



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090172-E

Mode: Highway

Status: Submitted

US-401 (New Route - Fuquay Varina Bypass)

From/Cross Street: NC 55 southeast of Fuquay-Varina **Specific Improvement Type: 5 - Construct Roadway on New Location**

To: US 401 north of Fuquay-Varina

Project Category: Regional Impact

Length: 8.41

TIP#: R-2609

Fully Funded in Draft STIP? No

Cost to NCDOT: \$108,093,000

Description:

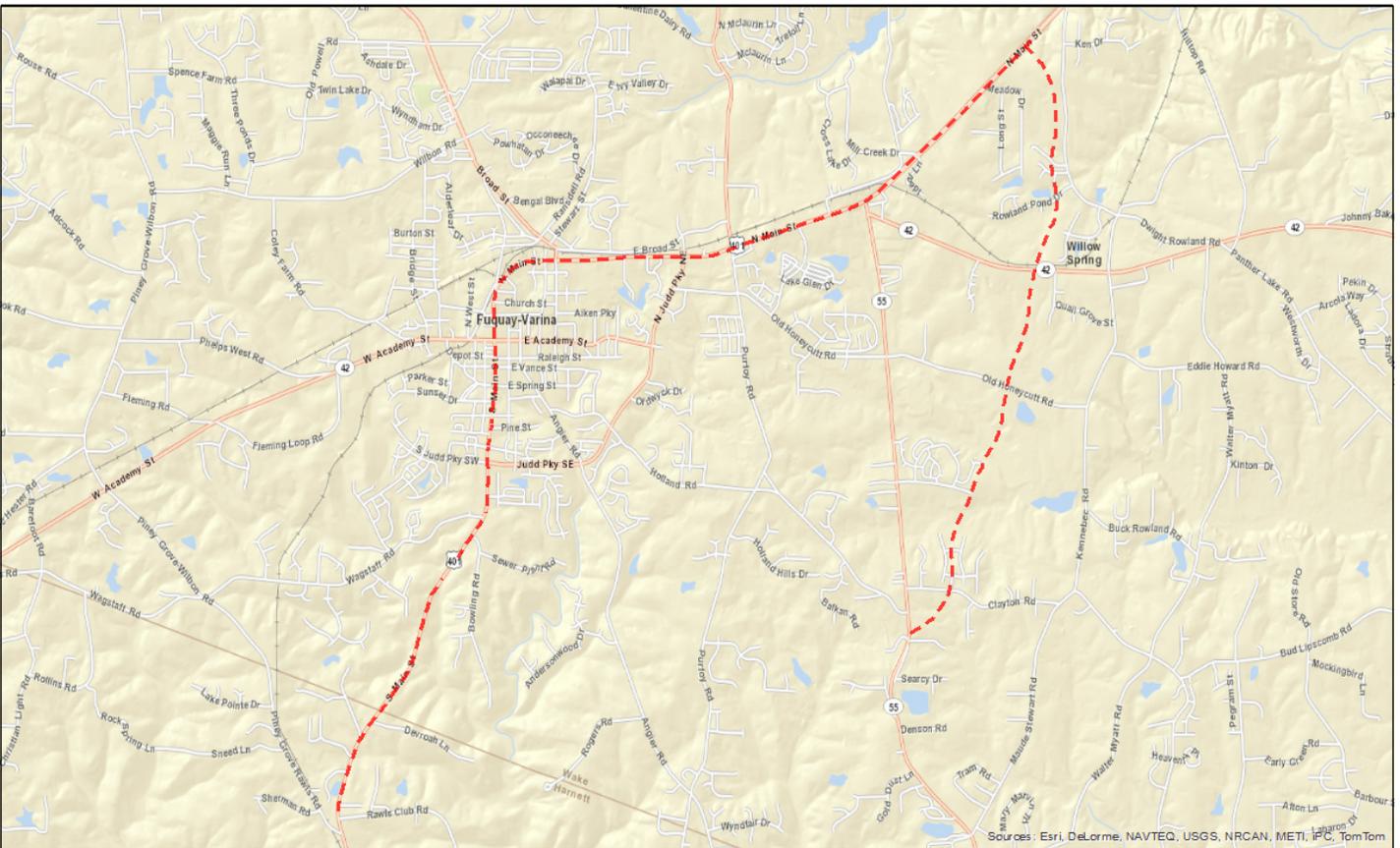
Construct Freeway on New Location

Division(s): Division 5

County(s): WAKE

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

Project Location



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

Statewide Mobility Total Score: 0

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

Regional Impact Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 50.39	Percent: 15% Points:	Percent: 15% Points:
Safety (10%) 65.63		
[Travel Time] Benefit/Cost (25%) 3.62		
Accessibility / Connectivity (10%) 63.53		
Totals: Weight: 70% Weighted Score: 26.42		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 50.39	Percent: 25% Points:	Percent: 25% Points:
Safety (10%) 65.63		
[Travel Time] Benefit/Cost (20%) 3.62		
Totals: Weight: 50% Weighted Score: 17.37		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	39
Length (miles);	7.3
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	2
Roadway has Curb & Gutter?	No
Volume (AADT):	16941.3
Capacity:	23304.89
Volume/Capacity Ratio:	0.73
% Autos:	95%
% Trucks:	5%
Truck Volume:	803.68
Crash Density:	73.95
Crash Severity:	56.12
Critical Crash Rate:	66.84
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	32
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	70
Actual Congested Speed:	36.44
Travel Time Index:	0.88

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	70
Length (miles):	8.41
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:	4
Travel Time Savings for 30 Years (Total):	33180426.39
Travel Time Savings for 30 Years (Autos):	31606367.28
Travel Time Savings for 30 Years (Trucks):	1574059.11
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
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:	\$74,369,000	Cost Estimation Tool
Right-of-Way Cost:	\$30,111,000	Cost Estimation Tool
Utilities Cost:	\$3,613,000	Cost Estimation Tool
Total Project Cost:	\$108,093,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$108,093,000	