



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090179-AB

Mode: Highway

Status: Submitted

NC-73

From/Cross Street: NC 115

Specific Improvement Type: 1 - Widen Existing Roadway

To: SR 2693 (Davidson-Concord Road)

Project Category: Regional Impact

Length: 2.67

TIP#: R-2632AB

Fully Funded in Draft STIP? No

Cost to NCDOT: \$19,457,000

Description:

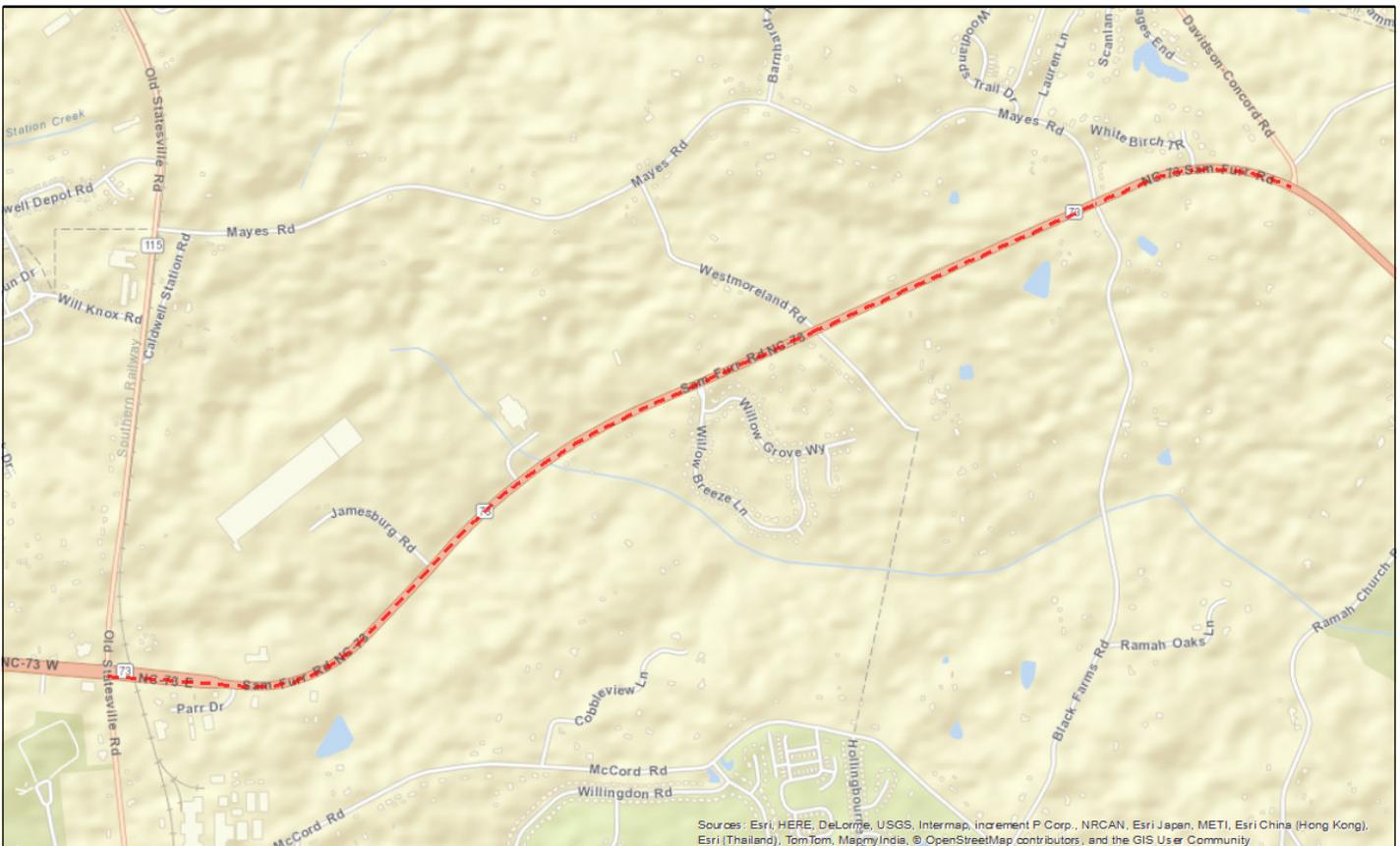
Widen to Multi-Lanes

Division(s): Division 10

County(s): MECKLENBURG

MPOS(s)/RPO(s): Charlotte Regional Transportation Planning Organization

Project Location



Statewide Mobility Total Score: 0

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

Regional Impact Total Score: 61.72

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|--|--------------------------------------|-----------------------------|
| Congestion (V/C) (25%) 83.40 | Percent: 15% Points: 100 | Percent: 15% Points: 100 |
| Safety (10%) 58.53 | | |
| [Travel Time] Benefit/Cost (25%) 12.67 | | |
| Accessibility / Connectivity (10%) 18.54 | | |
| Totals: Weight: 70% Weighted Score: 31.72 | | |

Division Needs Total Score: 25.07

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|--|--------------------------------------|----------------------------|
| Congestion (V/C) (20%) 83.40 | Percent: 25% Points: 0 | Percent: 25% Points: 0 |
| Safety (10%) 58.53 | | |
| [Travel Time] Benefit/Cost (20%) 12.67 | | |
| Totals: Weight: 50% Weighted Score: 25.07 | | |

Project Data ***Existing Conditions**

| | |
|---|--------------------------|
| Existing Cross-Section: | |
| Speed Limit: | 49 |
| Length (miles): | 2.67 |
| 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): | 19616.39 |
| Capacity: | 15579.03 |
| Volume/Capacity Ratio: | 1.26 |
| % Autos: | 92% |
| % Trucks: | 8% |
| Truck Volume: | 1617.26 |
| Crash Density: | 74.9 |
| Crash Severity: | 65.51 |
| Critical Crash Rate: | 35.19 |
| Crash Frequency: | 0 |
