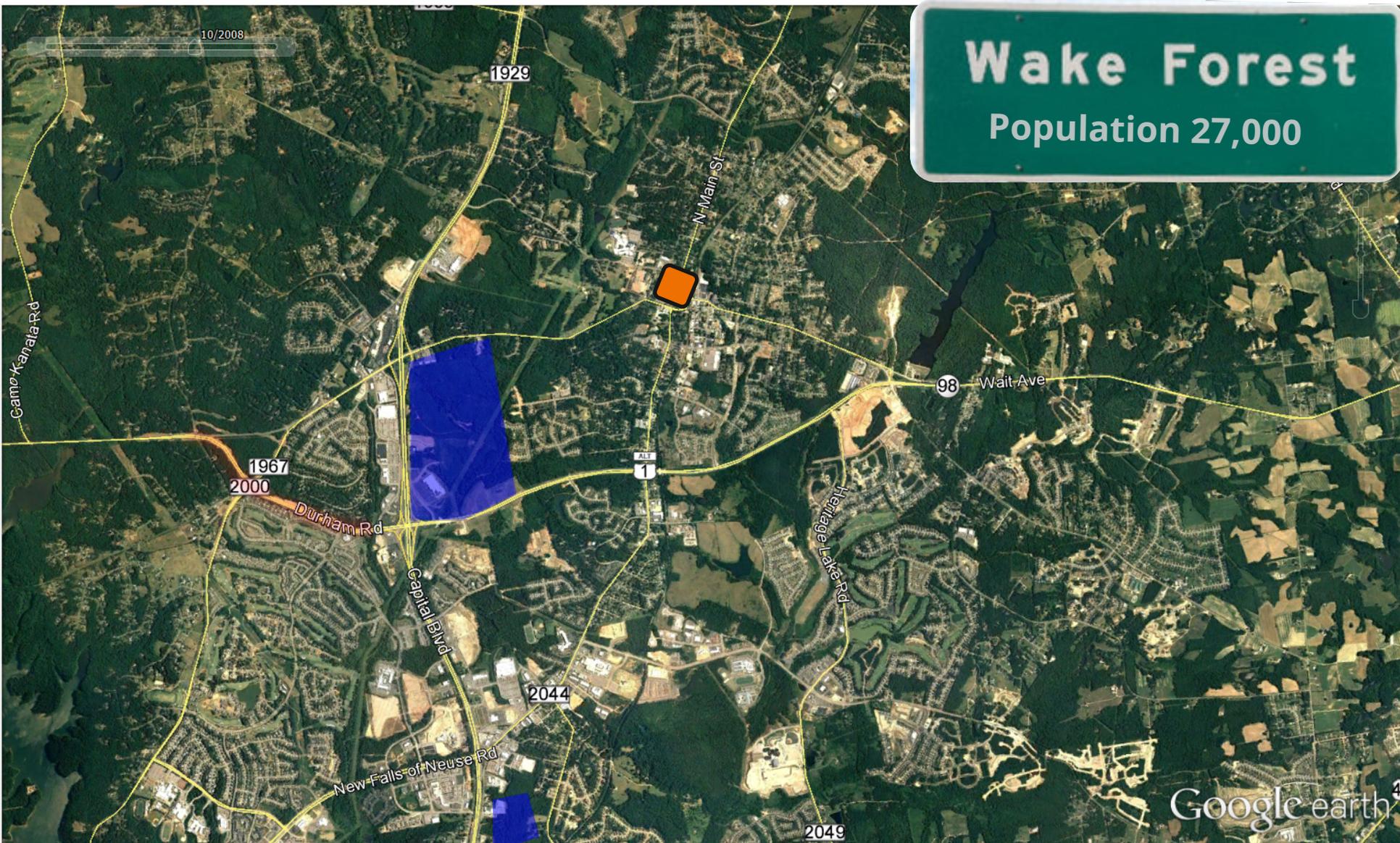
**Wake Forest**  
Population 10,000

February 1999



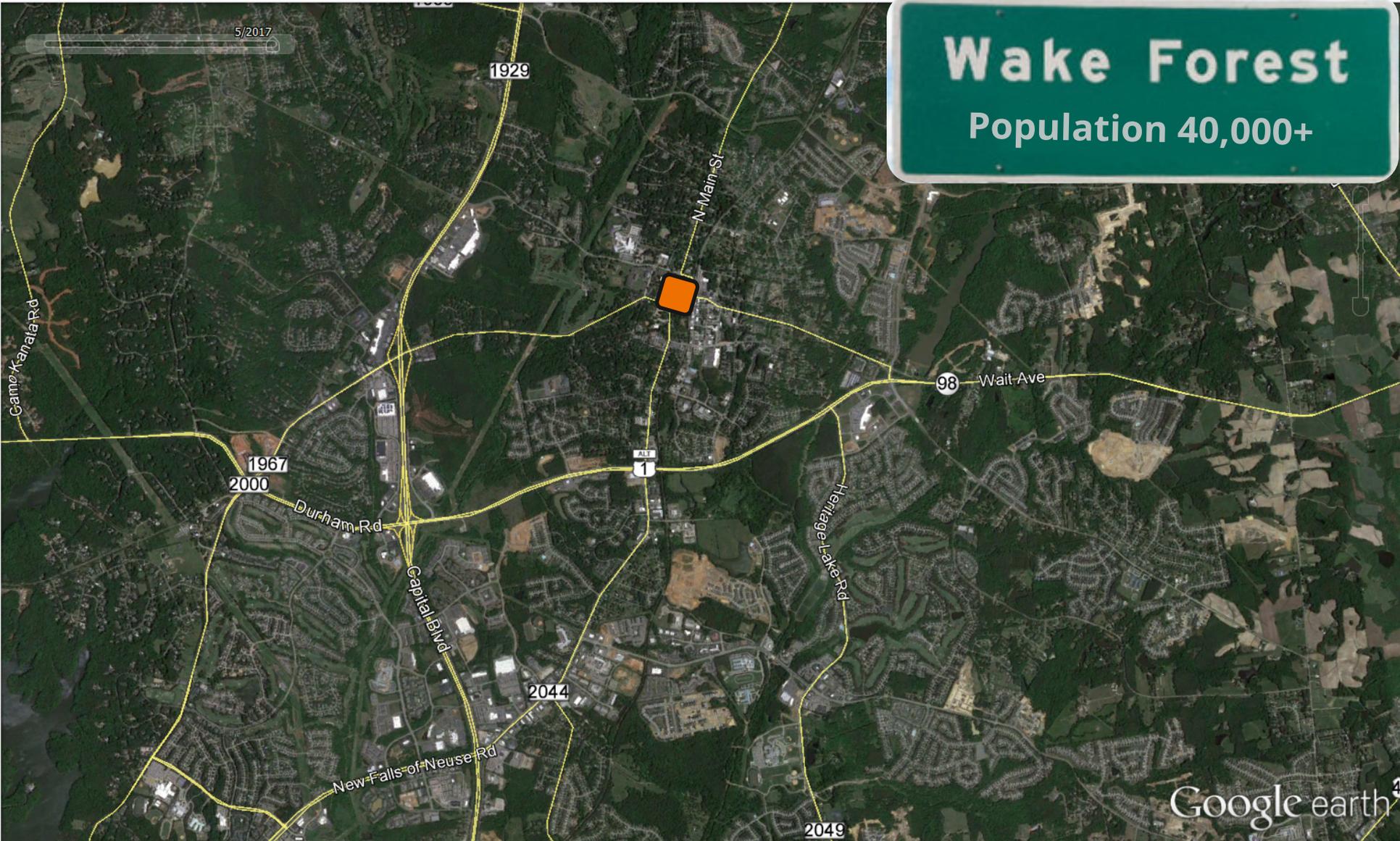
**Wake Forest**  
Population 15,000

June 2002



**Wake Forest**  
Population 27,000

October 2008



**Wake Forest**  
Population 40,000+

May 2017

tip:U-5307D

Mode: Highway

Route / City: US 1

Description: SOUTH OF NC 98 TO SR1909 (PURNELL ROAD) / SR 1931 (HARRIS ROAD) IN WAKE FOREST.

