



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H140389

Mode: Highway

Status: Submitted

US-301, NC-39, NC-96

From/Cross Street: Booker Dairy Rd

Specific Improvement Type: 4 - Upgrade Arterial to Superstreet

To: Ricks Rd

Project Category: Regional Impact

Length: 1.58

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$13,317,000

Description:

This road is currently nearing capacity. The addition of a median will allow for better controlled access which will provide more mobility. Converting the road to 4 lanes with median and sidewalks will also provide safe routes for pedestrians that currently are creating trails along side the road.

Division(s): Division 4

County(s): JOHNSTON

MPOS(s)/RPO(s): Upper Coastal Plain 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: 53.69

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (15%) 43.69	Percent: 15% Points: 100	Percent: 15% Points: 100
Safety (15%) 86.13		
Lane Width (10%) 25.00		
[Paved] Shoulder Width (10%) 0.00		
[Travel Time] Benefit/Cost (20%) 8.58		
Totals: Weight: 70% Weighted Score: 23.69		

Division Needs Total Score: 16.34

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Lane Width (10%) 25.00	Percent: 25% Points: 0	Percent: 25% Points: 0
[Paved] Shoulder Width (10%) 0.00		
[Travel Time] Benefit/Cost (10%) 8.58		
Congestion (V/C) (10%) 43.69		
Safety (10%) 86.13		
Totals: Weight: 50% Weighted Score: 16.34		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	38
Length (miles):	1.58
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
Lane Width:	11
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	Yes
Volume (AADT):	19054.61
Capacity:	31700
Volume/Capacity Ratio:	0.6
% Autos:	97%
% Trucks:	3%
Truck Volume:	614.25
Crash Density:	81.5
Crash Severity:	87.8
Critical Crash Rate:	89.13
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	28
Existing Median Type (for Cost Estimation):	TWLTL
Pavement Condition Rating:	92
Actual Congested Speed:	28.55
Travel Time Index:	1.23

Project Benefits

Project Cross-Section:	4F - 4 Lane Divided (17'-6" Raised Median) with Curb & Gutter, Wide Outside Lanes, and Sidewalks
Speed Limit:	45
Length (miles):	1.58
Facility Type:	Superstreet
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	5168760.5
Travel Time Savings for 30 Years (Autos):	5002139.04
Travel Time Savings for 30 Years (Trucks):	166621.46
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	Yes
CTP/LRTP Name:	Johnston County CTP
CTP/LRTP Completion Year:	2012
Submitted by:	Upper Coastal Plain RPO

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 4	100%	100	0
	0%	0	0
	0%	0	0
TOTAL Division Points		100	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Upper Coastal Plain RPO	100%	100	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	0

Project Cost and Source

Construction Cost:	\$10,289,000	Cost Estimation Tool
Right-of-Way Cost:	\$2,704,000	Cost Estimation Tool
Utilities Cost:	\$324,000	Cost Estimation Tool
Total Project Cost:	\$13,317,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$13,317,000	