



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

April 22, 2019

MEMORANDUM TO: Tierre Peterson
Structures Management Unit

FROM: Paul S. Schroeder, PhD PE
Traffic Forecasting Group
Transportation Planning Division

SUBJECT: Traffic Forecast for B-5950
Forsyth County
Replace Bridges 330007 & 330295 on NC 67 over Salem Creek

Please find attached the 2019/2040 traffic forecast for project B-5950 in Forsyth County. The project is in the City of Winston-Salem, and concerns replacing bridges 330007 and 330295 on NC 67 (Silas Creek Parkway) over Salem Creek. Bridge 330007 carries westbound traffic; the dual bridge 330295 carries eastbound traffic.

This is the first forecast for B-5950. B-5950 is listed in the March 2019 STIP as Planning/Design in Progress. Construction is scheduled for 2027.

The following scenarios are provided:

- 2019 Estimate
- 2040 Forecast

A combined No-Build and Build forecast is provided. Replacing bridges 330007 and 330295 is not expected to substantially affect travel demand along NC 67.

Certain Assumptions were made during the development of this forecast.

Fiscal Constraint:

Within an MPO area, travel demand forecasts assume the construction of projects listed within an MPO's Metropolitan Transportation Plan (MTP). This forecast is consistent with the WSUAMPO MTP which was adopted on September 17, 2015.

Development Activity:

There is no current substantial development under construction either within or near the B-5950 project area.

Forecast Methodology:

The 2019 estimates are based upon 2019 traffic counts and historic AADT trends.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PLANNING DIVISION
1554 MAIL SERVICE CENTER
RALEIGH, NC 27699-1554

Telephone: (919) 707-0900
Fax: (919) 733-9794
Customer Service: 1-877-368-4968

Website: www.ncdot.gov



The 2040 forecast was developed based upon travel demand predictions of the Piedmont Triad Regional Model (PTRM), version 4.2 adopted October 26, 2016.

The use of straight-line interpolation to estimate AADT for years between 2019 and 2040 is acceptable.

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 we can be of any further assistance please do not hesitate to contact me at 919-707-0983, email: pschroeder@ncdot.gov or Michael Orr at 919-707-0982, email: mlorr@ncdot.gov.

cc (with Attachments):

Brenda Moore, PE, Highway Design Branch
Andy Bailey, Transportation Planning Division
Keith Dixon, Transportation Planning Division
Doumit Ishak, Congestion Management Section
Clark Morrison, PhD, PE, Pavement Management
Traffic Forecasting GIS Support

Project B-5950 Traffic Forecast

Forsyth County bridges 330007 & 330295 replacement – westbound (bridge 330007) and eastbound (bridge 330295) traffic on NC 67 (Silas Creek Parkway) over Salem Creek

Year	Road	Lanes	AADT	D	K	Duals	TTSTs
2019	NC 67 on Bridge 330007 (WB traffic)	2	14000	100%	9%	5%	2%
2040	NC 67 on Bridge 330007 (WB traffic)	2	16700	100%	9%	5%	2%
2019	NC 67 on Bridge 330295 (EB traffic)	2	14000	100%	9%	4%	1%
2040	NC 67 on Bridge 330295 (EB traffic)	2	16700	100%	9%	4%	1%

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