SPOT ID: H151040

Funding Category: REG

ROW Year: 2024

Const. Year: 2024

Project Cost: \$90,112,000.00

Mode: BikeandPed

Route / City: WAKE FOREST BYPASS GREENWAY

Description: NC 98 (DURHAM ROAD) TO SR 5144 (HERITAGE LAKE ROAD) IN WAKE FOREST. CONSTRUCT GREENWAY.

SPOT ID: B150634

Funding Category: DIV

ROW Year:

Const. Year: 2025

Project Cost: \$3,960,000.00

tip:U-5307D

Mode: Highway

Route / City: US 1

Description: SOUTH OF NC 98 TO SR1909 (PURNELL ROAD) / SR 1931 (HARRIS ROAD) IN WAKE FOREST.

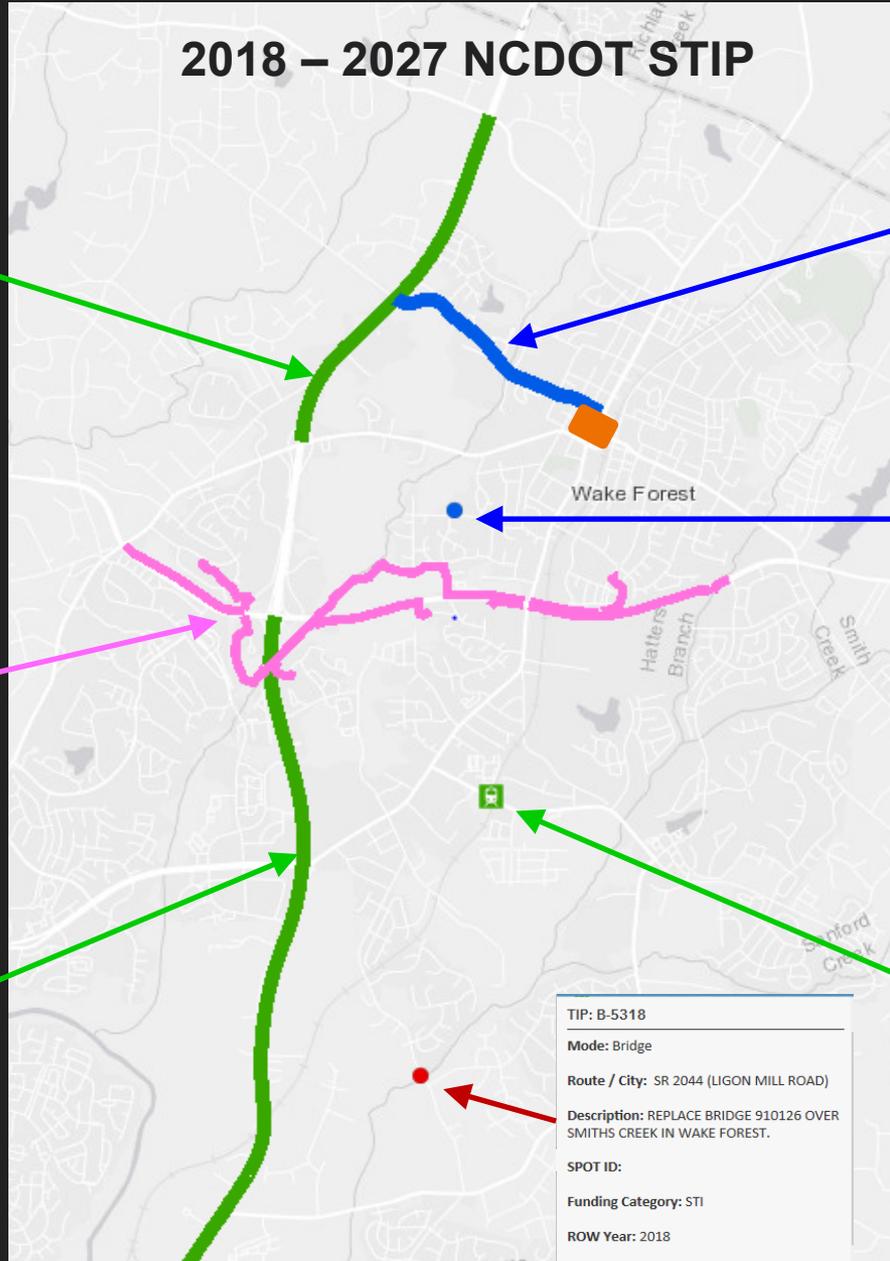
SPOT ID: H151040

Funding Category: REG

ROW Year: 2024

Const. Year: 2024

Project Cost: \$90,112,000.00



tip:U-5515

Mode: Highway

Route / City: SR 1930 (STADIUM DRIVE) SR 1933 (WEST NORTH AVENUE)

Description: SR 1930 (STADIUM DRIVE), US 1 TO SR 1954 (NORTH WINGATE STREET) IN WAKE FOREST. COMPLETE STREETS IMPROVEMENTS TO INCLUDE: WIDEN TO THREE-LANE CURB AND GUTTER SECTION, CONSTRUCT SIDEWALK, MULTIUSE PATH, BICYCLE LANES, AND PEDESTRIAN / TRANSIT AMENITIES.

TIP: U-6023

Mode: Highway

Route / City: VARIOUS

Description: TOWN OF WAKE FOREST. CONSTRUCT TOWNWIDE ITS / SIGNAL SYSTEM.

SPOT ID: H150747

Funding Category: DIV

ROW Year: 2019

Const. Year: 2020

Project Cost: \$2,122,000.00

TIP: B-5318

Mode: Bridge

Route / City: SR 2044 (LIGON MILL ROAD)

Description: REPLACE BRIDGE 910126 OVER SMITHS CREEK IN WAKE FOREST.

SPOT ID:

Funding Category: STI

ROW Year: 2018

Const. Year: 2019

Project Cost: \$4,704,000.00

TIP: P-5707

Mode: Rail

Route / City: CSX S LINE

Description: CONSTRUCT GRADE SEPARATION AT ROGERS ROAD EXTENSION CROSSING (633905Y) IN WAKE FOREST.

