



# NCDOT Prioritization 3.0 Project Summary

SPOT ID: H140660

Mode: Highway

Status: Submitted

## NC-54

From/Cross Street: Farrington Road

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

To:

Project Category: Regional Impact

Length: 2

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$2,325,000

### Description:

Construct grade separation.

Division(s): Division 5

County(s): DURHAM

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

### Project Location



**Statewide Mobility Total Score: 0**

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
	N/A	N/A
<b>Totals: Weight: 0% Weighted Score: 0</b>		

**Regional Impact Total Score: 65.18**

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 92.32	Percent: 15% Points: 0	Percent: 15% Points: 14
Safety (10%) 50.00		
[Travel Time] Benefit/Cost (25%) 100.00		
Accessibility / Connectivity (10%) 17.49		
<b>Totals: Weight: 70% Weighted Score: 63.08</b>		

**Division Needs Total Score: 43.46**

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 92.32	Percent: 25% Points: 0	Percent: 25% Points: 0
Safety (10%) 50.00		
[Travel Time] Benefit/Cost (20%) 100.00		
<b>Totals: Weight: 50% Weighted Score: 43.46</b>		

**Project Data \*****Existing Conditions**

Existing Cross-Section:	
Speed Limit:	45
Length (miles);	2
Facility Type:	Arterial
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):	52473.45
Capacity:	44135.67
Volume/Capacity Ratio:	1.19
% Autos:	98%
% Trucks:	2%
Truck Volume:	1280.88
Crash Density:	0
Crash Severity:	0
Critical Crash Rate:	0
Crash Frequency:	100
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	19
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	44
Actual Congested Speed:	33.54
Travel Time Index:	1.34

**Project Benefits**

Project Cross-Section:	
Speed Limit:	45
Length (miles):	2
Facility Type:	Arterial
Access Control:	None
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):	60304000
Travel Time Savings for 30 Years (Autos):	58831977.8
Travel Time Savings for 30 Years (Trucks):	1472022.2
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:	2040 MTP
CTP/LRTP Completion Year:	2013
Submitted by:	Durham Chapel Hill Carrboro MPO

\* 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
<b>TOTAL Division Points</b>		<b>0</b>	<b>0</b>

**MPO/RPO**

MPO/RPO	Percent	Regional Impact	Division Needs
Durham Chapel Hill Carrboro MPO	100%	14	0
	0%	0	0
	0%	0	0
<b>TOTAL MPO/RPO Points</b>		<b>14</b>	<b>0</b>

**Project Cost and Source**

Construction Cost:	\$1,875,000	Cost Estimation Tool
Right-of-Way Cost:	\$450,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$2,325,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$2,325,000</b>	