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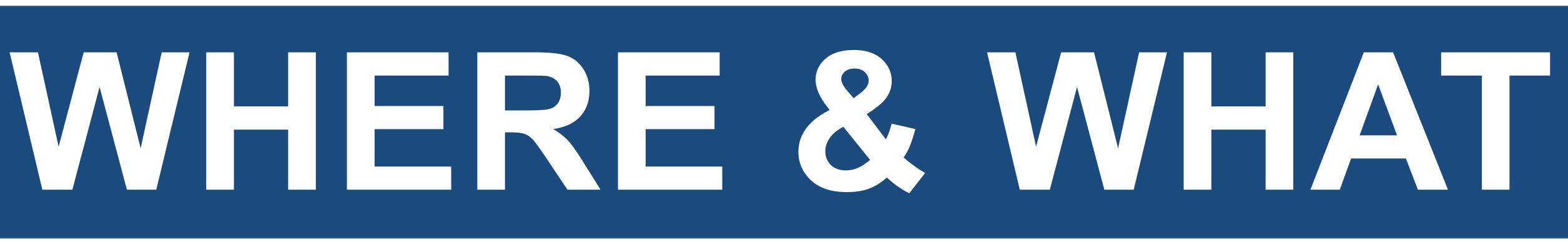
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Project Study Area: • 27-miles from U.S. 70 in Durham Co. through Wake Co. to U.S. 401 in Franklin Co. (approximately a quarter mile (1/4) on either side of N.C. 98)

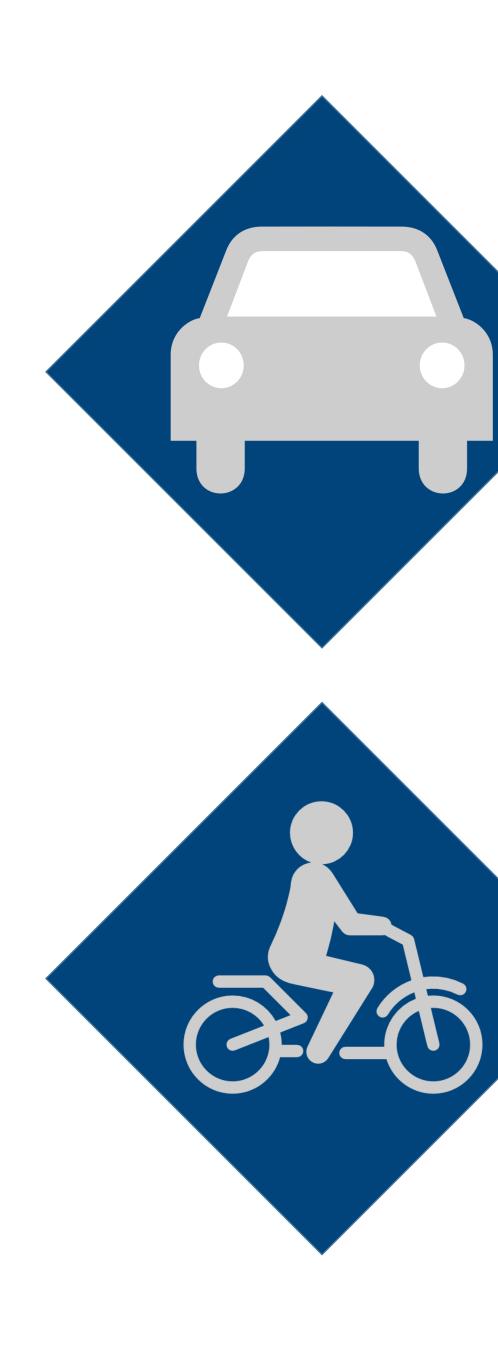
This study will evaluate:

Fransit









Planned & Existing Roads

Bicycle/ Pedestrian Facilities

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REVIEW EXISTING INVENTORY & PLANS



Visioning Public Events Public Meetings Pop-up Events

Study Oversight Team (SOT) Meeting



N.C. 98 STUDY SCHEDULE

DEC 16 JAN 17 FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN 18 FEB MAR APR MAY JUN JUL

TRANSPORTATION ANALYSIS

SOT

PUBLIC INVOLVEMENT

Conceptual Design Preference Public Events Public Meetings Pop-up Events

CONCEPTUAL DESIGN





Informational Session on Recommendations Public Meetings

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- Falls Lake, Little River, & Recreational Neuse River Watersheds • Agricultural Shinleaf Recreation Area • Residential Parks
- Trails



