



# NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H129685

**Mode:** Highway

**Status:** Submitted

## US-501 (Roxboro Road)

**From/Cross Street:** SR 1448 (Latta Road) / SR 1639 (Infinity Road)

**Specific Improvement Type:** 10 - Improve Intersection

**To:**

**Project Category:** Regional Impact

**Length:** 0.5

**TIP#:** U-5516

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$2,100,000

### Description:

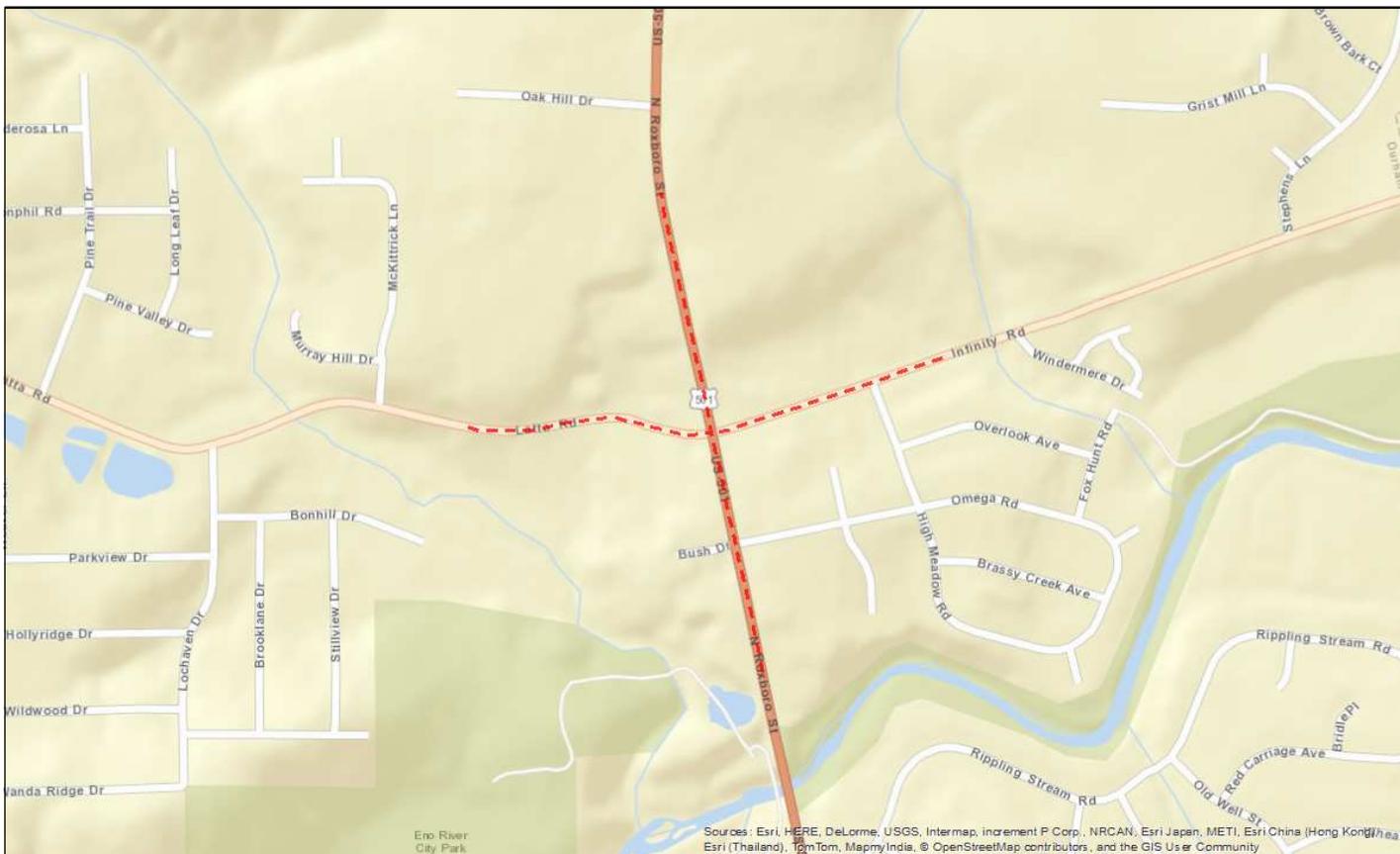
Add lanes through intersection

**Division(s):** Division 5

**County(s):** DURHAM

**MPOS(s)/RPO(s):** Durham Chapel Hill Carrboro MPO

### Project Location



**Statewide Mobility Total Score: 0**

| Quantitative Score                          | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|--------------------------------------|----------------------------|
|   | N/A                                  | N/A                        |
| <b>Totals: Weight: 0% Weighted Score: 0</b> |                                      |                            |