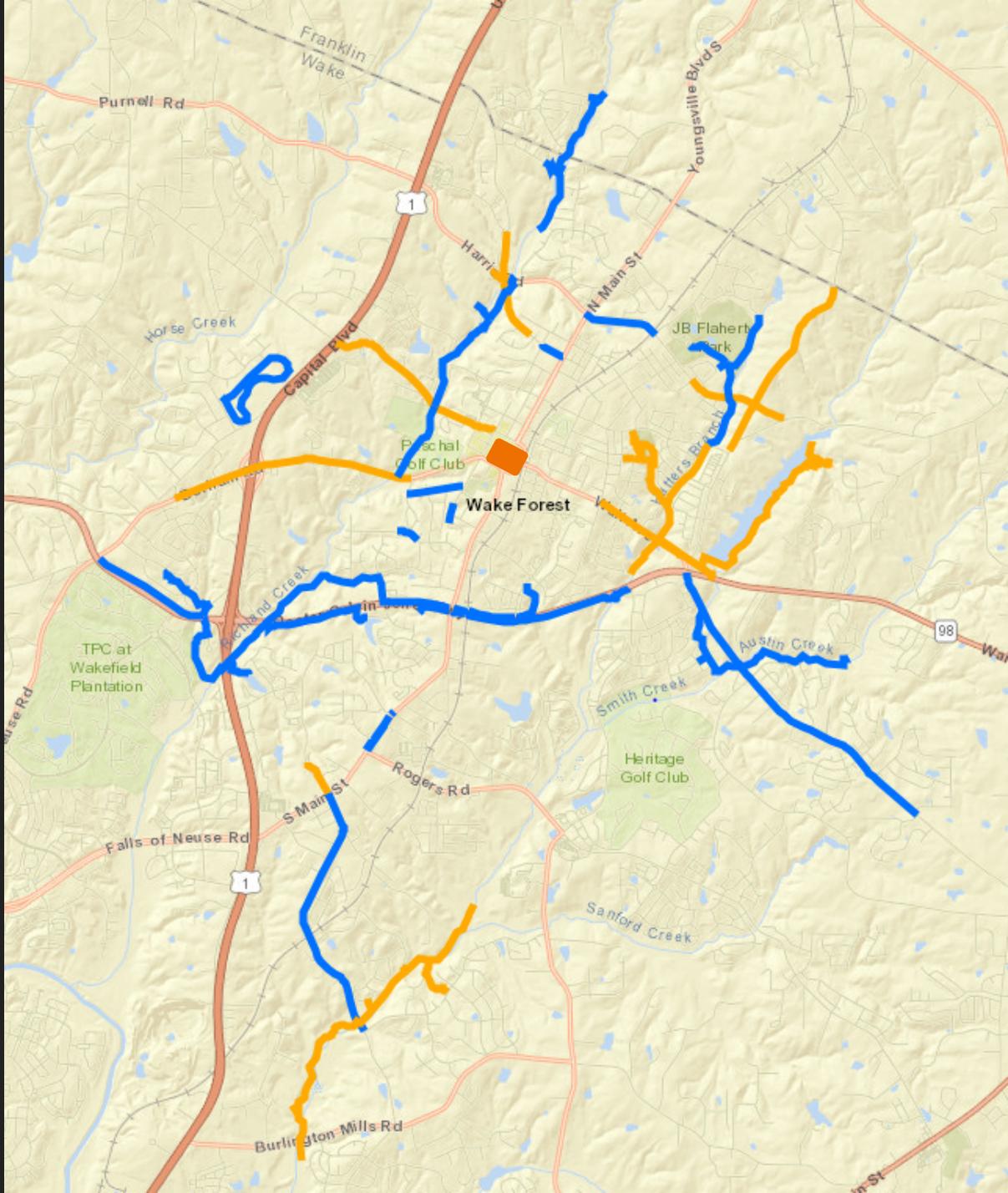
SPOT ID: R140025

Funding Category: REG

ROW Year: 2018

Const. Year: 2020