EXISTING CONDITIONS

Several Types of Land Uses





• Transportation Educational Institutions Natural Environment Commercial

Schools Churches Activities

Traffic Generating Facilities

Recreation



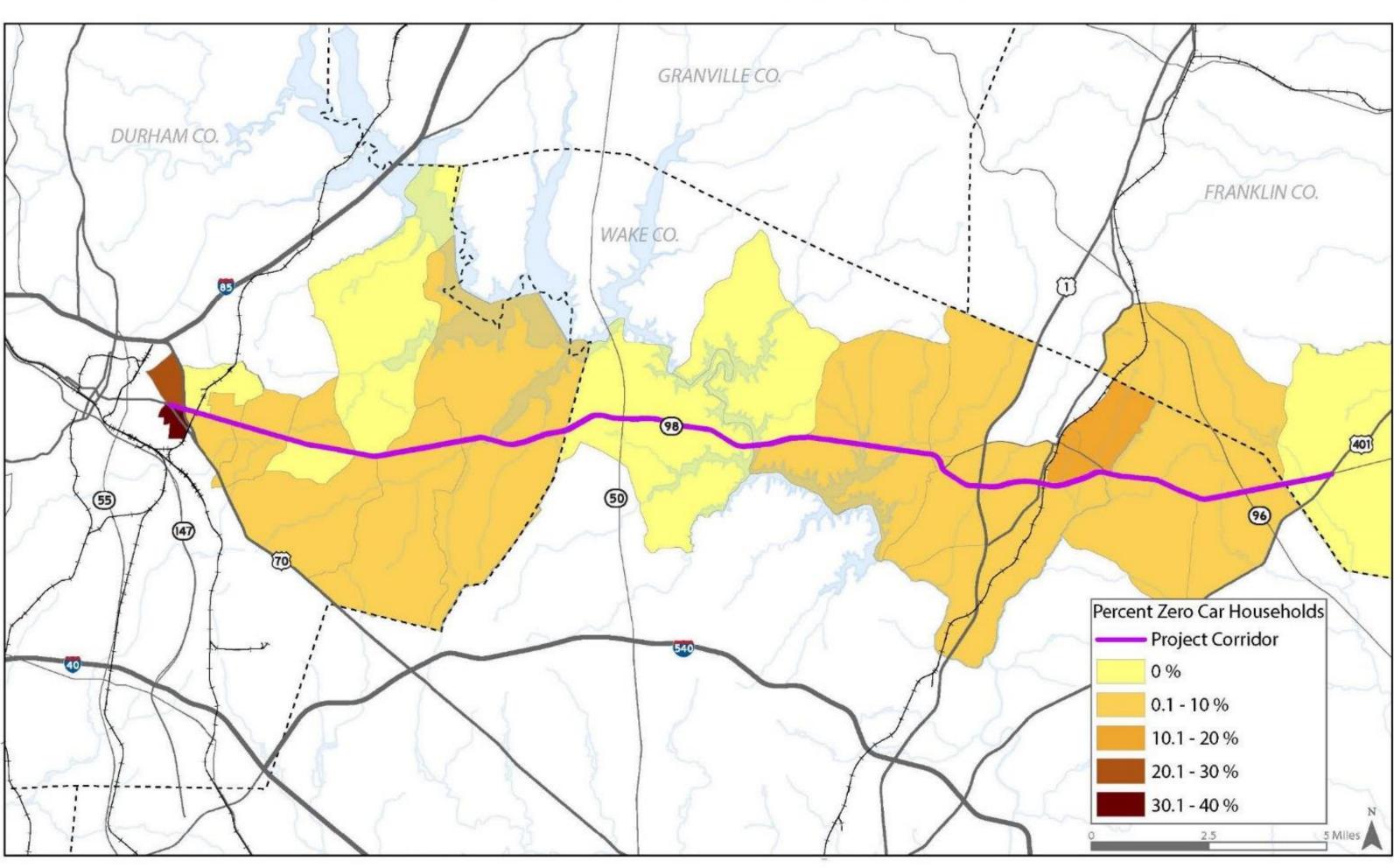


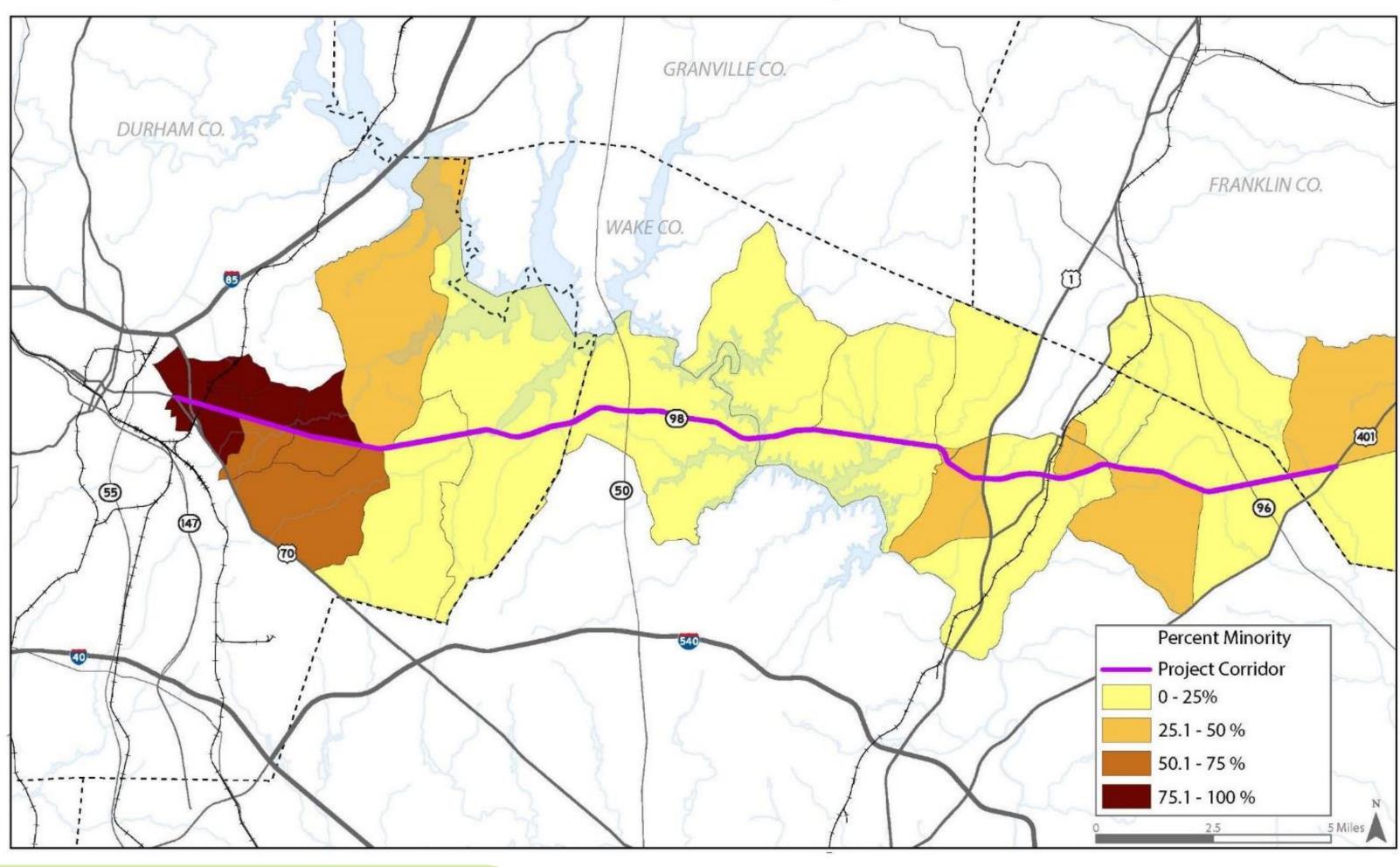


- Cycling
- Boating
- Camping
- Parks & Trails
- Golf



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Demographics

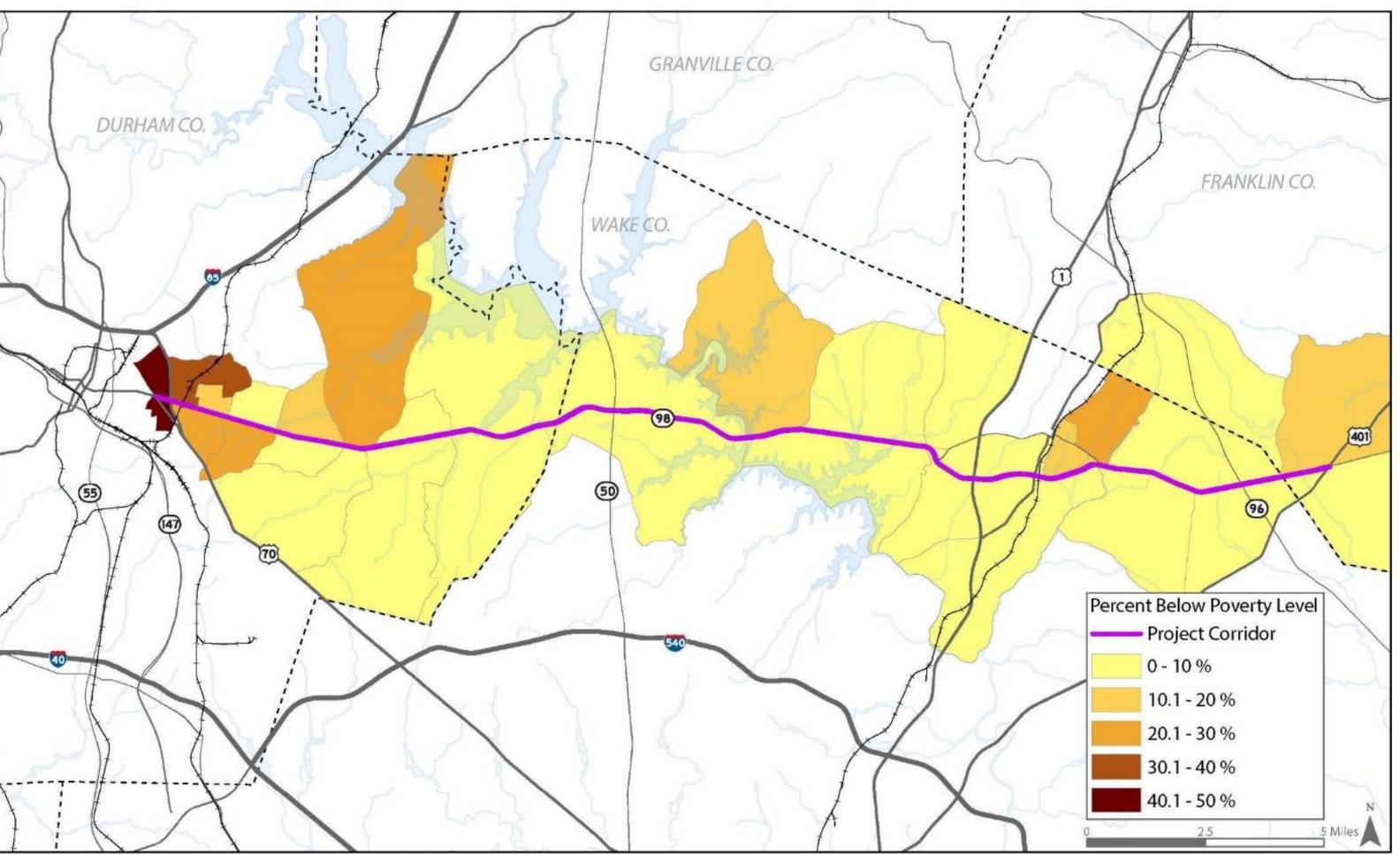
Percent Zero Car Households

Percent Minority

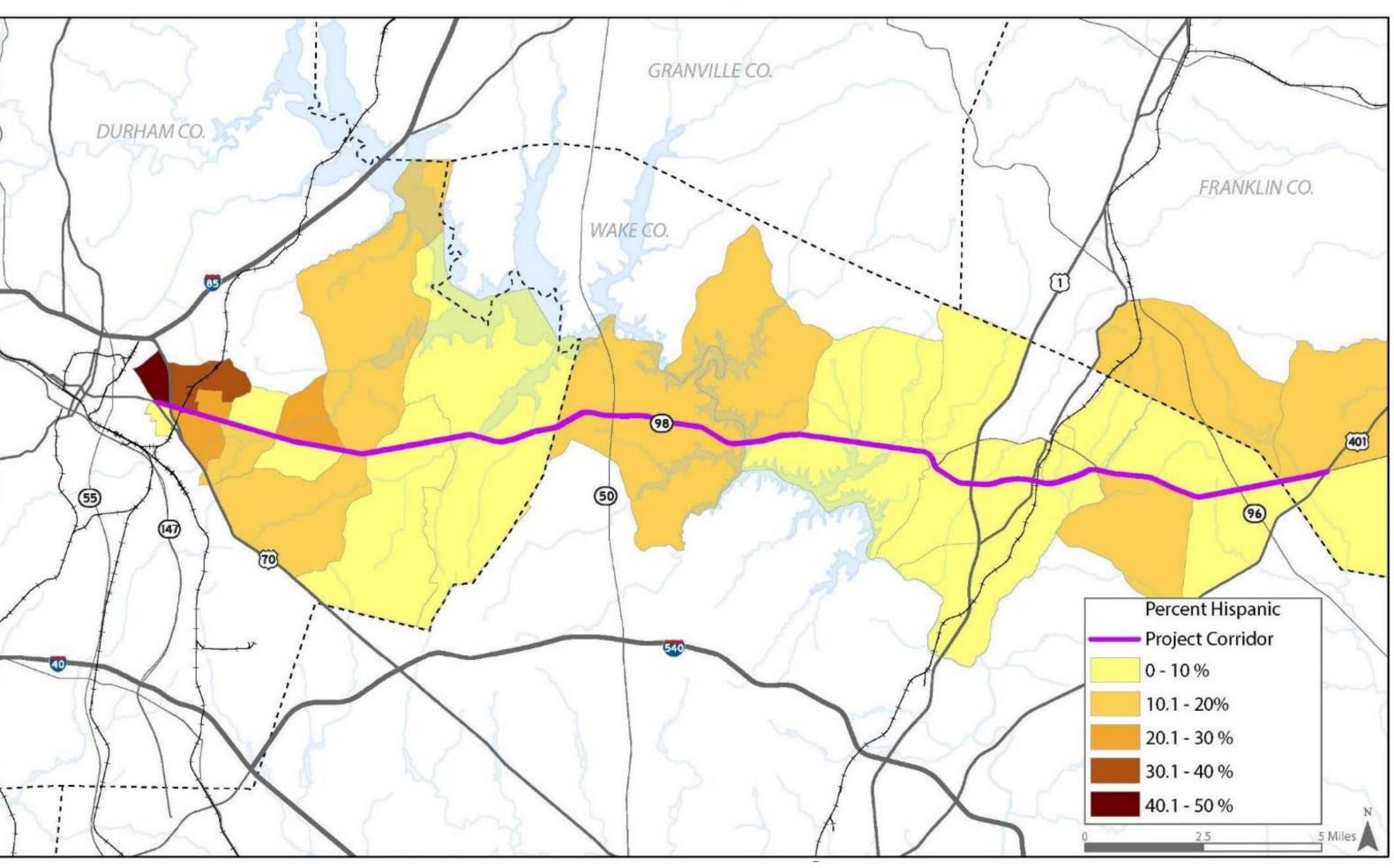




