



# NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H129638-B

**Mode:** Highway

**Status:** Submitted

## US-70

**From/Cross Street:** Miami Blvd

**Specific Improvement Type:** 2 - Upgrade Arterial to Freeway/Expressway

**To:** Proposed Northern Durham Parkway

**Project Category:** Statewide Mobility

**Length:** 2.41

**TIP#:** U-4720B

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$91,347,000

### Description:

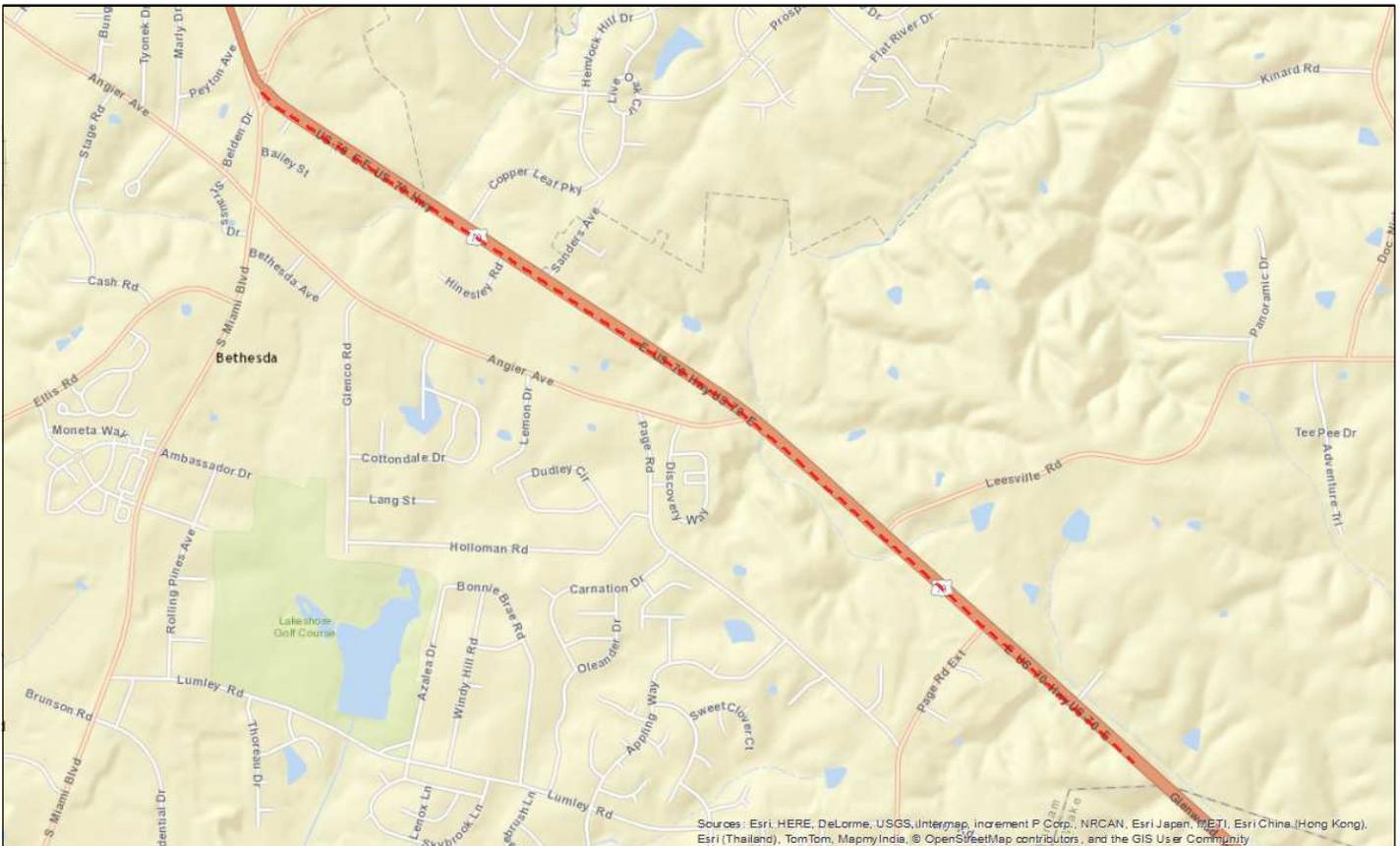
Upgrade Roadway to Freeway.

**Division(s):** Division 5

**County(s):** DURHAM

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

### Project Location



**Statewide Mobility Total Score: 32.42**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (30%) 67.19	N/A	N/A
Safety (10%) 73.26		
Economic Competitiveness (10%) 19.08		
Multimodal + [Freight & Military] (20%) 9.46		
[Travel Time] Benefit/Cost (30%) 3.80		
<b>Totals: Weight: 100% Weighted Score: 32.42</b>		

**Regional Impact Total Score: 46.91**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (25%) 67.19	Percent: 15% Points: 0	Percent: 15% Points: 100
Safety (10%) 73.26		
[Travel Time] Benefit/Cost (25%) 3.80		
Accessibility / Connectivity (10%) 68.38		
<b>Totals: Weight: 70% Weighted Score: 31.91</b>		

**Division Needs Total Score: 21.52**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
[Travel Time] Benefit/Cost (20%) 3.80	Percent: 25% Points: 0	Percent: 25% Points: 0
Congestion (V/C) (20%) 67.19		
Safety (10%) 73.26		
<b>Totals: Weight: 50% Weighted Score: 21.52</b>		

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

Existing Cross-Section:	
Speed Limit:	52
Length (miles);	2.41
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	3
Roadway has Curb & Gutter?	No
Volume (AADT):	29305.19
Capacity:	31700
Volume/Capacity Ratio:	0.92
% Autos:	94%
% Trucks:	6%
Truck Volume:	1892.8
Crash Density:	94.68
Crash Severity:	42.48
Critical Crash Rate:	82.64
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	18
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	98
Actual Congested Speed:	44.43
Travel Time Index:	1.16

**Project Benefits**

Project Cross-Section:	6C - 6 Lane Freeway (27' Median with Jersey Barrier) with Paved Shoulders and 2 Lane One-Way Service Roads each side
Speed Limit:	60
Length (miles):	2.41
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:	4
Travel Time Savings for 30 Years (Total):	15349440.26
Travel Time Savings for 30 Years (Autos):	14358031.67
Travel Time Savings for 30 Years (Trucks):	991408.59
Long-Term Employment:	222
% Change in Economy:	0.00015954
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 Online tool and associated databases.

**Project Ownership****Division**

<b>Division</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Division 5	100%	0	0
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>0</b>	<b>0</b>

**MPO/RPO**

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

**Project Cost and Source**

Construction Cost:	\$73,026,000	Cost Estimation Tool
Right-of-Way Cost:	\$16,358,000	Cost Estimation Tool
Utilities Cost:	\$1,963,000	Cost Estimation Tool
Total Project Cost:	\$91,347,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$91,347,000</b>	