



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090164-C

Mode: Highway

Status: Submitted

US-221

From/Cross Street: SR 1571 (English Road) in Mcdowell County

Specific Improvement Type: 1 - Widen Existing Roadway

To: NC 194 in Avery County

Project Category: Statewide Mobility

Length: 6.03

TIP#: R-2596C

Fully Funded in Draft STIP? No

Cost to NCDOT: \$46,800,000

Description:

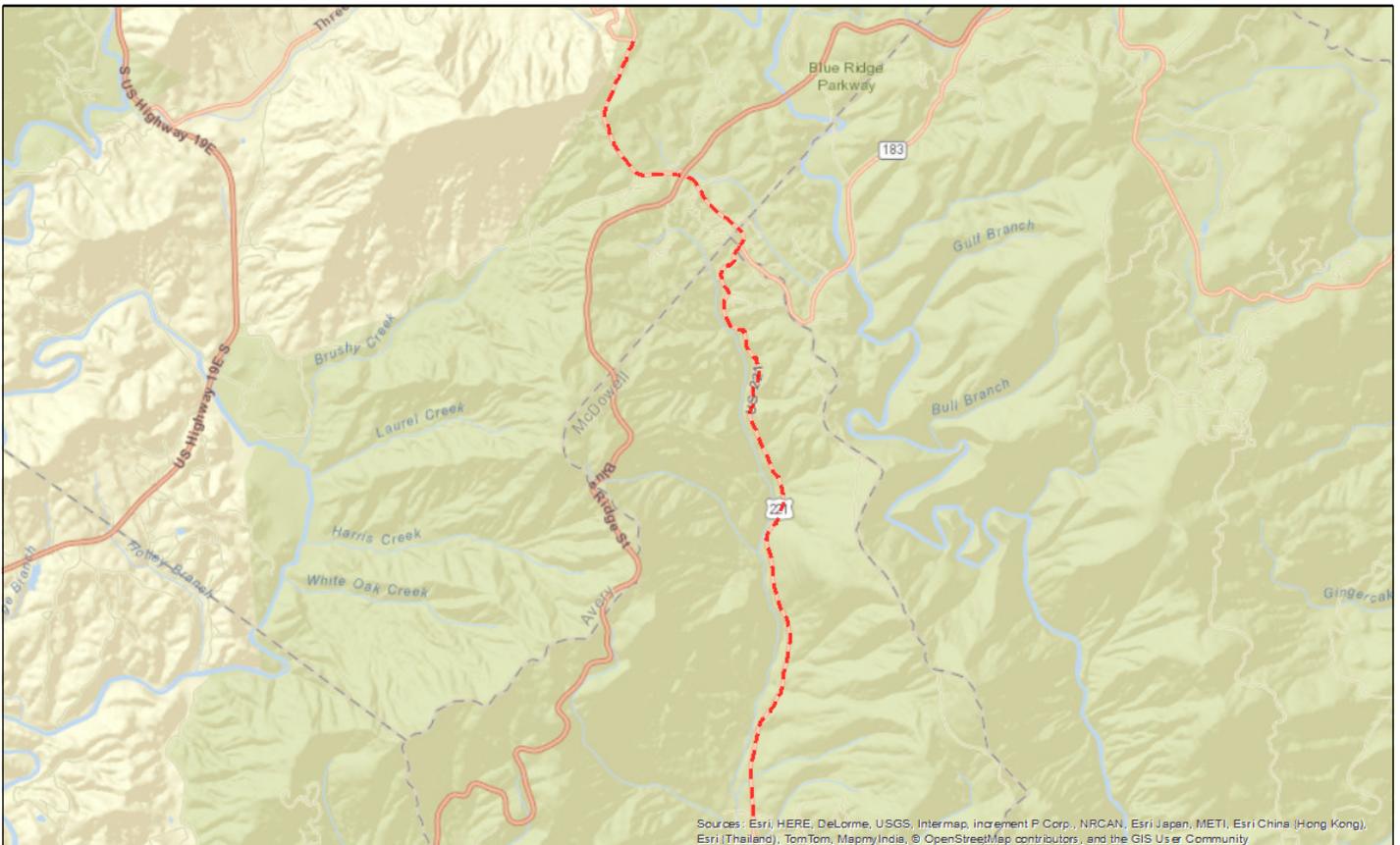
Widen to Multi-Lanes

Division(s): Division 13, Division 11

County(s): MCDOWELL, AVERY, BURKE

MPOS(s)/RPO(s): Isothermal RPO, High Country RPO, Unifour RPO

Project Location



Statewide Mobility Total Score: 6.76

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 10.66	N/A	N/A
Economic Competitiveness (10%) 0.00		
Multimodal + [Freight & Military] (20%) 1.24		
[Travel Time] Benefit/Cost (30%) 0.00		
Safety (10%) 33.12		
Totals: Weight: 100% Weighted Score: 6.76		

Regional Impact Total Score: 17.93

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 10.66	Percent: 15% Points: 0	Percent: 15% Points: 68
Safety (10%) 33.12		
[Travel Time] Benefit/Cost (25%) 0.00		
Accessibility / Connectivity (10%) 17.49		
Totals: Weight: 70% Weighted Score: 7.73		

Division Needs Total Score: 5.44

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (10%) 33.12	Percent: 25% Points: 0	Percent: 25% Points: 0
[Travel Time] Benefit/Cost (20%) 0.00		
Congestion (V/C) (20%) 10.66		
Totals: Weight: 50% Weighted Score: 5.44		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	51
Length (miles):	6.03
Facility Type:	Two Lane Highway
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Mountainous
Lane Width:	11
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	No
Volume (AADT):	2496.12
Capacity:	15503.04
Volume/Capacity Ratio:	0.16
% Autos:	90%
% Trucks:	10%
Truck Volume:	248.49
Crash Density:	39.55
Crash Severity:	20.42
Critical Crash Rate:	39.4
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	1
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	25
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	87
Actual Congested Speed:	45.16
Travel Time Index:	1.13

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	51
Length (miles):	6.03
Facility Type:	Multi-Lane Highway
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Mountainous
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	0
Travel Time Savings for 30 Years (Total):	0
Travel Time Savings for 30 Years (Autos):	0
Travel Time Savings for 30 Years (Trucks):	0
Long-Term Employment:	0
% Change in Economy:	0
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
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 13	70%	0	0
Division 11	30%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Isothermal RPO	68%	68	0
High Country RPO	30%	0	0
Unifour RPO	2%	0	0
TOTAL MPO/RPO Points		68	0

Project Cost and Source

Construction Cost:	\$34,000,000	TIP Unit
Right-of-Way Cost:	\$10,800,000	TIP Unit
Utilities Cost:	\$2,000,000	TIP Unit
Total Project Cost:	\$46,800,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$46,800,000	