



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J.R. "JOEY" HOPKINS  
SECRETARY

November 14, 2024

MEMORANDUM TO: Nora McCann  
Project Management Unit

FROM: Wendy Epps  
Traffic Forecasting Group

SUBJECT: Traffic Forecast for B-5531  
Cleveland County  
Construct a two-lane bridge on new alignment of NC 150

Please find attached the 2024/2050 Traffic Forecast for Project B-5531 in Cleveland County.

The forecast includes the following scenarios:

- Base Year (2024) Project No-Build Estimate
- Future Year (2050) Project No-Build/Build Forecast

**Fiscal Constraint:**

This forecast is consistent with the current State Transportation Improvement Program and Gaston-Cleveland-Lincoln MPO MTP. The STIP and MTP contain some projects in the vicinity of the B-5531 project area that may affect travel demand in the area. These include:

- R-2707C: US 74 Shelby Bypass on new location
- R-2707D: US 74 Shelby Bypass on new location.
- W-5712U: NC 150 Construct safety improvements.
- H190215: NC 150 Modernization from Shelby Bypass to SR 1427 (Grover Rd)

**Development Activity:**

There is no substantial development under construction nor is any substantial development expected within the vicinity of the project.

**Forecast Methodology:**

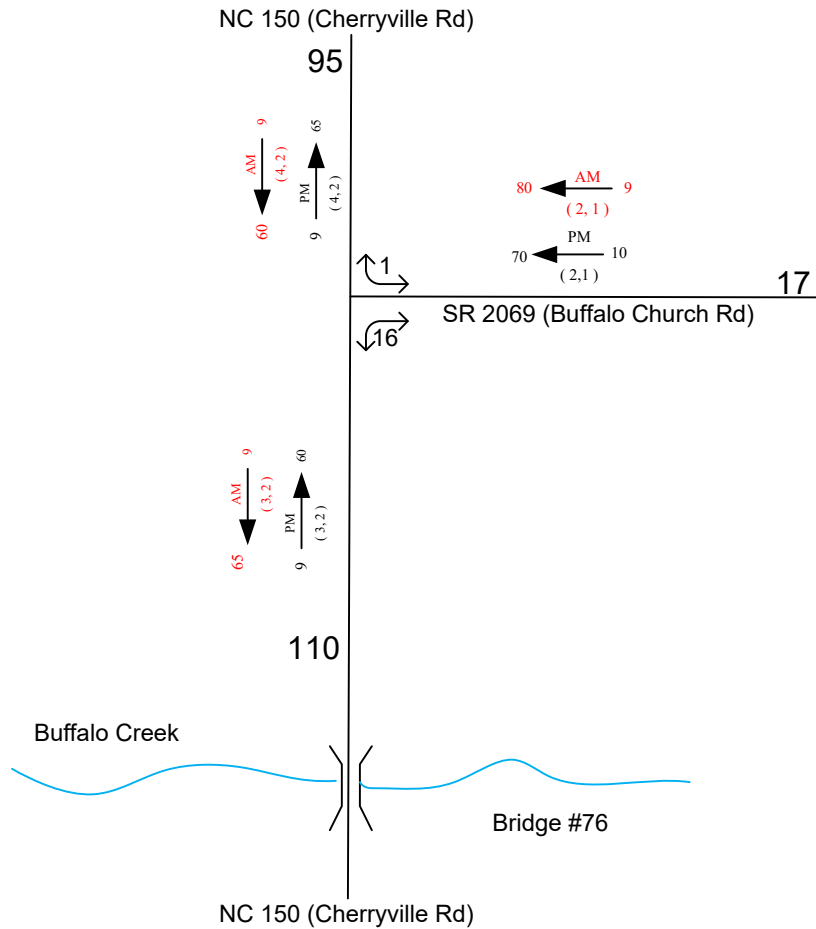
The 2024 Estimates are based upon current traffic counts and historical AADT trends.

The 2050 Forecast was developed based upon consideration of output from the Metrolina Regional Travel Demand Model (v2.0) and analysis of historic AADT trends.

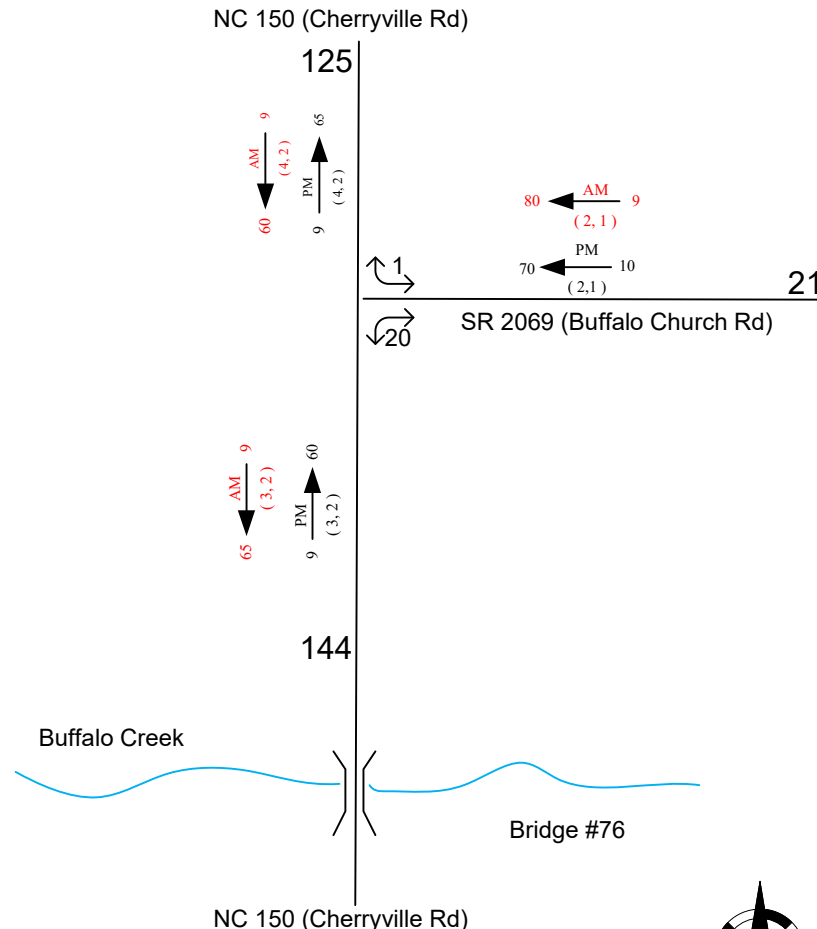
If it is determined that any of these assumptions have become inconsistent with the project and surrounding area activity, please request an updated forecast.

If we can be of any further assistance, please do not hesitate to contact me at 707-0943, email: [wepps@ncdot.gov](mailto:wepps@ncdot.gov).

2024



2050



Sheet 1 of 1

## No Build/Build

AVERAGE ANNUAL DAILY TRAFFIC

L E G E N D		TIP: B-5531	WBS: 55031.1.1
$K \xrightarrow{\text{AM/PM}} D$ (d, t)		COUNTY: Cleveland	DIVISION: 12
### No. of Vehicles Per Day (VPD) in 100s		DATE: 11-14-2024	
1- Less than 50 VPD		PREPARED BY: Wendy Epps	
X Movement Prohibited		LOCATION: NC 150 over Buffalo Creek	
(d,t) Duals, TT-STs (%)		PROJECT: Replace Bridge No.76 over Buffalo Creek	
K Design Hour Factor(%)			
AM/PM Peak Period			
D Peak Hour			
Directional Split (%)			
→ Indicates Direction of D			