



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H111042

Mode: Highway

Status: Submitted

(New Route)

From/Cross Street: NC 56 / West Lyon Station Road

Specific Improvement Type: 5 - Construct Roadway on New Location

To: Gate 2 Road

Project Category: Division Needs

Length: 2.3

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$11,743,000

Description:

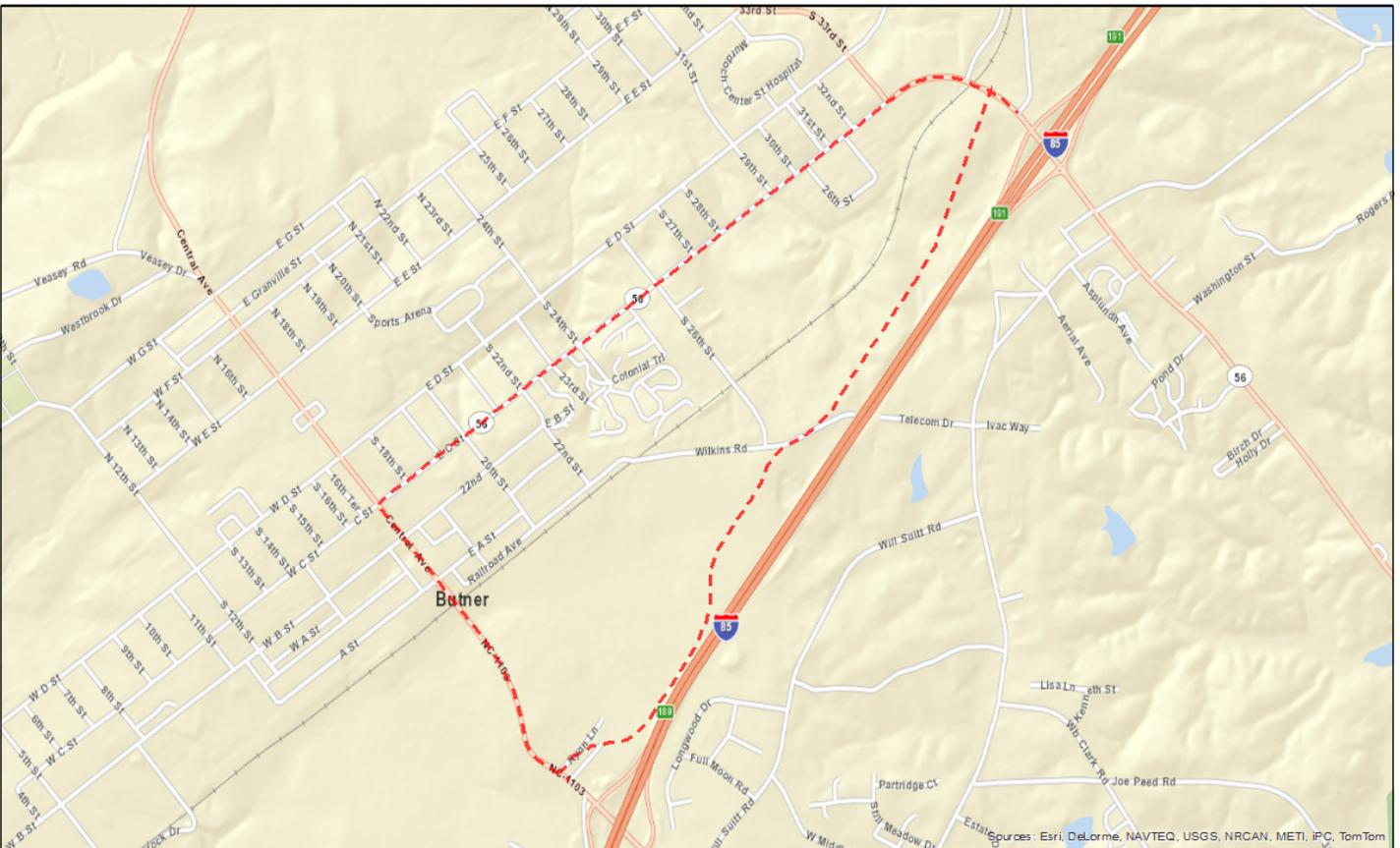
Construct Service Road Parallel to I-85 to Serve Commercial and Residential Developments.

