









www.nc98corridor.com



NC 98 CORRIDOR STUDY REPORT

WHERE & WHAT

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:



Safety & Mobility



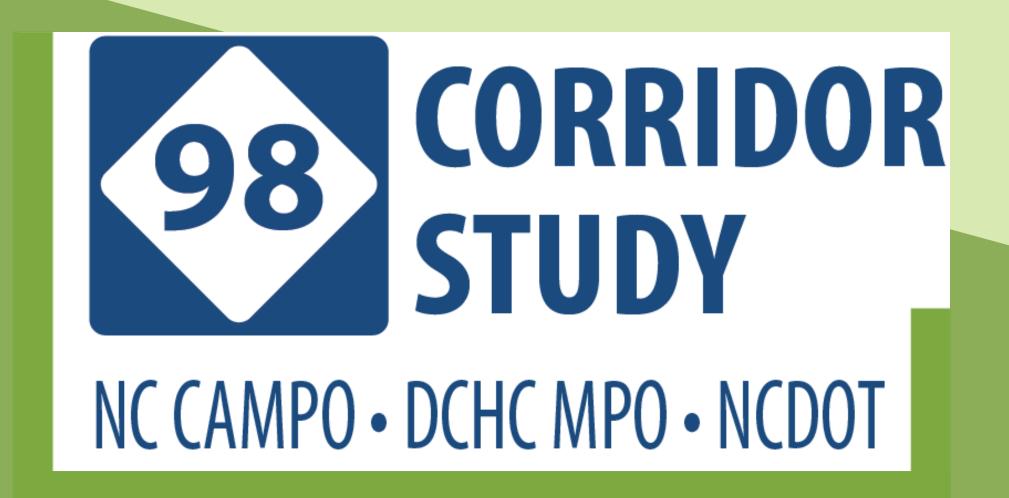
Planned & Existing Roads



Transit



Bicycle/ Pedestrian Facilities



N.C. 98 STUDY SCHEDULE

Project Kick-Off



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

REVIEW EXISTING INVENTORY & PLANS

TRANSPORTATION ANALYSIS

CONCEPTUAL DESIGN

IMPLEMENTATION PLAN



Visioning Public Events

Public Meetings

Pop-up Events

PUBLIC INVOLVEMENT



Conceptual Design
Preference Public Events
Public Meetings

Pop-up Events



Informational Session on Recommendations

Public Meetings

Study Oversight
Team (SOT) Meeting



EXISTING CONDITIONS

Environmentally Sensitive Areas

Several Types of Land Uses

Traffic Generating Facilities

Recreation









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

- Transportation

- Educational Institutions
- Natural Environment
- Commercial

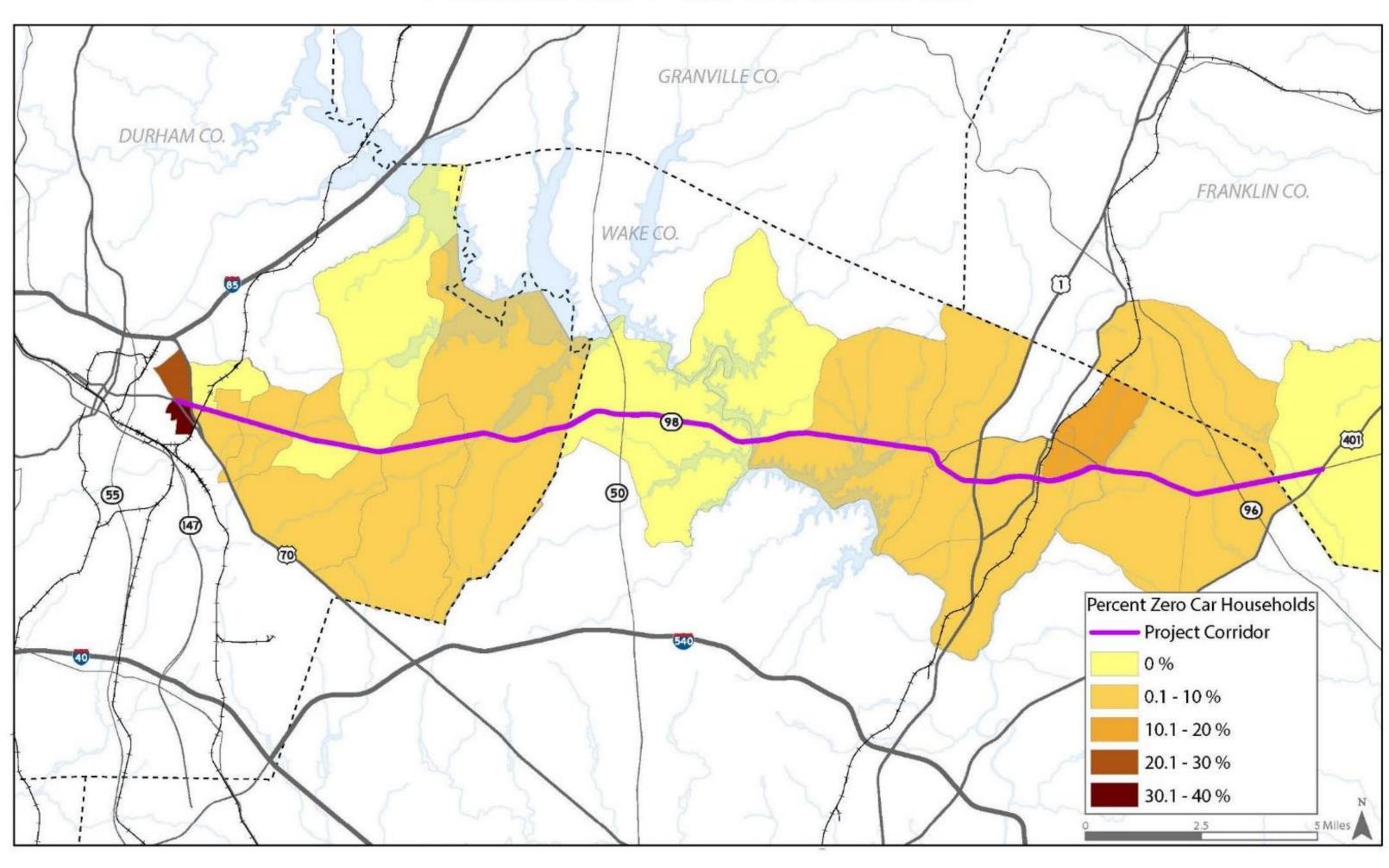
- Schools
- Churches
- Shopping centers
- Activities

