



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J.R. "JOEY" HOPKINS, III  
SECRETARY

January 25, 2024

MEMORANDUM TO: Zachary Howard, EI  
NCDOT Division 3

FROM: Chris McKoy  
Traffic Forecasting Group

SUBJECT: Traffic Forecast for U-5954  
New Hanover County  
Design a roundabout at the intersection of NC 133 and N. 23<sup>rd</sup>  
St.

Please find attached the 2023/2045 Traffic Forecast for Project U-5954 in New Hanover County.

The forecast includes the following scenarios:

- Base Year (2023) Project No-Build Estimate
- Future Year (2045) Project No-Build/Build Forecast

**Fiscal Constraint:**

Within an MPO area travel demand forecasts assume the construction of projects listed within an MPO's Metropolitan Transportation Plan (MTP). This forecast is consistent with the Wilmington Urban Area Metropolitan Planning Organization 2045 MTP adopted in November of 2020. This forecast also assumes that all projects listed within the NCDOT 2020-2029 STIP will be constructed and open to traffic by 2045. This forecast assumes that a 3-lane section for NC 133 and N 23rd St. Revised 4/8/2024 at the request of the NCDOT PM, Zachary Howard.

**Development Activity:**

No substantial current development is under construction; however, substantial future development is expected within the vicinity of the project.

**Forecast Methodology:**

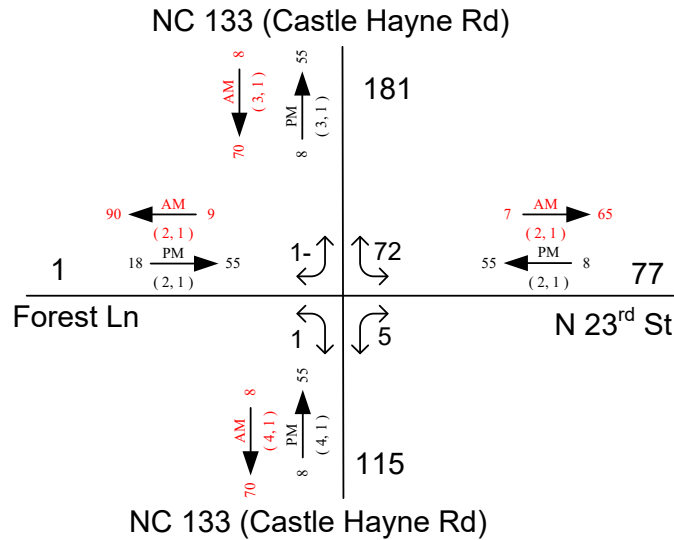
The 2023 Estimates are based upon current traffic counts and historical AADT trends.

The 2045 forecast was developed based upon consideration of output from the Wilmington MPO Travel Demand Model and current population growth projections for New Hanover County prepared by the State Demographer.

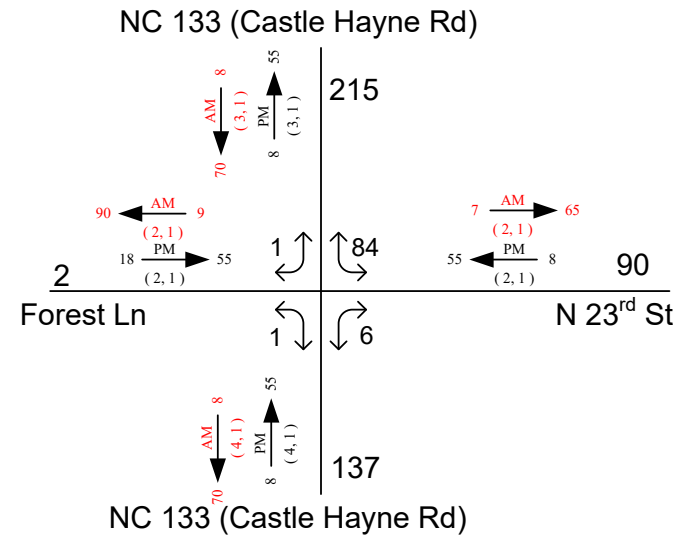
If it is determined that any of these assumptions have become inconsistent with the project and surrounding area activity, please request an updated forecast.

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

# 2023



# 2045



Sheet 1 of 1

## 2023 & 2045 No Build-Build

AVERAGE ANNUAL DAILY TRAFFIC

L E G E N D		SPOT#: U-5954	WBS: 46893.1.1
###	No. of Vehicles Per Day (VPD) in 100s	COUNTY: New Hanover	
1-	Less than 50 VPD	DIVISION: 3	
X	Movement Prohibited	DATE: 6-7-2024	
(d,t)	Duals, TT-STs (%)	PREPARED BY: Chris McKoy	
		LOCATION: NC 133 and N 23 <sup>rd</sup> St	
		PROJECT: Design Roundabout	