



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H141642

Mode: Highway

Status: Submitted

US-401

From/Cross Street: NC 55

Specific Improvement Type: 7 - Upgrade At-grade Intersection to Interchange or Grade Separation

To:

Project Category: Regional Impact

Length: 2

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$7,130,000

Description:

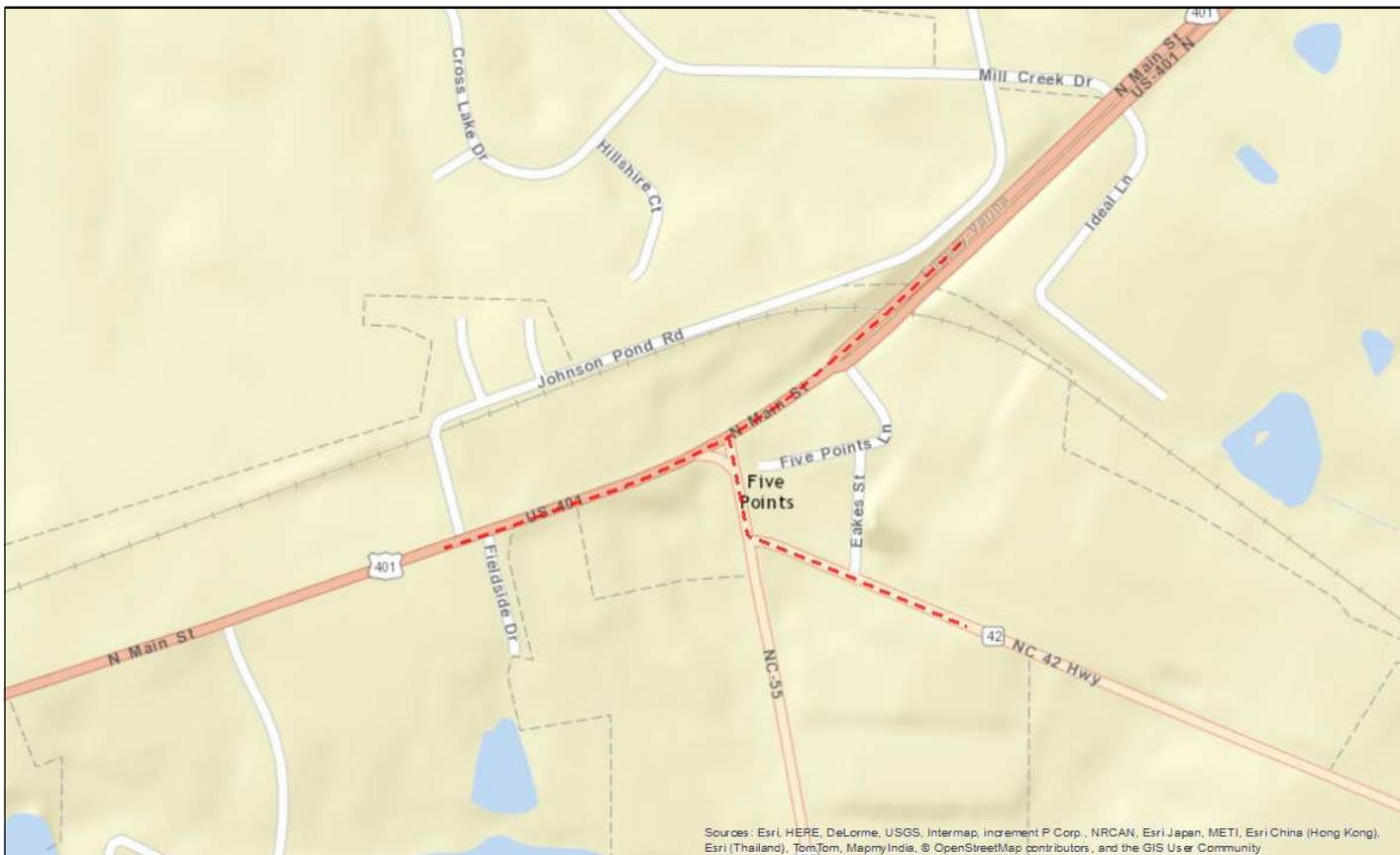
Construct a Trumpet interchange to replace the two existing at grade intersections. First intersection - US 401/NC 55/NC 42. Second intersection to south - NC 55 / NC 42.

Division(s): Division 5

County(s): WAKE

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

Project Location



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: 62.74

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 61.97	Percent: 15% Points: 84	Percent: 15% Points: 83
Safety (10%) 33.35		
Accessibility / Connectivity (10%) 100.00		
[Travel Time] Benefit/Cost (25%) 35.46		
Totals: Weight: 70% Weighted Score: 37.69		

Division Needs Total Score: 22.82

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 61.97	Percent: 25% Points: 0	Percent: 25% Points: 0
Safety (10%) 33.35		
[Travel Time] Benefit/Cost (20%) 35.46		
Totals: Weight: 50% Weighted Score: 22.82		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	38
Length (miles);	2
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?	No
Volume (AADT):	39929.09
Capacity:	52082
Volume/Capacity Ratio:	0.77
% Autos:	94%
% Trucks:	6%
Truck Volume:	2207.93
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:	32
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	81
Actual Congested Speed:	39.88
Travel Time Index:	0.88

Project Benefits

Project Cross-Section:	
Speed Limit:	55
Length (miles):	2
Facility Type:	Multi-Lane Highway
Access Control:	Limited
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):	11232000
Travel Time Savings for 30 Years (Autos):	10610913.19
Travel Time Savings for 30 Years (Trucks):	621086.81
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?	Yes
CTP/LRTP Name:	CAMPO 2040 MTP.
CTP/LRTP Completion Year:	2014
Submitted by:	Capital Area MPO

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 5	100%	84	0
	0%	0	0
	0%	0	0
TOTAL Division Points		84	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Capital Area MPO	100%	83	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		83	0

Project Cost and Source

Construction Cost:	\$5,750,000	Cost Estimation Tool
Right-of-Way Cost:	\$1,380,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$7,130,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$7,130,000	