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

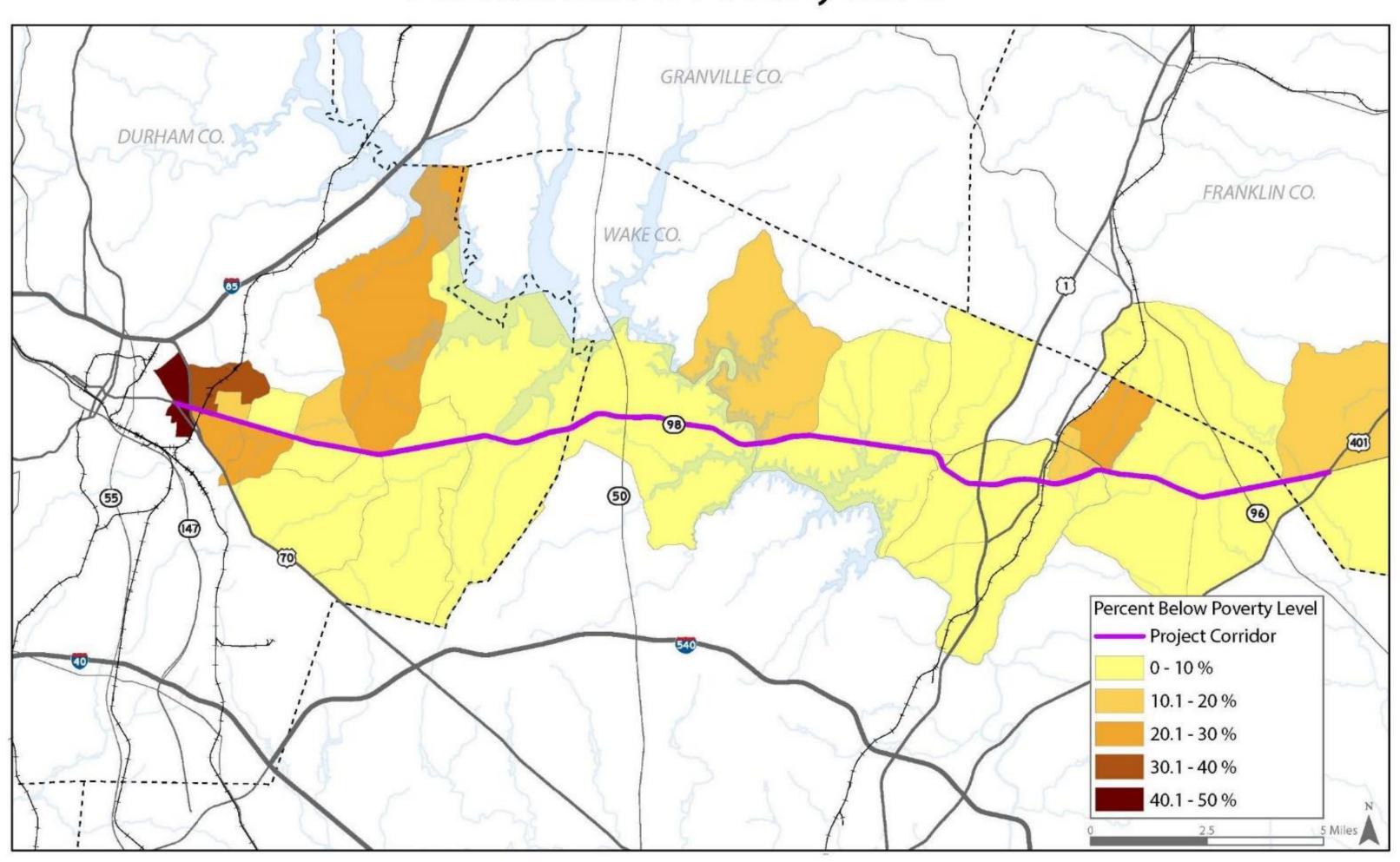


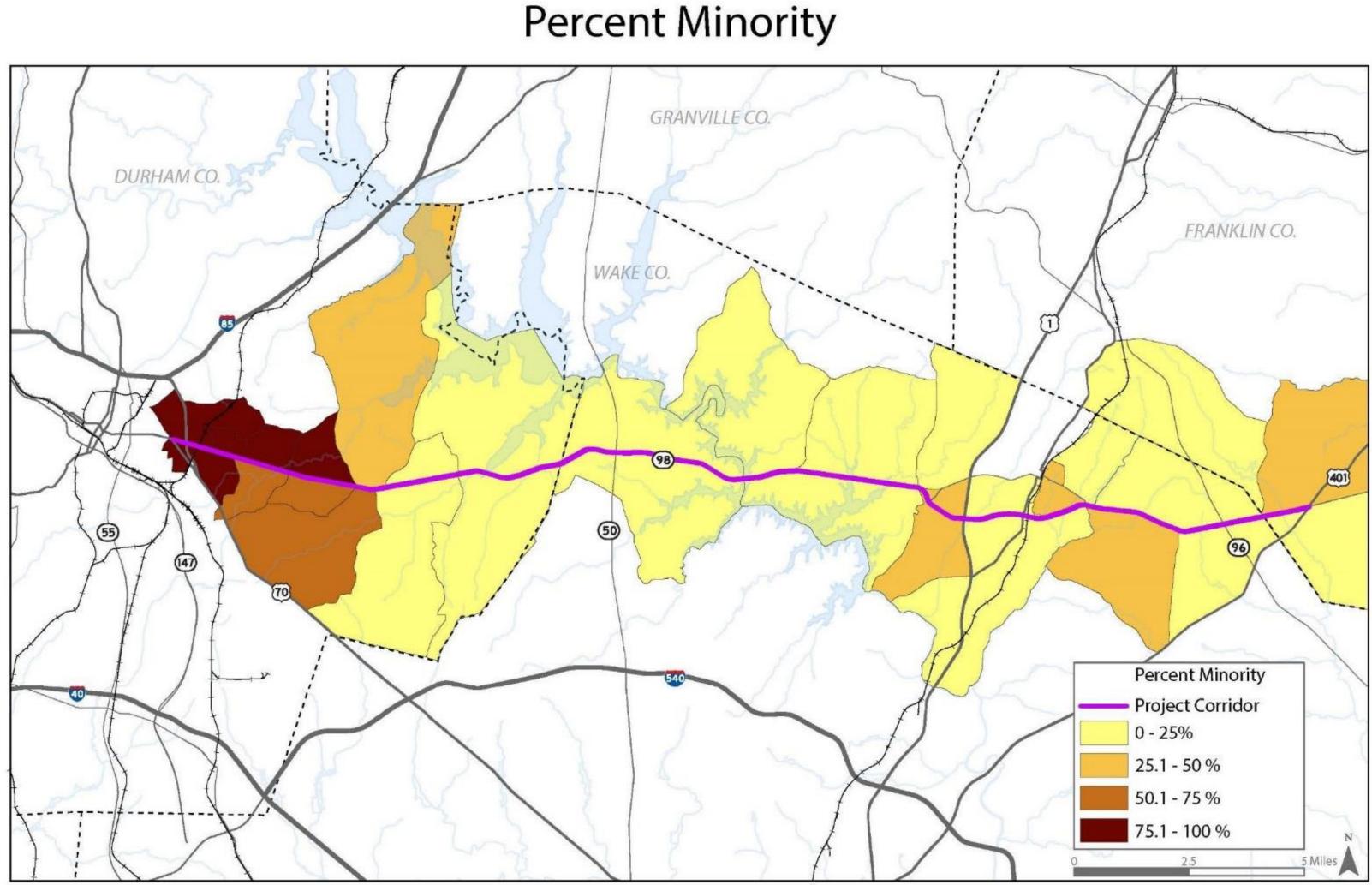
Demographics



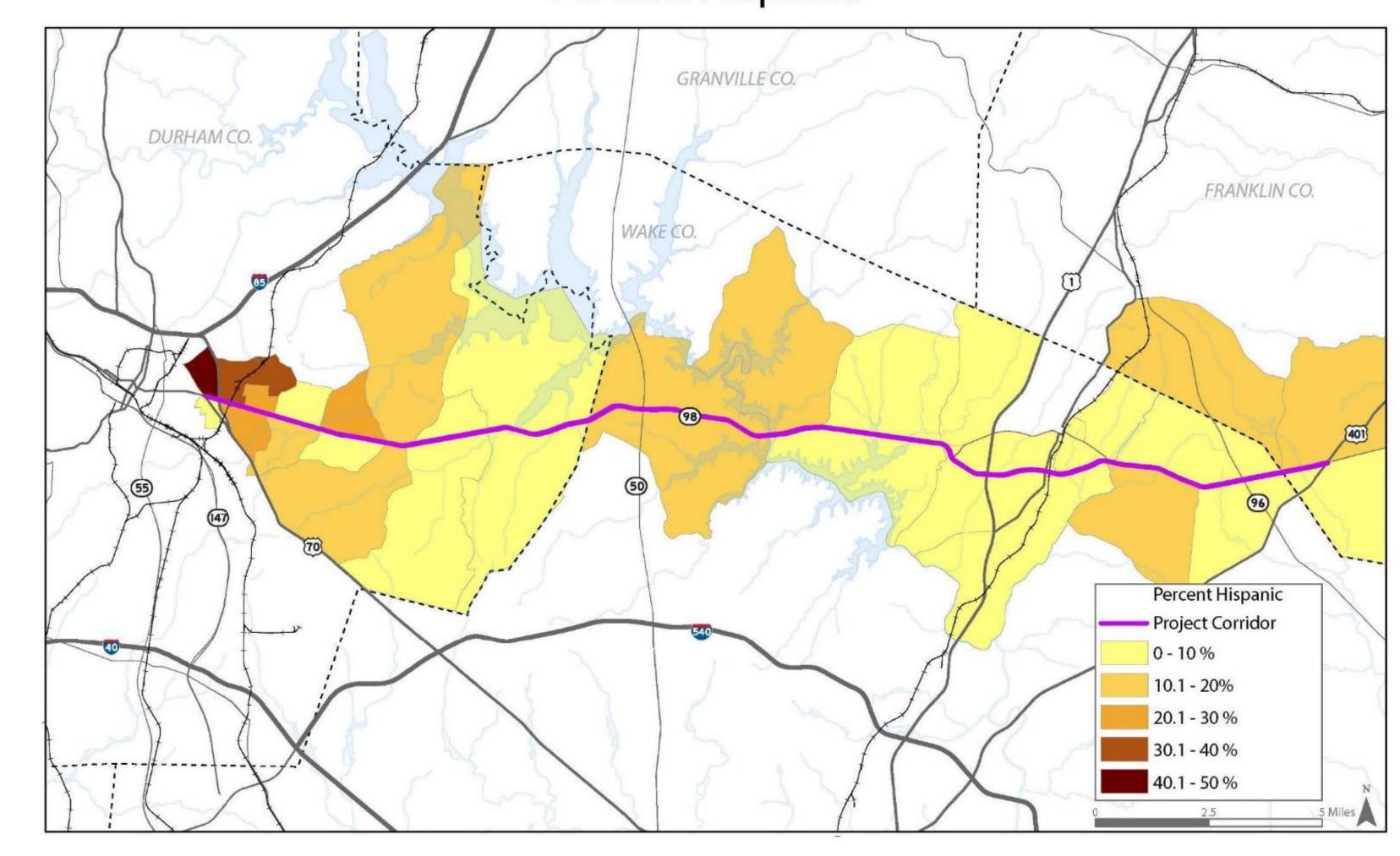


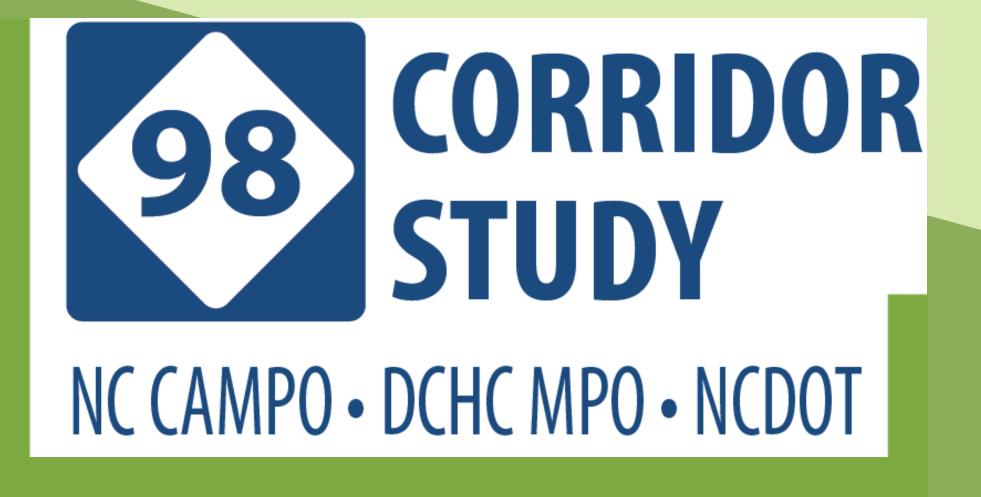
Percent Below Poverty Level



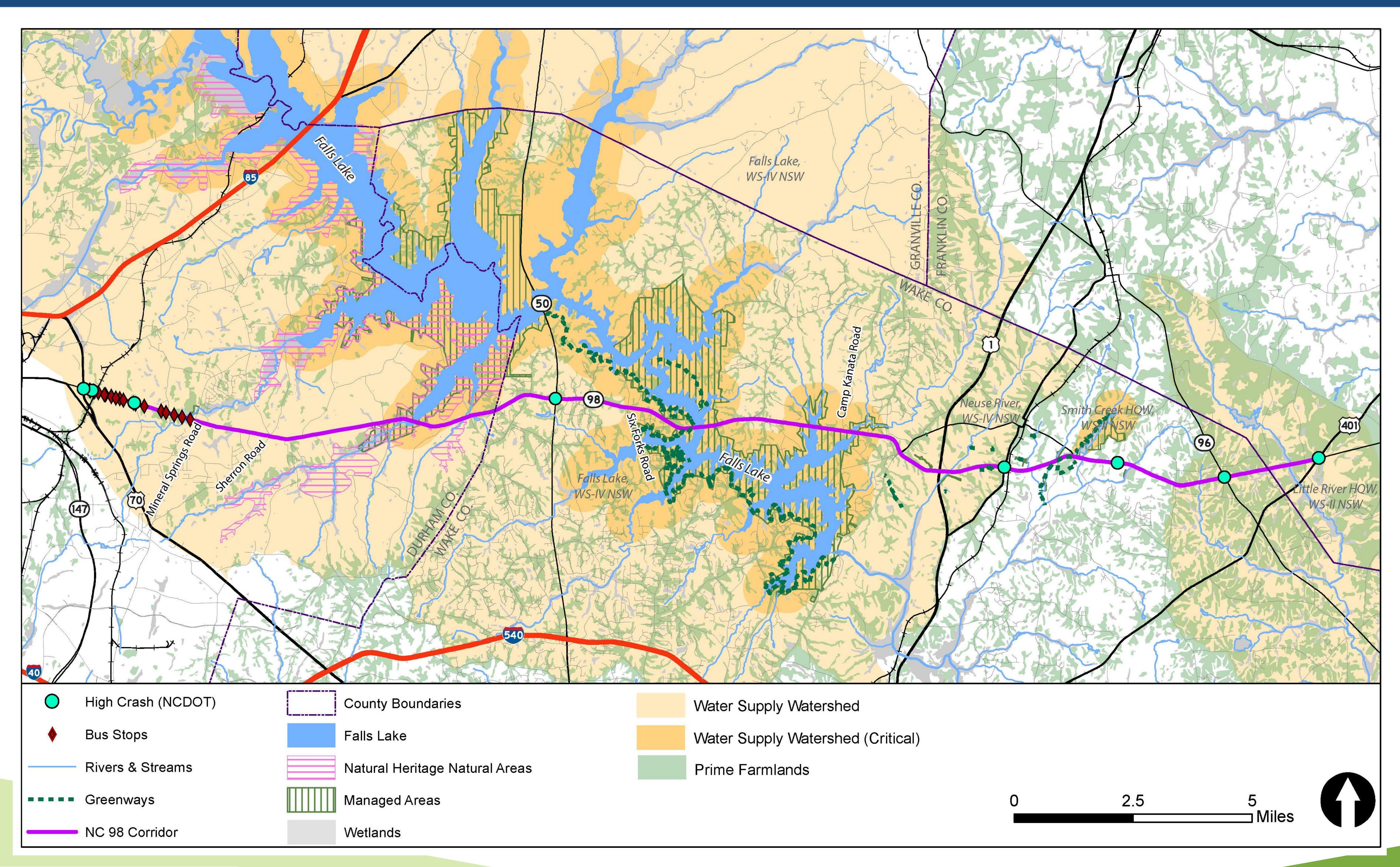