| Severity Index: | 0 |
| County Tier Designation: | 3 |
| Non-Interstate STRAHNET Route? | No |
| Average Commuting Time: | 26 |
| Existing Median Type (for Cost Estimation): | Undivided |
| Pavement Condition Rating: | 82 |
| Actual Congested Speed: | 43 |
| Travel Time Index: | 1.14 |

Project Benefits

| | |
|--|---|
| Project Cross-Section: | 4C - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, and Sidewalks |
| Speed Limit: | 45 |
| Length (miles): | 2.67 |
| Facility Type: | Arterial |
| Access Control: | Partial |
| Functional Classification: | Other Principal Arterial |
| Terrain Type: | Rolling |
| DOT Design Lane Width: | 12 |
| DOT Design Paved Shoulder Width: | 4 |
| Travel Time Savings for 30 Years (Total): | 10836659.74 |
| Travel Time Savings for 30 Years (Autos): | 9943240.23 |
| Travel Time Savings for 30 Years (Trucks): | 893419.51 |
| 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 10 |

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

Project Ownership

Division

| Division | Percent | Regional Impact | Division Needs |
|------------------------------|---------|-----------------|----------------|
| Division 10 | 100% | 100 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL Division Points | | 100 | 0 |

MPO/RPO

| MPO/RPO | Percent | Regional Impact | Division Needs |
|---|---------|-----------------|----------------|
| Charlotte Regional Transportation Planning Organization | 100% | 100 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL MPO/RPO Points | | 100 | 0 |

Project Cost and Source

| | | |
|------------------------|---------------------|----------------------|
| Construction Cost: | \$18,240,000 | TIP Unit |
| Right-of-Way Cost: | \$1,087,000 | Cost Estimation Tool |
| Utilities Cost: | \$130,000 | Cost Estimation Tool |
| Total Project Cost: | \$19,457,000 | |
| Other Funding: | \$0 | None |
| Cost to NCDOT : | \$19,457,000 | |