



# NCDOT Prioritization 4.0 Project Summary

**SPOT ID:** H129640-B

**Mode:** Highway

**Status:** Draft

## US- (New Route - Northern Durham Parkway)

**From/Cross Street:** US 70

**Specific Improvement Type:** 5 - Construct Roadway on New Location

**To:** NC 98/Wake Forest Hwy/Holloway St

**Project Category:** Division Needs

**Length:** 4.26

**TIP#:**

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$78,380,000

### Description:

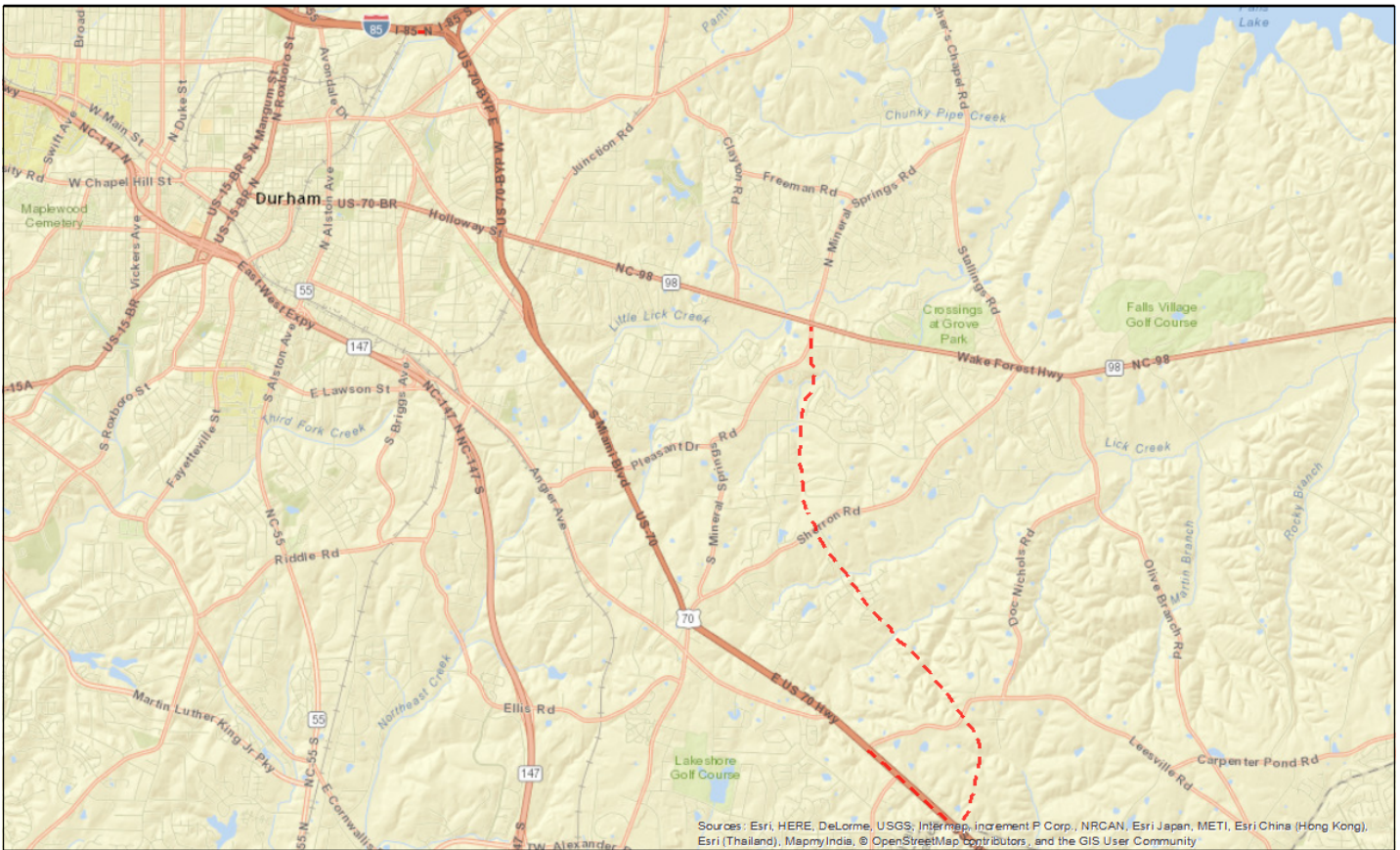
Construct Multi-Lane Roadway on New Location

**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 Points	MPO/RPO Points
	N/A	N/A
<b>Totals: Weight: 0% Weighted Score: 0</b>		