Percent Below Poverty Level

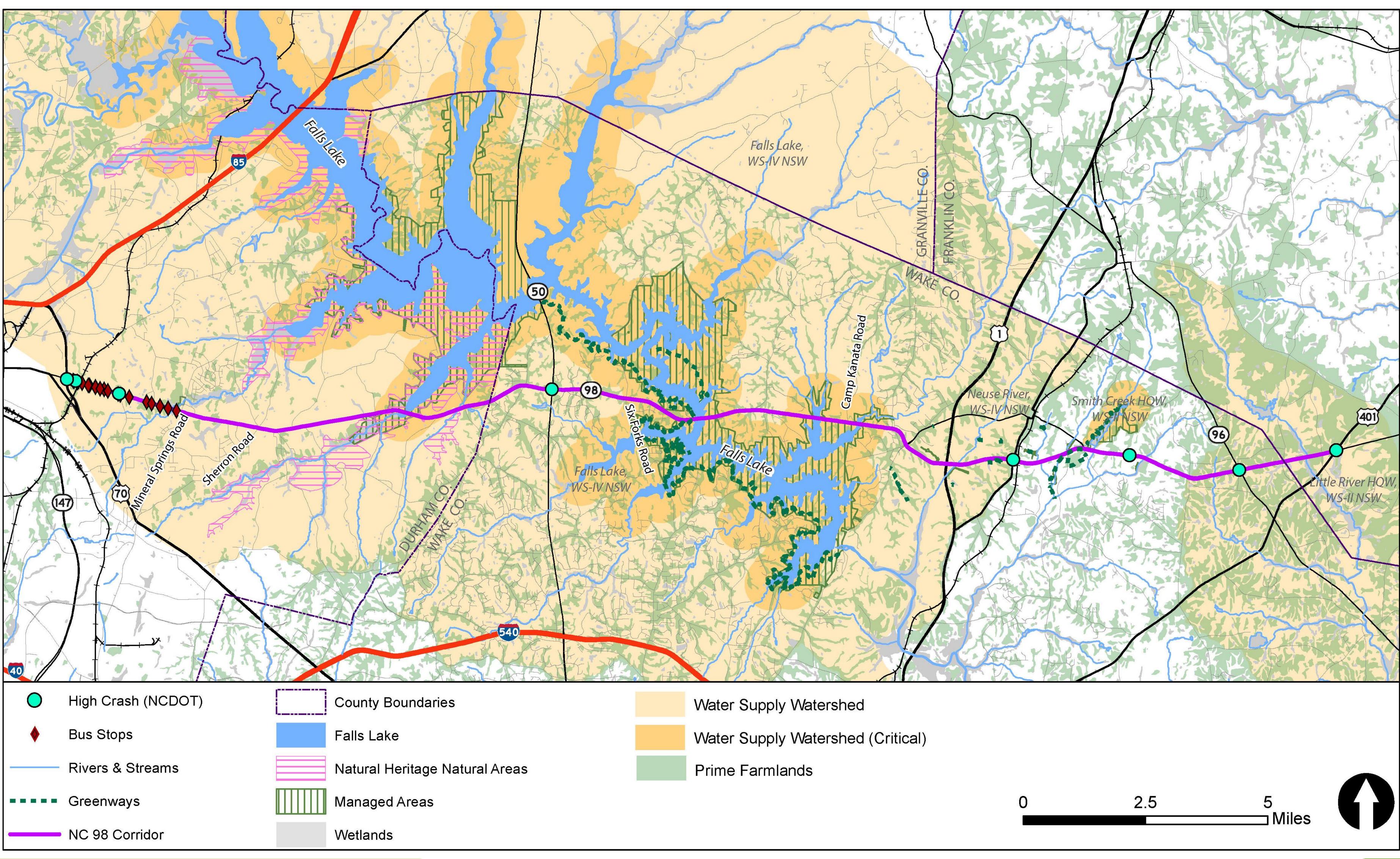


Percent Hispanic



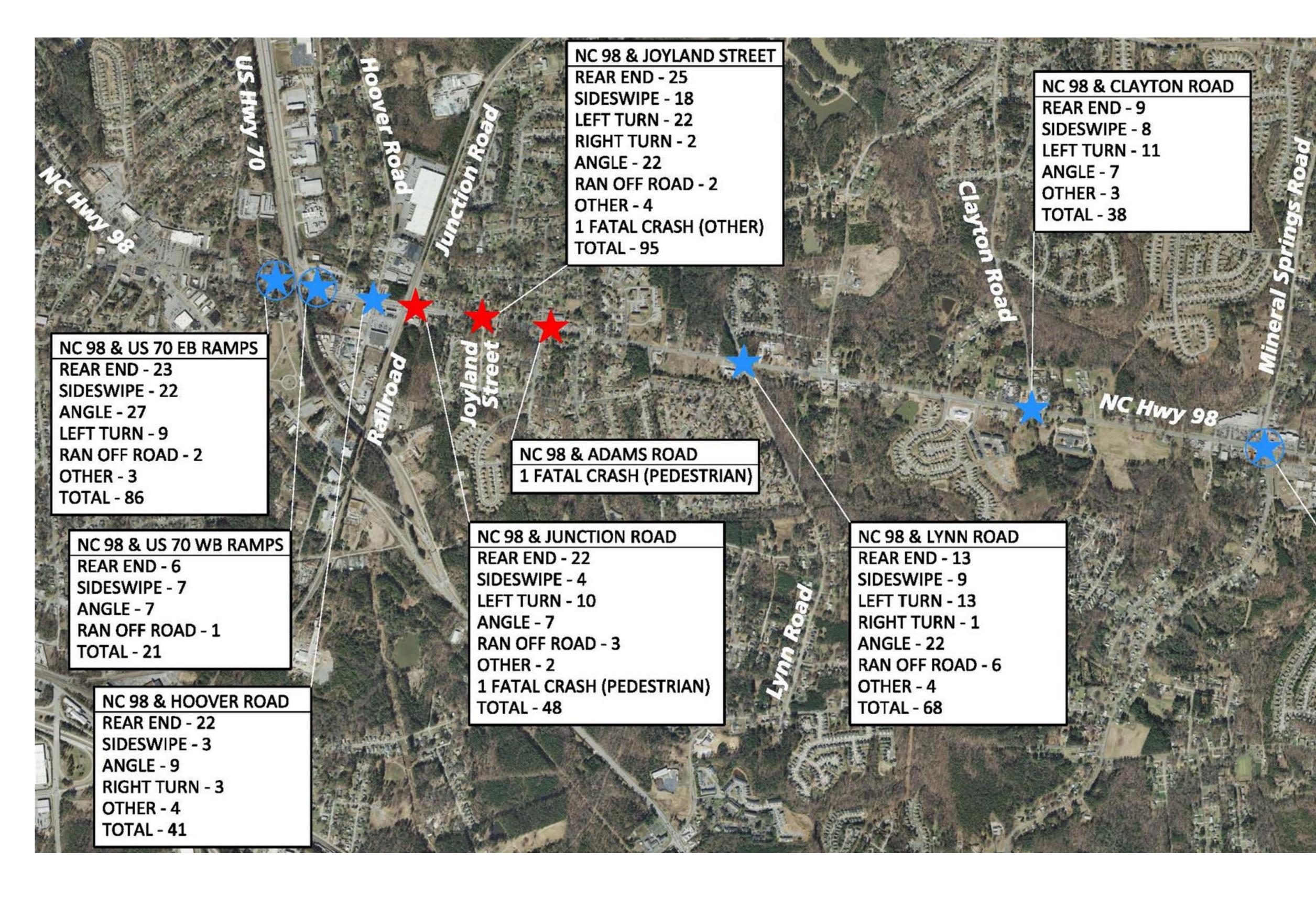
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Environmental Constraints









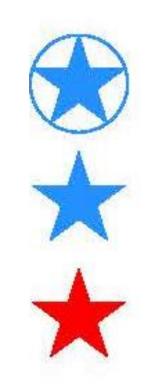






NC 98 & PATTERSON ROAD REAR END - 9 SIDESWIPE - 1 ANGLE - 8 LEFT TURN - 3 RAN OFF ROAD - 1 TOTAL - 22

NC 98 & MINERAL SPRINGS ROAD REAR END - 10 SIDESWIPE - 6 LEFT TURN - 10 **RIGHT TURN - 5** ANGLE - 10 RAN OFF ROAD - 2 OTHER - 3 TOTAL - 46



