



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

July 20, 2018

MEMORANDUM TO: Colin Mellor
Environmental Analysis Unit

FROM: Chris McKoy
Traffic Forecasting Group

SUBJECT: Traffic Forecast for B-5981
Duplin County
Replace Bridge No. 16 on US 117 NBL over CSX RR

Please find attached the 2018/2040 traffic forecast for B-5981 in Duplin County.

The forecast represents project No-Build and Build conditions. Replacing Bridge No. 16 is not expected to substantially affect travel demand along US 117.

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 Program. This forecast is consistent with the current STIP. No other projects within the STIP affect travel demand on US 117 within the area of Bridge 16.

Development Activity:

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

Forecast Methodology:

The 2018 estimates are based upon historic AADT trends.

The 2040 forecast was developed based upon travel demand predictions of the North Carolina Statewide Transportation Model, Gen.2, and population projections for Duplin County prepared by the State Demographers Office.

The use of straight-line interpolation to estimate AADT for years between 2018 and 2040, and straight-line extrapolation to estimate AADT for up to 2 years beyond 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.

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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 Branch
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Traffic Forecasting GIS Support
File Copy: B-5981 Duplin County

Project B-5981 Traffic Forecast

Duplin County bridge 16 replacement – US 117 NBL over CSX RR

Year	NB Lanes US 117	AADT	D	K	Duals	TTSTs
2018	2	2000	100%	9%	3%	3%
2040	2	2300	100%	9%	3%	3%

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