



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090112

Mode: Highway

Status: Submitted

US-21, NC-115

From/Cross Street: Cedar Avenue in Troutman

Specific Improvement Type: 1 - Widen Existing Roadway

To: SR 1336 in Barium Springs

Project Category: Regional Impact

Length: 1.65

TIP#: R-2522

Fully Funded in Draft STIP? No

Cost to NCDOT: \$15,599,000

Description:

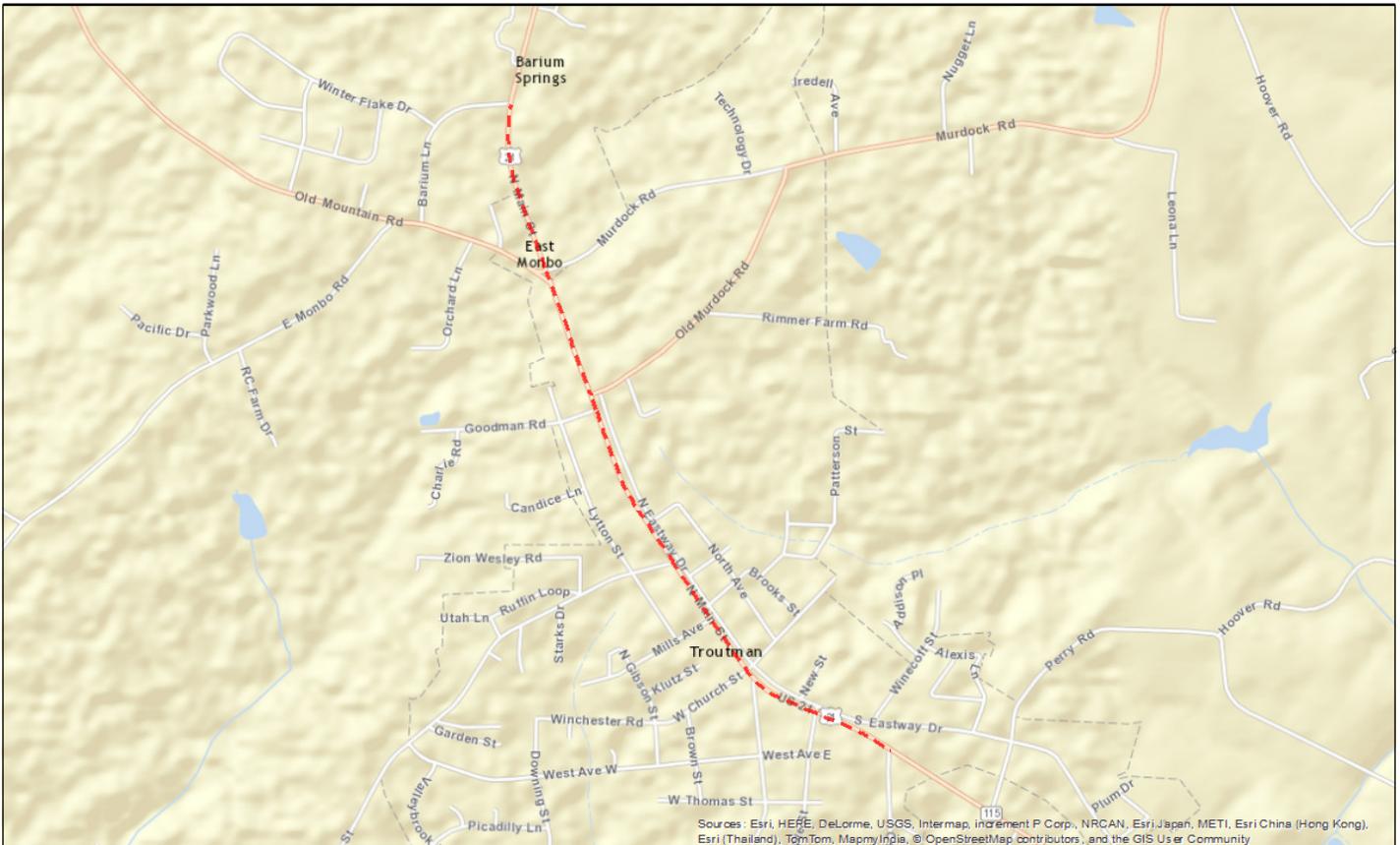
Cedar Lane Avenue to SR 1336 in Barium Springs. Widen to a Multi-Lane Urban Facility.

Division(s): Division 12

County(s): IREDELL

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: 55.64

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (25%) 3.50	Percent: 15% Points: 100	Percent: 15% Points: 100
Accessibility / Connectivity (10%) 10.56		
Congestion (V/C) (25%) 57.39		
Safety (10%) 93.65		
Totals: Weight: 70% Weighted Score: 25.64		

Division Needs Total Score: 46.54

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 57.39	Percent: 25% Points: 100	Percent: 25% Points: 0
Safety (10%) 93.65		
[Travel Time] Benefit/Cost (20%) 3.50		
Totals: Weight: 50% Weighted Score: 21.54		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	35
Length (miles):	1.65
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width:	11
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	No
Volume (AADT):	13671.93
Capacity:	15800.19
Volume/Capacity Ratio:	0.87
% Autos:	95%
% Trucks:	5%
Truck Volume:	699.48
Crash Density:	99.05
Crash Severity:	85.96
Critical Crash Rate:	95.99
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	23
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	98
Actual Congested Speed:	36.15
Travel Time Index:	0.96

Project Benefits

Project Cross-Section:	4C - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, and Sidewalks
Speed Limit:	35
Length (miles):	1.65
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	2431191.95
Travel Time Savings for 30 Years (Autos):	2306808.77
Travel Time Savings for 30 Years (Trucks):	124383.18
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 12

* 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 12	100%	100	100
	0%	0	0
	0%	0	0
TOTAL Division Points		100	100

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:	\$7,638,000	TIP Unit
Right-of-Way Cost:	\$7,108,000	Cost Estimation Tool
Utilities Cost:	\$853,000	Cost Estimation Tool
Total Project Cost:	\$15,599,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$15,599,000	