



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H141671

Mode: Highway

Status: Submitted

US-70

From/Cross Street: SR 1501 (Swift Creek Road)

Specific Improvement Type: 7 - Upgrade At-grade Intersection to Interchange or Grade Separation

To:

Project Category: Statewide Mobility

Length: 2

TIP#: W-5600

Fully Funded in Draft STIP? No

Cost to NCDOT: \$11,315,000

Description:

Upgrade at grade intersection to an interchange

Division(s): Division 4

County(s): JOHNSTON

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

Project Location



Sources : Esri, DeLorme, NAVTEQ, USGS, NRCAN, METI, IPC, TomTom

Statewide Mobility Total Score: 18.27

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%)	29.93	N/A	N/A
[Travel Time] Benefit/Cost (30%)	3.63		
Safety (10%)	33.35		
Economic Competitiveness (10%)	4.26		
Multimodal + [Freight & Military] (20%)	22.20		
Totals: Weight: 100% Weighted Score: 18.27			

Regional Impact Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (20%)	3.63	Percent: 15% Points:	Percent: 15% Points:
[Paved] Shoulder Width (10%)	0.00		
Congestion (V/C) (15%)	29.93		
Safety (15%)	33.35		
Lane Width (10%)	0.00		
Totals: Weight: 70% Weighted Score: 10.22			

Division Needs Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (10%)	29.93	Percent: 25% Points:	Percent: 25% Points:
Safety (10%)	33.35		
Lane Width (10%)	0.00		
[Paved] Shoulder Width (10%)	0.00		
[Travel Time] Benefit/Cost (10%)	3.63		
Totals: Weight: 50% Weighted Score: 6.69			

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles);	2
Facility Type:	Arterial
Access Control:	Limited
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	26573.52
Capacity:	82600.99
Volume/Capacity Ratio:	0.32
% Autos:	89%
% Trucks:	11%
Truck Volume:	2832.1
Crash Density:	0
Crash Severity:	0
Critical Crash Rate:	0
Crash Frequency:	66.7
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	Yes
Average Commuting Time:	27
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	99
Actual Congested Speed:	27.49
Travel Time Index:	2

Project Benefits

Project Cross-Section:	
Speed Limit:	55
Length (miles):	2
Facility Type:	Multi-Lane Highway
Access Control:	Partial
Functional Classification:	Other Principal Arterial
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	1788000
Travel Time Savings for 30 Years (Autos):	1597442.05
Travel Time Savings for 30 Years (Trucks):	190557.95
Long-Term Employment:	29.26
% Change in Economy:	5.59E-05
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:	2014
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
Upper Coastal Plain RPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$9,125,000	Cost Estimation Tool
Right-of-Way Cost:	\$2,190,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$11,315,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$11,315,000	