



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090266

Mode: Highway

Status: Submitted

US-74

From/Cross Street: Mooresboro

Specific Improvement Type: 2 - Upgrade Arterial to Freeway/Expressway

To: Proposed Shelby Bypass

Project Category: Statewide Mobility

Length: 2.58

TIP#: R-4045

Fully Funded in Draft STIP? No

Cost to NCDOT: \$14,300,000

Description:

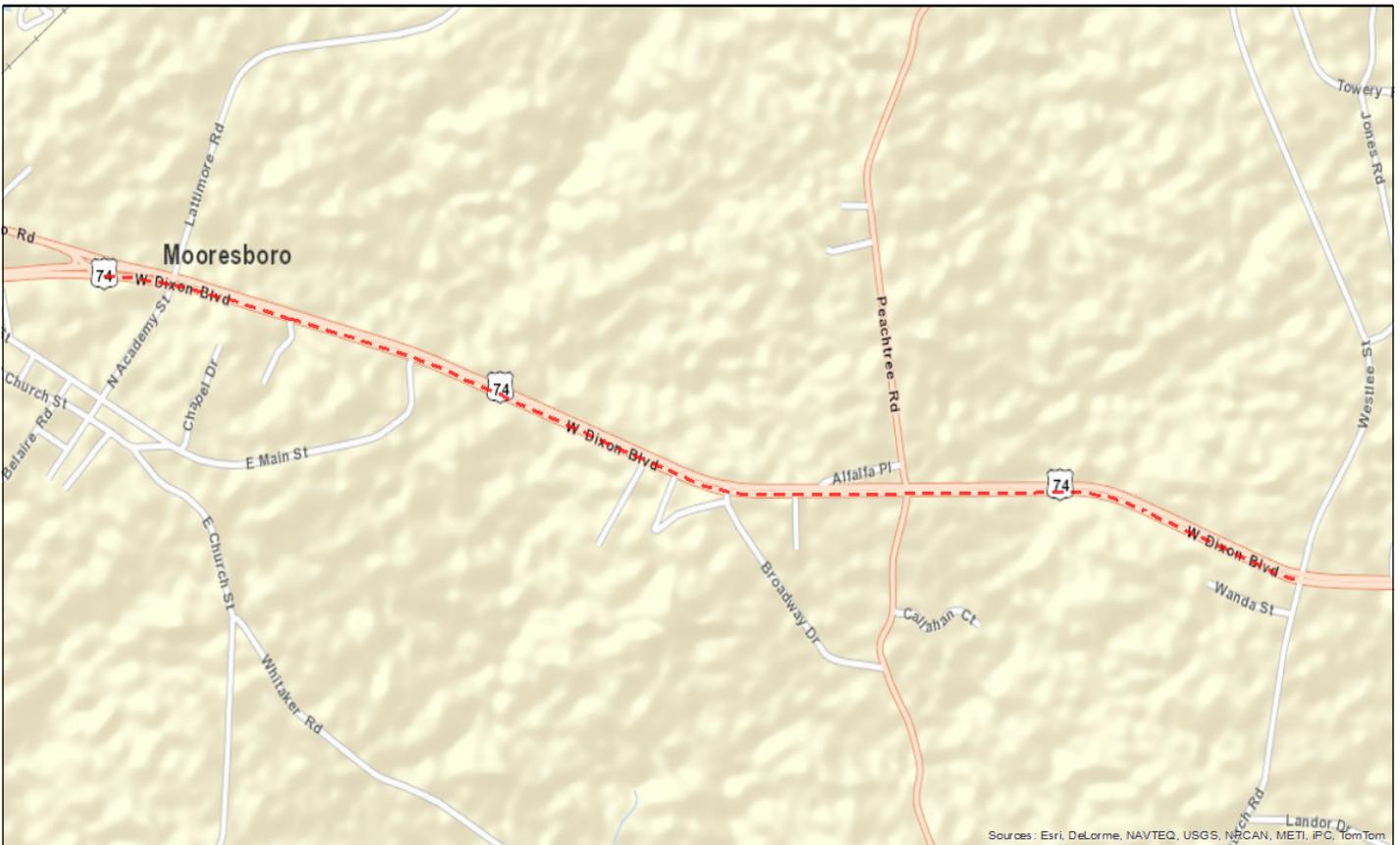
Upgrade Roadway to Freeway.

Division(s): Division 12

County(s): CLEVELAND

MPOS(s)/RPO(s): Gaston-Cleveland-Lincoln MPO

Project Location



Statewide Mobility Total Score: 16.06

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%)	21.46	N/A	N/A
Safety (10%)	64.31		
Economic Competitiveness (10%)	3.54		
Multimodal + [Freight & Military] (20%)	10.77		
[Travel Time] Benefit/Cost (30%)	2.28		
Totals: Weight: 100% Weighted Score: 16.06			

Regional Impact Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (10%)	64.31	Percent: 15% Points:	Percent: 15% Points:
[Travel Time] Benefit/Cost (25%)	2.28		
Accessibility / Connectivity (10%)	49.78		
Congestion (V/C) (25%)	21.46		
Totals: Weight: 70% Weighted Score: 17.34			

Division Needs Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%)	21.46	Percent: 25% Points:	Percent: 25% Points:
Safety (10%)	64.31		
[Travel Time] Benefit/Cost (20%)	2.28		
Totals: Weight: 50% Weighted Score: 11.18			

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles):	2.58
Facility Type:	Multi-Lane Highway
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	17168.04
Capacity:	70611.68
Volume/Capacity Ratio:	0.24
% Autos:	87%
% Trucks:	13%
Truck Volume:	2153.04
Crash Density:	58.29
Crash Severity:	73.82
Critical Crash Rate:	60.83
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	2
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	22
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	98
Actual Congested Speed:	53.46
Travel Time Index:	1.03

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	70
Length (miles):	2.58
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial-Other Freeway
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	1406780.34
Travel Time Savings for 30 Years (Autos):	1230356.04
Travel Time Savings for 30 Years (Trucks):	176424.3
Long-Term Employment:	25
% Change in Economy:	4.57E-05
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 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%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Gaston-Cleveland-Lincoln MPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$11,300,000	TIP Unit
Right-of-Way Cost:	\$3,000,000	TIP Unit
Utilities Cost:	\$0	TIP Unit
Total Project Cost:	\$14,300,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$14,300,000	