Percent Hispanic





Environmental Constraints





CRASH DATA





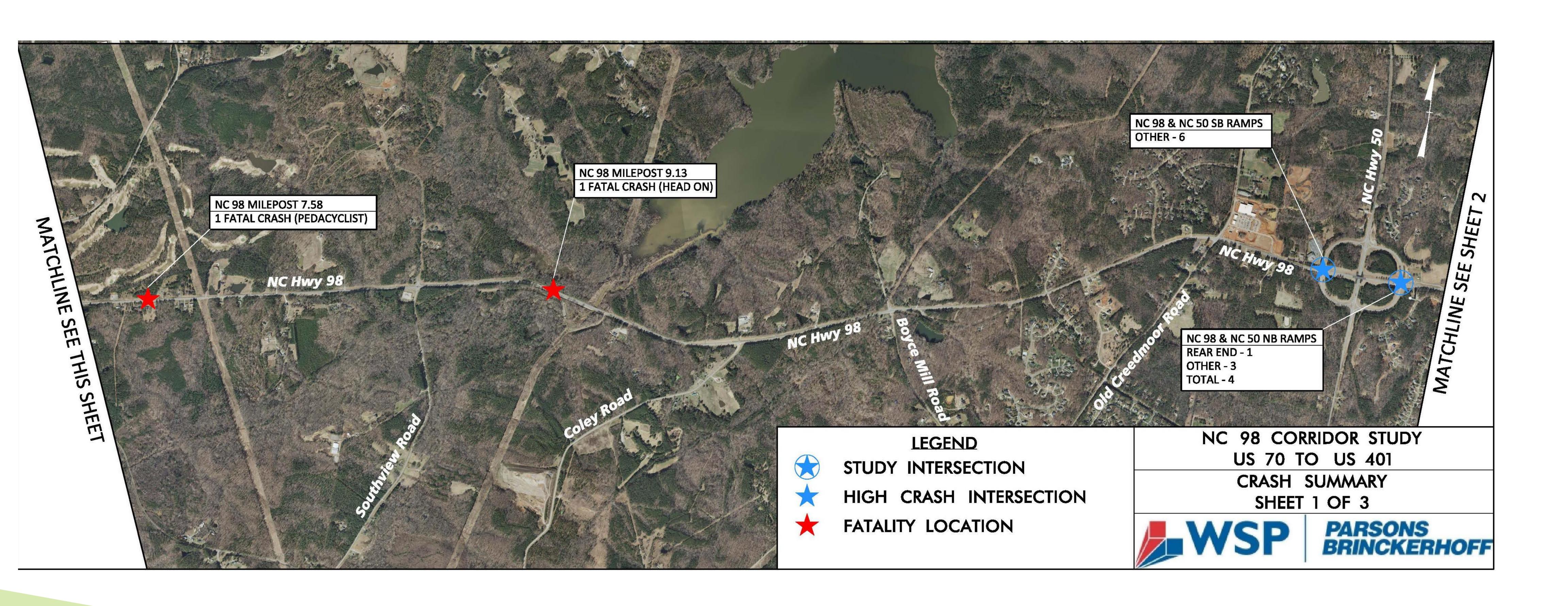
LEGEND
STUDY INTERSECTION
HIGH CRASH INTERSECTION



FATALITY LOCATION

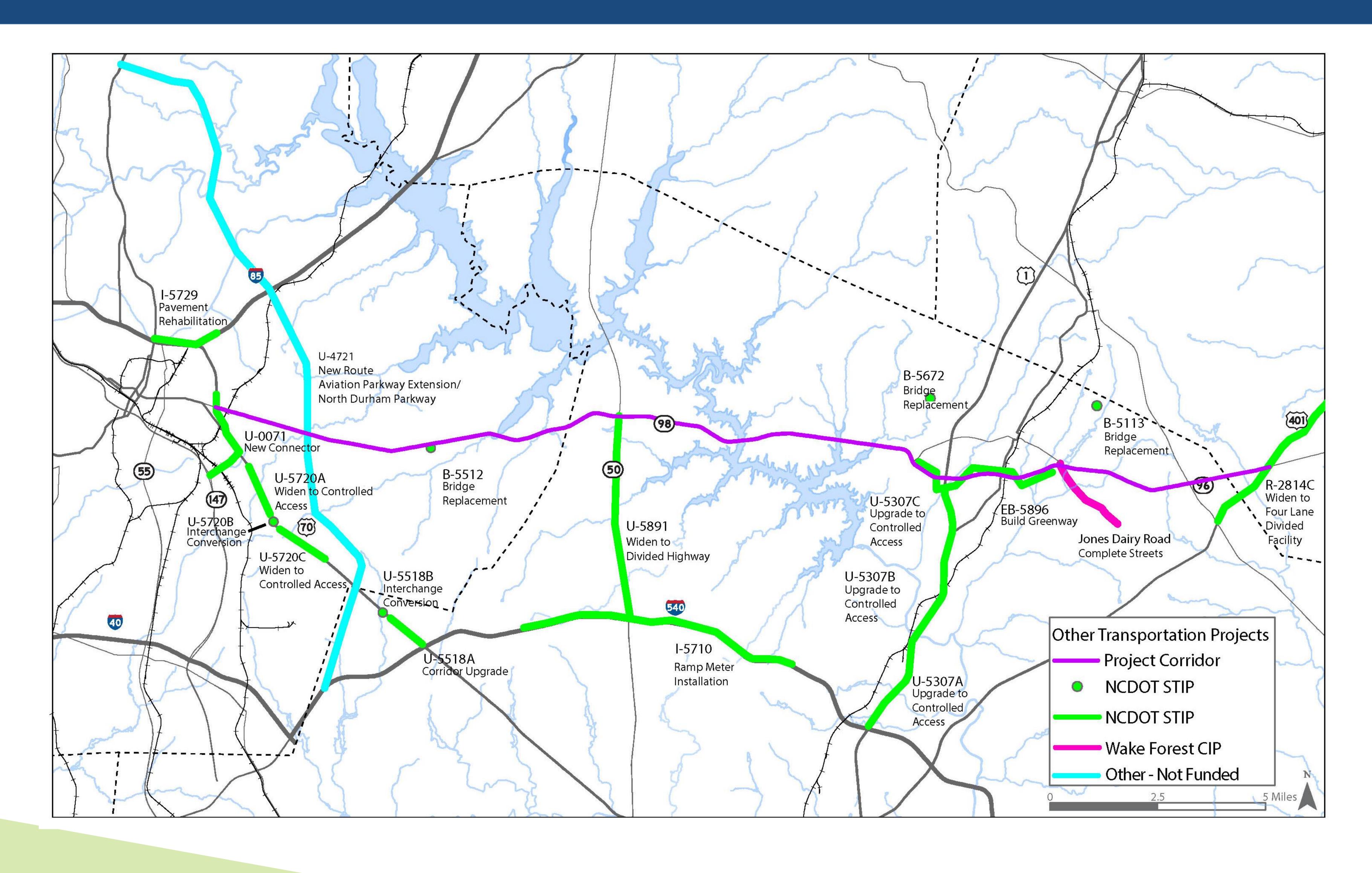


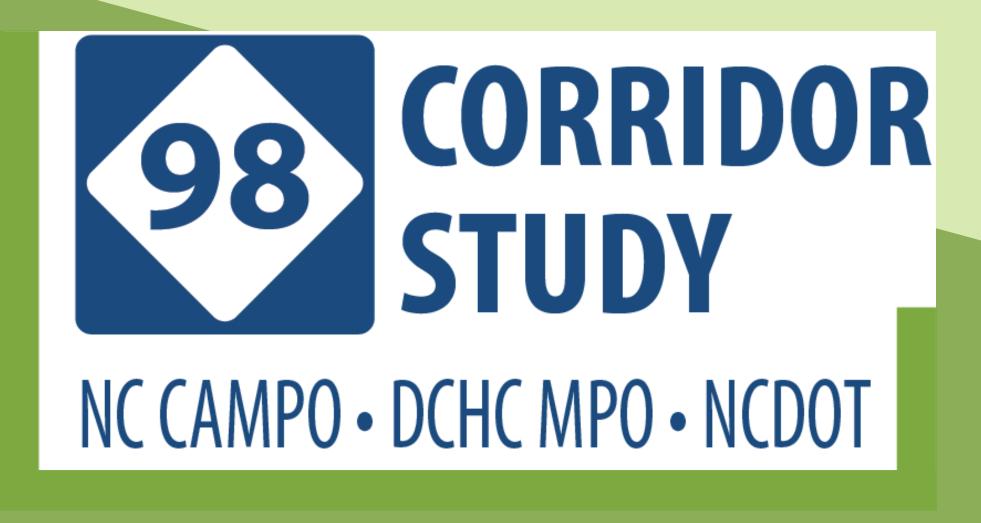
CRASH DATA





