



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090250

Mode: Highway

Status: Submitted

(New Route)

From/Cross Street: SR 1553 (Shotwell Road) West of US 70

Specific Improvement Type: 5 - Construct Roadway on New Location

To: NC 42 East of Clayton

Project Category: Division Needs

Length: 3.33

TIP#: R-3618

Fully Funded in Draft STIP? No

Cost to NCDOT: \$30,548,000

Description:

SR 1553 (Shotwell Road) West of US 70 to NC 42 East of Clayton. Two Lanes on Multi-Lane Right of Way, New Location.

Division(s): Division 4

County(s): JOHNSTON

MPOS(s)/RPO(s): Capital Area MPO

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
	Percent: 15% Points: 0	Percent: 15% Points: 0
Totals: Weight: 0% Weighted Score: 0		

Division Needs Total Score: 47.85

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (10%) 66.16	Percent: 25% Points: 0	Percent: 25% Points: 100
Safety (10%) 62.33		
Lane Width (10%) 0.00		
[Paved] Shoulder Width (10%) 100.00		
[Travel Time] Benefit/Cost (10%) 0.00		
Totals: Weight: 50% Weighted Score: 22.85		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles):	2.5
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	34865.32
Capacity:	40063.01
Volume/Capacity Ratio:	0.87
% Autos:	96%
% Trucks:	4%
Truck Volume:	1264.27
Crash Density:	76
Crash Severity:	39.86
Critical Crash Rate:	71.16
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	27
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	82
Actual Congested Speed:	53.84
Travel Time Index:	1.02

Project Benefits

Project Cross-Section:	2B - 2 Lane Undivided with Paved Shoulders, 25-45 mph
Speed Limit:	45
Length (miles):	3.33
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	-10161906.53
Travel Time Savings for 30 Years (Autos):	-9793419.57
Travel Time Savings for 30 Years (Trucks):	-368486.96
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 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
Capital Area MPO	100%	0	100
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	100

Project Cost and Source

Construction Cost:	\$15,618,000	TIP Unit
Right-of-Way Cost:	\$13,330,000	Cost Estimation Tool
Utilities Cost:	\$1,600,000	Cost Estimation Tool
Total Project Cost:	\$30,548,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$30,548,000	