



# NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H140672

**Mode:** Highway

**Status:** Submitted

## I-540

**From/Cross Street:** US 70 (Glenwood Ave)

**Specific Improvement Type:** 1 - Widen Existing Roadway

**To:** SR 1829 (Leesville Rd)

**Project Category:** Statewide Mobility

**Length:** 2.52

**TIP#:**

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$11,654,500

### Description:

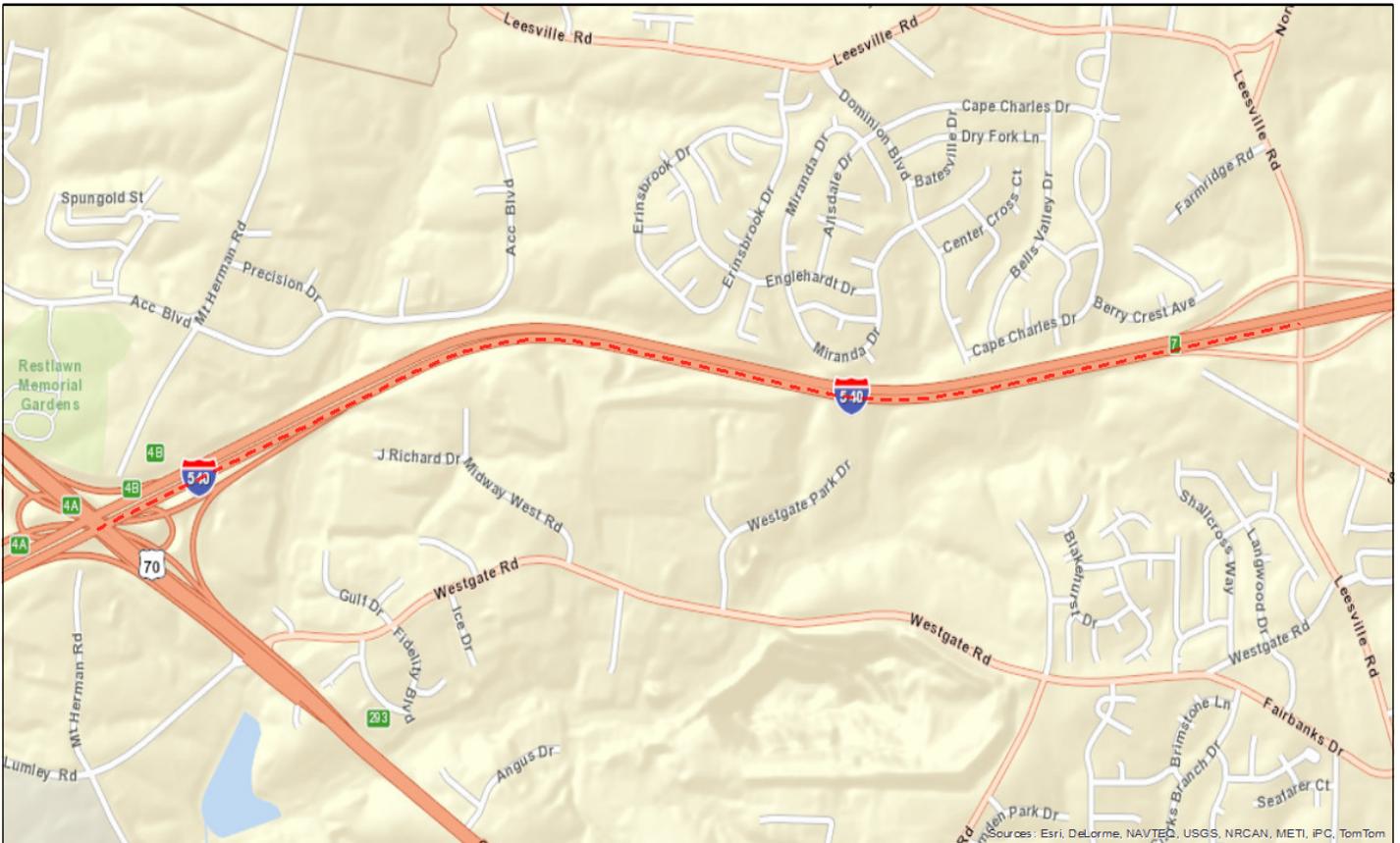
Construct Eastbound Auxiliary Lane

**Division(s):** Division 5

**County(s):** WAKE

**MPOS(s)/RPO(s):** Capital Area MPO

### Project Location



**Statewide Mobility Total Score: 33.84**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (30%) 81.87	N/A	N/A
Safety (10%) 49.03		
Economic Competitiveness (10%) 1.97		
Multimodal + [Freight & Military] (20%) 16.80		
[Travel Time] Benefit/Cost (30%) 2.72		
<b>Totals: Weight: 100% Weighted Score: 33.84</b>		

**Regional Impact Total Score: 0**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (25%) 81.87	Percent: 15% Points:	Percent: 15% Points:
Safety (10%) 49.03		
[Travel Time] Benefit/Cost (25%) 2.72		
Accessibility / Connectivity (10%) 28.67		
<b>Totals: Weight: 70% Weighted Score: 28.92</b>		

**Division Needs Total Score: 0**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (20%) 81.87	Percent: 25% Points:	Percent: 25% Points:
Safety (10%) 49.03		
[Travel Time] Benefit/Cost (20%) 2.72		
<b>Totals: Weight: 50% Weighted Score: 21.82</b>		

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

Existing Cross-Section:	
Speed Limit:	70
Length (miles):	2.52
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Interstate
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	10
Roadway has Curb & Gutter?	No
Volume (AADT):	86000.55
Capacity:	108700.7
Volume/Capacity Ratio:	0.79
% Autos:	96%
% Trucks:	4%
Truck Volume:	3360.04
Crash Density:	53.63
Crash Severity:	46.43
Critical Crash Rate:	47.04
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	16
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	88
Actual Congested Speed:	57.74
Travel Time Index:	1.21

**Project Benefits**

Project Cross-Section:	8A - 8 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	70
Length (miles):	2.52
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Interstate
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	4106630.59
Travel Time Savings for 30 Years (Autos):	3946184.49
Travel Time Savings for 30 Years (Trucks):	160446.1
Long-Term Employment:	22.98
% Change in Economy:	1.64E-05
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
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**

<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>
Capital Area 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:	\$22,970,000	Cost Estimation Tool
Right-of-Way Cost:	\$303,000	Cost Estimation Tool
Utilities Cost:	\$36,000	Cost Estimation Tool
Total Project Cost:	\$23,309,000	
Other Funding:	\$11,654,500	only one direction. half cost
<b>Cost to NCDOT :</b>	<b>\$11,654,500</b>	