AREA PROJECTS ALONG NC 98

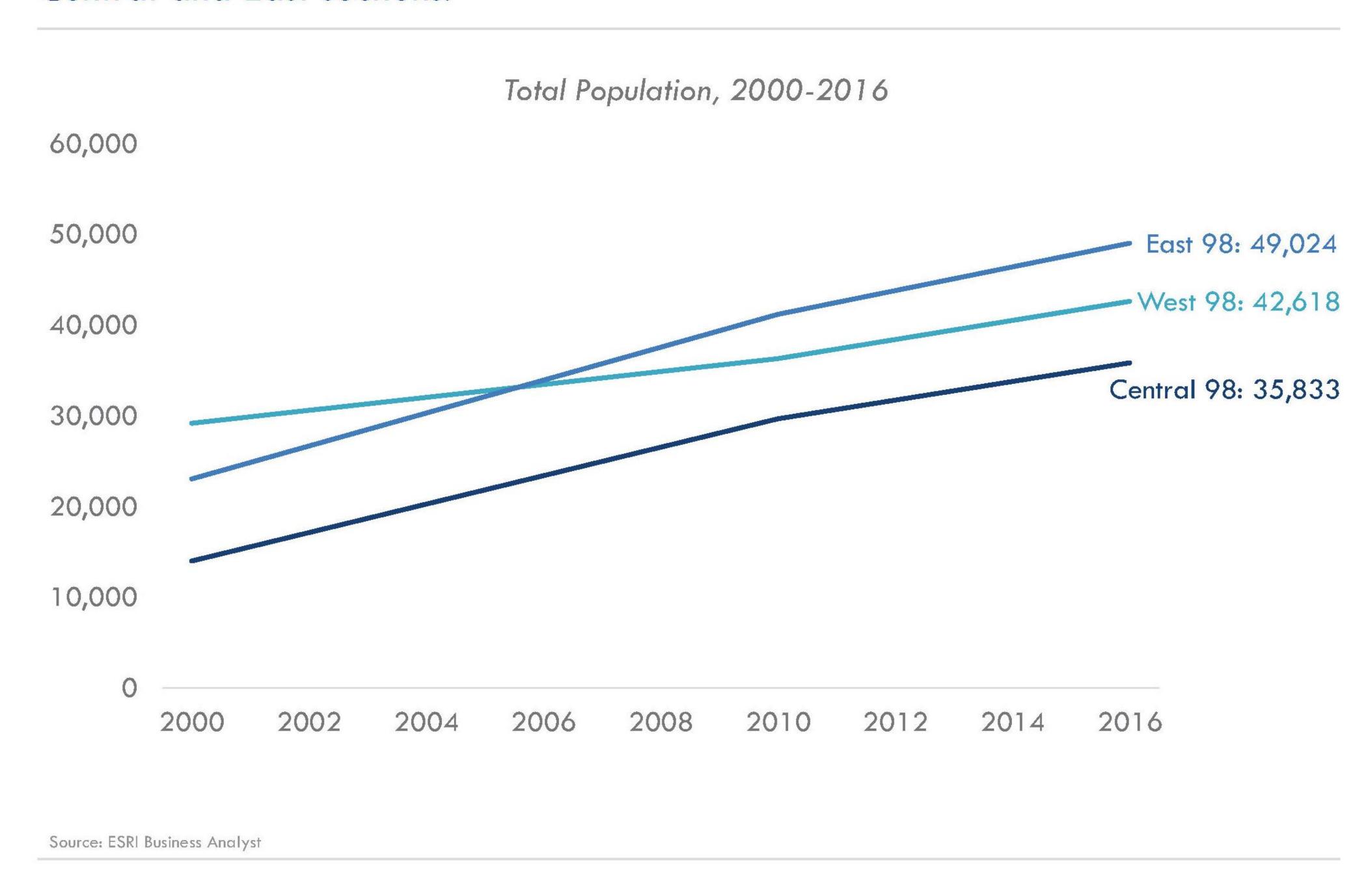




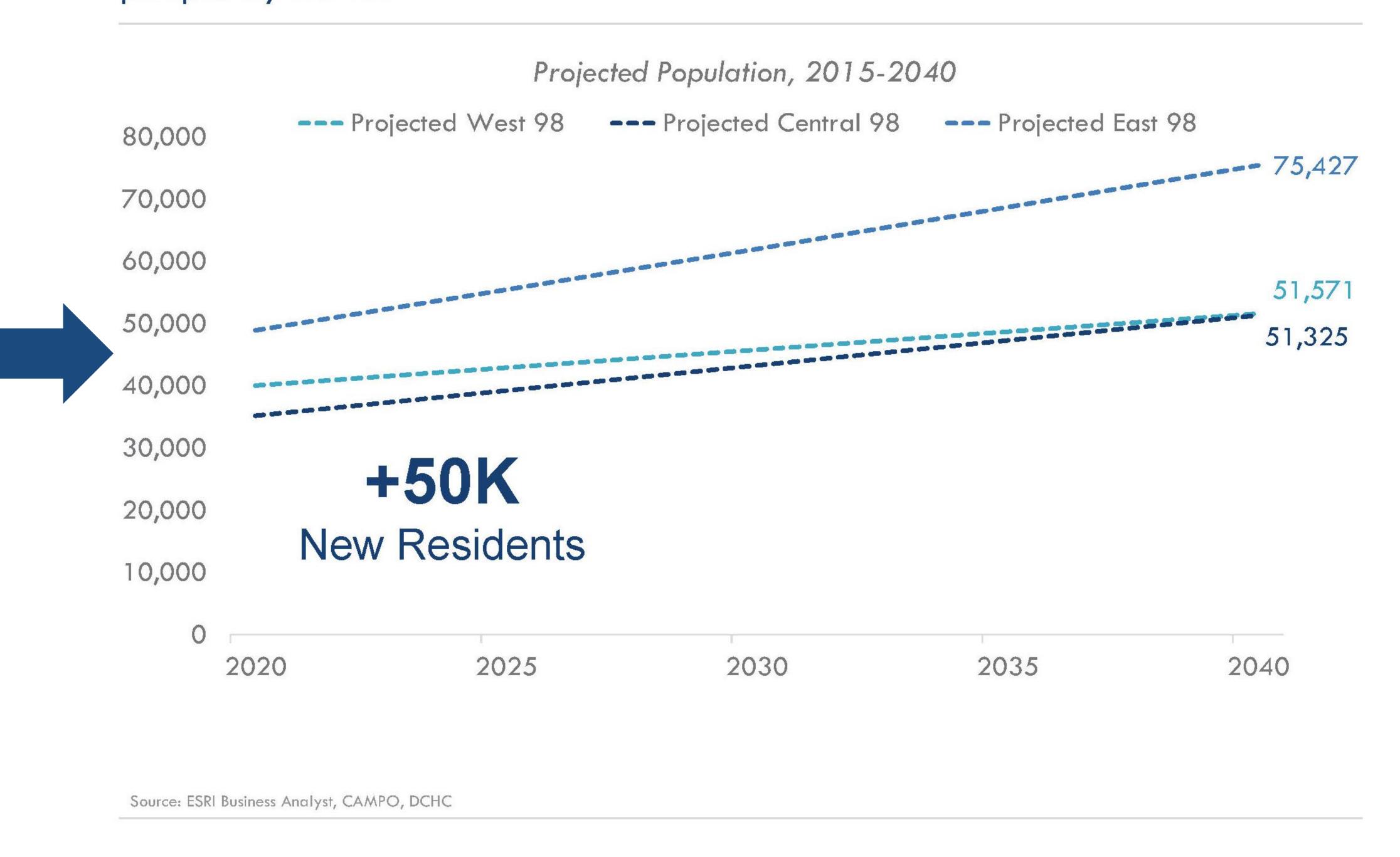
ECONOMIC ANALYSIS

POPULATION GROWTH

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



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

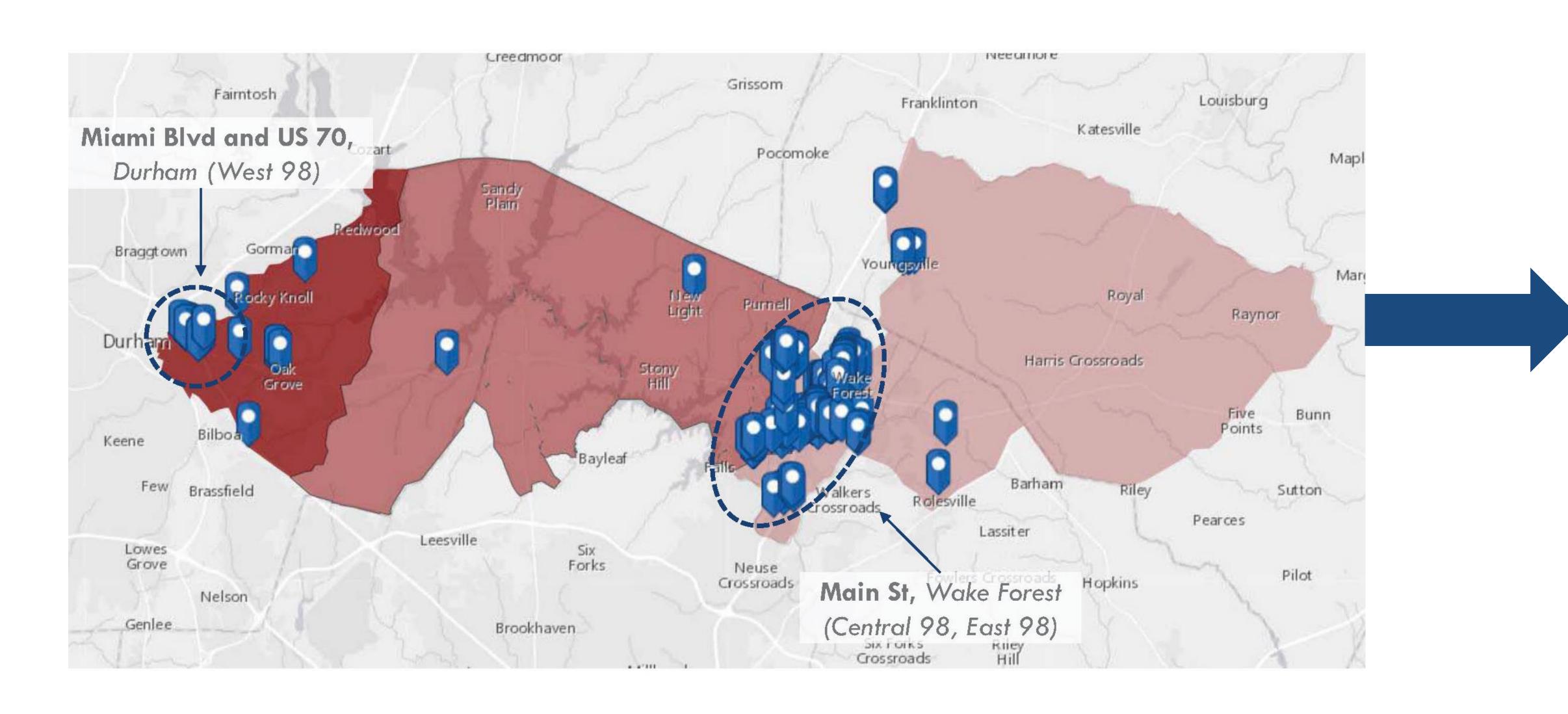




