



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

September 13, 2023

MEMORANDUM TO: Verrol McLeary, Project Manager
Project Management Team
NCDOT-Division 13

FROM: Chris McKoy
Traffic Forecasting Group

SUBJECT: Traffic Forecast for B-4443
Buncombe County
Replace Bridges #345 and #346 on US 19/23 over SR 1389 (Old
Marshall Hwy).

Please find attached the 2023/2045 Traffic Forecast of project B-4443 in Buncombe County.

The forecast includes the following scenarios:

- Base Year (2023) Project No-Build/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 French Broad River Metropolitan Planning Organization 2045 MTP. This forecast also assumes that all projects listed within the NCDOT 2024-2033 STIP will be constructed and open to traffic by 2045.

Development Activity:

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

Forecast Methodology:

The 2023 Estimate is based upon current traffic counts validated by historical AADT trends.

The 2045 forecast was developed based upon consideration of output from the French Broad River Travel Demand Model (V2.0) and review of population projections for Buncombe County prepared by the State Demographers Office.

The use of straight-line interpolation to estimate AADT for years between 2023 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 further assistance, please do not hesitate to contact me at 707-0939, email: cdmckoy@ncdot.gov.

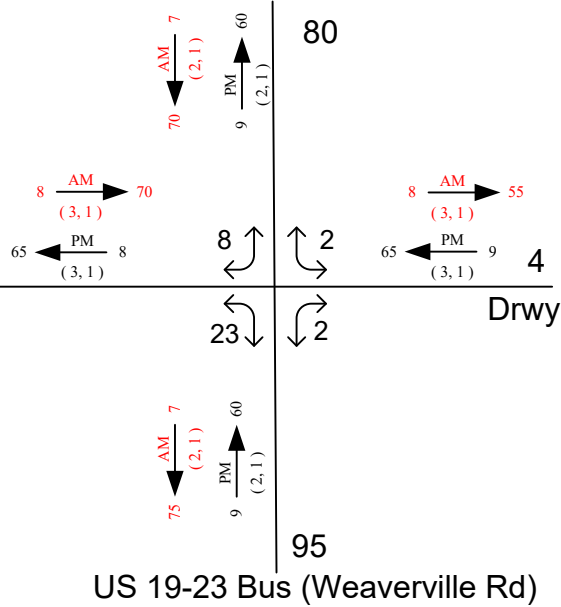
2023

US 19-23-25-70

605

US 19-23 Bus (Weaverville Rd)

31
SR 1839
(Old Marshall Hwy)



605

US 19-23-25-70



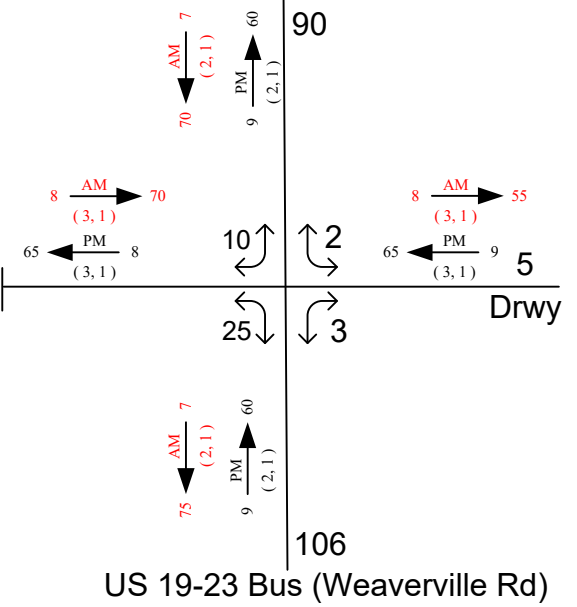
2045

I-26

753

US 19-23 Bus (Weaverville Rd)

35
SR 1839
(Old Marshall Hwy)



753

I-26

Sheet 1 of 1

2023 & 2045 No Build-Build

AVERAGE ANNUAL DAILY TRAFFIC

LEGEND

K $\frac{AM/PM}{(d, t)}$ → D

No. of Vehicles Per Day (VPD) in 100s

K Design Hour Factor(%)

1- Less than 50 VPD

PM/AM PM Peak Period
D Peak Hour

X Movement Prohibited

Directional Split (%)
→ Indicates Direction of D

(d,t) Duals, TT-STs (%)

SPOT#: B-4443

WBS: 38369.1.1

COUNTY: Buncombe

DIVISION: 13

DATE: 9-13-2023

PREPARED BY: Chris McKoy

LOCATION: I-26 over SR 1839

PROJECT: Replace bridges # 345&346