



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090148

Mode: Highway

Status: Submitted

US-158, NC-903

From/Cross Street: SR 1405 (Roanoke Chapel Road) East of Littleton

Specific Improvement Type: 1 - Widen Existing Roadway

To: I-95 South of Roanoke Rapids

Project Category: Statewide Mobility

Length: 15.95

TIP#: R-2581

Fully Funded in Draft STIP? No

Cost to NCDOT: \$86,400,000

Description:

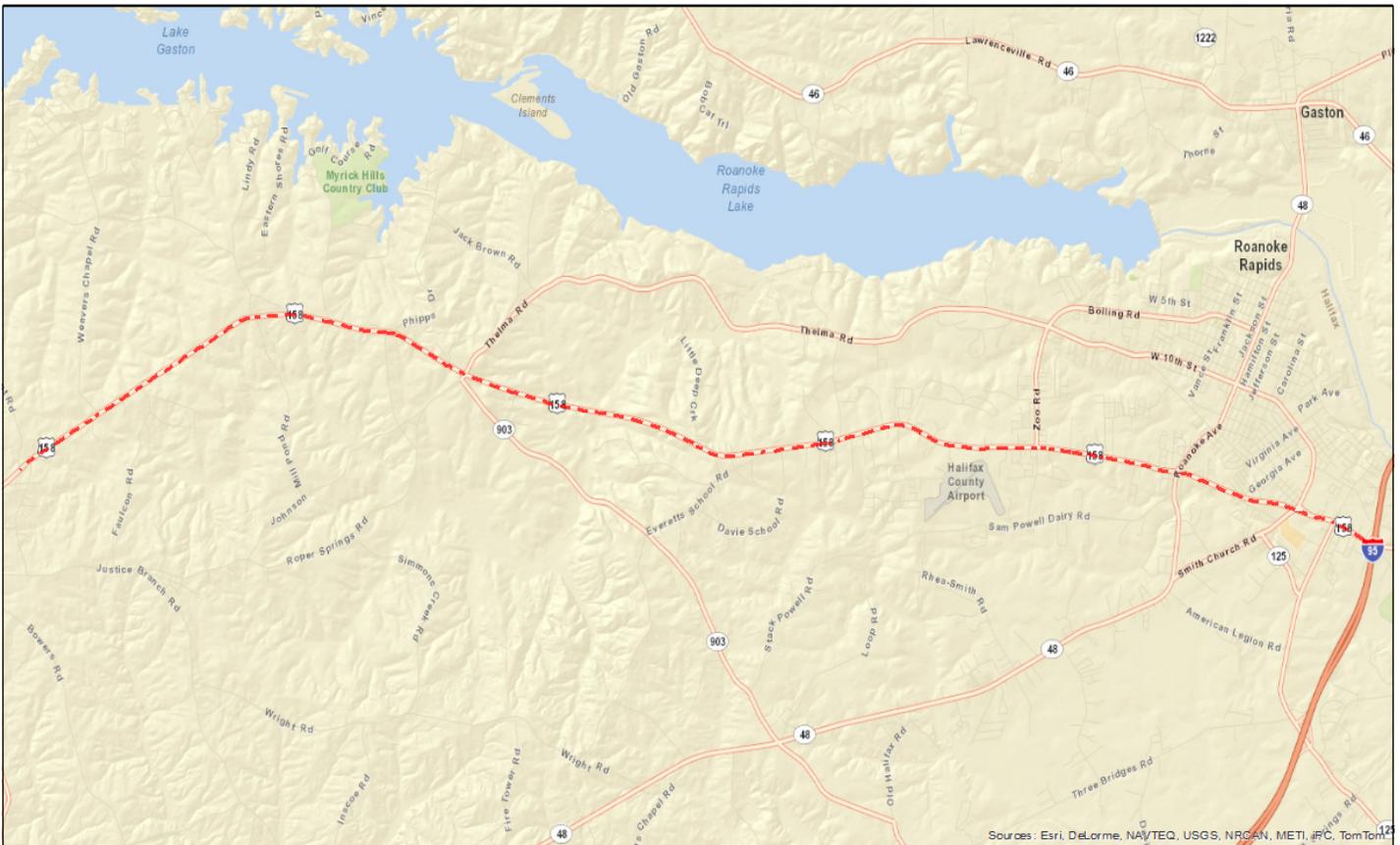
Widen to Multi-Lanes.

Division(s): Division 4

County(s): HALIFAX

MPOS(s)/RPO(s): Peanut Belt RPO

Project Location



Statewide Mobility Total Score: 16.51

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Multimodal + [Freight & Military] (20%)	4.12	N/A	N/A
Congestion (V/C) (30%)	28.46		
Safety (10%)	66.05		
[Travel Time] Benefit/Cost (30%)	0.45		
Economic Competitiveness (10%)	4.08		
Totals: Weight: 100% Weighted Score: 16.51			

Regional Impact Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (15%)	28.46	Percent: 15% Points:	Percent: 15% Points:
Safety (15%)	66.05		
Lane Width (10%)	0.00		
[Travel Time] Benefit/Cost (20%)	0.45		
[Paved] Shoulder Width (10%)	0.00		
Totals: Weight: 70% Weighted Score: 14.27			

Division Needs Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (10%)	66.05	Percent: 25% Points:	Percent: 25% Points:
Lane Width (10%)	0.00		
[Paved] Shoulder Width (10%)	0.00		
[Travel Time] Benefit/Cost (10%)	0.45		
Congestion (V/C) (10%)	28.46		
Totals: Weight: 50% Weighted Score: 9.5			

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	52
Length (miles):	15.95
Facility Type:	Two Lane Highway
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	2
Roadway has Curb & Gutter?	No
Volume (AADT):	7502.79
Capacity:	17680.66
Volume/Capacity Ratio:	0.42
% Autos:	89%
% Trucks:	11%
Truck Volume:	824.89
Crash Density:	78.9
Crash Severity:	58.11
Critical Crash Rate:	61.17
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	1
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	22
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	88
Actual Congested Speed:	45.13
Travel Time Index:	1.12

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	55
Length (miles):	15.95
Facility Type:	Multi-Lane Highway
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	2
Travel Time Savings for 30 Years (Total):	1697352.08
Travel Time Savings for 30 Years (Autos):	1510738.53
Travel Time Savings for 30 Years (Trucks):	186613.55
Long-Term Employment:	28
% Change in Economy:	5.36E-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 4

* 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 4	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Peanut Belt RPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$58,300,000	TIP Unit
Right-of-Way Cost:	\$28,100,000	TIP Unit
Utilities Cost:	\$0	TIP Unit
Total Project Cost:	\$86,400,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$86,400,000	