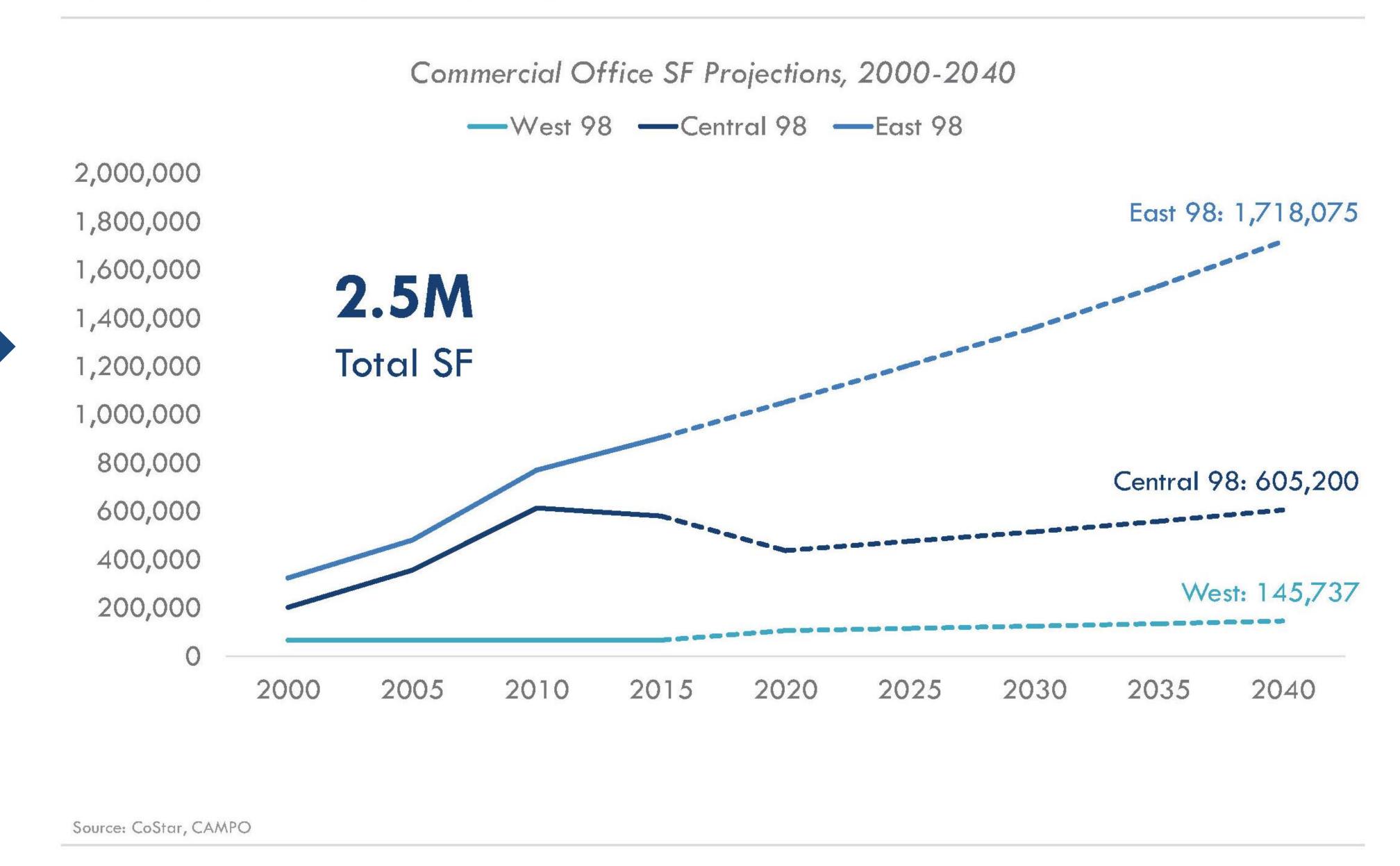
ECONOMIC ANALYSIS

COMMERCIAL GROWTH

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



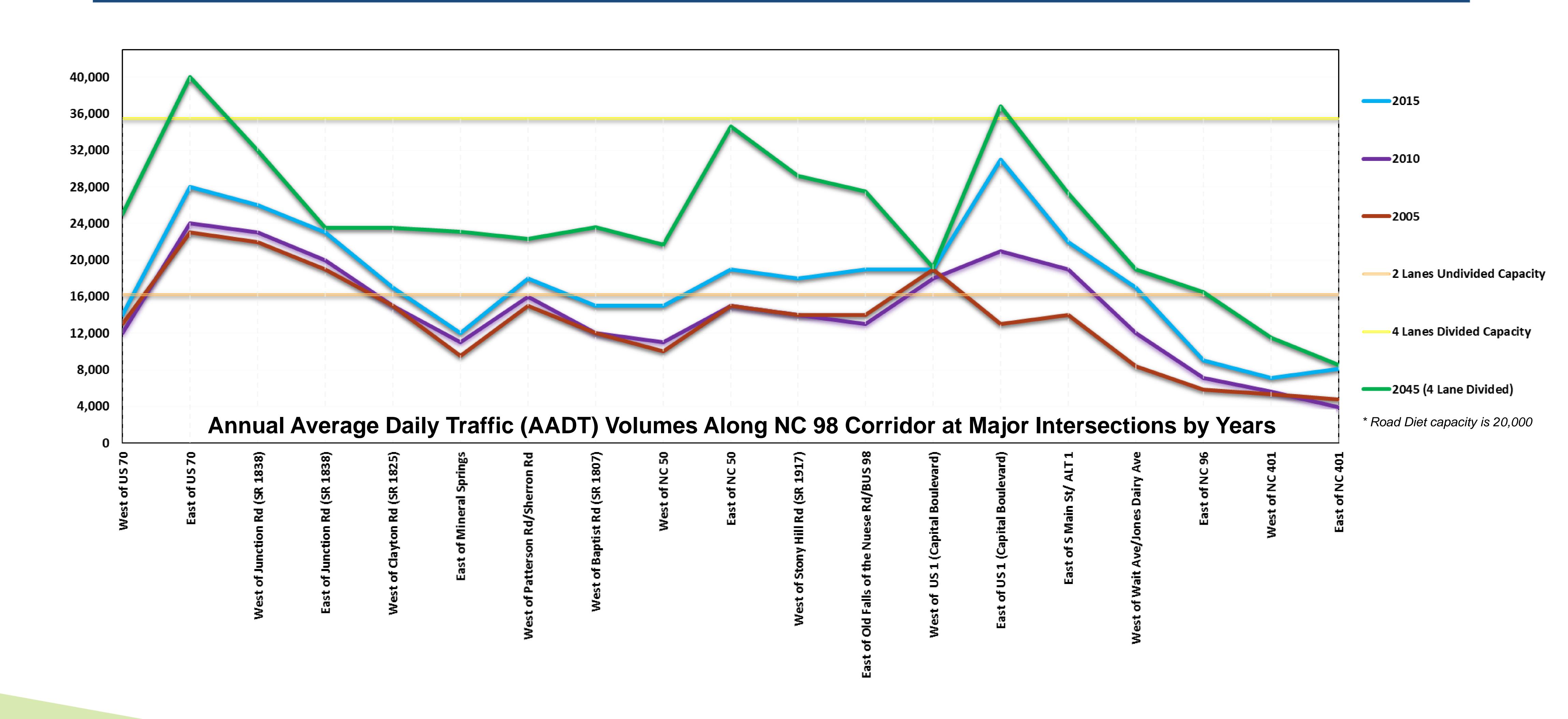
The Study Area could add an additional 1 million SF in commercial office space by 2040, primarily owing to growth in East 98.