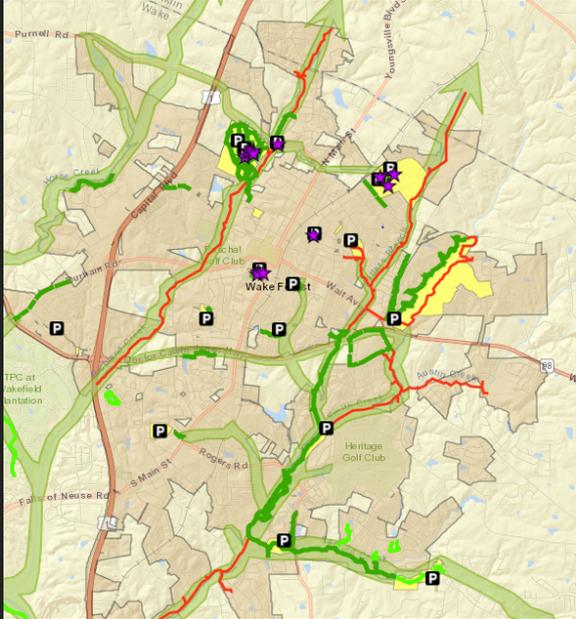
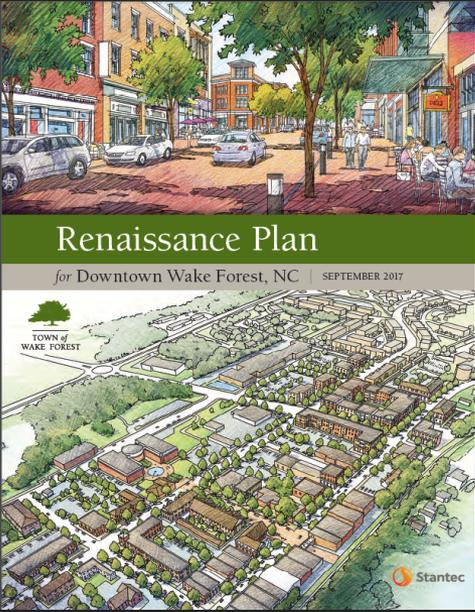
Project Cost: \$10,890,000.00



