



# NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090142-A

Mode: Highway

Status: Submitted

## US-158

From/Cross Street: Multi-Lanes North of US 421/I-40 Business

Specific Improvement Type: 1 - Widen Existing Roadway

To: SR 1965 (Belews Creek Road)

Project Category: Statewide Mobility

Length: 5.2

TIP#: R-2577A

Fully Funded in Draft STIP? No

Cost to NCDOT: \$35,208,000

### Description:

Widen to Multi-Lanes.

Division(s): Division 9

County(s): FORSYTH

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

### Project Location



**Statewide Mobility Total Score: 36.98**

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Multimodal + [Freight & Military] (20%)	9.26	N/A	N/A
[Travel Time] Benefit/Cost (30%)	12.33		
Congestion (V/C) (30%)	67.30		
Safety (10%)	71.94		
Economic Competitiveness (10%)	40.48		
<b>Totals: Weight: 100% Weighted Score: 36.98</b>			

**Regional Impact Total Score: 61.54**

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%)	67.30	Percent: 15% Points: 100	Percent: 15% Points: 100
Safety (10%)	71.94		
[Travel Time] Benefit/Cost (25%)	12.33		
Accessibility / Connectivity (10%)	44.40		
<b>Totals: Weight: 70% Weighted Score: 31.54</b>			

**Division Needs Total Score: 23.12**

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%)	67.30	Percent: 25% Points: 0	Percent: 25% Points: 0
Safety (10%)	71.94		
[Travel Time] Benefit/Cost (20%)	12.33		
<b>Totals: Weight: 50% Weighted Score: 23.12</b>			

**Project Data \*****Existing Conditions**

Existing Cross-Section:	
Speed Limit:	50
Length (miles):	5.2
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):	16458.6
Capacity:	16264.42
Volume/Capacity Ratio:	1.01
% Autos:	89%
% Trucks:	11%
Truck Volume:	1851.6
Crash Density:	76.54
Crash Severity:	80.85
Critical Crash Rate:	58.47
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):	Undivided
Pavement Condition Rating:	75
Actual Congested Speed:	44.98
Travel Time Index:	1.1

**Project Benefits**

Project Cross-Section:	4C - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, and Sidewalks
Speed Limit:	45
Length (miles):	5.2
Facility Type:	Multi-Lane Highway
Access Control:	Partial
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):	18851309.35
Travel Time Savings for 30 Years (Autos):	16730532.56
Travel Time Savings for 30 Years (Trucks):	2120776.79
Long-Term Employment:	318
% Change in Economy:	0.00049154
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 9

\* 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 9	100%	100	0
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>100</b>	<b>0</b>

**MPO/RPO**

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

**Project Cost and Source**

Construction Cost:	\$24,100,000	TIP Unit
Right-of-Way Cost:	\$7,800,000	TIP Unit
Utilities Cost:	\$3,308,000	TIP Unit
Total Project Cost:	\$35,208,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$35,208,000</b>	