



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H140273

Mode: Highway

Status: Submitted

I-77, US-21

From/Cross Street: I-277/US 74 (Belk Freeway) [Exit 9]

Specific Improvement Type: 1 - Widen Existing Roadway

To: I-277/NC 16 (Brookshire Freeway) [Exit 11]

Project Category: Statewide Mobility

Length: 1.8

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$336,110,000

Description:

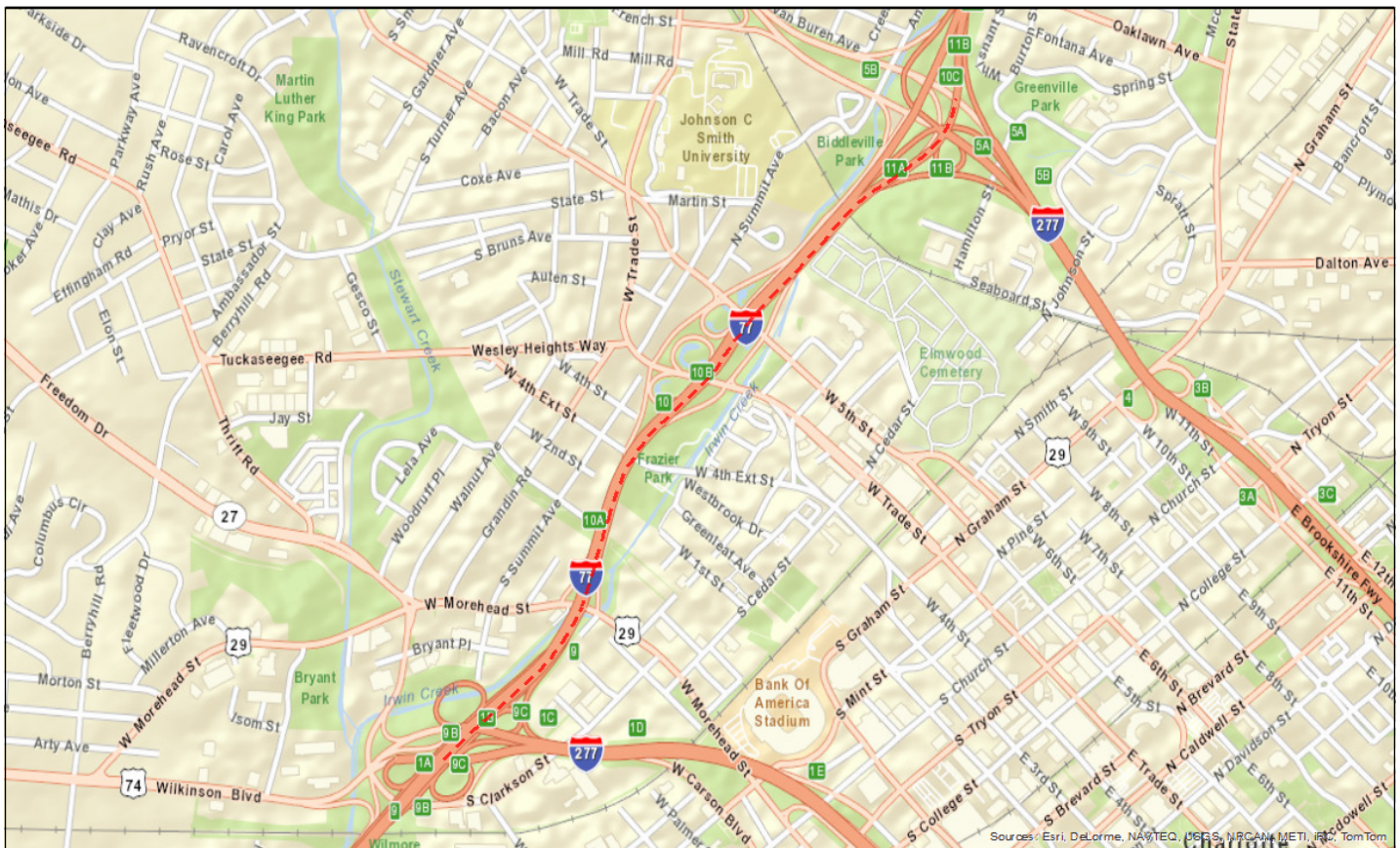
Widen existing freeway from eight lanes to ten lanes with interchange improvements. Interchanges proposed in uptown freeway loop study do not match selections in details section. See link below for zip file containing problem statement, concept drawing and cost estimate.

Division(s): Division 10

County(s): MECKLENBURG

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

Project Location



Statewide Mobility Total Score: 58.65

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%)	100.00	N/A	N/A
Safety (10%)	85.60		
Economic Competitiveness (10%)	80.96		
Multimodal + [Freight & Military] (20%)	54.02		
[Travel Time] Benefit/Cost (30%)	3.97		
Totals: Weight: 100% Weighted Score: 58.65			

Regional Impact Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%)	100.00	Percent: 15% Points:	Percent: 15% Points:
Safety (10%)	85.60		
[Travel Time] Benefit/Cost (25%)	3.97		
Accessibility / Connectivity (10%)	45.52		
Totals: Weight: 70% Weighted Score: 39.11			

Division Needs Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%)	100.00	Percent: 25% Points:	Percent: 25% Points:
Safety (10%)	85.60		
[Travel Time] Benefit/Cost (20%)	3.97		
Totals: Weight: 50% Weighted Score: 29.35			

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles):	1.8
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):	136564.14
Capacity:	108700
Volume/Capacity Ratio:	1.26
% Autos:	92%
% Trucks:	8%
Truck Volume:	10804.49
Crash Density:	99.78
Crash Severity:	57.28
Critical Crash Rate:	99.78
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	18
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	66
Actual Congested Speed:	50.29
Travel Time Index:	1.09

Project Benefits

Project Cross-Section:	10A - 10 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders)
Speed Limit:	55
Length (miles):	1.8
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Interstate
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	58760925.1
Travel Time Savings for 30 Years (Autos):	54111959.99
Travel Time Savings for 30 Years (Trucks):	4648965.11
Long-Term Employment:	961.15
% Change in Economy:	0.000658
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	Yes
CTP/LRTP Name:	2040 Metropolitan Transportation Plan
CTP/LRTP Completion Year:	2014
Submitted by:	Charlotte Regional Transportation Planning Organization

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

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 10	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

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

Project Cost and Source

Construction Cost:	\$290,000,000	TIP Unit
Right-of-Way Cost:	\$60,000,000	TIP Unit
Utilities Cost:	\$500,000	TIP Unit
Total Project Cost:	\$350,500,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$336,110,000	