LEGEND STUDY INTERSECTION **HIGH CRASH INTERSECTION** FATALITY LOCATION





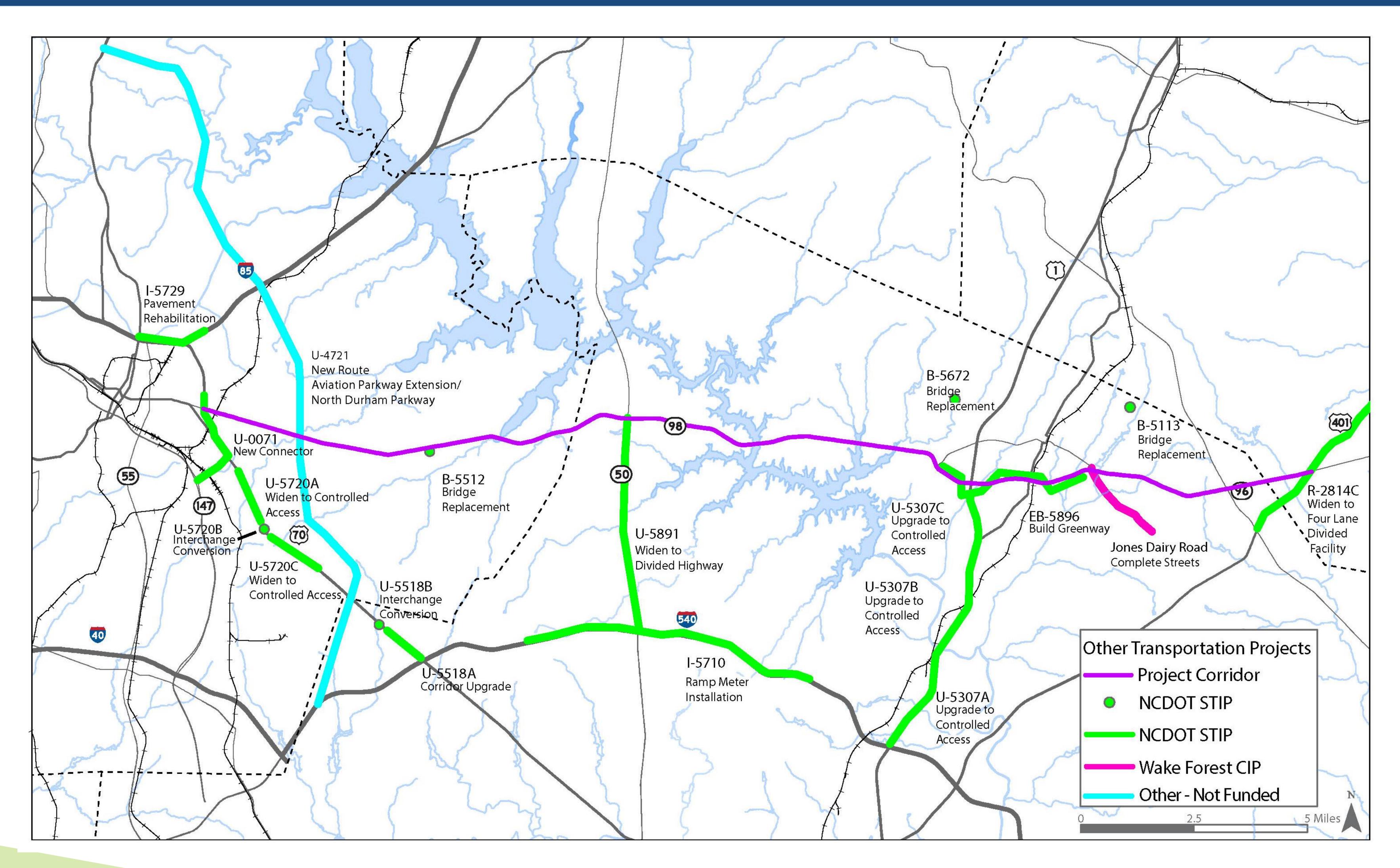












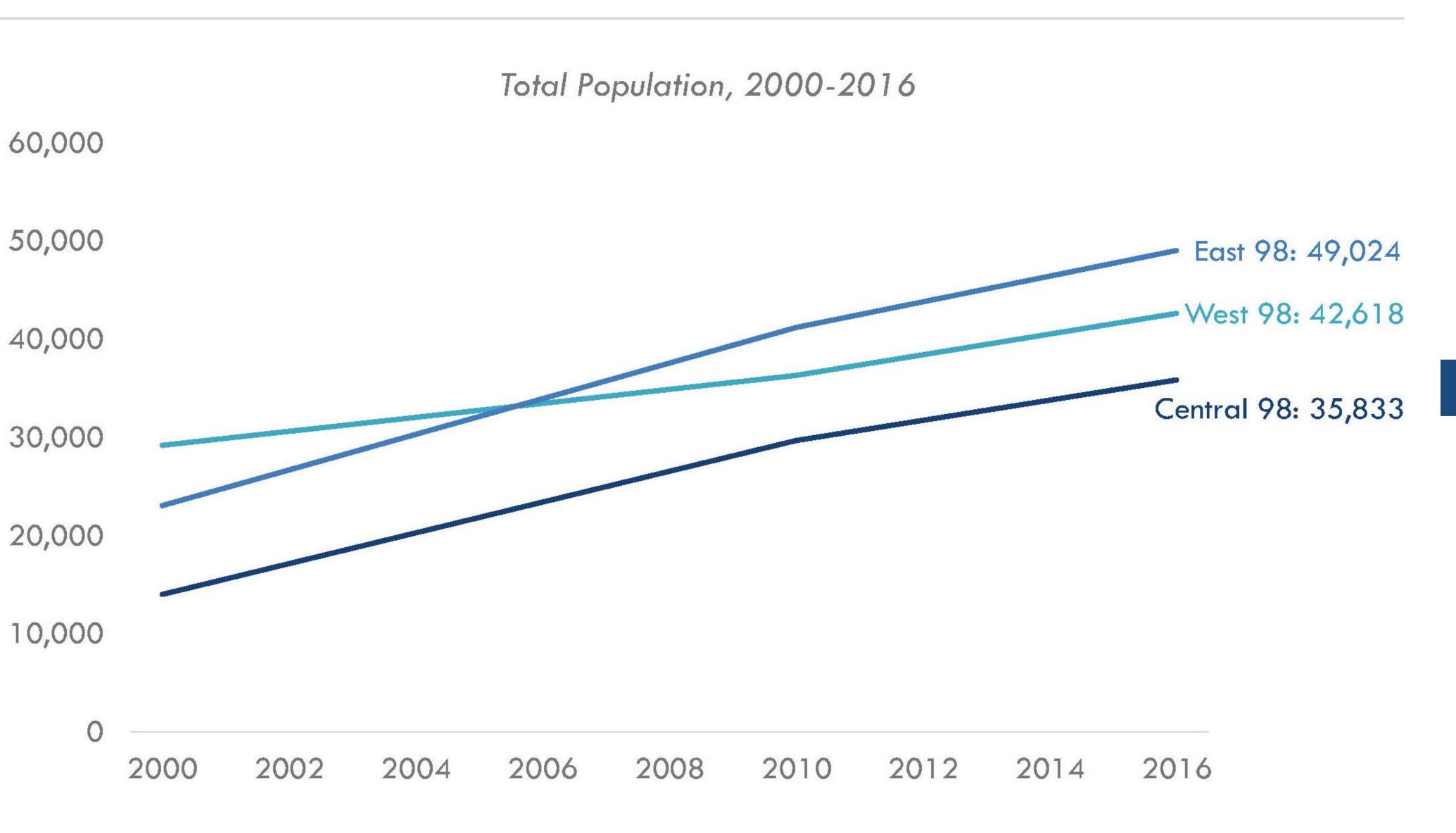


AREA PROJECTS ALONG NC 98





The NC 98 Corridor has seen significant growth since 2000, most notably in the Central and East sections.



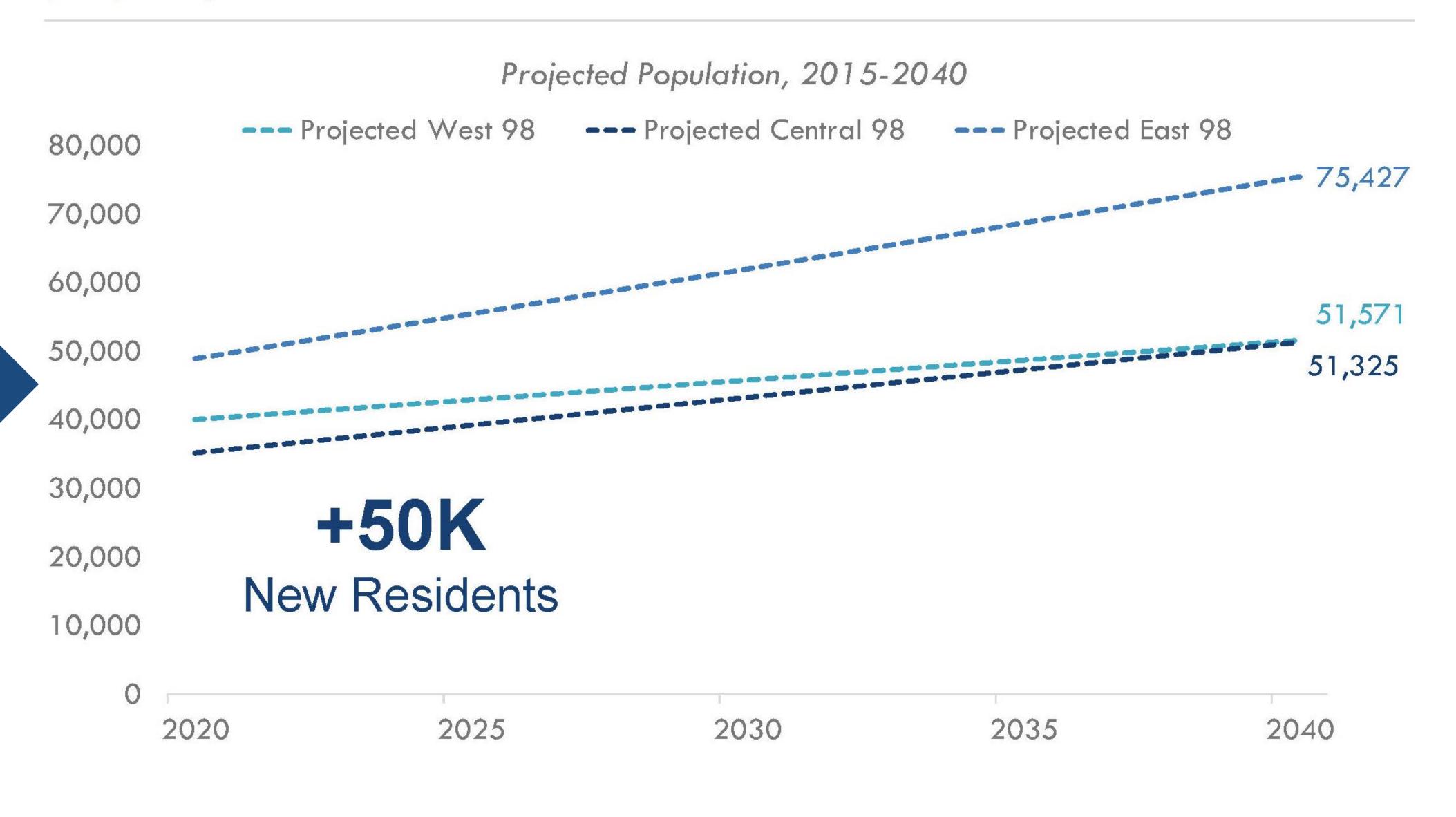
Source: ESRI Business Analyst



POPULATION GROWTH



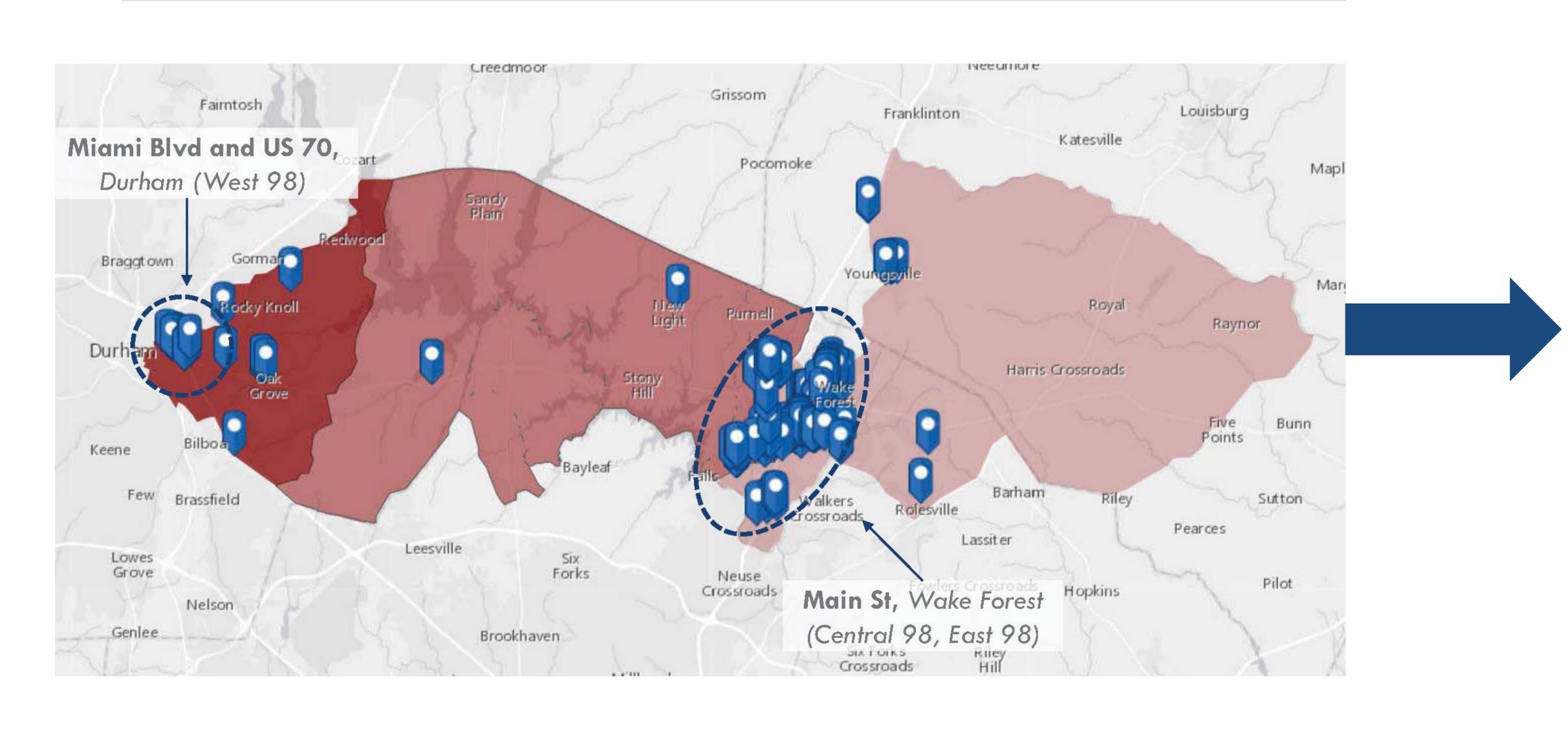
Based on CAMPO projections, the corridor is expected to add over 50,000 people by 2040.



