



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090366-A

Mode: Highway

Status: Submitted

US-15, US-501

From/Cross Street: Garrett Road

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

To:

Project Category: Statewide Mobility

Length: 2

TIP#: U-2807

Fully Funded in Draft STIP? Yes **Statewide Mobility**

Cost to NCDOT: \$23,870,000

Description:

Upgrade At-grade Intersection to Interchange.

Division(s): Division 5

County(s): DURHAM

MPOS(s)/RPO(s): Durham Chapel Hill Carrboro MPO

Project Location



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

Statewide Mobility Total Score: 47.21

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 69.74	N/A	N/A
Safety (10%) 66.65		
Economic Competitiveness (10%) 54.00		
Multimodal + [Freight & Military] (20%) 8.25		
[Travel Time] Benefit/Cost (30%) 41.90		
Totals: Weight: 100% Weighted Score: 47.21		

Regional Impact Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (25%) 41.90	Percent: 15% Points:	Percent: 15% Points:
Safety (10%) 66.65		
Accessibility / Connectivity (10%) 100.00		
Congestion (V/C) (25%) 69.74		
Totals: Weight: 70% Weighted Score: 44.58		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (20%) 41.90	Percent: 25% Points:	Percent: 25% Points:
Congestion (V/C) (20%) 69.74		
Safety (10%) 66.65		
Totals: Weight: 50% Weighted Score: 28.99		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	50
Length (miles);	2
Facility Type:	Arterial
Access Control:	Limited
Functional Classification:	Other Principal Arterial- Other Freeway
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	55825
Capacity:	70643.11
Volume/Capacity Ratio:	0.79
% Autos:	97%
% Trucks:	3%
Truck Volume:	1650.02
Crash Density:	0
Crash Severity:	0
Critical Crash Rate:	0
Crash Frequency:	100
Severity Index:	33.3
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	22
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	97
Actual Congested Speed:	32.13
Travel Time Index:	1.09

Project Benefits

Project Cross-Section:	
Speed Limit:	55
Length (miles):	2
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:	10
Travel Time Savings for 30 Years (Total):	44909000
Travel Time Savings for 30 Years (Autos):	43581624.69
Travel Time Savings for 30 Years (Trucks):	1327375.31
Long-Term Employment:	632
% Change in Economy:	0.0004479
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 5

* 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 5	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Durham Chapel Hill Carrboro MPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$19,250,000	Cost Estimation Tool
Right-of-Way Cost:	\$4,620,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$23,870,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$23,870,000	