



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

June 29, 2022

MEMORANDUM TO: Richard Virgo
Corridor Development Unit

FROM: Joe Schirripa
Traffic Forecasting Group

SUBJECT: Traffic Forecast for H184395
Harnett County
Construct Roundabout at NC 55 (N Raleigh) and NC 210 (W
Depot St) in Angier, Harnett County

Please find attached the 2022/2050 Traffic Forecast for project H184395. The forecast includes the following scenarios:

- Base Year (2022) Project No-Build / Build Forecast
- Future Year (2050) Project No-Build / Build Forecast

Fiscal Constraint: This forecast is consistent with the current STIP and with the current CAMPO MTP. The STIP and MTP contain many projects in the vicinity of the H184395 project area that may affect travel demand in the area. These include:

- Angier Western Bypass (MTP ID: A705a; STIP ID: R-5705B) – This project proposes to construct a four-lane boulevard on new location west of NC 55 from NC 55 in Wake County to NC 210 in Harnett County. The project is expected to be completed in 2030.
- Angier Western Bypass (MTP ID: A705b; STIP ID: R-5705A) – This project proposes to construct a four-lane boulevard on new location west of NC 55 from NC 210 in Harnett County to NC 55 in Harnett County. The project is expected to be completed in 2030.
- NC 55 widening (MTP ID: A118c) – This project proposes to widen NC 55 from Kennebec Church Rd to North Broad St. by 2040.
- NC 55 Business (North Raleigh St; MTP ID: Hrnt4a) – This project proposes to construct a Center Turn Lane on NC 55 Business from North Bend St to Depot St. This project is expected to be complete by 2040.
- NC 55 (MTP ID: Hrnt4b1): This project proposes to construct a Center Turn Lane on NC 55 from Depot St to the Angier Western Bypass. This project is slated for the 2050 Horizon Year.
- NC 210 (MTP ID: Hrnt2a): This project proposes to construct a Center Turn Lane on NC 210 from NC 55 to the Angier Western Bypass. This project is slated for the 2050 Horizon Year.
- NC 210 (MTP ID: Hrnt2b): This project proposes to widen NC 210 from two lanes to four lanes from the Angier Western Bypass to the CAMPO Boundary. This project is slated for the 2050 Horizon Year.

Mailing Address:
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Website: www.ncdot.gov

Location:
1 SOUTH WILMINGTON STREET
RALEIGH, NC 27601

- NC 210 (MTP ID: Hrnt3a1): This project proposes to widen NC 210 from two lanes to three lanes from NC 55 to Lipscomb Rd. This project is slated for the 2050 Horizon Year.
- NC 210 (MTP ID: Hrnt3a2): This project proposes to widen NC 210 from two lanes to four lanes from Lipscomb Rd to Old Stage Rd. This project is slated for the 2050 Horizon Year.
- NC 210 (MTP ID: Hrnt3b): This project proposes to widen NC 210 from two lanes to four lanes from Old Stage Rd to NC 50. This project is slated for the 2050 Horizon Year.

These projects are assumed to be built and open to traffic in 2050.

Development Activity: Angier has seen an explosive amount of growth in the past few years. Communications with Sean Johnson, Director of Planning and Inspections for the Town of Angier have indicated that there are several developments in various stages of approvals and construction in Angier that likely will have direct traffic impacts on NC 55 and NC 210 in the project area. These include:

- White Oak Creek Crossing Planned Unit Development: 370 residential units.
- Camden Place: 160 residential units.
- Tanglewood: 32 residential units.
- Kathryn's Retreat: 115 residential units.
- Cotswold: 111 residential units.
- Honeycutt Oaks Planned Unit Development: 254 residential units.
- Spring Village Planned Unit Development: 279 residential units.

These developments are considered built by the 2050 Horizon Year and are included in the Triangle Regional Travel Demand Model.

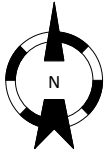
Forecast Methodology:

The 2022 Forecast is based upon current traffic counts and historical AADT trends.

The 2050 Forecast was developed based upon an analysis of historic AADT trends and information from the Triangle Regional Model. No diversion of traffic is expected as a result of replacing the NC 55/NC 210 intersection with a roundabout. Therefore, the No Build and Build scenarios are assumed to be the same.

If it is determined that any of these assumptions have become inconsistent with the project and surrounding area activity, please request an updated forecast.

