



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

May 6, 2015

MEMORANDUM TO: Kim Gillespie, PE
Project Development and Environmental Analysis Branch

FROM: Elisabeth R. Bray
Transportation Planning Branch

SUBJECT: Traffic Forecast for B-4648
Tyrrell County
SR 1105 (Riders Creek Rd); Bridge #17

Please find attached the 2015/2040 traffic forecast for the above mentioned project. TIP Project B-4648 is the replacement of Bridge #17 on SR 1105 (Riders Creek Rd) over Riders Creek in Tyrrell County. This is the first forecast for this project. This project lies within the Albemarle Rural Planning Organization.

The following people were contacted for information about the project area:

Nazia Sarder – TPB Albemarle RPO Coordinator
Angela Welsh – Albemarle RPO Coordinator
Gretchen Byrum, PE – Division 1 Planning Engineer
David Clegg – Tyrrell County Manager

The following scenarios are provided:

- 2015 Base Year No Build
- 2040 Future Year Build

Certain Assumptions were made during the development of this forecast:

Fiscal Constraint:

For projects located outside a Metropolitan Planning Organization, forecasts are fiscally constrained to the State Transportation Improvement Program (STIP). This means that in the future year, any project which has some construction money scheduled in the STIP is considered constructed by the future year. There are no projects in the vicinity that will affect traffic along this route.

It should be noted that B-4648 has some construction money in 2020.

Development Activity:

There are no developments that are planned and approved in the project area.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PLANNING BRANCH
1554 MAIL SERVICE CENTER
RALEIGH NC 27699-1554



<http://ncdot.org/doh/preconstruct/tpb/>

LOCATION:
TRANSPORTATION BUILDING
1 SOUTH WILMINGTON STREET
RALEIGH, NC 27601
Phone: 919-733-4705
Fax: 919-733-2417

Methodology:

The historical AADT growth rates were reviewed. The selected growth rate was then applied to the Base Year No Build 2015 AADT and grown exponentially to forecast the Future Year Build 2040 volume. Adjustments were then made to refine and balance the resulting volume estimate.

Interpolation:

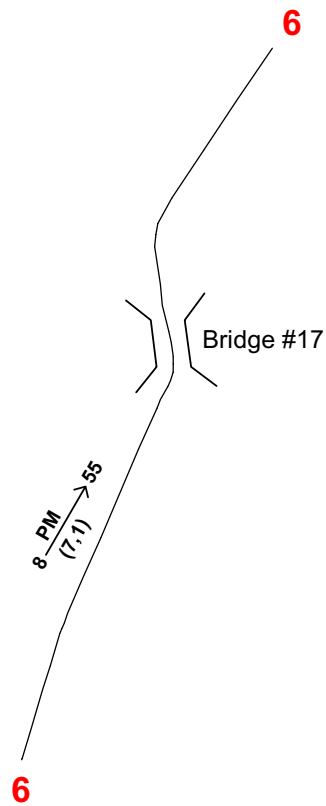
To determine any intermediate years, straight-line interpolation may be used. AADT volumes may be extrapolated for up to two years immediately following 2040. If it is determined that any of these assumptions have become inconsistent with the project and surrounding area activity, please request updated projections at this location.

For future reference this forecast will be saved in Project Store in the LongRangePlanning\Traffic Forecasts folder, under project B4648. If you have any questions, or I can be of any further assistance on this project, please do not hesitate to contact me at 919-707-0938, email: erbray@ncdot.gov.

cc : FILE (Tyrrell County, TIP Project B-4648)
cc: (via e-mail as PDF Attachments):
Glenn Mumford, PE, Roadway Design Branch
Behshad Norowzi, Transportation Planning Branch
Brian Wert, PE, Transportation Planning Branch
BenJetta Johnson, PE, Congestion Management Section
Clark Morrison, Ph.D., PE, Pavement Management
Gretchen Byrum, PE, Division 1 Planning Engineer
Angela Welsh, Albemarle RPO
Karen Roberson, Transportation Planning Branch



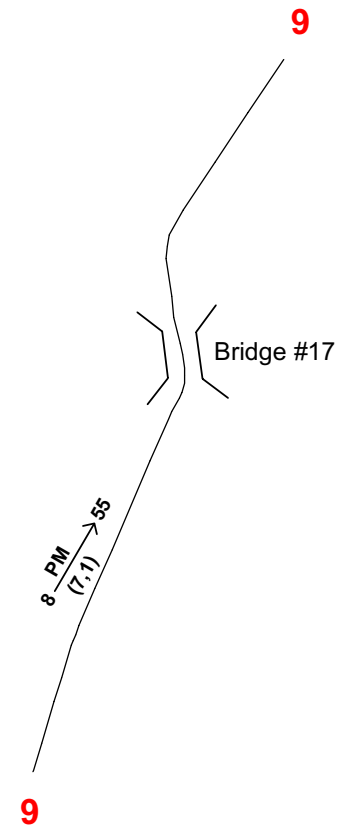
SR 1105
Riders Creek Road



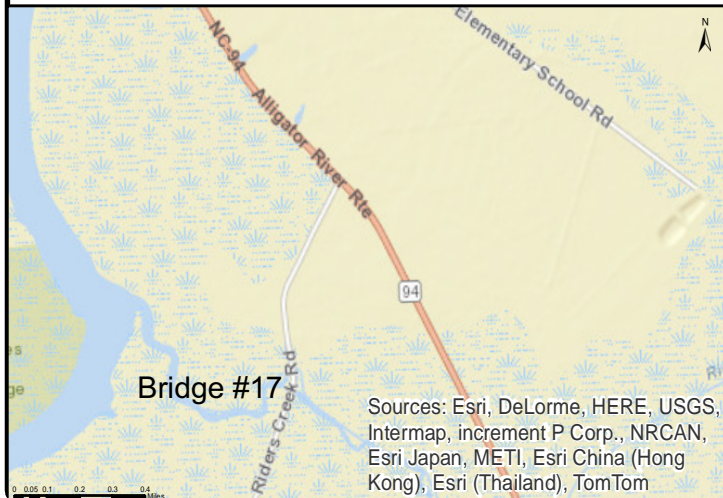
2015
Base Year No Build



SR 1105
Riders Creek Road



2040
Future Year Build



**AVERAGE ANNUAL
DAILY TRAFFIC**

LEGEND

- ### No. of Vehicles Per Day in 100s
- 1- Less than 50 vpd
- X Movement Prohibited
- $K \frac{PM}{(d, t)} \rightarrow D$
- K Design Hour Factor (%)
- PM PM Peak Period
- D Peak Hour Directional Split (%)
- Indicates Direction of D
- (d, t) Duals, TT-STs (%)

TIP: B-4648

WBS: 33814.1.2

COUNTY: Tyrrell

DIVISION: 1

DATE: 05-06-2015

PREPARED BY: Elisabeth Bray

LOCATION: SR 1105 (Riders Creek Rd)

PROJECT: Replace Bridge #17 over Riders Creek