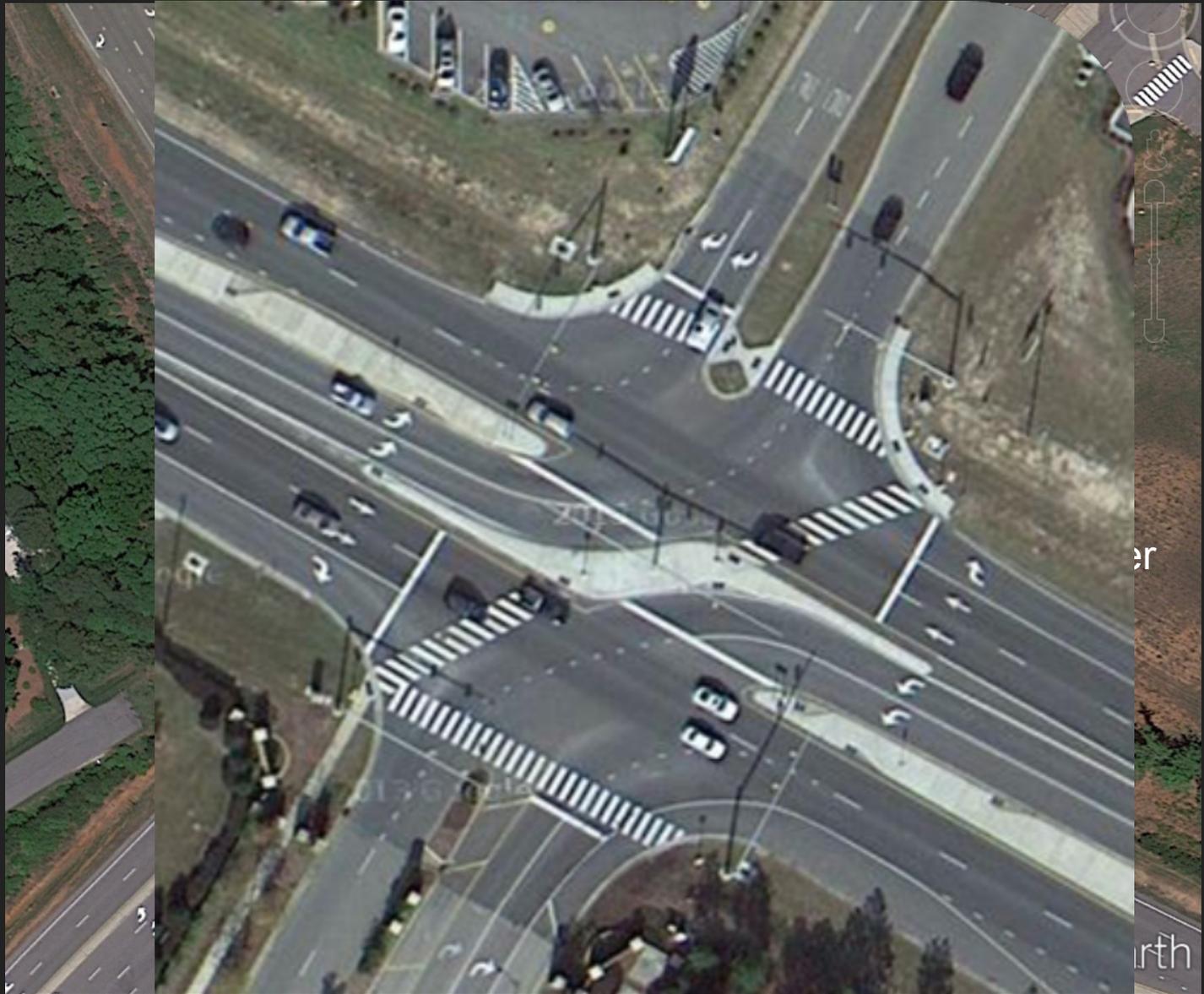
## Active Projects

- [Wayfinding Signage for Parks and Greenways, Phase 1](#)
- [Stadium Drive - Complete Street](#)
- [Priority Pedestrian Corridors](#)
- [Ligon Mill Road Operational Improvements](#)
- [Durham Operational Road Improvements](#)
- [Harris Road Roundabout](#)
- [Smith Creek Greenway, Phase 2](#)
- [Ligon Mill Road Bridge/Underpass](#)
- [Traffic/Pedestrian Signals](#)
- [Road Connections](#)
- Hedrick Property Purchase
- [Richland Creek Stream Repair \(2017\)](#)
- West Oak Avenue Pedestrian Underpass
- [Dunn Creek Greenway - Phase 3](#)
- [Dunn Creek Greenway - Phase 4](#)
- Rogers Road Widening & Pedestrian Underpass
- [Northside Loop/Brick Street Relocation](#)
- [Dunn Creek Greenway - Boardwalk Rehab](#)
- Forestville Road Pedestrian Underpass
- [Ligon Mill Road Underpass](#)
- [Smith Creek Stream Bank Repair](#)
- [2018 Road Resurfacing Project](#)