Source: CoStar, ESRI



TRAFFIC ANALYSIS





PUBLIC PARTICIPATION





5 pop-up events 558 crowdsource comments





6 public meetings 168 comment forms/online surveys



221 attendees



121 online comment submissions/web sign-ups

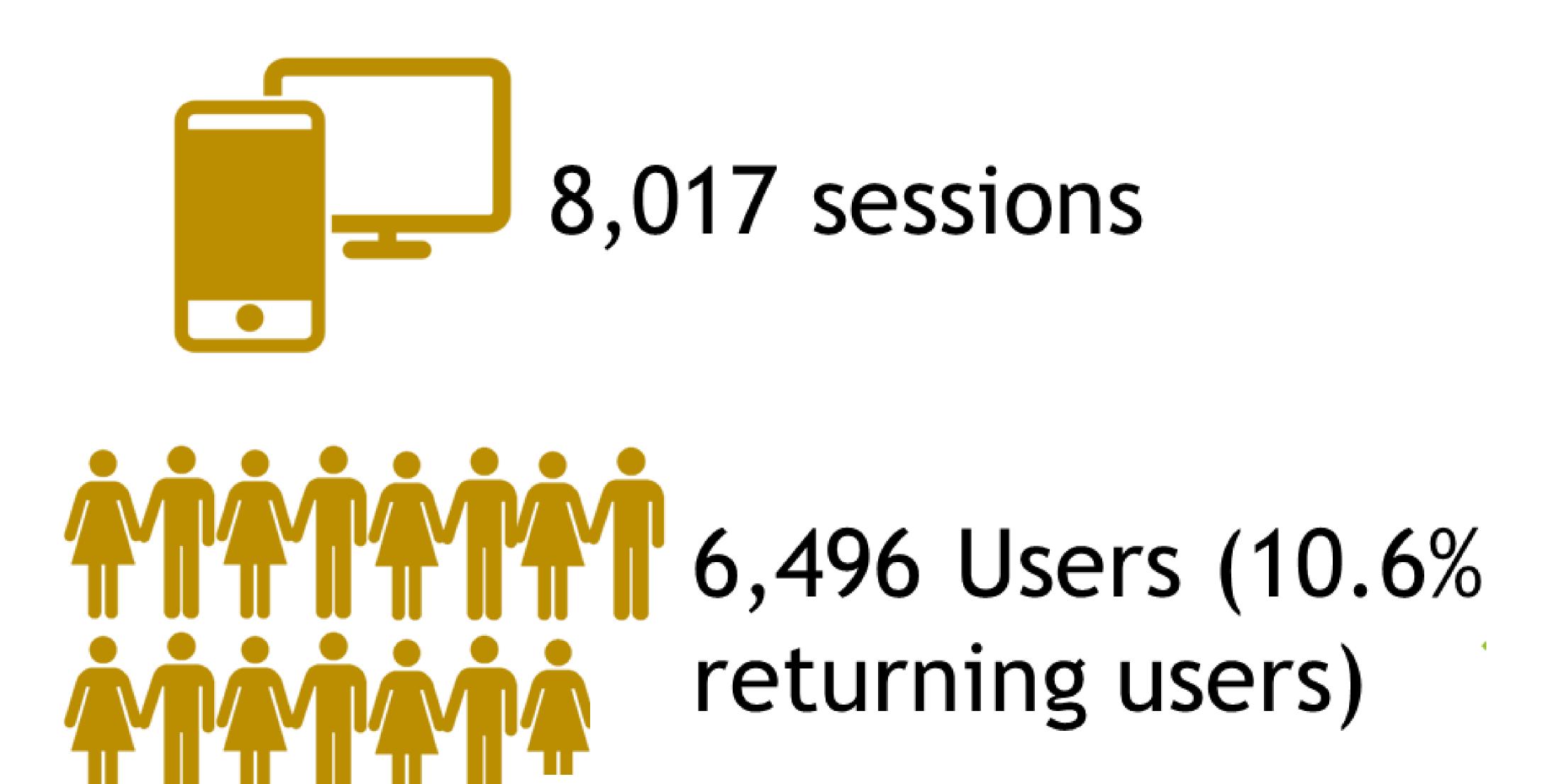


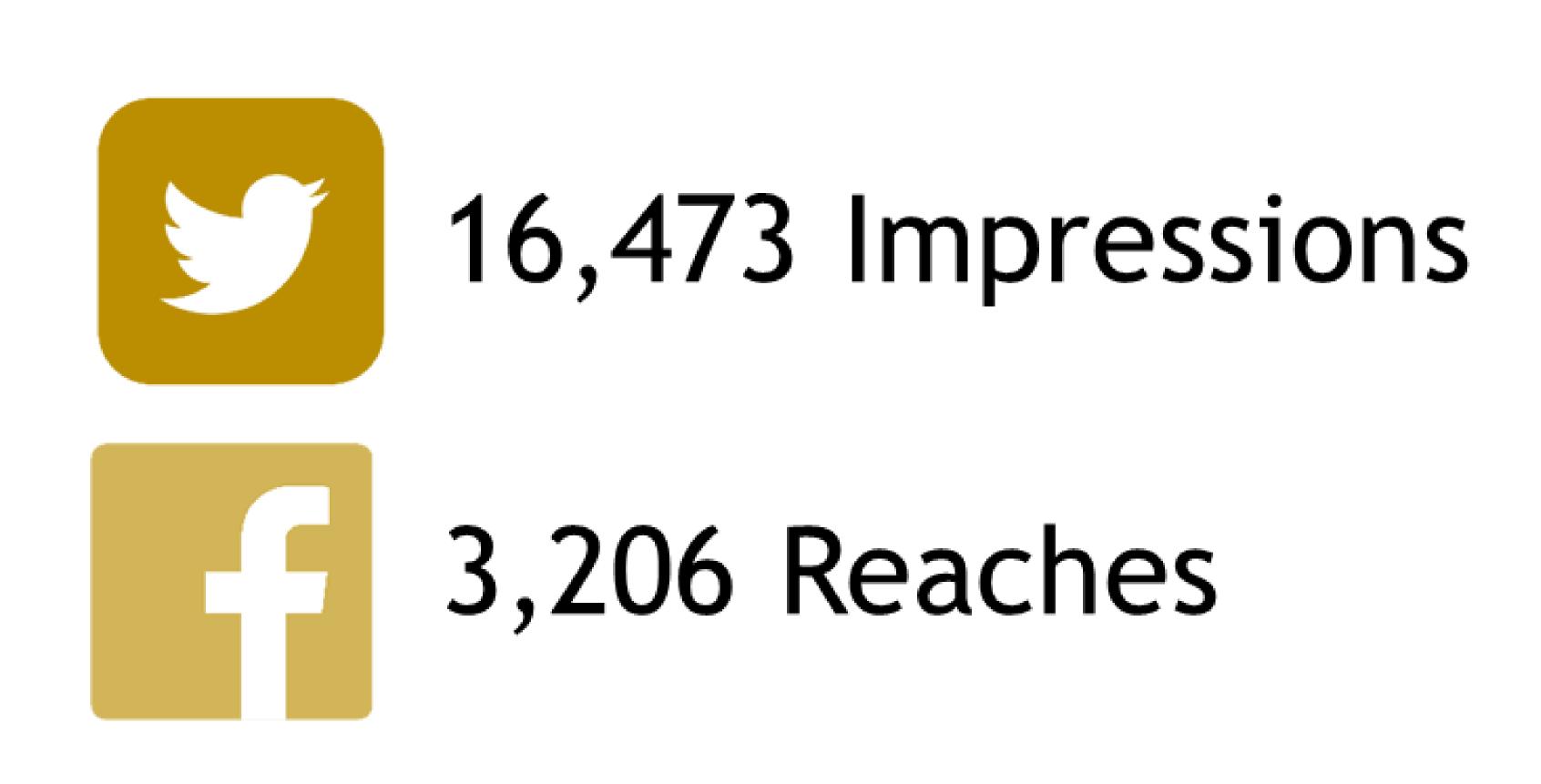
Corridor Outreach

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



PUBLIC PARTICIPATION

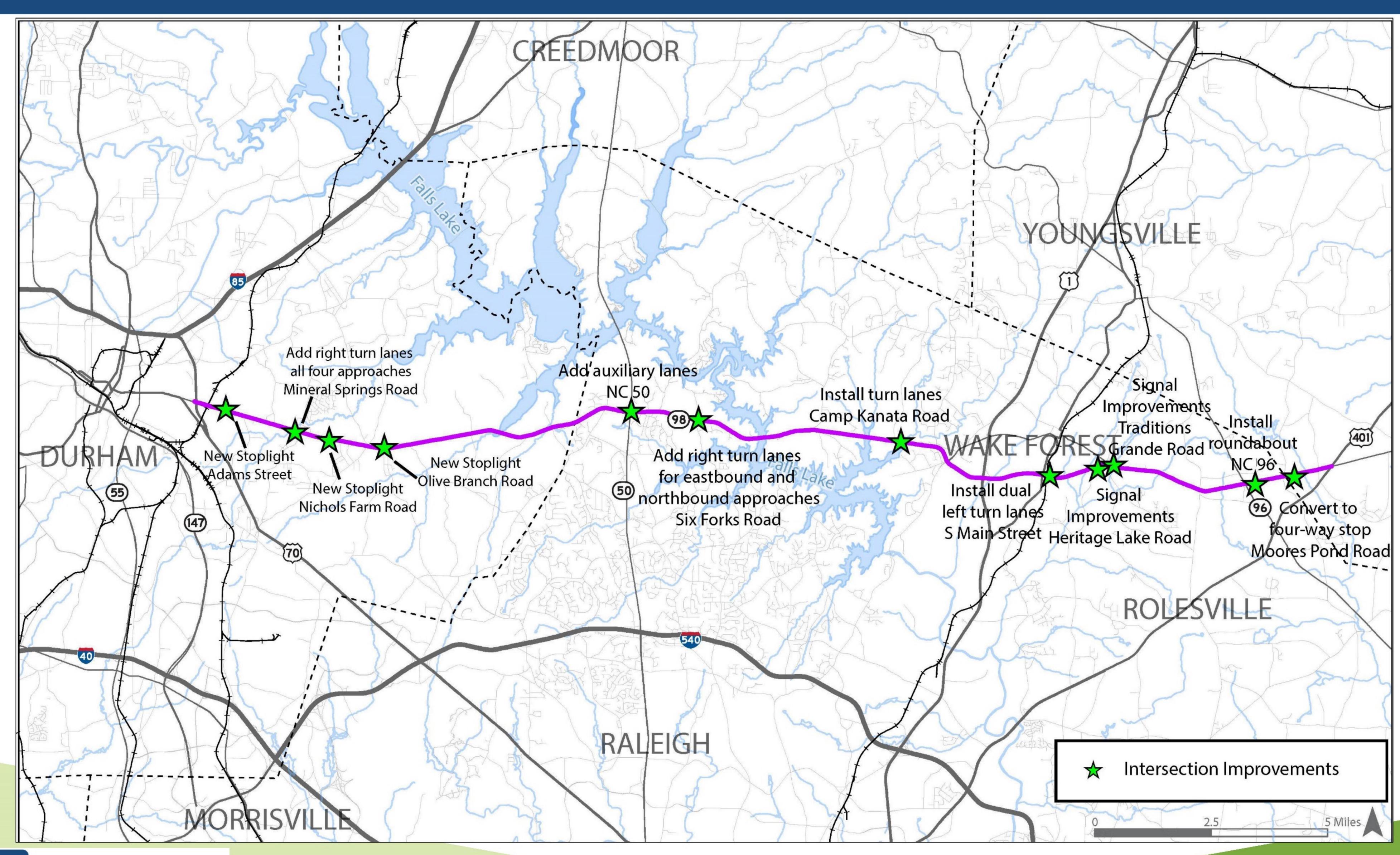




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SHORT-TERM IMPROVEMENTS





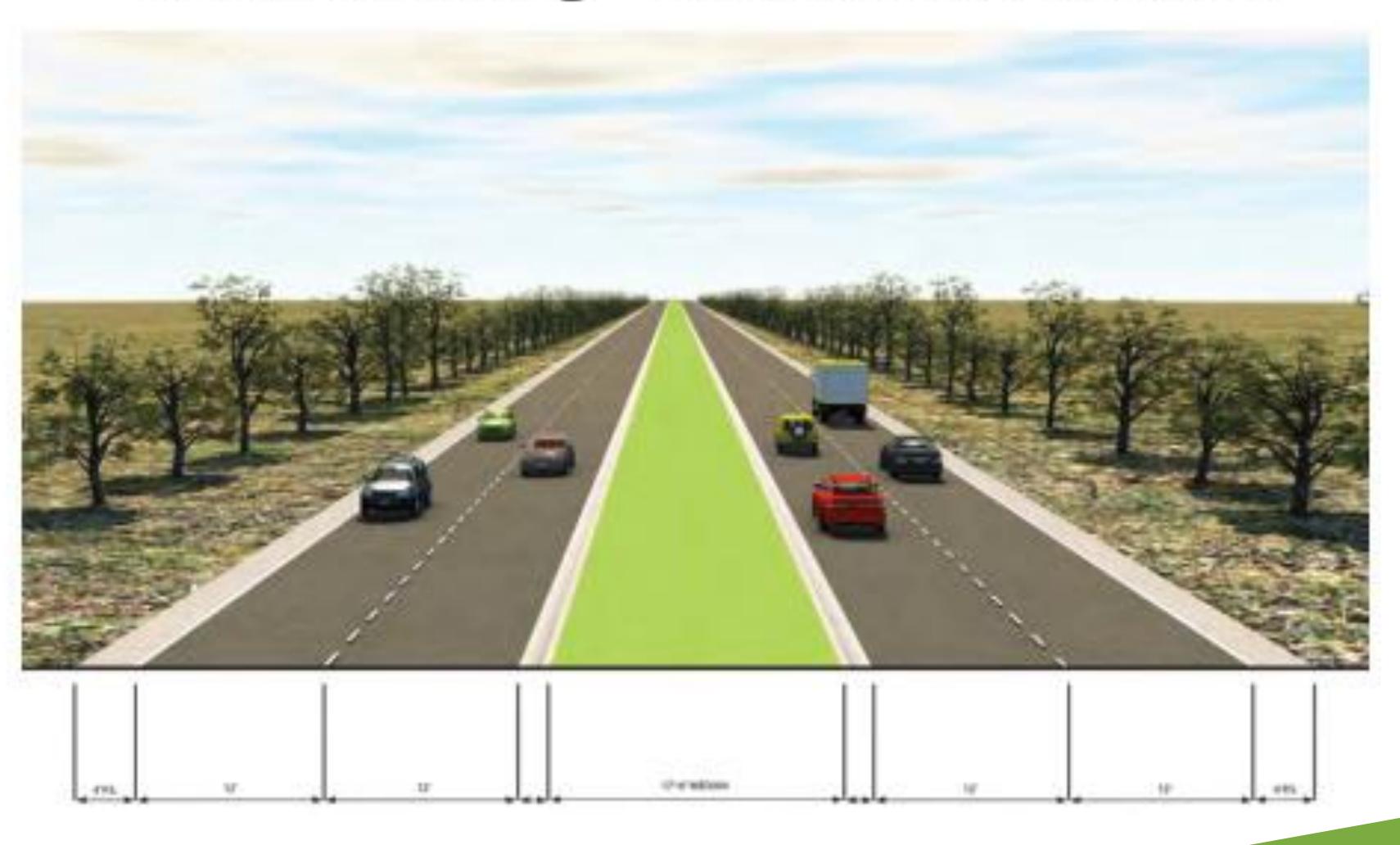
LONG-TERM IMPROVEMENTS

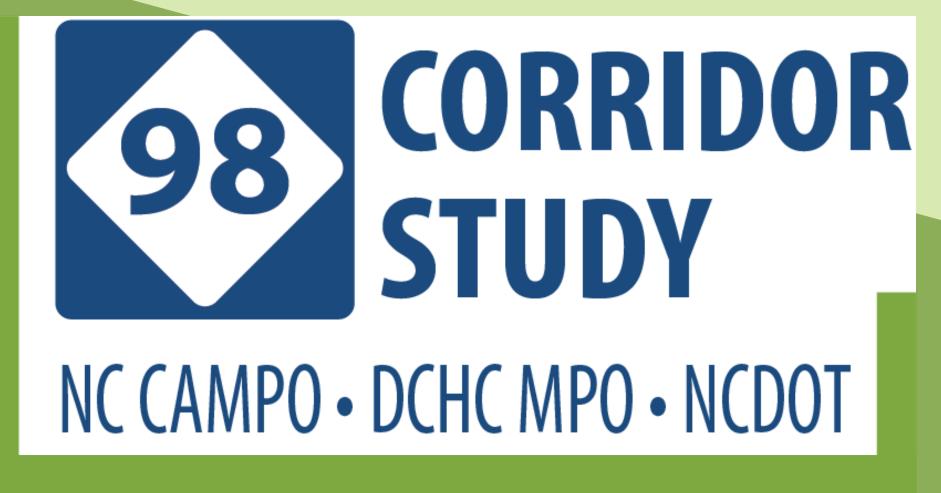


Junction to Sherron - Access Management



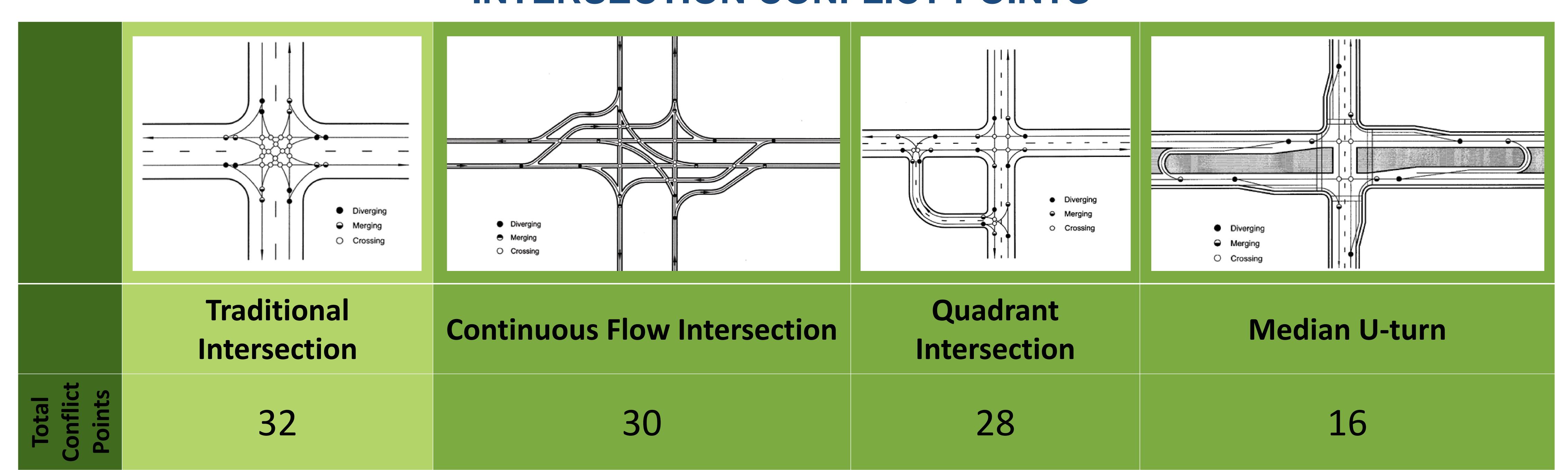
