



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H140659

Mode: Highway

Status: Submitted

I-40, NC-54

From/Cross Street: NC 54

Specific Improvement Type: 8 - Improve Interchange

To:

Project Category: Statewide Mobility

Length: 2

TIP#:

Fully Funded in Draft STIP? Yes **Statewide Mobility**

Cost to NCDOT: \$1,160,000

Description:

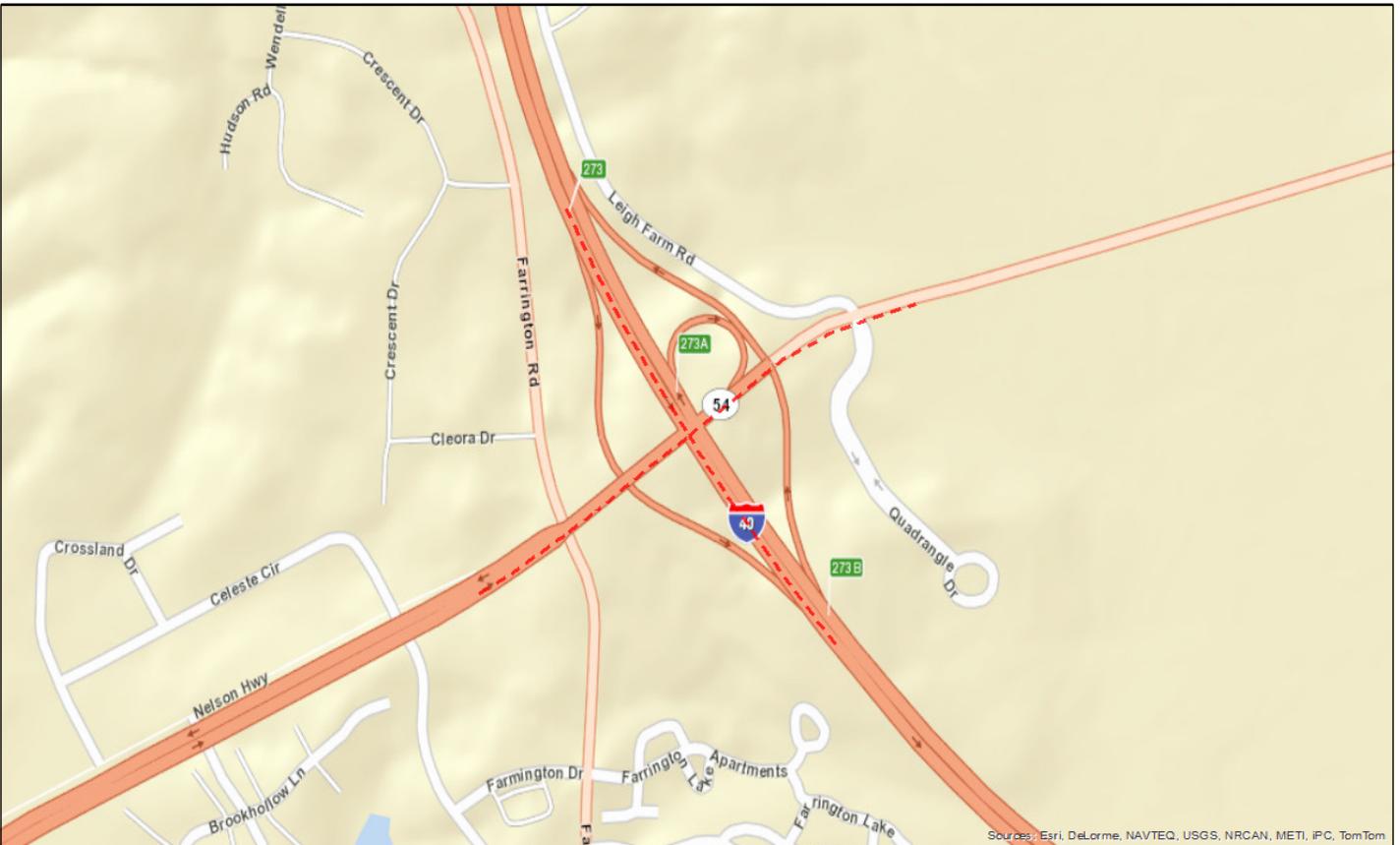
Improve interchange.

Division(s): Division 5

County(s): DURHAM

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

Project Location



Statewide Mobility Total Score: 70.35

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 100.00 Safety (10%) 33.35 Economic Competitiveness (10%) 9.16 Multimodal + [Freight & Military] (20%) 30.51 [Travel Time] Benefit/Cost (30%) 100.00	N/A	N/A
Totals: Weight: 100% Weighted Score: 70.35		

Regional Impact Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Accessibility / Connectivity (10%) 43.07 Congestion (V/C) (25%) 100.00 Safety (10%) 33.35 [Travel Time] Benefit/Cost (25%) 100.00	Percent: 15% Points:	Percent: 15% Points:
Totals: Weight: 70% Weighted Score: 57.64		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (10%) 33.35 [Travel Time] Benefit/Cost (20%) 100.00 Congestion (V/C) (20%) 100.00	Percent: 25% Points:	Percent: 25% Points:
Totals: Weight: 50% Weighted Score: 43.34		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	65
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):	129206.94
Capacity:	132138.78
Volume/Capacity Ratio:	0.98
% Autos:	95%
% Trucks:	5%
Truck Volume:	6102.59
Crash Density:	0
Crash Severity:	0
Critical Crash Rate:	0
Crash Frequency:	66.7
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	19
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	99
Actual Congested Speed:	47.16
Travel Time Index:	0.95

Project Benefits

Project Cross-Section:	
Speed Limit:	65
Length (miles):	2
Facility Type:	Freeway
Access Control:	Limited
Functional Classification:	Interstate
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	6590000
Travel Time Savings for 30 Years (Autos):	6278746.8
Travel Time Savings for 30 Years (Trucks):	311253.2
Long-Term Employment:	106.95
% Change in Economy:	7.62E-05
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	Yes
CTP/LRTP Name:	2040 MTP
CTP/LRTP Completion Year:	2014
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 On!ine tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 5	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

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

Project Cost and Source

Construction Cost:	\$1,000,000	Cost Estimation Tool
Right-of-Way Cost:	\$160,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$1,160,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$1,160,000	