



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H111022-B

Mode: Highway

Status: Submitted

US-1

From/Cross Street: NC 540

Specific Improvement Type: 1 - Widen Existing Roadway

To: NC 55

Project Category: Statewide Mobility

Length: 2.14

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$25,397,000

Description:

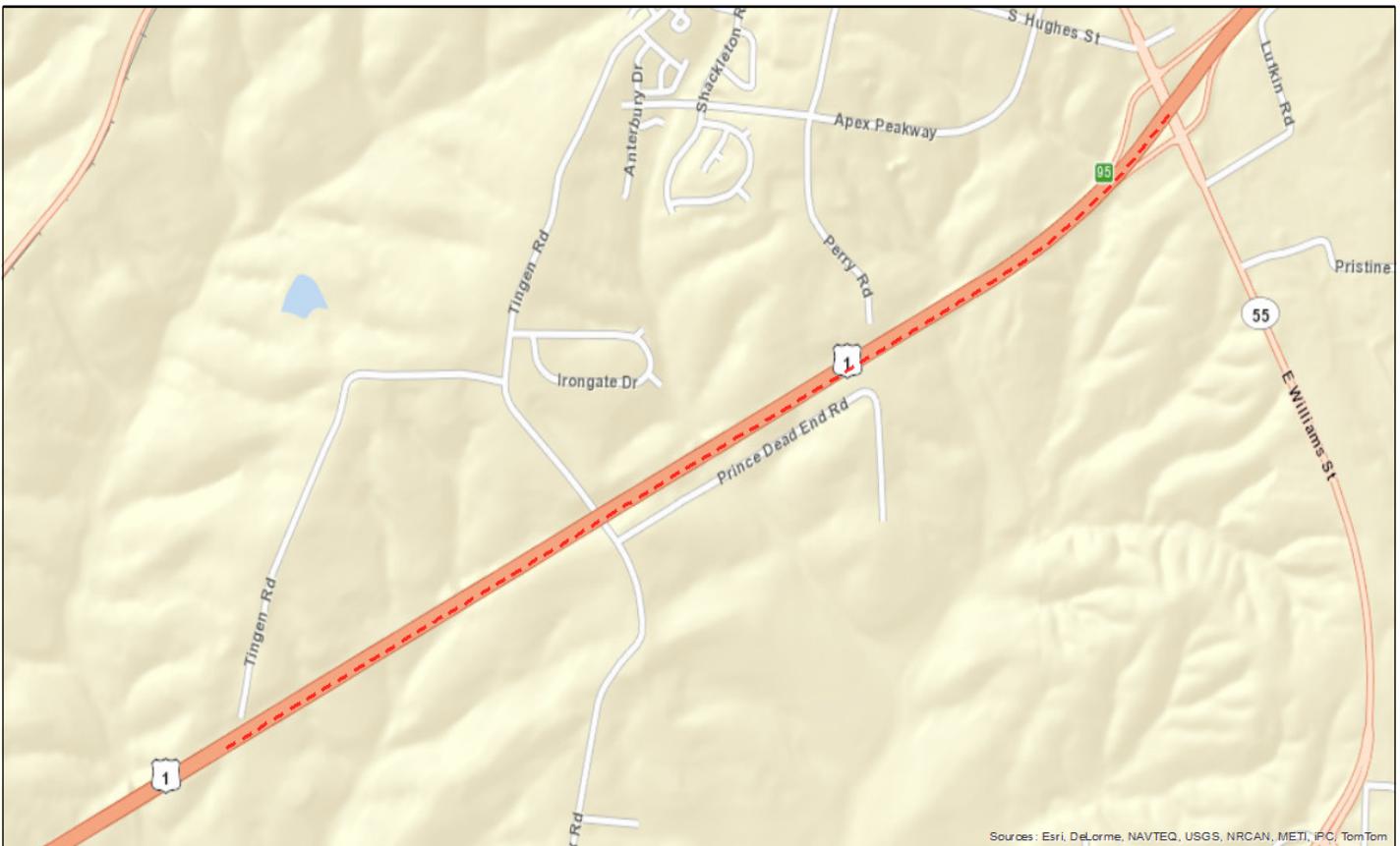
Widen Roadway to 6 Lanes

Division(s): Division 5

County(s): WAKE

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

Project Location



Sources: Esri, DeLorme, NAVTEQ, USGS, NRCAN, METI, IFC, TomTom

Statewide Mobility Total Score: 15.07

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 22.12	N/A	N/A
Safety (10%) 70.03		
Economic Competitiveness (10%) 0.08		
Multimodal + [Freight & Military] (20%) 7.02		
[Travel Time] Benefit/Cost (30%) 0.06		
Totals: Weight: 100% Weighted Score: 15.07		

Regional Impact Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 22.12	Percent: 15% Points:	Percent: 15% Points:
Safety (10%) 70.03		
[Travel Time] Benefit/Cost (25%) 0.06		
Accessibility / Connectivity (10%) 24.00		
Totals: Weight: 70% Weighted Score: 14.95		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 22.12	Percent: 25% Points:	Percent: 25% Points:
Safety (10%) 70.03		
[Travel Time] Benefit/Cost (20%) 0.06		
Totals: Weight: 50% Weighted Score: 11.44		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	69
Length (miles):	2.14
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial- Other Freeway
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	10
Roadway has Curb & Gutter?	No
Volume (AADT):	18000.04
Capacity:	72400.18
Volume/Capacity Ratio:	0.25
% Autos:	92%
% Trucks:	8%
Truck Volume:	1404.08
Crash Density:	72.86
Crash Severity:	56.58
Critical Crash Rate:	80.65
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	29
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	89
Actual Congested Speed:	61.88
Travel Time Index:	1.12

Project Benefits

Project Cross-Section:	6B - 6 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders)
Speed Limit:	70
Length (miles):	2.14
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:	10
Travel Time Savings for 30 Years (Total):	62190.48
Travel Time Savings for 30 Years (Autos):	57339.34
Travel Time Savings for 30 Years (Trucks):	4851.14
Long-Term Employment:	1
% Change in Economy:	6.2E-07
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**

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
Capital Area MPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$25,330,000	Cost Estimation Tool
Right-of-Way Cost:	\$60,000	Cost Estimation Tool
Utilities Cost:	\$7,000	Cost Estimation Tool
Total Project Cost:	\$25,397,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$25,397,000	