NCDOT Prioritization 3.0 Project Summary

SPOT ID: H111020-A **Mode:** Highway **Status:** Submitted

US-401

From/Cross Street: NC 55 (north) in Fuquay Varina

To: US 401 (Fuquay-Varina Bypass)

Length: 3.34

Specific Improvement Type: 1 - Widen Existing Roadway

Project Category: Regional Impact

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: $42,830,000

Description:

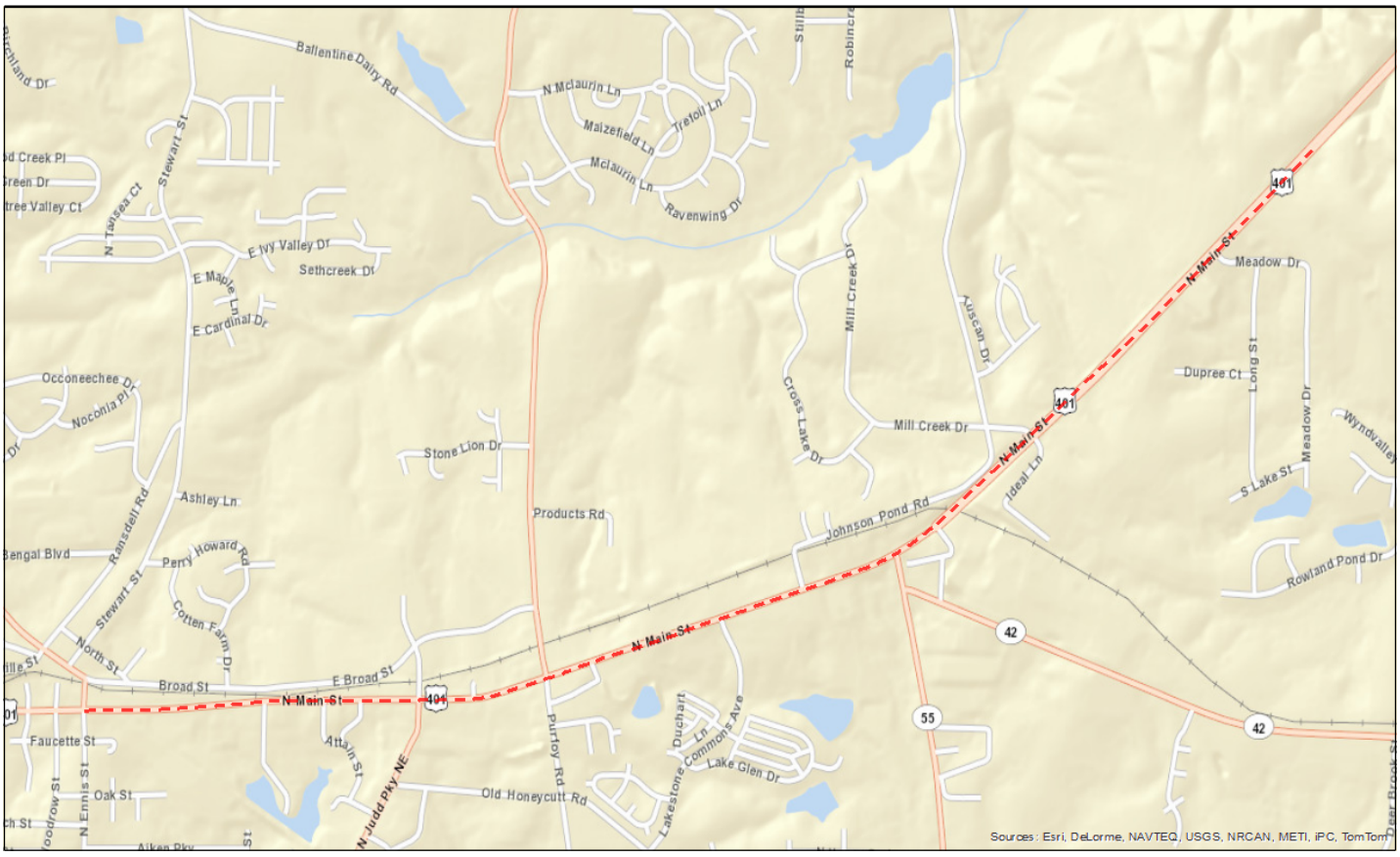
Widen Roadway to Six Lanes

Division(s): Division 5

County(s): WAKE

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

Project Location



Statewide Mobility Total Score: 0

Quanitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Totals: Weight: 0% Weighted Score: 0	N/A	N/A

Regional Impact Total Score: 0

Quanitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%)	55.24	Percent: 15%	Percent: 15%
Safety (10%)	56.15	Points:	Points:
[Travel Time] Benefit/Cost (25%)	4.11		
Accessibility / Connectivity (10%)	30.03		
Totals: Weight: 70% Weighted Score: 23.46			

Division Needs Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%)	55.24	Percent: 25%	Percent: 25%
Safety (10%)	56.15	Points:	Points:
[Travel Time] Benefit/Cost (20%)	4.11		
Totals: Weight: 50% Weighted Score: 17.48			

Project Data *

Existing Conditions

Existing Cross-Section:	
Speed Limit:	39
Length (miles);	3.34
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	3
Roadway has Curb & Gutter?	Yes
Volume (AADT):	24093.41
Capacity:	31700.12
Volume/Capacity Ratio:	0.76
% Autos:	95%
% Trucks:	5%
Truck Volume:	1173.26
Crash Density:	62.94
Crash Severity:	47.56
Critical Crash Rate:	57.95
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	31
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	68
Actual Congested Speed:	34.74
Travel Time Index:	0.83

Project Benefits

Project Cross-Section:	6E - 6 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, and Sidewalks
Speed Limit:	45
Length (miles):	3.34
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	7844529.1
Travel Time Savings for 30 Years (Autos):	7462531.16
Travel Time Savings for 30 Years (Trucks):	381997.94
Long-Term Employment:	
% Change in Economy:	
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:	$25,247,000	Cost Estimation Tool
Right-of-Way Cost:	$15,699,000	Cost Estimation Tool
Utilities Cost:	$1,884,000	Cost Estimation Tool
Total Project Cost:	$42,830,000	
Other Funding:	$0	None
Cost to NCDOT :	**$42,830,000**	