Source: ESRI Business Analyst, CAMPO, DCHC



Existing commercial office buildings have clustered along Miami Boulevard in Durham and Main Street in Wake Forest.



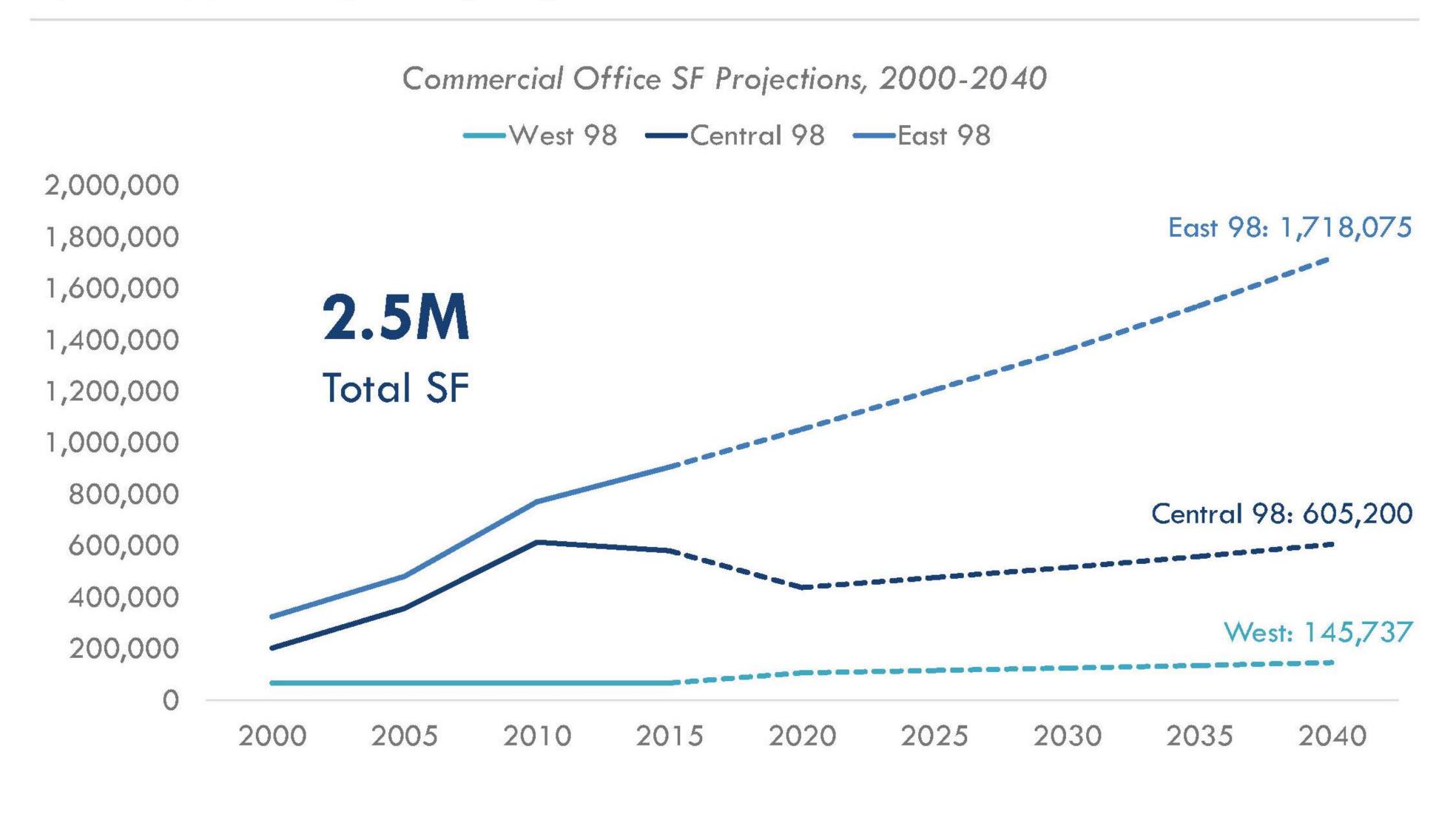
Source: CoStar, ESRI



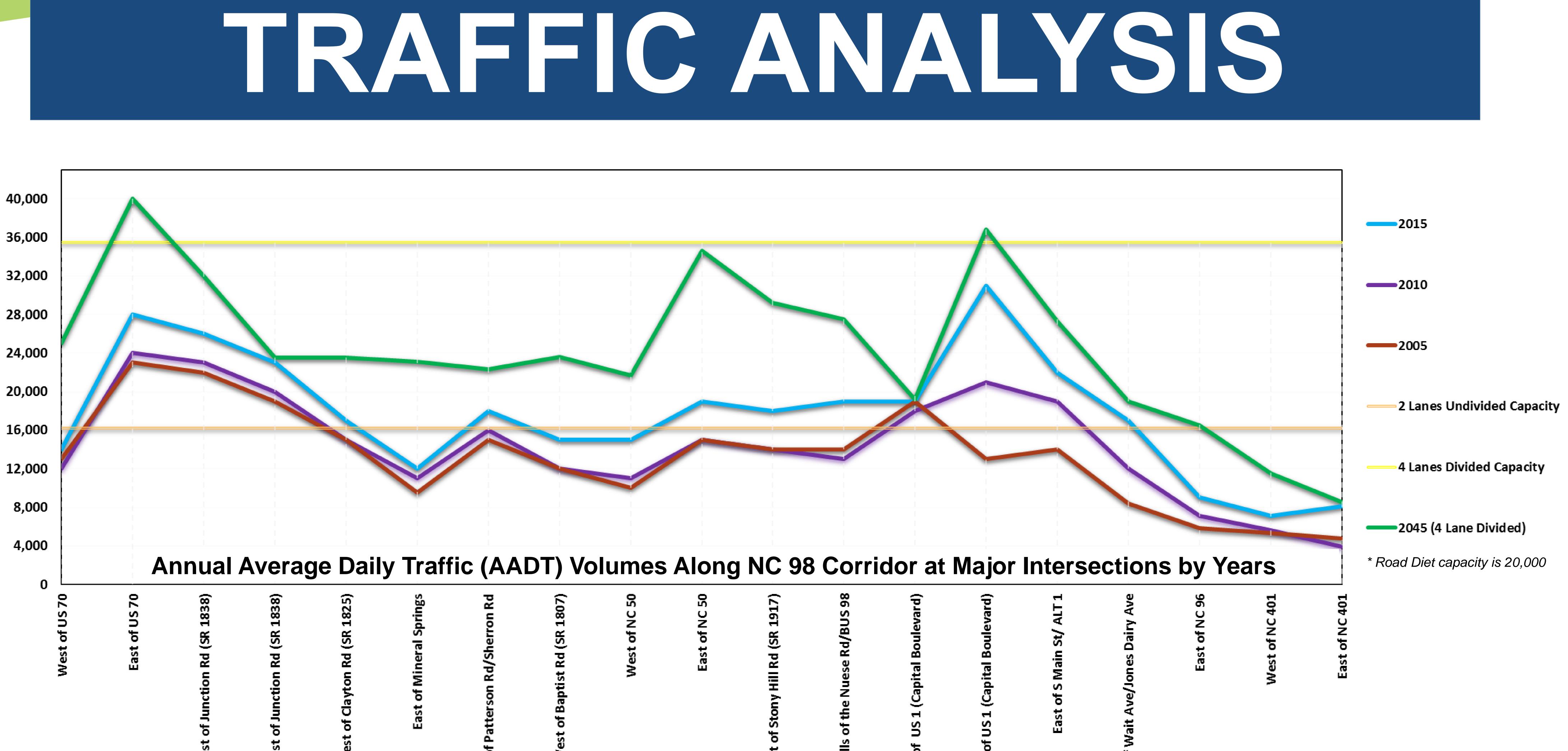
COMMERCIAL GROWTH



The Study Area could add an additional 1 million SF in commercial office space by 2040, primarily owing to growth in East 98.



