



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090370

Mode: Highway

Status: Submitted

US-52

From/Cross Street: South of I-40

Specific Improvement Type: 1 - Widen Existing Roadway

To: Winston-Salem Northern Beltway

Project Category: Statewide Mobility

Length: 12.99

TIP#: U-2826

Fully Funded in Draft STIP? No

Cost to NCDOT: \$499,813,000

Description:

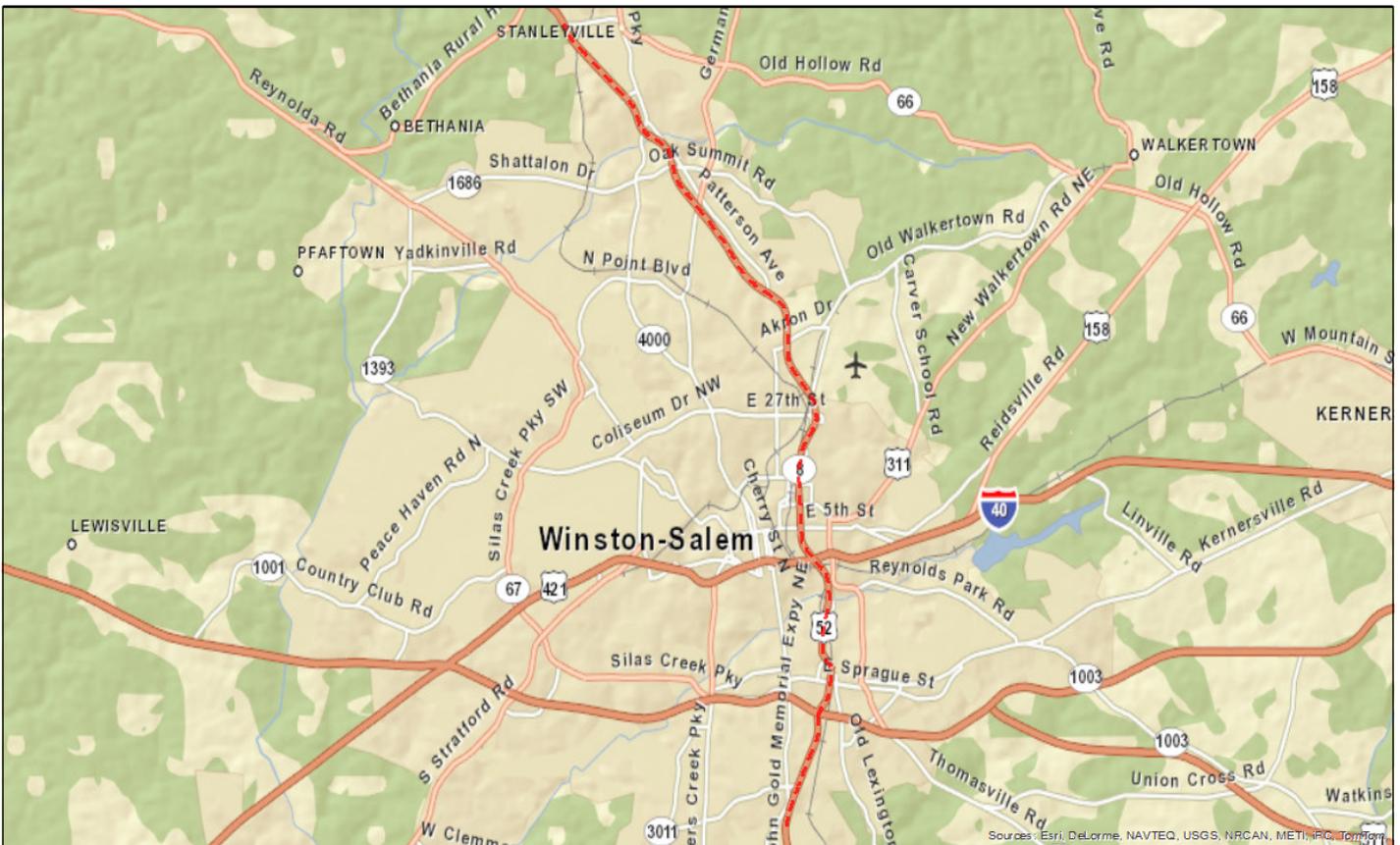
Add Additional Lanes.

Division(s): Division 9

County(s): FORSYTH

MPOS(s)/RPO(s): Winston Salem Urban Area MPO

Project Location



Statewide Mobility Total Score: 40.96

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%)	69.78	N/A	N/A
Safety (10%)	71.46		
Economic Competitiveness (10%)	36.80		
Multimodal + [Freight & Military] (20%)	44.82		
[Travel Time] Benefit/Cost (30%)	0.78		
Totals: Weight: 100% Weighted Score: 40.96			

Regional Impact Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Accessibility / Connectivity (10%)	18.93	Percent: 15% Points:	Percent: 15% Points:
Safety (10%)	71.46		
Congestion (V/C) (25%)	69.78		
[Travel Time] Benefit/Cost (25%)	0.78		
Totals: Weight: 70% Weighted Score: 26.68			

Division Needs Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (20%)	0.78	Percent: 25% Points:	Percent: 25% Points:
Congestion (V/C) (20%)	69.78		
Safety (10%)	71.46		
Totals: Weight: 50% Weighted Score: 21.26			

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	57
Length (miles);	12.99
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial- Other Freeway
Terrain Type:	Rolling
Lane Width:	11
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	56793.99
Capacity:	72400.91
Volume/Capacity Ratio:	0.78
% Autos:	91%
% Trucks:	9%
Truck Volume:	5042.1
Crash Density:	77.87
Crash Severity:	68.91
Critical Crash Rate:	67.64
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	19
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	69
Actual Congested Speed:	52.38
Travel Time Index:	1.05

Project Benefits

Project Cross-Section:	6B - 6 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders)
Speed Limit:	57
Length (miles):	12.99
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:	10
Travel Time Savings for 30 Years (Total):	17168966.27
Travel Time Savings for 30 Years (Autos):	15644727.62
Travel Time Savings for 30 Years (Trucks):	1524238.65
Long-Term Employment:	289.67
% Change in Economy:	0.00044627
Provides Direct Connection to Transportation Terminal?	Yes
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 9

* 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 9	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Winston Salem Urban Area MPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$440,735,000	Cost Estimation Tool
Right-of-Way Cost:	\$52,748,000	Cost Estimation Tool
Utilities Cost:	\$6,330,000	Cost Estimation Tool
Total Project Cost:	\$499,813,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$499,813,000	