



# NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090076-B

Mode: Highway

Status: Submitted

## (New Route - Winston-Salem Northern Beltway Western Section)

From/Cross Street: South of I-40

Specific Improvement Type: 5 - Construct Roadway on New Location

To: South of US 421

Project Category: Statewide Mobility

Length: 14.8

TIP#: R-2247B

Fully Funded in Draft STIP? No

Cost to NCDOT: \$67,824,000

### Description:

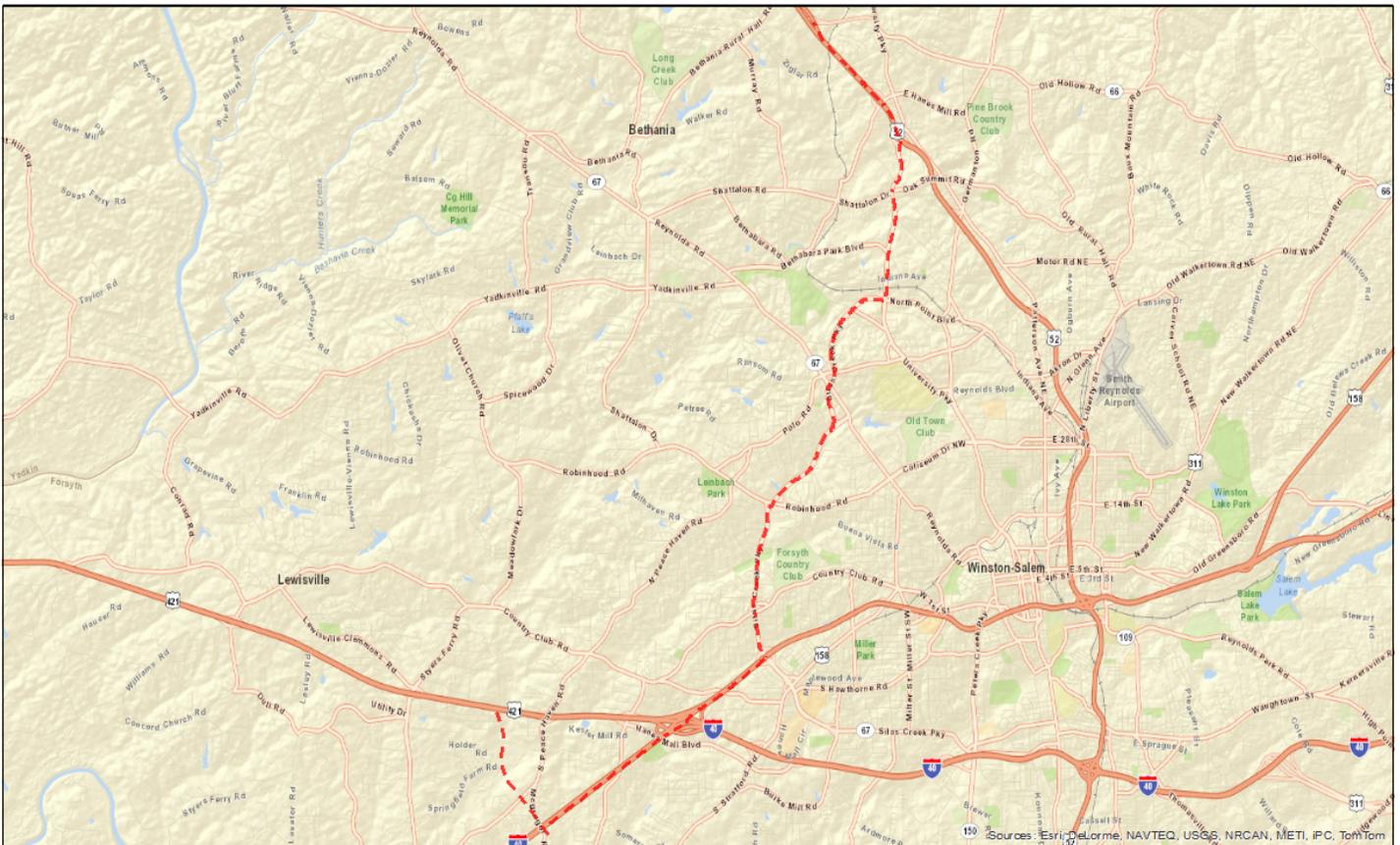
Construct Freeway on New Location.

Division(s): Division 9

County(s): FORSYTH

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

### Project Location



**Statewide Mobility Total Score: 43.52**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (30%) 68.55	N/A	N/A
Safety (10%) 63.95		
[Travel Time] Benefit/Cost (30%) 9.65		
Economic Competitiveness (10%) 100.00		
Multimodal + [Freight & Military] (20%) 18.32		
<b>Totals: Weight: 100% Weighted Score: 43.52</b>		

**Regional Impact Total Score: 0**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Safety (10%) 63.95	Percent: 15% Points:	Percent: 15% Points:
[Travel Time] Benefit/Cost (25%) 9.65		
Accessibility / Connectivity (10%) 100.00		
Congestion (V/C) (25%) 68.55		
<b>Totals: Weight: 70% Weighted Score: 35.95</b>		

**Division Needs Total Score: 0**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (20%) 68.55	Percent: 25% Points:	Percent: 25% Points:
Safety (10%) 63.95		
[Travel Time] Benefit/Cost (20%) 9.65		
<b>Totals: Weight: 50% Weighted Score: 22.04</b>		

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

Existing Cross-Section:	
Speed Limit:	53
Length (miles);	12.6
Facility Type:	Arterial
Access Control:	Limited
Functional Classification:	Other Principal Arterial- Other Freeway
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	45924.96
Capacity:	54911.11
Volume/Capacity Ratio:	0.84
% Autos:	92%
% Trucks:	8%
Truck Volume:	3663.96
Crash Density:	66.02
Crash Severity:	65.62
Critical Crash Rate:	60.22
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:	89
Actual Congested Speed:	49.53
Travel Time Index:	0.91

**Project Benefits**

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	65
Length (miles):	14.8
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):	104974681.68
Travel Time Savings for 30 Years (Autos):	96599654.87
Travel Time Savings for 30 Years (Trucks):	8375026.81
Long-Term Employment:	1763
% Change in Economy:	0.00278338
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 On!line tool and associated databases.

**Project Ownership****Division**

<b>Division</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Division 9	100%	0	0
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>0</b>	<b>0</b>

**MPO/RPO**

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

**Project Cost and Source**

Construction Cost:	\$51,200,000	TIP Unit
Right-of-Way Cost:	\$16,624,000	TIP Unit
Utilities Cost:	\$0	TIP Unit
Total Project Cost:	\$67,824,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$67,824,000</b>	