Source: CoStar, CAMPO







| aily | Traffic | (AAD | Γ) Volu | mes A | Along | NC 98 | Corrido | or at M | ajor In | tersec | tions k | by Yo |
|------|-------------------------|---------------------------------|------------------------------|---------------|---------------|---------------------------------|--|----------------------------------|----------------------------------|--------------------------|----------------------------------|---------------|
| , | East of Mineral Springs | West of Patterson Rd/Sherron Rd | West of Baptist Rd (SR 1807) | West of NC 50 | East of NC 50 | West of Stony Hill Rd (SR 1917) | East of Old Falls of the Nuese Rd/BUS 98 | West of US 1 (Capital Boulevard) | East of US 1 (Capital Boulevard) | East of S Main St/ ALT 1 | West of Wait Ave/Jones Dairy Ave | East of NC 96 |

PUBLIC PARTICIPATION

5 pop-up events 558 crowdsource comments 6 public meetings 76 public meetings 221 attendees



Corridor Outreach (Durham Southern High School Football Game, Businesses and Churches along the corridor)

121 online comment submissions/web sign-ups



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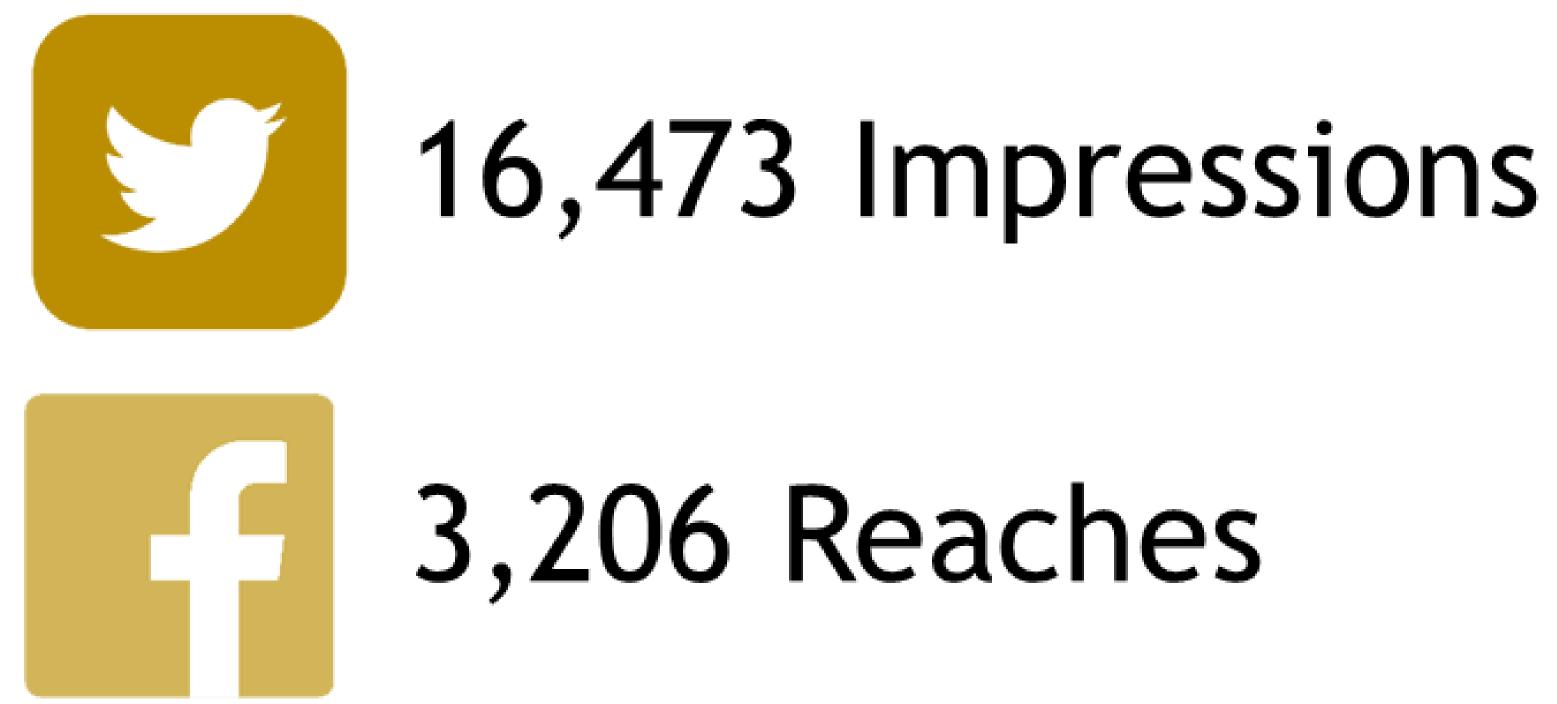
8,017 sessions

6,496 Users (10.6% returning users)





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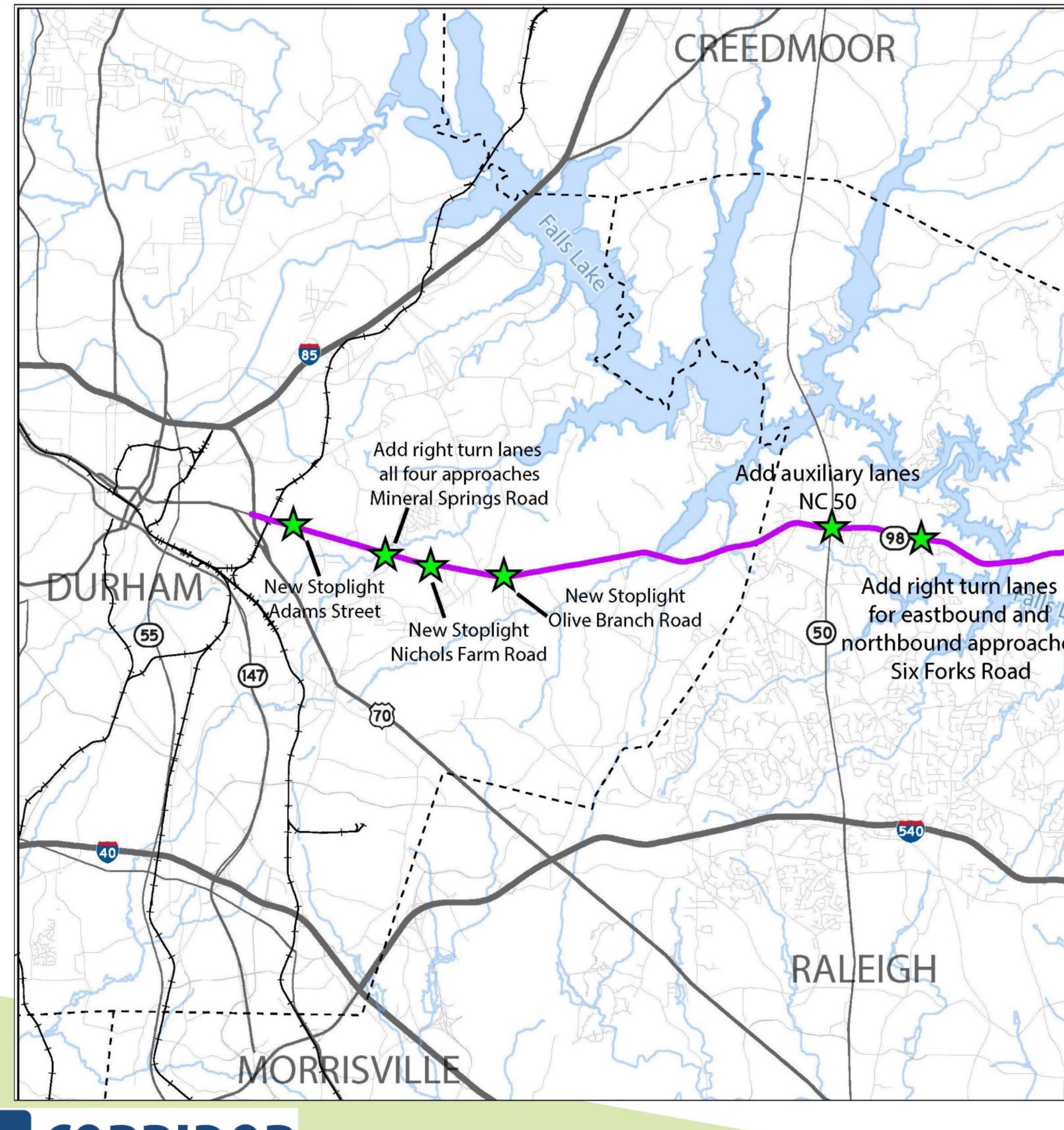






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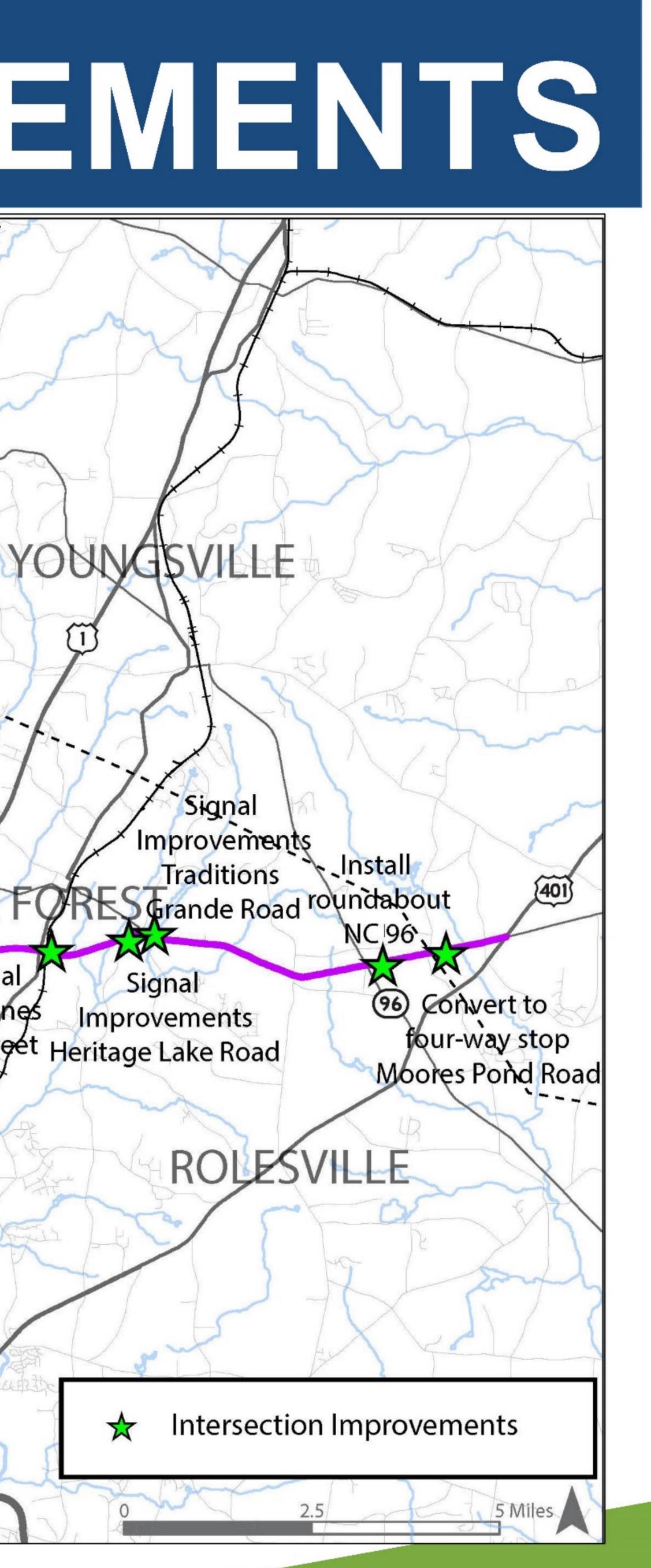




