



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

August 9, 2019

MEMORANDUM TO: Tierre Peterson, PE
 Structures Management Unit

FROM: Chris McKoy
 Traffic Forecasting Group

SUBJECT: Traffic Forecast for B-5976
 Lee County
 Replace Bridge Nos. 69 and 70 on SR 1400 (Cumnock Road)
 over Norfolk Southern RR.

Please find attached the 2019/2045 traffic forecast for B-5976 in Lee County.

This forecast represents project No-Build and Build conditions. Replacing Bridges Nos. 69 and 70 is not expected to substantially affect travel demand along Cumnock Road. Cumnock Road is assumed to have two lanes of travel in 2045.

Certain Assumptions were made during the development of this forecast.

Fiscal Constraint:

Outside of an MPO area travel demand forecasts assume the construction of projects listed within the State Transportation Improvement Plan (STIP). This forecast is consistent with the current STIP. No other projects within the STIP affect travel demand on Cumnock Road within the area of bridges 69 and 70.

Development Activity:

There is no substantial current development under construction and future planned development within the immediate area of the project.

Forecast Methodology:

The 2019 estimate is based upon current traffic counts.

The 2045 forecast is based upon population projections prepared by the State Demographers Office and predictions of the Lee County Travel Demand Model.

The use of straight-line interpolation to estimate AADT for years between 2019 and 2045 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.

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If we can be of any further assistance please do not hesitate to contact me at 919-707-0939, email: cdmckoy@ncdot.gov.

cc (with Attachments):

Brenda Moore, PE, Highway Design Unit
Scott Walston, PE, Transportation Planning Division
Keith Dixon, Transportation Planning Division
Doumit Y. Ishak, Congestion Management
Clark Morrison, PE, Pavement Management
Traffic Forecasting GIS Support

Project B-5976 Traffic Forecast

Lee County bridges 520069 and 520070 replacement – SR-1400 (Cumnock Road) over NSRR

Year	Lanes Cumnock Rd	AADT	D	K	Duals	TTSTs
2019	2	2400	60%	17%	2%	7%
2045	2	2700	60%	17%	2%	7%

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