4 Lane Widening - Potential Cross Section





INTERSECTION TREATMENTS

INTERSECTION CONFLICT POINTS



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



PEDESTRIAN & BICYCLE

POTENTIAL BICYCLE AND PEDESTRIAN FACILITIES

Facility Type



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.

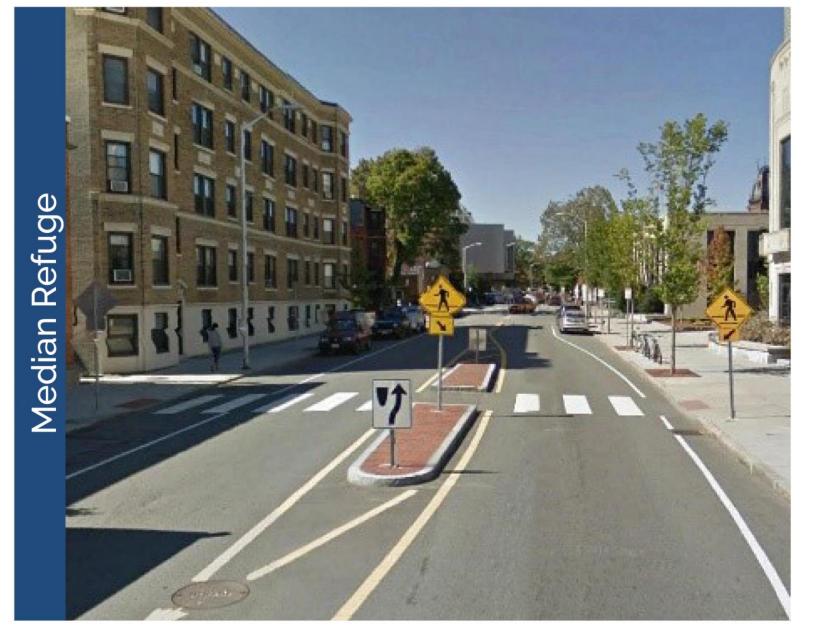


- A buffered bicycle lane is a bike lane with
- The buffer may separate the bicycle lane from motor vehicle travel, parking, or both.

additional striping or hatching (buffer) adjacent to it.

The buffer width is typically 2'-3'.

Facility Type

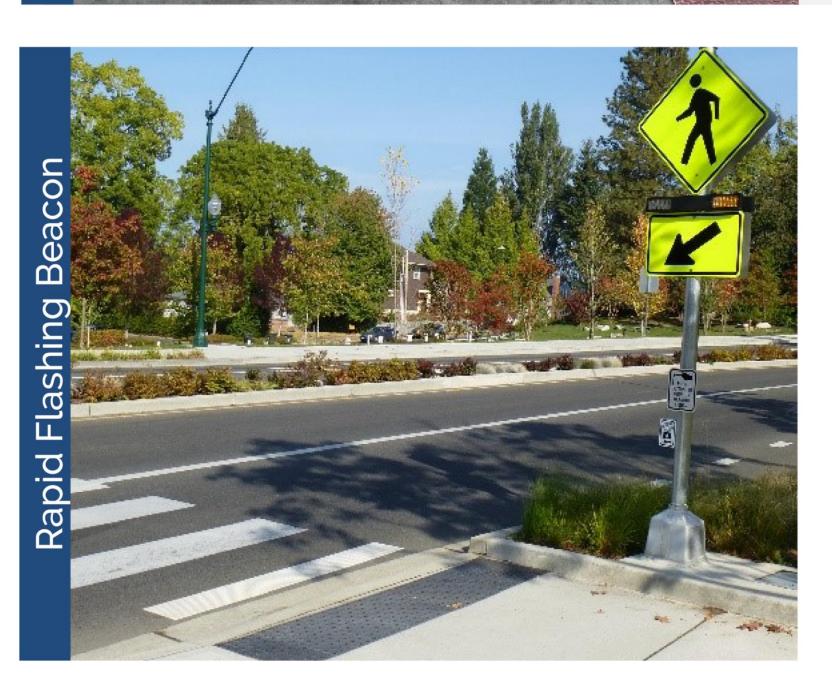


Description

- 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
- 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).