# Continue to Expand our Walkable / Bikeable / Accessible Community

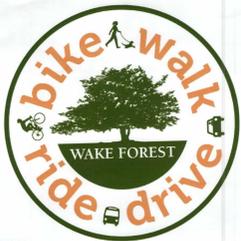


# Protect our New Corridors

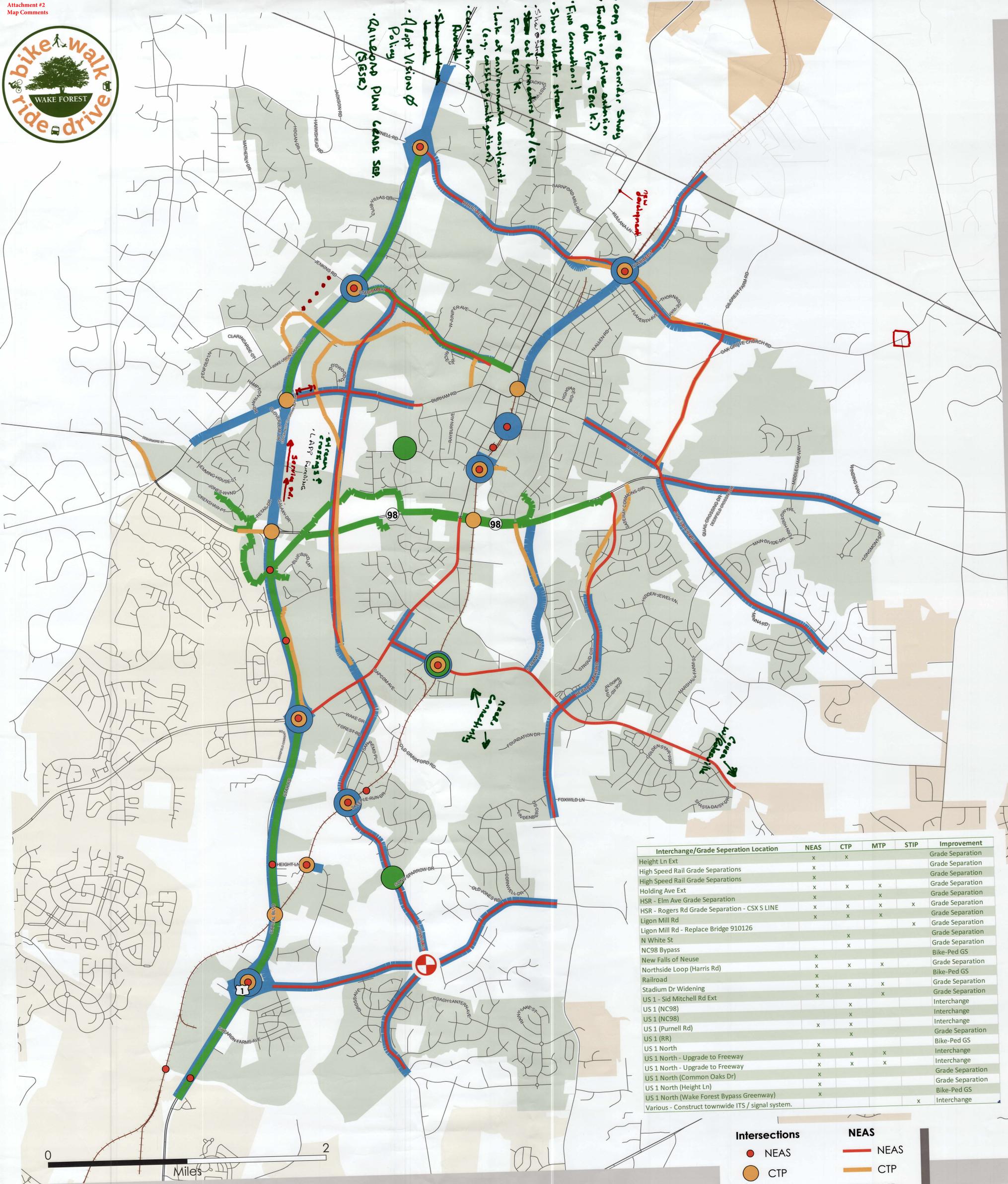




What's NEXT?!?



• Copy of the corridor study  
 • Foundation drive extension  
 plan from EAC K.  
 • Find connections!  
 • Show collector streets  
 on map  
 • Show out connections map/lets  
 from EAC K.  
 • Look at environmental constraints  
 (e.g. existing conditions)  
 • Civil station for  
 Roadside  
 • Show  
 • Adopt Vision of  
 Poling  
 • Various plan grade sep.



Interchange/Grade Separation Location	NEAS	CTP	MTP	STIP	Improvement
Height Ln Ext	x				Grade Separation
High Speed Rail Grade Separations	x				Grade Separation
High Speed Rail Grade Separations	x				Grade Separation
Holding Ave Ext	x	x	x		Grade Separation
HSR - Elm Ave Grade Separation	x			x	Grade Separation
HSR - Rogers Rd Grade Separation - CSX S LINE	x	x	x	x	Grade Separation
Ligon Mill Rd	x	x	x		Grade Separation
Ligon Mill Rd - Replace Bridge 910126				x	Grade Separation
N White St		x			Grade Separation
