



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H111016

Mode: Highway

Status: Submitted

US-421 TRUCK , SR-1107

From/Cross Street: NC 105

Specific Improvement Type: 1 - Widen Existing Roadway

To: US 421/321

Project Category: Regional Impact

Length: 1.9

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$19,863,000

Description:

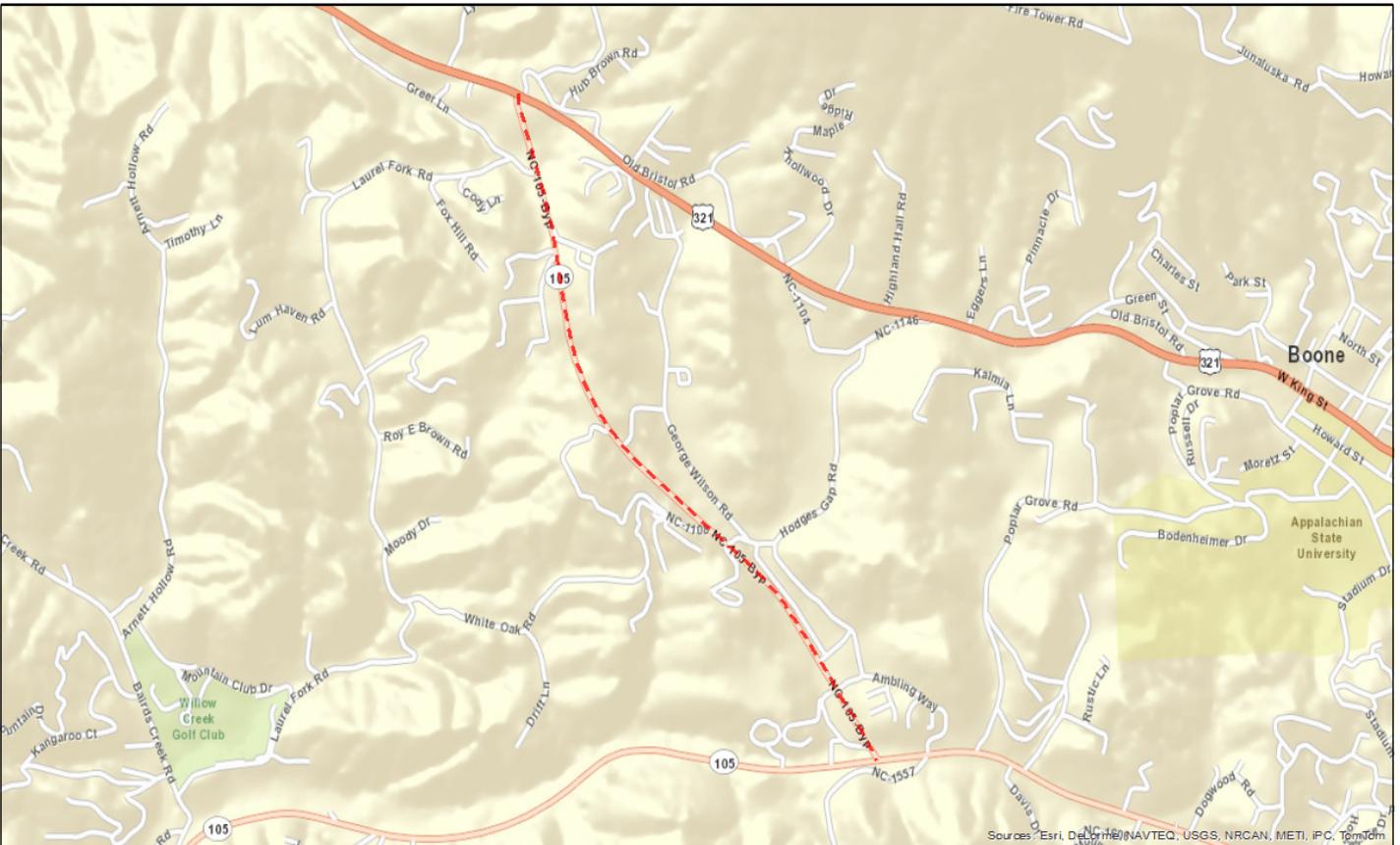
Widen to Multi-Lanes with Bike Lanes. (4 Lanes W/Median and Bike Lanes)

Division(s): Division 11

County(s): WATAUGA

MPOS(s)/RPO(s): High Country 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
Congestion (V/C) (25%) 45.96	Percent: 15% Points:	Percent: 15% Points:
Safety (10%) 67.15		
[Travel Time] Benefit/Cost (25%) 0.00		
Accessibility / Connectivity (10%) 3.65		
Totals: Weight: 70% Weighted Score: 18.57		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 45.96	Percent: 25% Points:	Percent: 25% Points:
Safety (10%) 67.15		
[Travel Time] Benefit/Cost (20%) 0.00		
Totals: Weight: 50% Weighted Score: 15.91		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles);	1.9
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Local
Terrain Type:	Mountainous
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	10936.15
Capacity:	15779.04
Volume/Capacity Ratio:	0.69
% Autos:	100%
% Trucks:	0%
Truck Volume:	0
Crash Density:	99.84
Crash Severity:	59.42
Critical Crash Rate:	42.2
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	13
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	44
Actual Congested Speed:	0
Travel Time Index:	0

Project Benefits

Project Cross-Section:	4D - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, Bike Lanes, and Sidewalks
Speed Limit:	45
Length (miles):	1.9
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Local
Terrain Type:	Mountainous
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	-682709.36
Travel Time Savings for 30 Years (Autos):	-682709.36
Travel Time Savings for 30 Years (Trucks):	0
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 11

* 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 11	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
High Country RPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$14,250,000	TIP Unit
Right-of-Way Cost:	\$5,012,000	Cost Estimation Tool
Utilities Cost:	\$601,000	Cost Estimation Tool
Total Project Cost:	\$19,863,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$19,863,000	