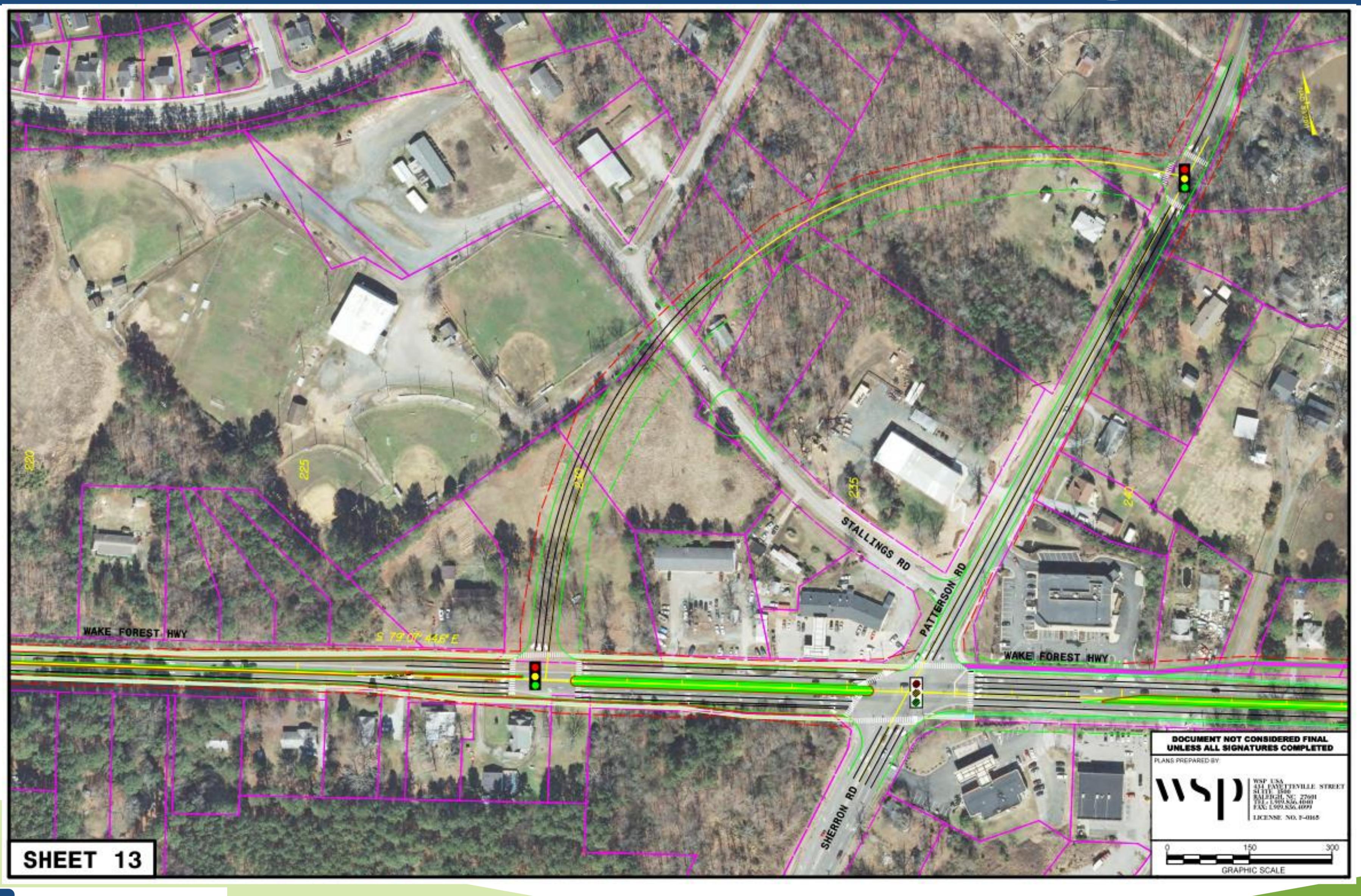


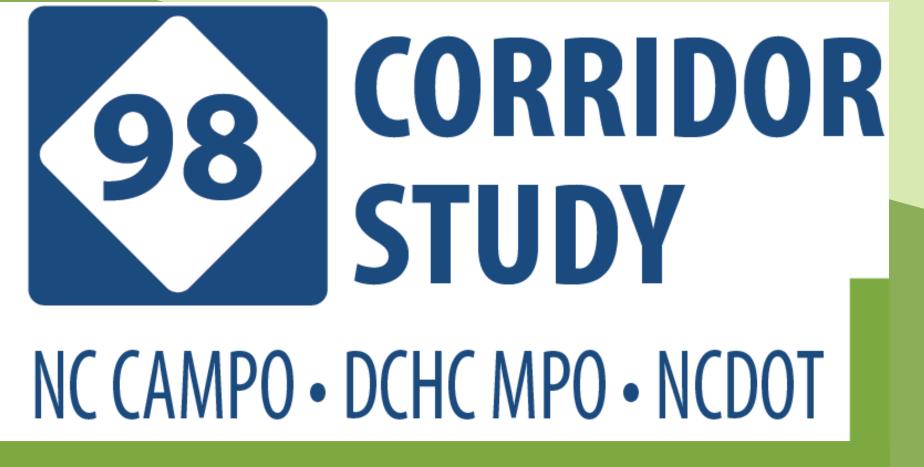
Conceptual Designs



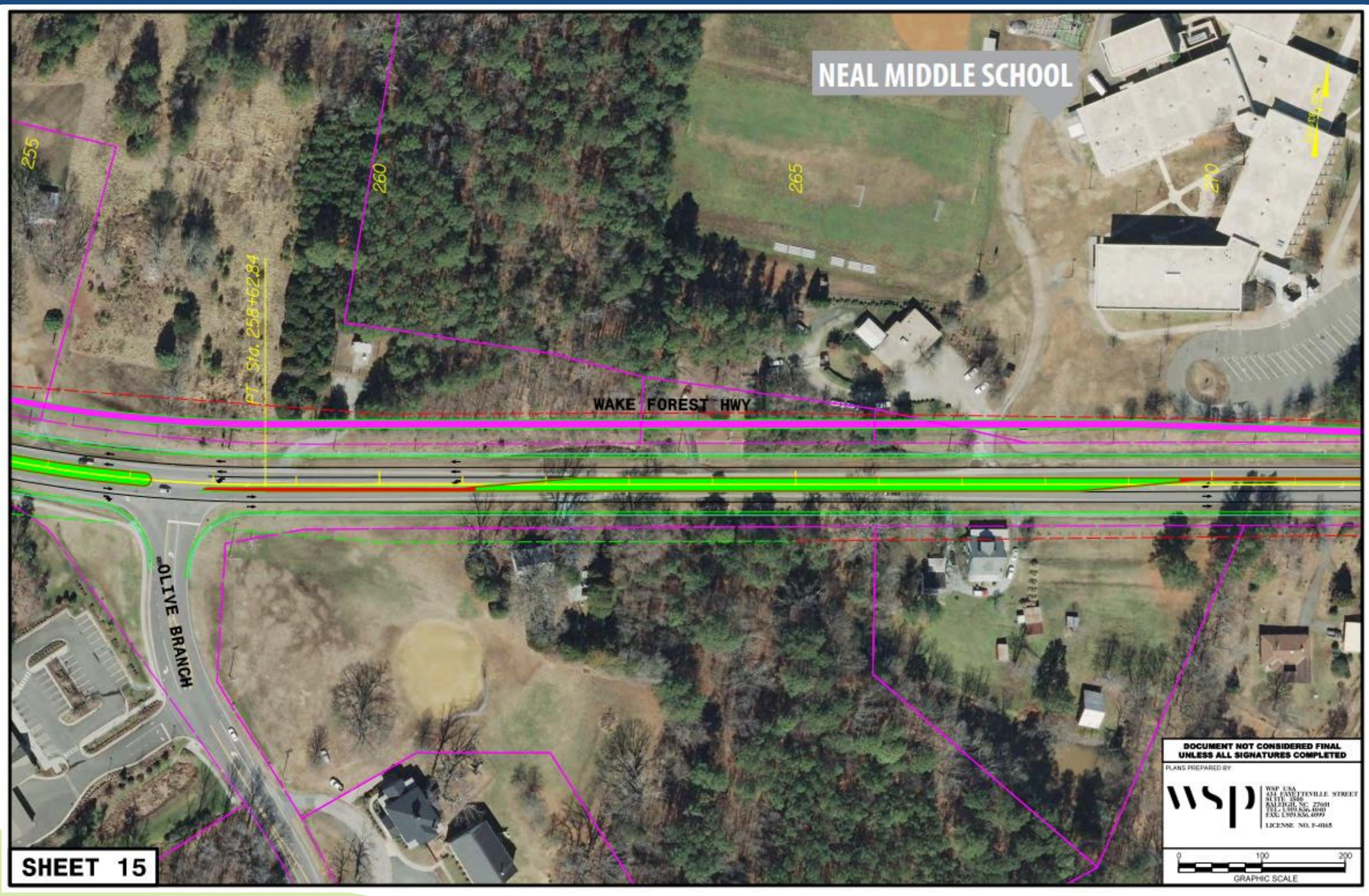


Conceptual Designs





Conceptual Designs





POTENTIAL FUNDING SOURCES

NCDOT Transportation Improvement Program Other NCDOT Funds Funds	MPO Local Project Funds	Municipal Funds	Grants	Developer
 Sherron Road to Old Falls of Neuse Widening Old Falls of Neuse Road Left turn lanes at Camp Kanata Left turn lanes at Six 	 Sidewalk improvements from US 70 to Sherron Road 	 US 70 to Sherron Road road diet option Signal improvements at 	 Pedestrian bridge over NC 98 Sidewalk improvements 	Quadrant Roadway at Sherron RoadTurn lanes at Camp
to Jones Dairy Road Forks Road Intersection Upgrades • Turn lanes at Mineral	 Sherron Road to Neal Middle School Multi- 	Heritage Lake Road and Traditions Grande	from US 70 to Sherron Road	Kanata RoadIntersection
 Jones Dairy Road to US 401 Widening Traffic signal at Adams 	use Path • Intersection	 Pedestrian bridge over NC 98 	 Transit stop improvements 	improvements from Old Falls of Neuse Road to
 Sherron Road Widening NC 98 to US 70 (needed Auxiliary Lanes on NC 	improvements at S. Main Street	 Oak Grove Elementary School Sidewalk Gap 		Jones Dairy Road • Friendship Chapel Road
for road diet) 98 at NC 50 • Northern Durham	 Intersection improvements at Jones 	 Transit stop 		extension
Parkway NC 98 to US 70 (needed for road diet)	Dairy Road and Traditions Grande			
(necaca for road aret)	 Intersection improvements at Old 			
	Falls of Neuse Road			
	 Turn lanes at Six Forks Road 			

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



Questions

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