NC98 Bypass		x			Grade Separation
New Falls of Neuse	x				Bike-Ped GS
Northside Loop (Harris Rd)	x	x	x		Grade Separation
Railroad	x				Bike-Ped GS
Stadium Dr Widening	x	x	x		Grade Separation
US 1 - Sid Mitchell Rd Ext	x			x	Grade Separation
US 1 (NC98)		x			Interchange
US 1 (NC98)		x			Interchange
US 1 (Purnell Rd)	x	x			Interchange
US 1 (RR)		x			Grade Separation
US 1 North	x				Bike-Ped GS
US 1 North - Upgrade to Freeway	x	x	x		Interchange
US 1 North - Upgrade to Freeway	x	x	x		Interchange
US 1 North (Common Oaks Dr)	x				Grade Separation
US 1 North (Height Ln)	x				Grade Separation
US 1 North (Wake Forest Bypass Greenway)	x				Bike-Ped GS
Various - Construct townwide ITS / signal system.				x	Interchange

**Intersections**

- NEAS
- CTP
- STIP
- MTP
- ⊕ NEAS Hot Spot

**NEAS**

- NEAS
- CTP
- STIP
- MTP

**Recommended Roadway Project Sources:**  
 2014 Northeast Area Study (NEAS),  
 2045 Metropolitan Transportation Plan (MTP),  
 2010 Wake Forest Transportation Plan Update (TP),  
 2018 NCDOT State Transportation Improvement Program (STIP).