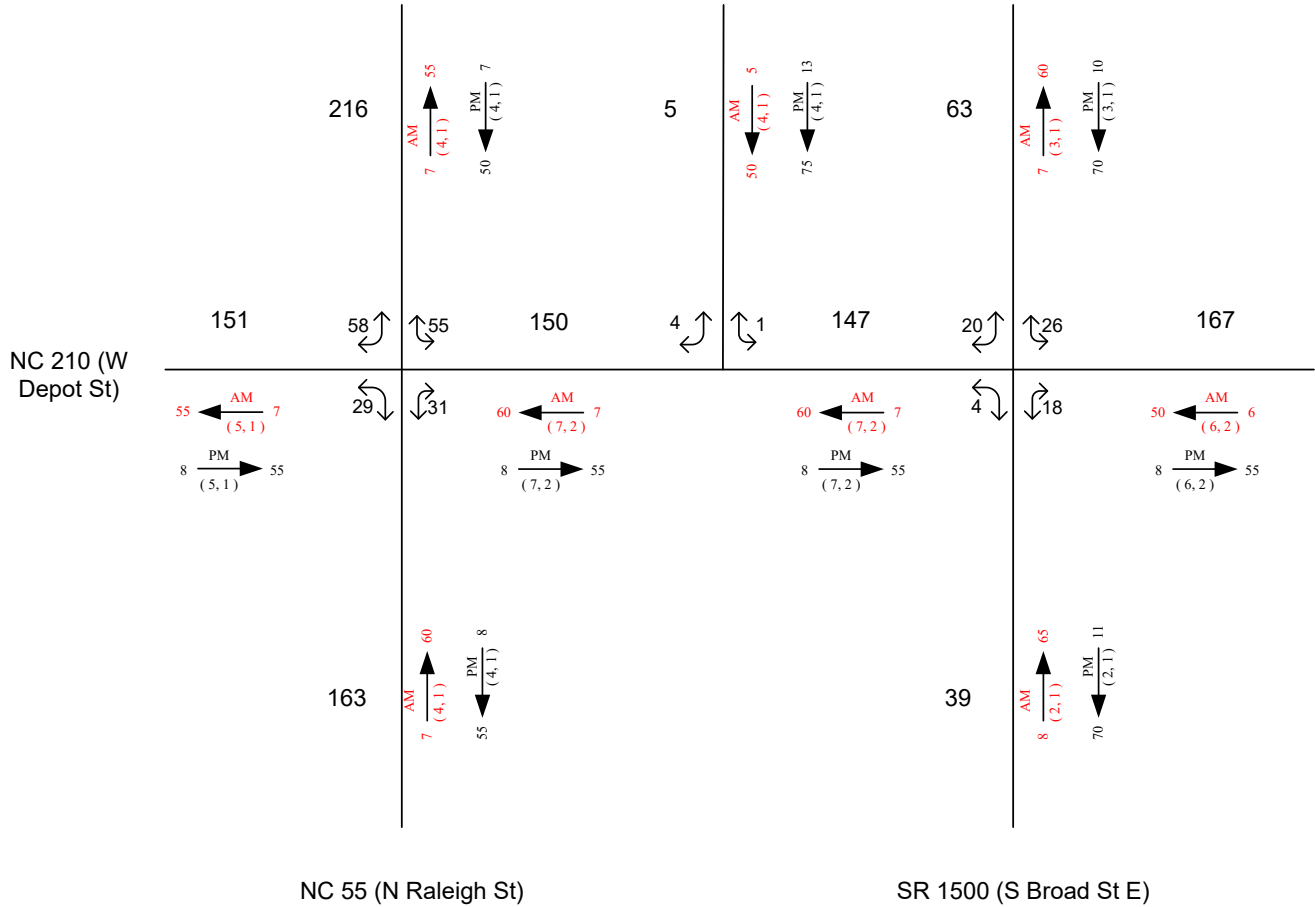
If I can be of further assistance, please contact me at 919-707-0983, email: jaschiripa@ncdot.gov.



NC 55 (N Raleigh St)

N Broad St W

SR 1500 (N Broad St E)



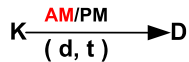
Not to Scale

Sheet 2 of 2

2050 No Build / Build

ANNUAL AVERAGE DAILY TRAFFIC

LEGEND



- ### No. of Vehicles Per Day (VPD) in 100s
- K Design Hour Factor(%)
- AM/PM Peak Period
- D Peak Hour Directional Split (%)
- Indicates Direction of D (d,t) Duals, TT-STs (%)
- 1- Less than 50 VPD
- X Movement Prohibited

TIP: H184395	WBS: 34263.1.1
COUNTY: Harnett	DIVISION: 6
DATE: June 29, 2022	
PREPARED BY: Joe Schirripa	
LOCATION: NC 55 & NC 210 in Angier, NC	
PROJECT: Construct Roundabout on NC 55 (N Raleigh St) & NC 210 (W Depot St).	