



# NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090036-C

Mode: Highway

Status: Submitted

## I-77

From/Cross Street: NC 115/US 21

Specific Improvement Type: 1 - Widen Existing Roadway

To: I-40

Project Category: Statewide Mobility

Length: 9.5

TIP#: I-4750C

Fully Funded in Draft STIP? No

Cost to NCDOT: \$237,500,000

### Description:

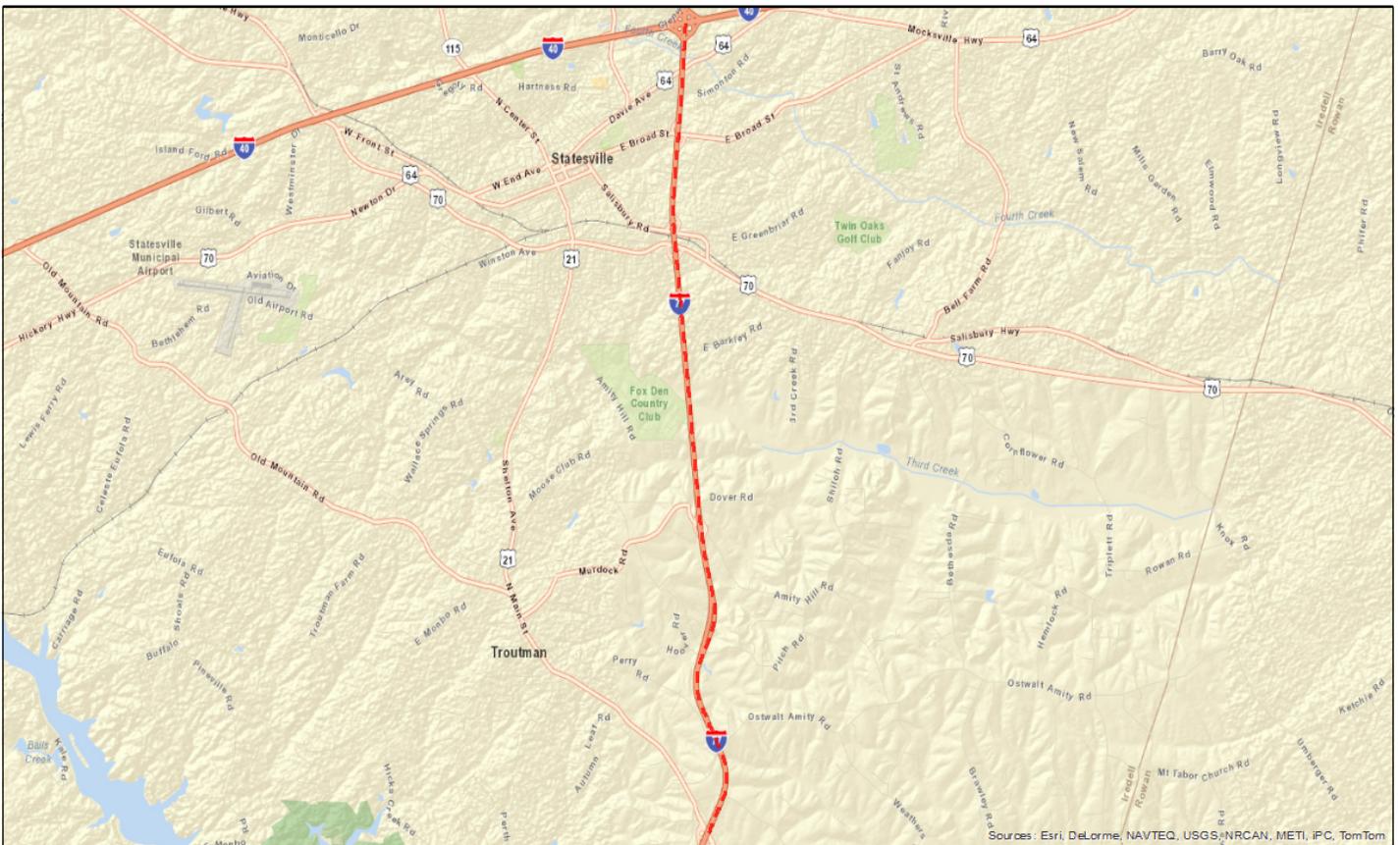
Add General Purpose Lanes.

Division(s): Division 12

County(s): IREDELL

MPOS(s)/RPO(s): Charlotte Regional Transportation Planning Organization

### Project Location



**Statewide Mobility Total Score: 41.79**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Safety (10%) 61.60	N/A	N/A
Economic Competitiveness (10%) 53.41		
Multimodal + [Freight & Military] (20%) 41.07		
[Travel Time] Benefit/Cost (30%) 2.09		
Congestion (V/C) (30%) 71.49		
<b>Totals: Weight: 100% Weighted Score: 41.79</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%) 71.49	Percent: 15% Points:	Percent: 15% Points:
Safety (10%) 61.60		
[Travel Time] Benefit/Cost (25%) 2.09		
Accessibility / Connectivity (10%) 20.65		
<b>Totals: Weight: 70% Weighted Score: 26.62</b>		

**Division Needs Total Score: 0**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
[Travel Time] Benefit/Cost (20%) 2.09	Percent: 25% Points:	Percent: 25% Points:
Congestion (V/C) (20%) 71.49		
Safety (10%) 61.60		
<b>Totals: Weight: 50% Weighted Score: 20.88</b>		

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

Existing Cross-Section:	
Speed Limit:	62
Length (miles):	9.5
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):	55959.67
Capacity:	68371.34
Volume/Capacity Ratio:	0.82
% Autos:	85%
% Trucks:	15%
Truck Volume:	8214.56
Crash Density:	69.77
Crash Severity:	52.79
Critical Crash Rate:	62.27
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	21
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	90
Actual Congested Speed:	61.37
Travel Time Index:	1.01

**Project Benefits**

Project Cross-Section:	8B - 8 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders)
Speed Limit:	65
Length (miles):	9.5
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):	21213051.37
Travel Time Savings for 30 Years (Autos):	18099096.11
Travel Time Savings for 30 Years (Trucks):	3113955.26
Long-Term Employment:	373
% Change in Economy:	0.00069519
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 12

\* 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 12	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>
Charlotte Regional Transportation Planning Organization	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:	\$220,000,000	TIP Unit
Right-of-Way Cost:	\$17,500,000	TIP Unit
Utilities Cost:	\$0	TIP Unit
Total Project Cost:	\$237,500,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$237,500,000</b>	