



# NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H090513

**Mode:** Highway

**Status:** Submitted

## US-1

**From/Cross Street:** South of SR 1108

**Specific Improvement Type:** 1 - Widen Existing Roadway

**To:** US 74 (Future I-74)

**Project Category:** Regional Impact

**Length:** 0.86

**TIP#:** U-5010

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$10,339,000

### Description:

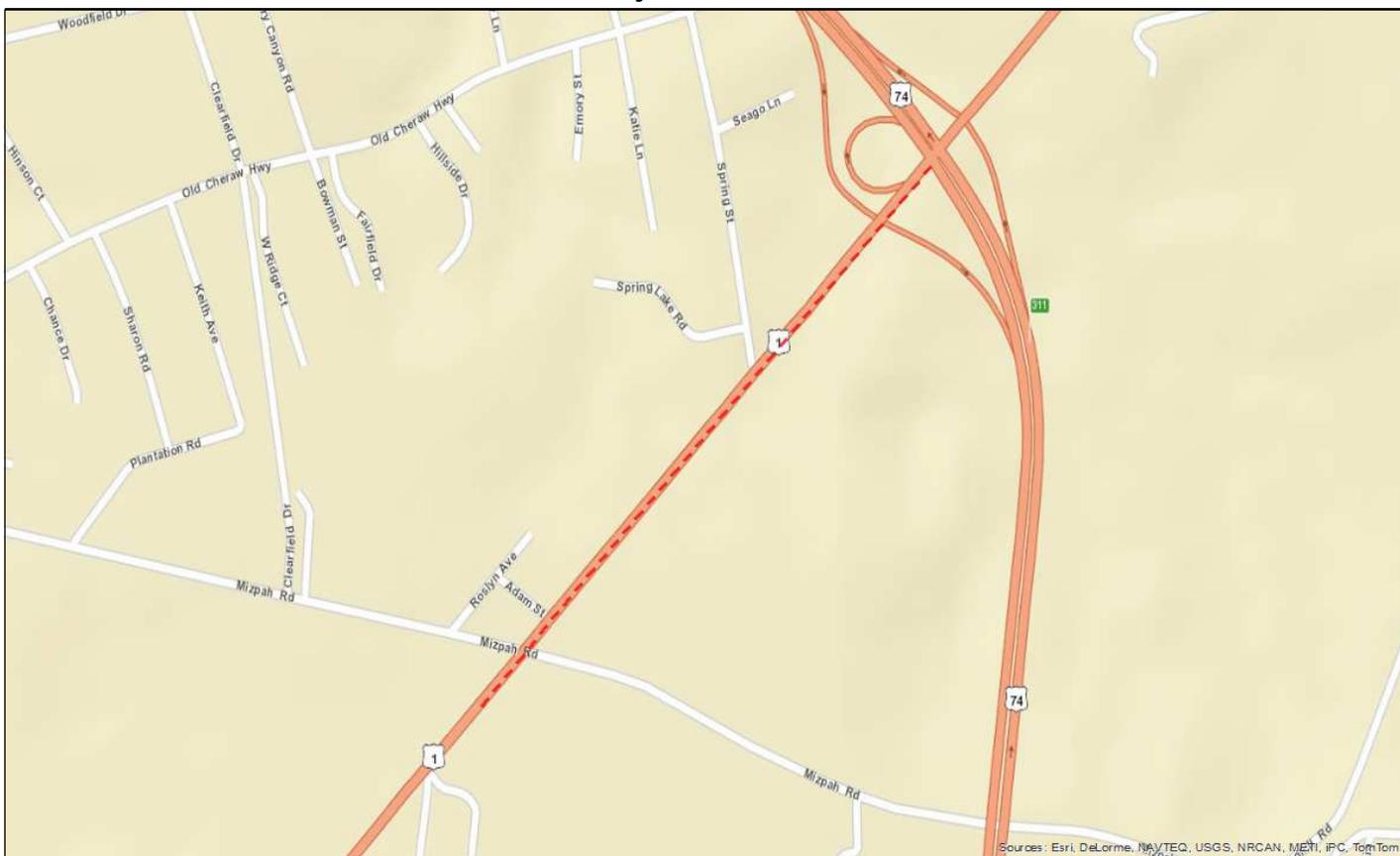
South of SR 1108 to US 74 (Future I-74). Widen to Multilanes.

