NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090044-BA **Mode:** Highway **Status:** Submitted

I-40

From/Cross Street: US 70 Business
To: US 70 Bypass
Length: 5.14

Specific Improvement Type: 1 - Widen Existing Roadway
Project Category: Statewide Mobility
TIP#: I-5111BA

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

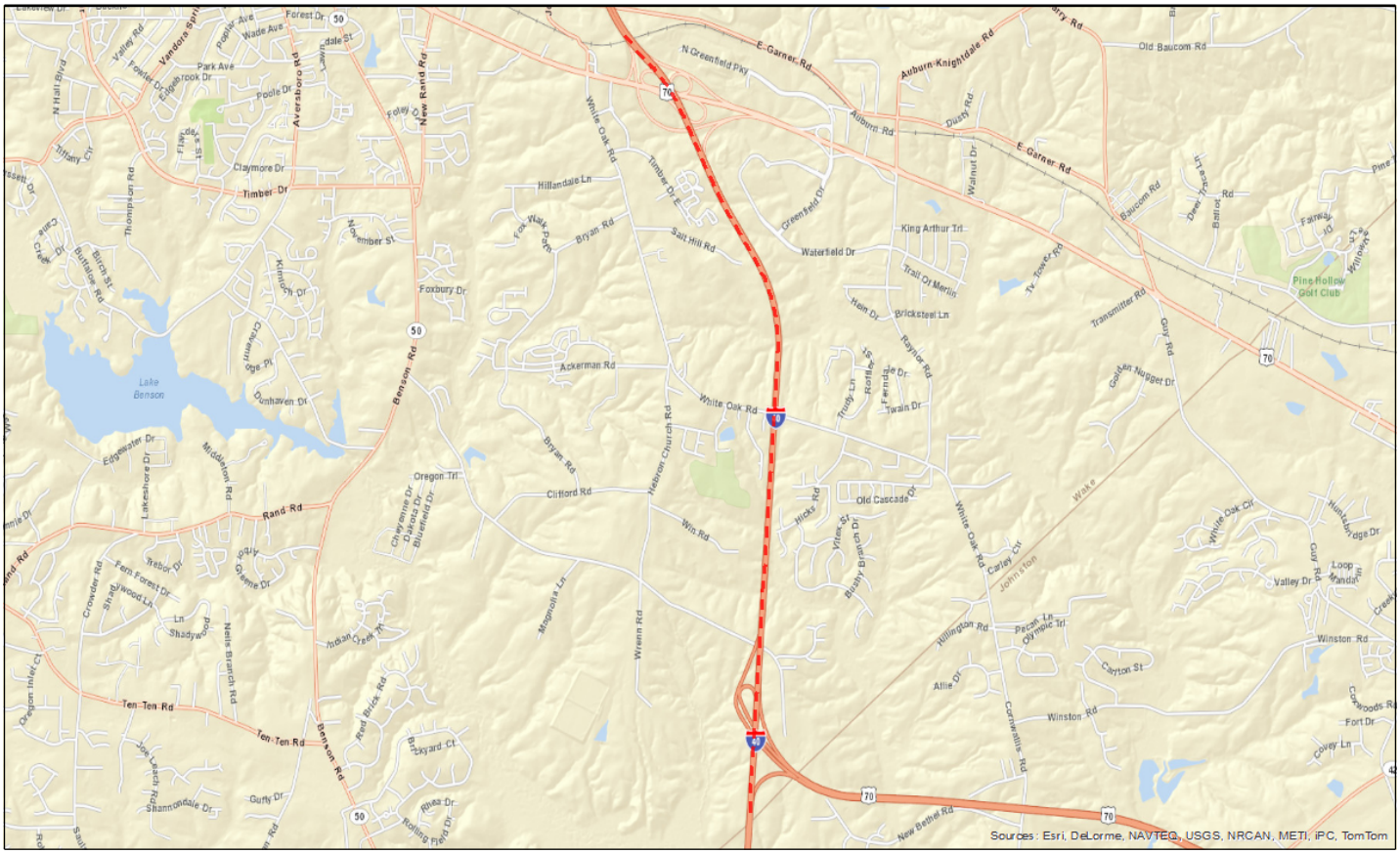
Cost to NCDOT: $58,000,000

Description:

Add Additional Lanes.

Division(s): Division 5
County(s): WAKE
MPOS(s)/RPO(s): Capital Area MPO

Project Location



Statewide Mobility Total Score: 47.2

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%)	90.85	N/A	N/A
Economic Competitiveness (10%)	43.28		
Multimodal + [Freight & Military] (20%)	24.13		
Safety (10%)	71.77		
[Travel Time] Benefit/Cost (30%)	12.05		
Totals: Weight: 100% Weighted Score: 47.2			

Regional Impact Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Accessibility / Connectivity (10%)	36.65	Percent: 15%	Percent: 15%
Congestion (V/C) (25%)	90.85	Points:	Points:
Safety (10%)	71.77		
[Travel Time] Benefit/Cost (25%)	12.05		
Totals: Weight: 70% Weighted Score: 36.56			

Division Needs Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%)	90.85	Percent: 25%	Percent: 25%
Safety (10%)	71.77	Points:	Points:
[Travel Time] Benefit/Cost (20%)	12.05		
Totals: Weight: 50% Weighted Score: 27.76			

Project Data *

Existing Conditions

Existing Cross-Section:	
Speed Limit:	70
Length (miles);	5.14
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):	73935.05
Capacity:	72400
Volume/Capacity Ratio:	1.02
% Autos:	93%
% Trucks:	7%
Truck Volume:	4826.43
Crash Density:	77.54
Crash Severity:	76.43
Critical Crash Rate:	61.36
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	26
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	92
Actual Congested Speed:	55.97
Travel Time Index:	1.21

Project Benefits

Project Cross-Section:	8B - 8 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders
Speed Limit:	70
Length (miles):	5.14
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):	30915476.3
Travel Time Savings for 30 Years (Autos):	28897336.03
Travel Time Savings for 30 Years (Trucks):	2018140.27
Long-Term Employment:	504.53
% Change in Economy:	0.00036103
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:	$43,000,000	TIP Unit
Right-of-Way Cost:	$15,000,000	TIP Unit
Utilities Cost:	$0	TIP Unit
Total Project Cost:	$58,000,000	
Other Funding:	$0	None
Cost to NCDOT :	**$58,000,000**	