

NCDOT Prioritization 4.0 Project Summary

SPOT ID: H111011 Mode: Highway Status: Draft

NC-751 (Hope Valley Road)

From/Cross Street: NC 54 Specific Improvement Type: 1 - Widen Existing Roadway

To: Southpoint Auto Park Blvd Project Category: Regional Impact

Length: 0.73 TIP#: HoldTank

Fully Funded in Draft STIP? No

Cost to NCDOT: \$9,644,000

Description:

Widen Roadway to Four Lanes with a Median with Bicycle, Pedestrian and Transit Facilities As Appropriate.

Division(s): Division 5 **County(s):** DURHAM

MPOS(s)/RPO(s): Durham Chapel Hill Carrboro MPO

Project Location



SPOT ID: H111011

Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Points	MPO/RPO Points
	N/A	N/A
Totals: Weight: 0% Weighted Score: 0		

Regional Impact Total Score: 0

Quantitative Score		Division Engineer Points	MPO/RPO Points
Safety (10%) Accessibility / Connectivity (10%) Congestion REG (20%) Freight (10%) Benefit-Cost SW & REG (20%) Totals: Weight: 70% Weighted Score: 0	In Progress In Progress In Progress In Progress In Progress	Percent: 15% Points:	Percent: 15% Points:

Division Needs Total Score: 0

Quantitative Score		Division Engineer Points	MPO/RPO Points
Safety (10%) Accessibility / Connectivity (5%) Congestion DIV (15%) Freight (5%) Benefit-Cost DIV (15%) Totals: Weight: 50% Weighted Score: 0	In Progress In Progress In Progress In Progress In Progress	Percent: 25% Points:	Percent: 25% Points:

Criteria measures

Creiteria	Measure	Raw Value	Scaled value	Creiteria	Measure
	Volume/Capacity (SW 60%, REG 80%, DIV	0.95		Accessibility /	County Economic Ind
Congestion	100%) Volume (SW 40%, REG	16000		Connectivity	Upgrade Roadway Ti Savings (50%)
	20%, DIV 0%)				Truck Volume (50%)
Benefit-Cost (SW/REG)	Benefit/Cost SW/REG (100%)			Volume/Capacity Interstate STRAI	
Benefit-Cost	Benefit/Cost DIV (100%)			Freight	Interstate (30%)
(DIV)	Crash Density (33%)	100		Distance to Fre	Distance to Freight To (20%)
Safety	Crash Severity (33%)	66.7		Distance to Multin (60%)	Distance to Multimod
(Segments)	Critical Crash Rate (33%)	64.2			<u>`</u>
Safety	Crash Frequency (50%)			Volume/Capacity Multimodal Termi	
(Intersections)	Severity Index (50%)			Lane Width	Lane Width Differenc
Economic Competitiveness	%Change in Economy (50%)			Shoulder Width	Paved Shoulder Widt Difference (100%)
Competitiveness	Long-term Jobs (50%)			Pavement Condition	Pavement Condition (100%)

Creiteria	Measure	Raw Value	Scaled value
Accessibility /	County Economic Indicator (50%)	337	
Connectivity	Upgrade Roadway Travel Time Savings (50%)		
	Truck Volume (50%)	278.4	
Freight	Volume/Capacity on Non- Interstate STRAHNET or Future Interstate (30%)		
	Distance to Freight Terminal (20%)	9.23	
Multimodal	Distance to Multimodal Terminal (60%)	6.19	
Multimodal	Volume/Capacity on Route near Multimodal Terminal (40%)		
Lane Width	Lane Width Difference (100%)	0	
Shoulder Width	Paved Shoulder Width Difference (100%)	2	
Pavement Condition	Pavement Condition Rating (100%)	86	

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Project Data*

Existing Conditions

2 Lane Undivided Existing Cross-Section: 45 Speed Limit (mph): 0.73 Length (miles): Arterial Facility Type: None Access Control: Functional Classification: Minor Arterial Terrain Type: Rolling Lane Width (ft): 12 Paved Shoulder Width (ft): 2 Roadway has Curb & Gutter? No Volume (AADT): 16000 Volume (PADT): 16000 Peak ADT (PADT) Factor: Capacity (vpd): 16784.04 0.95 Volume (PADT)/Capacity Ratio: 98% % Autos: % Trucks: 2% 278.4 Truck Volume (AADTT): 100 Crash Density (seg): Crash Severity (seg): 66.7 64.2 Critical Crash Rate (seg): Crash Frequency (int): Severity Index (int): Adjusted Property Tax Base Per Capita Rank: Population Growth Rank: Median Household Income Rank: 12 Month Average Unemployment Rate Rank: Sum County Rank: 337 Non-Interstate STRAHNET Route? No No Future Interstate Route? 86 Pavement Condition Rating:

Project Benefits

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* 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 Points	Division Needs Points
Division 5	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact Points	Division Needs Points
Durham Chapel Hill Carrboro MPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Cost to NCDOT :	\$9,644,000	
Other Funding:	\$0	None
Total Project Cost:	\$9,644,000	
Utilities Cost:	\$241,000	Cost Estimation Tool
Right-of-Way Cost:	\$2,012,000	Cost Estimation Tool
Construction Cost:	\$7,391,000	Cost Estimation Tool