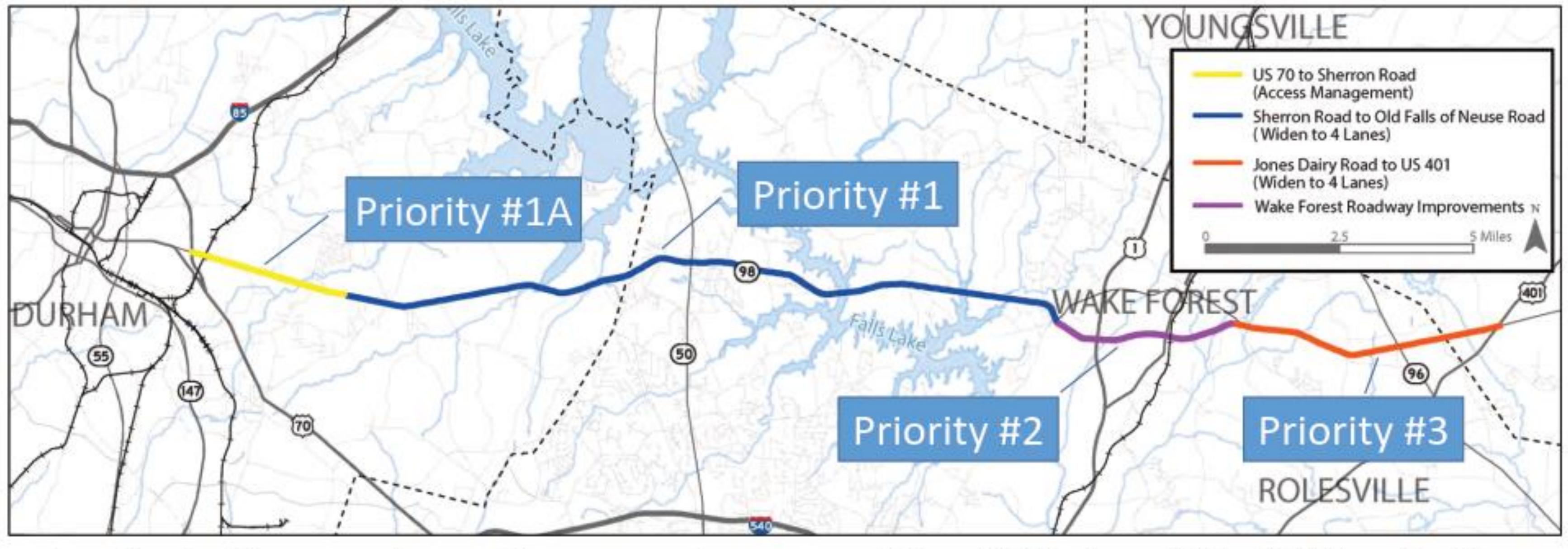


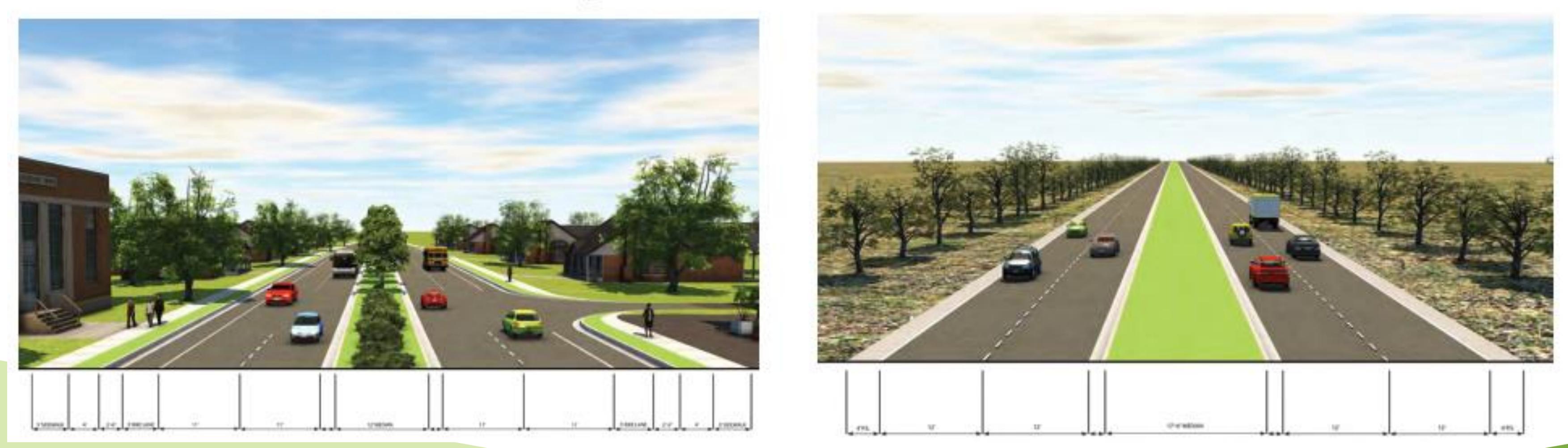
SHORT-TERM IMPROVEMENTS

Signal Install turn lanes Improvements Camp Kanata Road Traditions WAKE FORES Frande Road roundabout w Install dual Signal northbound approaches left turn langs Improvements S Main Street Heritage Lake Road



LONG-TERM IMPROVEMENTS



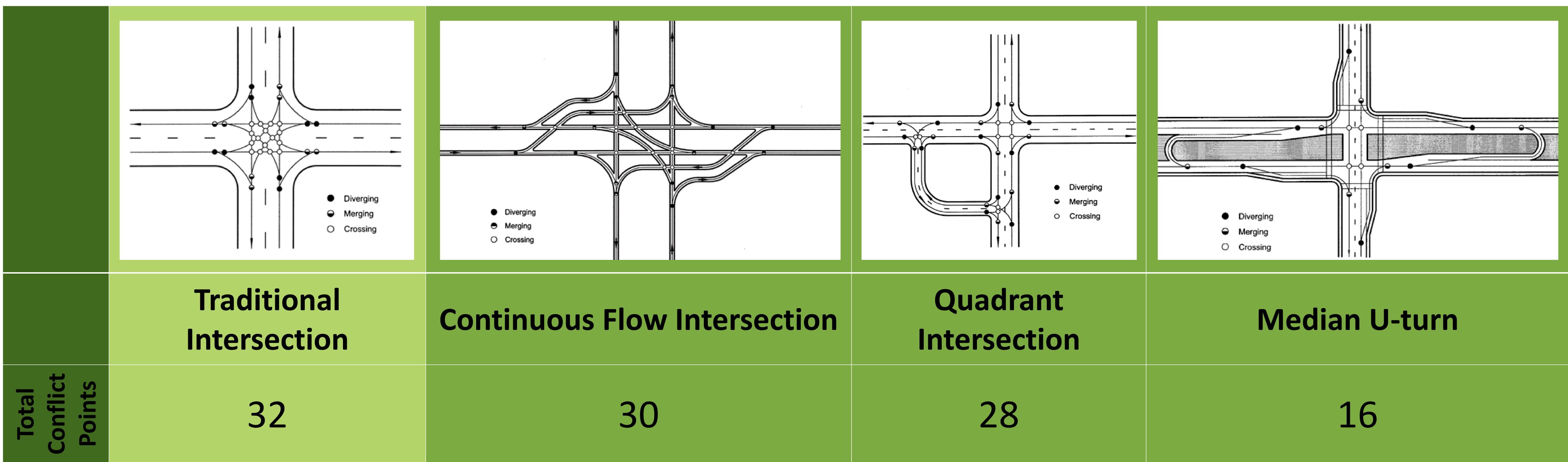




Junction to Sherron – Access Management

4 Lane Widening – Potential Cross Section





Indirect Left-Turn Treatments: • Remove the left-turning vehicles from the flow of traffic without causing them to stop in a through-traffic lane (as a traditional intersection may) Improve safety by reducing the number of conflict points as shown above • Reduce the number of signal phases to provide more green time for traffic **Increase capacity**



INTERSECTION TREATMENTS

INTERSECTION CONFLICT POINTS

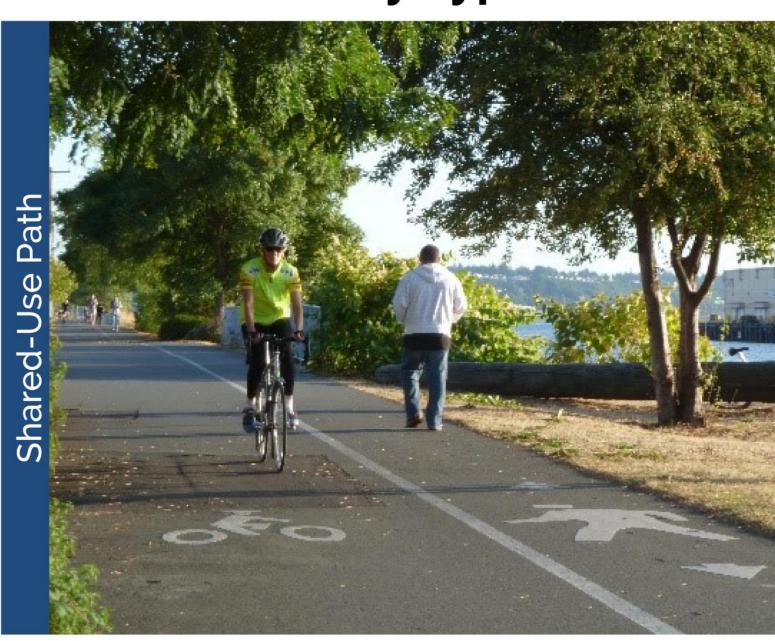




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PEDESTRIAN & BICYCLE

Facility Type







98 STUDY NC CAMPO • DCHC MPO • NCDOT

POTENTIAL BICYCLE AND PEDESTRIAN FACILITIES

Description

• A shared-use path is defined as a trail permitting more than one type of user. Paths serve as part of a transportation circulation system and support multiple recreation opportunities, such as walking, bicycling, and inline skating. A shared-use path is physically separated from motor vehicular traffic with an open space or barrier.

