



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

September 21, 2018

MEMORANDUM TO: Jacquelyn Bowles
NCDOT Structures Management Unit

FROM: Keith Dixon
NCDOT Transportation Planning Division

SUBJECT: Traffic Forecast for B-4933
Edgecombe County
Replace Bridge No. 320080 on NC 33 over Tar River

Please find attached the 2018/2045 traffic forecast for project B-4933.

This forecast represents project No-Build and Build conditions. Replacing Bridge No. 320080 is not expected to substantially affect travel demand along NC 33. NC 33 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 NCDOT STIP. This forecast is consistent with the NCDOT Current 2018-2027 STIP dated September 2018. There are no known project that are currently programmed in the 2018-2027 STIP that are expected to change traffic or travel patterns on bridge 320080.

Development Activity:

There is no substantial development currently under construction, nor are there any specific plans for future development that are expected to have a substantial effect on traffic on NC 33 over bridge 320080.

Mailing Address:
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TRANSPORTATION PLANNING DIVISION
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Customer Service: 1-877-368-4968

Website: www.ncdot.gov



Forecast Methodology:

The 2018 estimates are based upon historic AADT trends and published traffic data.

The 2045 forecast was developed based upon predictions of the NC Statewide Travel Demand Model, version 2.3, and historic AADT estimates.

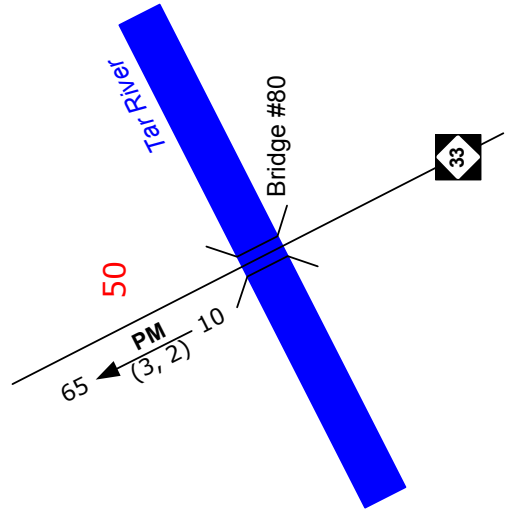
The use of straight-line interpolation to estimate AADT for years between 2018 and 2045 is acceptable.

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

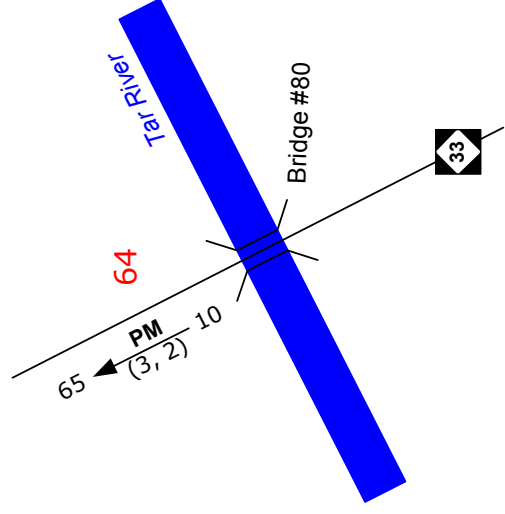
If we can be of any further assistance please do not hesitate to contact me at 919-707-0984, email: kgdixon@ncdot.gov.

cc (with Attachments):

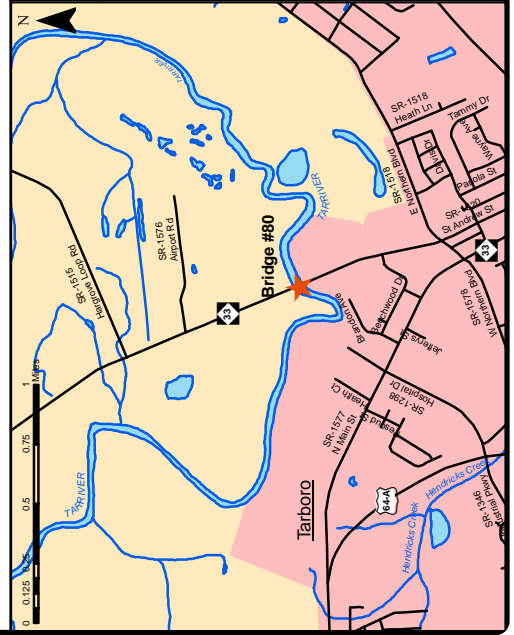
Brenda Moore, PE, Highway Design Branch
Scott Walston, PE, Transportation Planning Division
Mike Reese, PE, Congestion Management Section
Clark Morrison, PhD, PE, Pavement Management
Rekha Patel, PE, Summit Engineering
Traffic Forecasting GIS Support



2018 No Build



2045 Build



2018 / 2045

ANNUAL AVERAGE
DAILY TRAFFIC

SHEET 1 OF 1

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

TIP: B-4933	WBS: 40136.1.1
COUNTY: Edgecombe	DIVISION: 4
DATE: 09-21-2018	
PREPARED BY: Keith Dixon	
LOCATION: Bridge #80 on NC 33 over Tar River	
PROJECT: Replace Bridge #80	