**Regional Impact Total Score: 0**

Quantitative Score	Division Engineer Points	MPO/RPO Points
	Percent: 15% Points:	Percent: 15% Points:
<b>Totals: Weight: 0% Weighted Score: 0</b>		

**Division Needs Total Score: 0**

Quantitative Score	Division Engineer Points	MPO/RPO Points
Safety (10%) Accessibility / Connectivity (5%) Congestion DIV (15%) Freight (5%) Benefit-Cost DIV (15%)	In Progress In Progress In Progress In Progress In Progress	
	Percent: 25% Points:	Percent: 25% Points:
<b>Totals: Weight: 50% Weighted Score: 0</b>		

**Criteria measures**

Criteria	Measure	Raw Value	Scaled value	Criteria	Measure	Raw Value	Scaled value
Congestion	Volume/Capacity (SW 60%, REG 80%, DIV 100%)	0.97		Accessibility / Connectivity	County Economic Indicator (50%)	337	
	Volume (SW 40%, REG 20%, DIV 0%)	34616.08			Upgrade Roadway Travel Time Savings (50%)		
Benefit-Cost (SW/REG)	Benefit/Cost SW/REG (100%)			Freight	Truck Volume (50%)	2298.66	
Benefit-Cost (DIV)	Benefit/Cost DIV (100%)				Volume/Capacity on Non-Interstate STRAHNET or Future Interstate (30%)		
Safety (Segments)	Crash Density (33%)	62.81			Distance to Freight Terminal (20%)	2.6	
	Crash Severity (33%)	41.07		Multimodal	Distance to Multimodal Terminal (60%)	2.6	
	Critical Crash Rate (33%)	100			Volume/Capacity on Route near Multimodal Terminal (40%)		
Safety (Intersections)	Crash Frequency (50%)			Lane Width	Lane Width Difference (100%)	0	
	Severity Index (50%)			Shoulder Width	Paved Shoulder Width Difference (100%)	2	
Economic Competitiveness	%Change in Economy (50%)			Pavement Condition	Pavement Condition Rating (100%)	82	
	Long-term Jobs (50%)						

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

Existing Cross-Section:	New Roadway
Speed Limit (mph):	55
Length (miles):	0.92
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width (ft):	12
Paved Shoulder Width (ft):	2
Roadway has Curb & Gutter?	No
Volume (AADT):	33606.1
Volume (PADT):	34616.08
Peak ADT (PADT) Factor:	1.03
Capacity (vpd):	35773.91
Volume (PADT)/Capacity Ratio:	0.97
% Autos:	93%
% Trucks:	7%
Truck Volume (AADTT):	2298.66
Crash Density (seg):	62.81
Crash Severity (seg):	41.07
Critical Crash Rate (seg):	100
Crash Frequency (int):	
Severity Index (int):	
Adjusted Property Tax Base Per Capita Rank:	
Population Growth Rank:	
Median Household Income Rank:	
12 Month Average Unemployment Rate Rank:	
Sum County Rank:	337
Non-Interstate STRAHNET Route?	No
Future Interstate Route?	No
Pavement Condition Rating:	82

**Project Benefits**

Project Cross-Section:	4D - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks
Speed Limit (mph):	45
Length (miles):	4.26
Facility Type:	Multi-Lane Highway
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width (ft):	12
DOT Design Paved Shoulder Width (ft):	4
Travel Time Savings for 10 Years (NCSTM) - SW/REG:	-14964851.02
Travel Time Savings in \$ (NCSTM) - SW/REG:	
Travel Time Savings for 10 Years (CALC) - DIV:	
Travel Time Savings in \$ (CALC) - DIV:	
Safety Benefits in \$:	
Long-Term Employment:	
% Change in Economy:	
Nearest Freight Terminal:	Raleigh-Durham International Airport
Distance to Freight Terminal (miles):	2.6
Nearest Multimodal Passenger Terminal :	Raleigh-Durham International Airport
Distance to Multimodal Terminal (miles):	2.6
Does project upgrade how the roadway functions?	Yes
Travel Time Savings/User:	
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 Online tool and associated databases.

**Project Ownership**

**Division**

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

**Project Cost and Source**

Construction Cost:	\$56,881,000	Cost Estimation Tool
Right-of-Way Cost:	\$19,196,000	Cost Estimation Tool
Utilities Cost:	\$2,303,000	Cost Estimation Tool
Total Project Cost:	\$78,380,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$78,380,000</b>	