**Regional Impact Total Score: 63.11**

| Quantitative Score                               | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|--|--------------------------------------|----------------------------|
| Congestion (V/C) (25%) 64.97                     | Percent: 15%<br>Points: 0            | Percent: 15%<br>Points: 86 |
| Safety (10%) 66.65                               |                                      |                            |
| [Travel Time] Benefit/Cost (25%) 100.00          |                                      |                            |
| Accessibility / Connectivity (10%) 23.01         |                                      |                            |
| <b>Totals: Weight: 70% Weighted Score: 50.21</b> |                                      |                            |

**Division Needs Total Score: 39.66**

| Quantitative Score                               | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|--|--------------------------------------|----------------------------|
| [Travel Time] Benefit/Cost (20%) 100.00          | Percent: 25%<br>Points: 0            | Percent: 25%<br>Points: 0  |
| Congestion (V/C) (20%) 64.97                     |                                      |                            |
| Safety (10%) 66.65                               |                                      |                            |
| <b>Totals: Weight: 50% Weighted Score: 39.66</b> |                                      |                            |

**Project Data \*****Existing Conditions**

|   |                          |
|---|--------------------------|
| Existing Cross-Section:                     |                          |
| Speed Limit:                                | 45                       |
| Length (miles);                             | 0.5                      |
| Facility Type:                              | Arterial                 |
| Access Control:                             | None                     |
| Functional Classification:                  | Other Principal Arterial |
| Terrain Type:                               | Rolling                  |
| Lane Width:                                 | 11                       |
| Paved Shoulder Width:                       | 0                        |
| Roadway has Curb & Gutter?                  | Yes                      |
| Volume (AADT):                              | 39025.66                 |
| Capacity:                                   | 47442.56                 |
| Volume/Capacity Ratio:                      | 0.82                     |
| % Autos:                                    | 94%                      |
| % Trucks:                                   | 6%                       |
| Truck Volume:                               | 2213.28                  |
| Crash Density:                              | 0                        |
| Crash Severity:                             | 0                        |
| Critical Crash Rate:                        | 0                        |
| Crash Frequency:                            | 100                      |
| Severity Index:                             | 33.3                     |
| County Tier Designation:                    | 3                        |
| Non-Interstate STRAHNET Route?              | No                       |
| Average Commuting Time:                     | 25                       |
| Existing Median Type (for Cost Estimation): | TWLTL                    |
| Pavement Condition Rating:                  | 96                       |
| Actual Congested Speed:                     | 35.73                    |
| Travel Time Index:                          | 1.26                     |

**Project Benefits**

|  |                          |
|--|--------------------------|
| Project Cross-Section:                                 |                          |
| Speed Limit:   | 45                       |
| Length (miles):  | 0.5                      |
| Facility Type:   | Arterial                 |
| Access Control:  | None                     |
| Functional Classification:                             | Other Principal Arterial |
| TerrainType:   | Rolling                  |
| DOT Design Lane Width:                                 | 12                       |
| DOT Design Paved Shoulder Width:                       | 4                        |
| Travel Time Savings for 30 Years (Total):              | 19708000                 |
| Travel Time Savings for 30 Years (Autos):              | 18590293.29              |
| Travel Time Savings for 30 Years (Trucks):             | 1117706.71               |
| Long-Term Employment:                                  |                          |
| % Change in Economy:                                   |                          |
| Provides Direct Connection to Transportation Terminal? | No                       |
| Does project upgrade how the roadway functions?        | No                       |
| In CTP or LRTP?  | No                       |
| CTP/LRTP Name:   |                          |
| CTP/LRTP Completion Year:                              |                          |
| Submitted by:  | Division 5               |

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

**Project Ownership**

**Division**

| Division                     | Percent | Regional Impact | Division Needs |
|------------------------------|---------|-----------------|----------------|
| Division 5                   | 100%    | 0               | 0              |
|                              | 0%      | 0               | 0              |
|                              | 0%      | 0               | 0              |
| <b>TOTAL Division Points</b> |         | <b>0</b>        | <b>0</b>       |

**MPO/RPO**

| MPO/RPO                         | Percent | Regional Impact | Division Needs |
|---------------------------------|---------|-----------------|----------------|
| Durham Chapel Hill Carrboro MPO | 100%    | 86              | 0              |
|                                 | 0%      | 0               | 0              |
|                                 | 0%      | 0               | 0              |
| <b>TOTAL MPO/RPO Points</b>     |         | <b>86</b>       | <b>0</b>       |

**Project Cost and Source**

|                        |                    |                |
|------------------------|--------------------|----------------|
| Construction Cost:     | \$4,100,000        | TIP Unit       |
| Right-of-Way Cost:     | \$0                | TIP Unit       |
| Utilities Cost:        | \$0                | TIP Unit       |
| Total Project Cost:    | \$4,100,000        |                |
| Other Funding:         | \$2,000,000        | City of Durham |
| <b>Cost to NCDOT :</b> | <b>\$2,100,000</b> |                |