**Division(s):** Division 8

**County(s):** RICHMOND

**MPOS(s)/RPO(s):** Lumber River RPO

### 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: 0**

| Quantitative Score                              | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|-------------------------------------------------|--------------------------------------|----------------------------|
| Congestion (V/C) (25%) 23.78                    | Percent: 15%<br>Points:              | Percent: 15%<br>Points:    |
| Accessibility / Connectivity (10%) 5.66         |                                      |                            |
| Safety (10%) 75.76                              |                                      |                            |
| [Travel Time] Benefit/Cost (25%) 0.05           |                                      |                            |
| <b>Totals: Weight: 70% Weighted Score: 14.1</b> |                                      |                            |

**Division Needs Total Score: 0**

| Quantitative Score                               | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|--------------------------------------------------|--------------------------------------|----------------------------|
| Congestion (V/C) (20%) 23.78                     | Percent: 25%<br>Points:              | Percent: 25%<br>Points:    |
| Safety (10%) 75.76                               |                                      |                            |
| [Travel Time] Benefit/Cost (20%) 0.05            |                                      |                            |
| <b>Totals: Weight: 50% Weighted Score: 12.34</b> |                                      |                            |

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

|                                             |                          |
|---------------------------------------------|--------------------------|
| Existing Cross-Section:                     |                          |
| Speed Limit:                                | 55                       |
| Length (miles):                             | 0.86                     |
| Facility Type:                              | Arterial                 |
| Access Control:                             | None                     |
| Functional Classification:                  | Other Principal Arterial |
| Terrain Type:                               | Rolling                  |
| Lane Width:                                 | 12                       |
| Paved Shoulder Width:                       | 0                        |
| Roadway has Curb & Gutter?                  | No                       |
| Volume (AADT):                              | 5656.92                  |
| Capacity:                                   | 15774.48                 |
| Volume/Capacity Ratio:                      | 0.36                     |
| % Autos:                                    | 77%                      |
| % Trucks:                                   | 23%                      |
| Truck Volume:                               | 1277.01                  |
| Crash Density:                              | 80.41                    |
| Crash Severity:                             | 85.9                     |
| Critical Crash Rate:                        | 61                       |
| Crash Frequency:                            | 0                        |
| Severity Index:                             | 0                        |
| County Tier Designation:                    | 1                        |
| Non-Interstate STRAHNET Route?              | No                       |
| Average Commuting Time:                     | 16                       |
| Existing Median Type (for Cost Estimation): | Undivided                |
| Pavement Condition Rating:                  | 100                      |
| Actual Congested Speed:                     | 53.29                    |
| Travel Time Index:                          | 1.03                     |

**Project Benefits**

|                                                        |                                                                 |
|--------------------------------------------------------|-----------------------------------------------------------------|
| Project Cross-Section:                                 | 4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders |
| Speed Limit:                                           | 55                                                              |
| Length (miles):                                        | 0.86                                                            |
| Facility Type:                                         | Arterial                                                        |
| Access Control:                                        | Partial                                                         |
| Functional Classification:                             | Other Principal Arterial                                        |
| Terrain Type:                                          | Rolling                                                         |
| DOT Design Lane Width:                                 | 12                                                              |
| DOT Design Paved Shoulder Width:                       | 2                                                               |
| Travel Time Savings for 30 Years (Total):              | 23108.61                                                        |
| Travel Time Savings for 30 Years (Autos):              | 17892.01                                                        |
| Travel Time Savings for 30 Years (Trucks):             | 5216.6                                                          |
| 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 8                                                      |

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

**Project Ownership****Division**

| <b>Division</b>              | <b>Percent</b> | <b>Regional Impact</b> | <b>Division Needs</b> |
|------------------------------|----------------|------------------------|-----------------------|
| Division 8                   | 100%           | 0                      | 0                     |
|                              | 0%             | 0                      | 0                     |
|                              | 0%             | 0                      | 0                     |
| <b>TOTAL Division Points</b> |                | <b>0</b>               | <b>0</b>              |

**MPO/RPO**

| <b>MPO/RPO</b>              | <b>Percent</b> | <b>Regional Impact</b> | <b>Division Needs</b> |
|-----------------------------|----------------|------------------------|-----------------------|
| Lumber River RPO            | 100%           | 0                      | 0                     |
|                             | 0%             | 0                      | 0                     |
|                             | 0%             | 0                      | 0                     |
| <b>TOTAL MPO/RPO Points</b> |                | <b>0</b>               | <b>0</b>              |

**Project Cost and Source**

|                        |                     |                      |
|------------------------|---------------------|----------------------|
| Construction Cost:     | \$4,446,000         | TIP Unit             |
| Right-of-Way Cost:     | \$5,262,000         | Cost Estimation Tool |
| Utilities Cost:        | \$631,000           | Cost Estimation Tool |
| Total Project Cost:    | \$10,339,000        |                      |
| Other Funding:         | \$0                 | None                 |
| <b>Cost to NCDOT :</b> | <b>\$10,339,000</b> |                      |