



# NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H141872

**Mode:** Highway

**Status:** Submitted

## I-40

**From/Cross Street:** US 25 (Hendersonville Road)

**Specific Improvement Type:** 8 - Improve Interchange

**To:**

**Project Category:** Statewide Mobility

**Length:** 2

**TIP#:**

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$540,000

### Description:

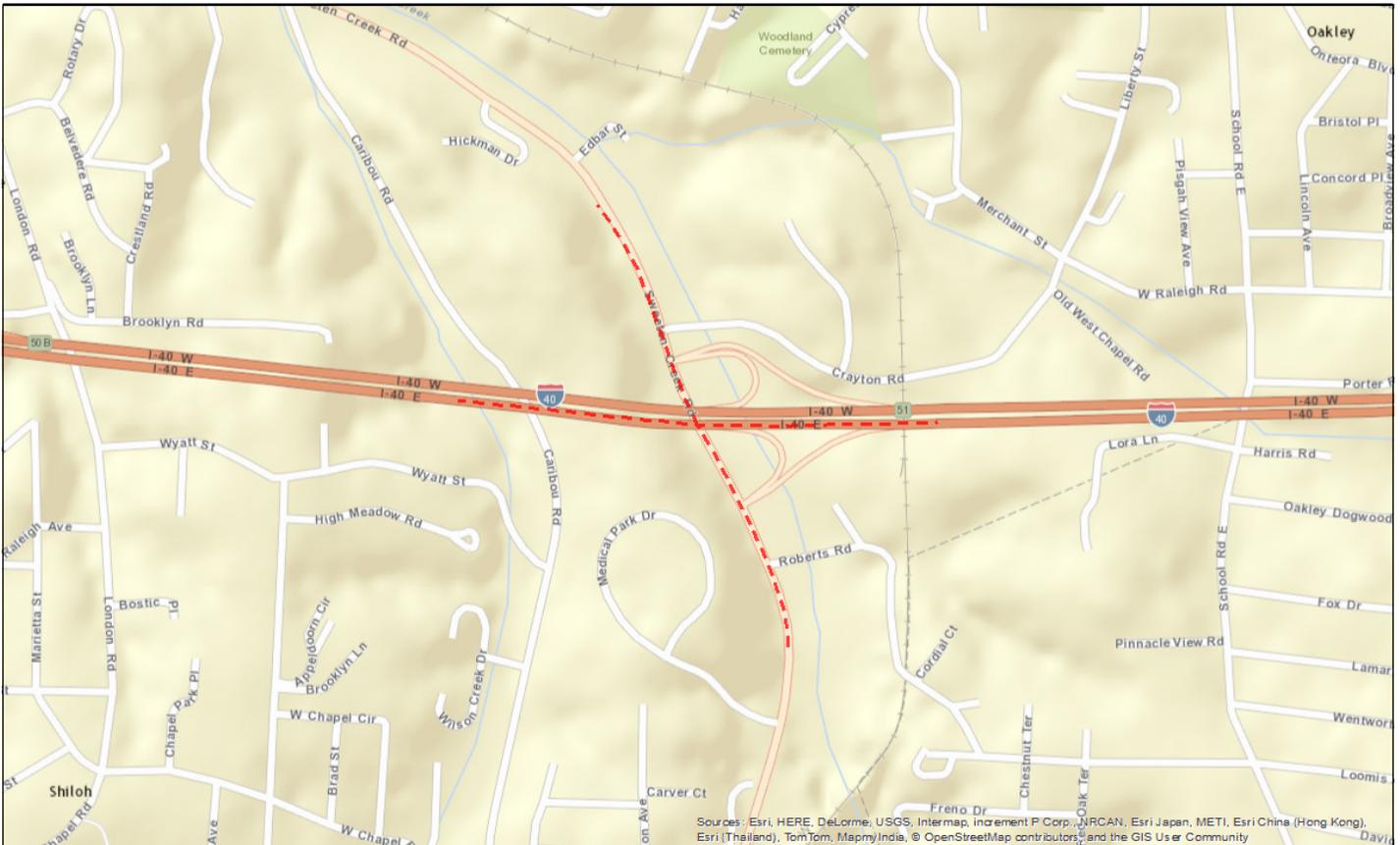
Upgrade interchange - EB ramp

**Division(s):** Division 13

**County(s):** BUNCOMBE

**MPOS(s)/RPO(s):** French Broad River MPO

### Project Location



**Statewide Mobility Total Score: 32.48**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (30%) 70.44	N/A	N/A
Safety (10%) 50.00		
Economic Competitiveness (10%) 0.10		
Multimodal + [Freight & Military] (20%) 26.19		
[Travel Time] Benefit/Cost (30%) 3.65		
<b>Totals: Weight: 100% Weighted Score: 32.48</b>		

**Regional Impact Total Score: 40.89**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
[Travel Time] Benefit/Cost (25%) 3.65	Percent: 15% Points: 100	Percent: 15% Points: 0
Accessibility / Connectivity (10%) 23.64		
Safety (10%) 50.00		
Congestion (V/C) (25%) 70.44		
<b>Totals: Weight: 70% Weighted Score: 25.89</b>		

**Division Needs Total Score: 44.82**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (20%) 70.44	Percent: 25% Points: 100	Percent: 25% Points: 0
Safety (10%) 50.00		
[Travel Time] Benefit/Cost (20%) 3.65		
<b>Totals: Weight: 50% Weighted Score: 19.82</b>		

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

Existing Cross-Section:	
Speed Limit:	60
Length (miles);	2
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):	70908.79
Capacity:	101103.94
Volume/Capacity Ratio:	0.7
% Autos:	93%
% Trucks:	7%
Truck Volume:	5238.65
Crash Density:	0
Crash Severity:	0
Critical Crash Rate:	0
Crash Frequency:	33.3
Severity Index:	66.7
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	19
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	92
Actual Congested Speed:	29.74
Travel Time Index:	1.51

**Project Benefits**

Project Cross-Section:	
Speed Limit:	60
Length (miles):	2
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Interstate
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	87000
Travel Time Savings for 30 Years (Autos):	80572.55
Travel Time Savings for 30 Years (Trucks):	6427.45
Long-Term Employment:	1.68
% Change in Economy:	3.9E-07
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	Yes
CTP/LRTP Name:	FBRMPO CTP
CTP/LRTP Completion Year:	2014
Submitted by:	Division 13

\* 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 13	100%	100	100
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>100</b>	<b>100</b>

**MPO/RPO**

<b>MPO/RPO</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
French Broad River 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:	\$500,000	Cost Estimation Tool
Right-of-Way Cost:	\$40,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$540,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$540,000</b>	