

Traffic Projection for B-4937 - WBS: 40160.1.1

Produced by Keith Dixon (NCDOT TPD) on 6/9/2026.

Introduction

This traffic projection includes 2025 / 2050 AADT estimates and class percentages. The B-4937 project assumes the replacement of Johnston County bridges #500118 and #500119 on I-95 over CSX Railroad. This traffic projection does not assume that this project will have a substantial effect on future travel demand. Current traffic is estimated with 2023 published AADT data and 2025 traffic counts (TCDS). The estimated traffic growth is based upon a review of OSBM population projections, and the Triangle Regional Model (2020/2055 Gen2v2.0, released 3/25/26). No other growth projections were available during the production of this Traffic Estimate.

This traffic projection is an update of the 6/17/2015 Traffic Forecast produced by the NCDOT Transportation Planning Branch. A reduced-form memo was used for this update to meet the project schedule.

Traffic Data Available

Historical AADT Estimates:

| NCDOT Traffic Survey Group | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2023 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| I-95 S of US 301 (LocID 0510000213) | 32,000 | 34,000 | 34,000 | 36,000 | 40,000 | 38,000 | 38,500 | 34,000 | 41,000 |

2025 Traffic Count

| Location | Raw Count | 24-Hr Expansion Factor | ATR Group | Seasonal Factor | 2025 AADT Est |
|--|-----------|------------------------|-----------|-----------------|---------------|
| I-95 South of US 301 (Exit 107) Location ID: 0510000815 (11/4/2025) | 44,650 | n/a | 5 | 1.21 | 54,250* |

* Based on information from the NCDOT Traffic Survey Group (Jamie Viera), the 2025 TCDS AADT estimates will be used as the source of the 2025 AADT publication which will be published later in 2026.

2025 Class Data

| Location | 2025 TSG Class (Duals, TTSTs) | NCDOT 2022 TSG Class Data | 2025 Class Estimate (Duals, TTSTs) |
|--|-------------------------------|---------------------------|------------------------------------|
| I-95 South of US 301 (Exit 107) Location ID: 0510000815 (11/4/2025) | (5, 23) | (8, 32) | (6, 23) |

Current Land Use

Interstate I-95 over rural, low-density residential and agricultural land uses.

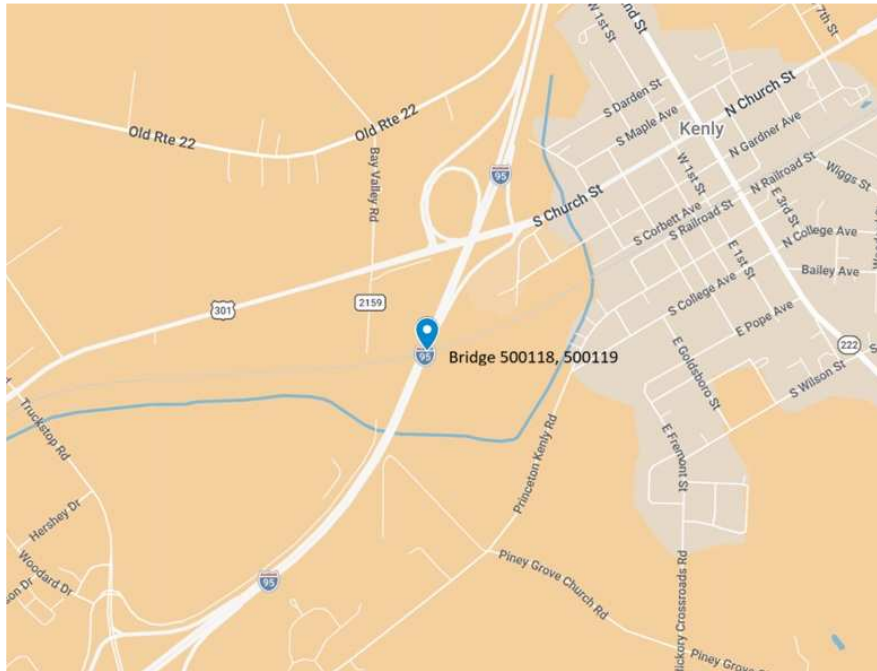
Growth Estimates Available

OSMB Population Projections

| NC County | 2020 | 2030 | 2040 | 2050 | CAGR |
|-----------|---------|---------|---------|---------|------|
| Johnston | 216,938 | 284,178 | 333,915 | 377,139 | 1.8% |

Triangle Regional Model (2020/2055 Gen2v2.0, released 3/25/26)

| Location | 2020 | 2050 | CAGR |
|---------------------------------|--------|--------|------|
| I-95 South of US 301 (Exit 107) | 32,775 | 40,691 | 0.7% |



Conclusion

| Location | 2025 AADT Est | Applied Growth | 2050 AADT Projection | 2025/2050 Class (Duals, TTSTs) |
|---|---------------|----------------|----------------------|--------------------------------|
| I-95 South of US 301 (Exit 107) NCDOT Bridges 500118, 500119 | 54,300 | 0.7% | 64,600 | (6, 23) |

If there are major changes in the development plans or land use near Johnston County bridges #500118 and #500119, then a new traffic estimate may be needed. Please contact Keith G. Dixon with the Transportation Planning Division at 919-707-0984; or kgdixon@ncdot.gov, if you have any questions or concerns.

Keith Dixon

June 9, 2026