Division(s): Division 5

County(s): GRANVILLE

MPOS(s)/RPO(s): Kerr-Tar RPO

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: 0

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|---|-----------------------------------|
| | Percent: 15% Points: | Percent: 15% Points: |
| Totals: Weight: 0% Weighted Score: 0 | | |

Division Needs Total Score: 0

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|--|---|-----------------------------------|
| Congestion (V/C) (20%) 37.50 Safety (10%) 38.58 [Travel Time] Benefit/Cost (20%) 2.93 | Percent: 25% Points: | Percent: 25% Points: |
| Totals: Weight: 50% Weighted Score: 11.94 | | |

Project Data ***Existing Conditions**

| | |
|---|----------------|
| Existing Cross-Section: | |
| Speed Limit: | 38 |
| Length (miles): | 2.8 |
| Facility Type: | Arterial |
| Access Control: | None |
| Functional Classification: | Minor Arterial |
| Terrain Type: | Rolling |
| Lane Width: | 12 |
| Paved Shoulder Width: | 0 |
| Roadway has Curb & Gutter? | No |
| Volume (AADT): | 8933.21 |
| Capacity: | 15800.16 |
| Volume/Capacity Ratio: | 0.57 |
| % Autos: | 96% |
| % Trucks: | 4% |
| Truck Volume: | 398.73 |
| Crash Density: | 41.53 |
| Crash Severity: | 41.26 |
| Critical Crash Rate: | 32.97 |
| Crash Frequency: | 0 |
| Severity Index: | 0 |
| County Tier Designation: | 2 |
| Non-Interstate STRAHNET Route? | No |
| Average Commuting Time: | 23 |
| Existing Median Type (for Cost Estimation): | Undivided |
| Pavement Condition Rating: | 86 |
| Actual Congested Speed: | 22.35 |
| Travel Time Index: | 1.19 |

Project Benefits

| | |
|--|---|
| Project Cross-Section: | 2E - 2 Lane Undivided with Curb & Gutter, Bike Lanes, and Sidewalks |
| Speed Limit: | 35 |
| Length (miles): | 2.3 |
| Facility Type: | Arterial |
| Access Control: | None |
| Functional Classification: | Major Collector |
| Terrain Type: | Rolling |
| DOT Design Lane Width: | 12 |
| DOT Design Paved Shoulder Width: | 4 |
| Travel Time Savings for 30 Years (Total): | 1533144.52 |
| Travel Time Savings for 30 Years (Autos): | 1464712.85 |
| Travel Time Savings for 30 Years (Trucks): | 68431.67 |
| 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 On!ine tool and associated databases.

Project Ownership

Division

| Division | Percent | Regional Impact | Division Needs |
|------------------------------|----------------|------------------------|-----------------------|
| Division 5 | 100% | 0 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL Division Points | | 0 | 0 |

MPO/RPO

| MPO/RPO | Percent | Regional Impact | Division Needs |
|-----------------------------|----------------|------------------------|-----------------------|
| Kerr-Tar RPO | 100% | 0 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL MPO/RPO Points | | 0 | 0 |

Project Cost and Source

| | | |
|------------------------|---------------------|----------------------|
| Construction Cost: | \$11,514,000 | TIP Unit |
| Right-of-Way Cost: | \$204,000 | Cost Estimation Tool |
| Utilities Cost: | \$25,000 | Cost Estimation Tool |
| Total Project Cost: | \$11,743,000 | |
| Other Funding: | \$0 | None |
| Cost to NCDOT : | \$11,743,000 | |