



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H111280

Mode: Highway

Status: Submitted

NC-49

From/Cross Street: John Kirk Dr

Specific Improvement Type: 1 - Widen Existing Roadway

To: I-485

Project Category: Statewide Mobility

Length: 3.08

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$25,283,000

Description:

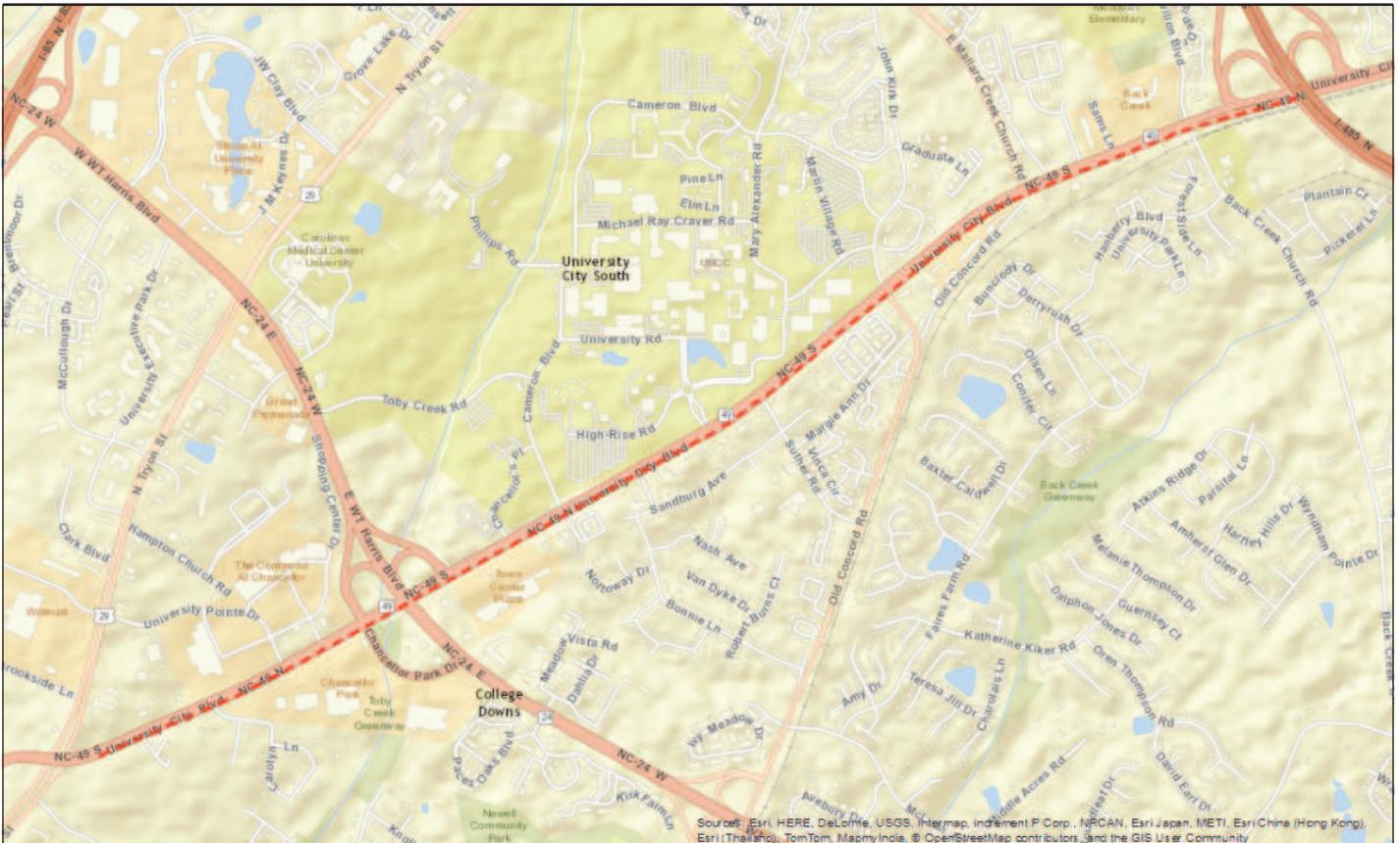
Widen Roadway to 6 Lanes with Median, Bike Lanes & Sidewalks. The intersection with Mallard Creek Church Rd will be reconstructed & lowered approximately 10' in order to accommodate clearance for the road extension under railroad. This will necessitate reconstruction of approximately 1700' of existing NC 49 & 1000' of existing SR 2833.

Division(s): Division 10

County(s): MECKLENBURG

MPOS(s)/RPO(s): Charlotte Regional Transportation Planning Organization

Project Location



Statewide Mobility Total Score: 34.14

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%)	76.06	N/A	N/A
Safety (10%)	53.62		
Economic Competitiveness (10%)	15.24		
Multimodal + [Freight & Military] (20%)	6.15		
[Travel Time] Benefit/Cost (30%)	10.69		
Totals: Weight: 100% Weighted Score: 34.14			

Regional Impact Total Score: 58.75

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%)	76.06	Percent: 15% Points: 100	Percent: 15% Points: 100
Safety (10%)	53.62		
[Travel Time] Benefit/Cost (25%)	10.69		
Accessibility / Connectivity (10%)	17.06		
Totals: Weight: 70% Weighted Score: 28.75			

Division Needs Total Score: 22.71

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%)	76.06	Percent: 25% Points: 0	Percent: 25% Points: 0
Safety (10%)	53.62		
[Travel Time] Benefit/Cost (20%)	10.69		
Totals: Weight: 50% Weighted Score: 22.71			

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	45
Length (miles):	3.08
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	33174.73
Capacity:	31700
Volume/Capacity Ratio:	1.05
% Autos:	96%
% Trucks:	4%
Truck Volume:	1230.32
Crash Density:	58.95
Crash Severity:	48.36
Critical Crash Rate:	53.56
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	23
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	97
Actual Congested Speed:	28.18
Travel Time Index:	1.55

Project Benefits

Project Cross-Section:	6A - 6 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	45
Length (miles):	3.08
Facility Type:	Arterial
Access Control:	Limited
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	12092845.69
Travel Time Savings for 30 Years (Autos):	11644370.78
Travel Time Savings for 30 Years (Trucks):	448474.91
Long-Term Employment:	180
% Change in Economy:	0.00012478
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 10

* 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 10	100%	100	0
	0%	0	0
	0%	0	0
TOTAL Division Points		100	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Charlotte Regional Transportation Planning Organization	100%	100	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	0

Project Cost and Source

Construction Cost:	\$23,963,000	TIP Unit
Right-of-Way Cost:	\$0	TIP Unit
Utilities Cost:	\$1,320,000	TIP Unit
Total Project Cost:	\$25,283,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$25,283,000	