Bike lanes designate an exclusive space for bicyclists through the use of pavement markings, striping, and signage. The bike lane is located adjacent to motor vehicle travel lanes and flows in the same direction as motor vehicle traffic. Bike lanes are typically on the right side of the street. Benefits include providing obvious space on the road for cyclists and sending a message to other road users to expect cyclists.

- A buffered bicycle lane is a bike lane with additional striping or hatching (buffer) adjacent to it. • The buffer may separate the bicycle lane from
- motor vehicle travel, parking, or both.
- The buffer width is typically 2'-3'.

Facility Type

Description



- A median refuge or island provides in-street refuge along the route of a pedestrian crossing.
- The refuge width is ideally 7'+ to fit bicycles.
- The approach to vehicle travel lanes must be ADAcompliant.



- High visibility striping should be used at crossing areas.
- A 4' minimum width should be used for ADAaccessible curb ramps.
- A push button with audible status should be present at the crossing.
- A pedestrian countdown signal should be present.





- Rapid flashing beacons are used to increase visibility of pedestrians as they cross the roadway at uncontrolled crosswalks.
- This beacon is pedestrian-activated (i.e., the signal will only flash if a pedestrian has pushed a button, indicating that they need to cross the street).







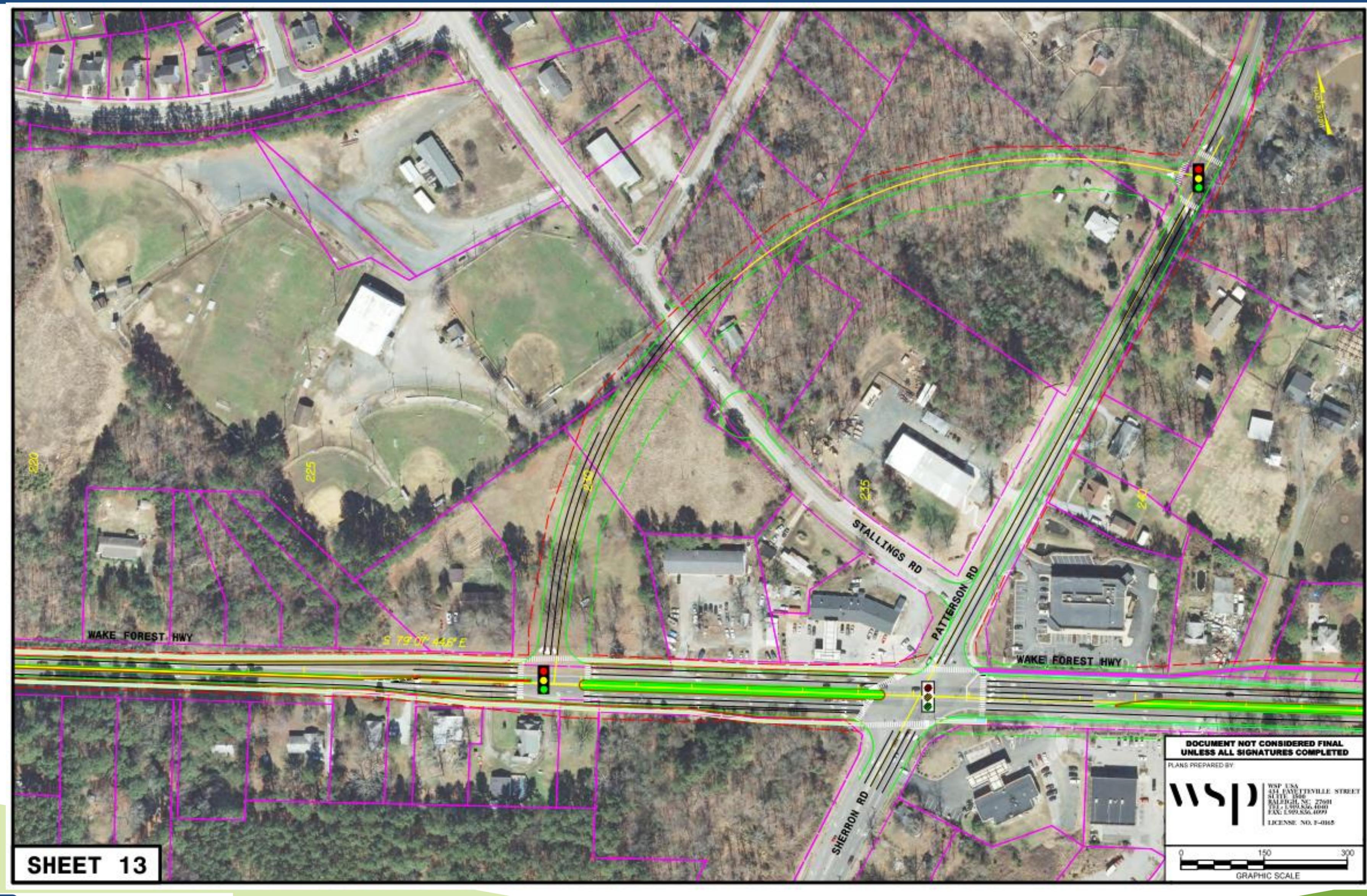


Conceptual Designs







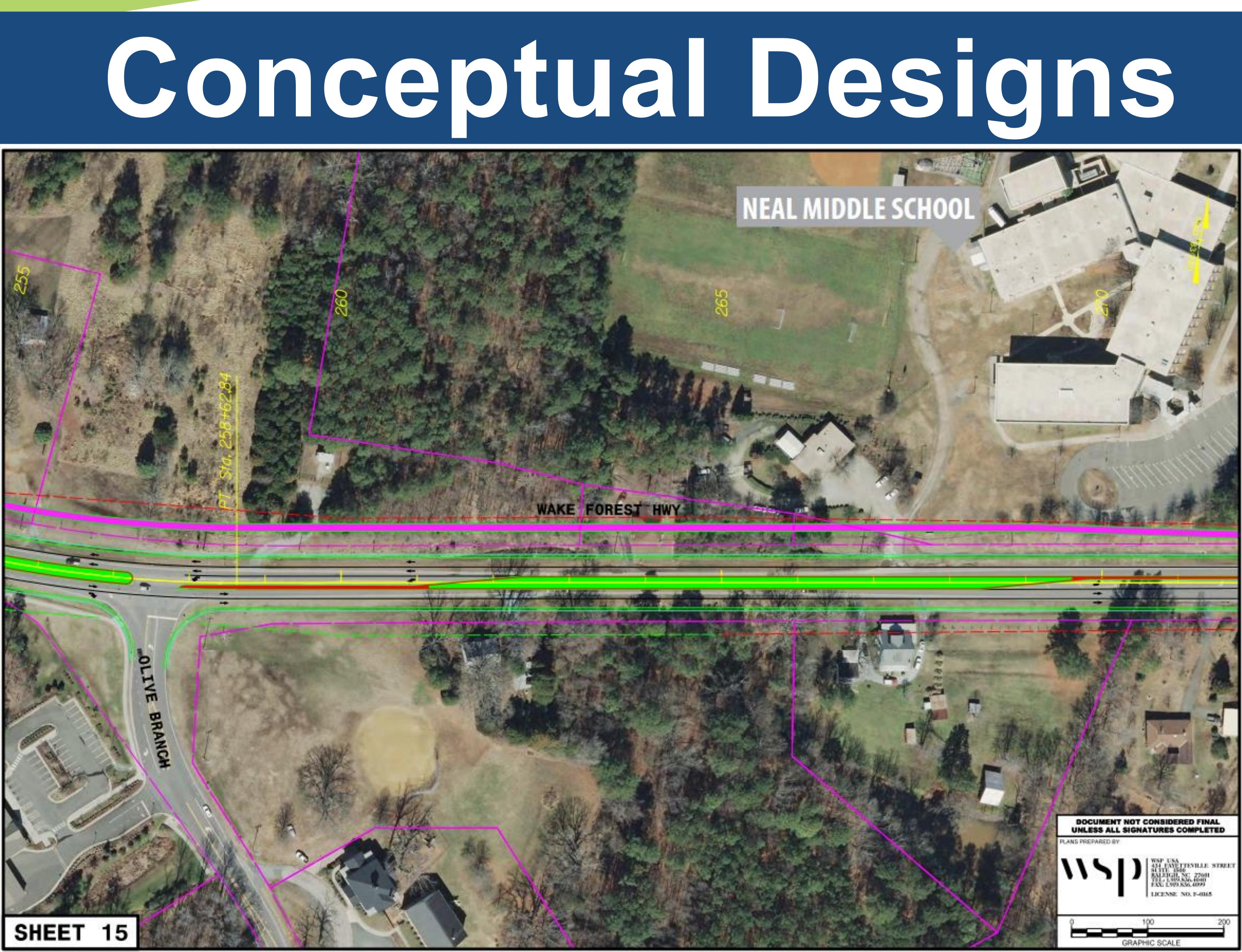




Conceptual Designs







98 CORRIDOR STUDY NC CAMPO • DCHC MPO • NCDOT

POTENTIAL FUNDING SOURCES

| NCDOT Transportation Improvement Program | Other NCDOT Funds | MPO Local Project Funds | Municipal Funds | Grants |
|--|--|--|--|--------|
| Falls of Neuse Widening Old Falls of Neuse Road to Jones Dairy Road Intersection Upgrades Jones Dairy Road to US | Kanata Left turn lanes at Six Forks Road Turn lanes at Mineral Springs Road Traffic signal at Adams Street Auxiliary Lanes on NC 98 at NC 50 | Sidewalk improvements from US 70 to Sherron Road Sherron Road to Neal Middle School Multi- use Path Intersection improvements at S. Main Street Intersection improvements at Jones Dairy Road and Traditions Grande Intersection improvements at Old Falls of Neuse Road Turn lanes at Six Forks Road | US 70 to Sherron Road road diet option Signal improvements at Heritage Lake Road and Traditions Grande Pedestrian bridge over NC 98 Oak Grove Elementary School Sidewalk Gap Transit stop improvements | NC 98 |



* Projects may be funded via a variety of sources and/or led by varying agencies



Developer

| ver | • | Quadrant Roadway at Sherron Road |
|------|---|-------------------------------------|
| ents | • | Turn lanes at Camp |
| ron | | Kanata Road |
| | • | Intersection |
| | | improvements from Old |
| | | Falls of Neuse Road to |
| | | Jones Dairy Road |
| | • | Friendship Chapel Road |
| | | extension |
| | | |
| | | |
| | | |





Questions Will.Letchworth@WSP.com www.NC98corridor.com #NC98study

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