

# **NCDOT Prioritization 4.0 Project Summary**

SPOT ID: H150227 Mode: Highway Status: Draft

## NC-751, SR-1731 (O'Kelly Chapel Road)

From/Cross Street: SR 1731 O'Kelly Chapel Road Specific Improvement Type: 10 - Improve Intersection

To: Project Category: Regional Impact

Length: 0.5

#### Fully Funded in Draft STIP? No

**Cost to NCDOT:** \$480,000

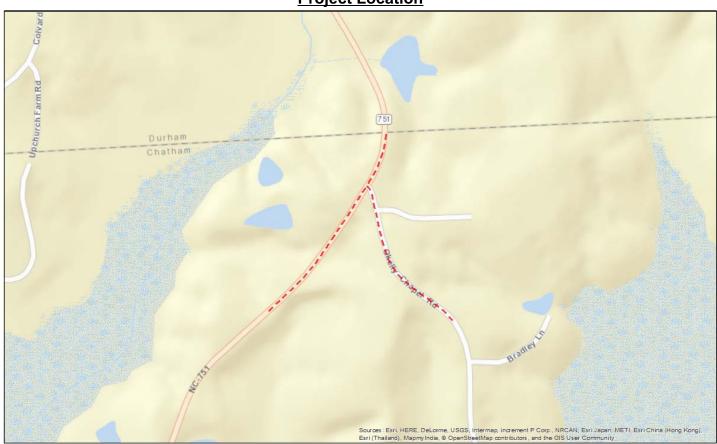
#### **Description:**

Improve existing at-grade, skewed intersection. The existing alignment for this intersection makes turning from northbound NC 751 on to O'Kelly Chapel Road very difficult and unsafe for people who are not familiar with navigating the intersection. Turning from westbound O'Kelly Chapel Road to southbound NC 751 is also difficult and unsafe. Turn lanes and realignment of this skewed intersection would improve travel time for people using the turn lanes and would improve safety for everyone.

**Division(s):** Division 8 **County(s):** CHATHAM

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

## **Project Location**



# **SPOT ID**: H150227

Scaled value

# Statewide Mobility Total Score: 0

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

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

## **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**

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Creiteria	Measure	Raw Value	Scaled value	Creiteria	Measure	Raw Value
	Volume/Capacity (SW 60%, REG 80%, DIV	0.55		Accessibility /	County Economic Indicator (50%)	371
Congestion	100%) Volume (SW 40%, REG	17186.14		Connectivity	Upgrade Roadway Travel Time Savings (50%)	
	20%, DIV 0%)				Truck Volume (50%)	596.57
Benefit-Cost (SW/REG)	Benefit/Cost SW/REG (100%)			l Fortile	Volume/Capacity on Non- Interstate STRAHNET or Future	
Benefit-Cost	Benefit/Cost DIV (100%)			Freight	Interstate (30%)	
(DIV)	Crash Density (33%)	33.3			Distance to Freight Terminal (20%)	7.69
Safety	Crash Severity (33%)	0			Distance to Multimodal Terminal	5.95
(Segments)	Critical Crash Rate (33%)	33.3		Multimodal	(60%)	
Safety	Crash Frequency (50%)			Mailimodal	Volume/Capacity on Route near Multimodal Terminal (40%)	
(Intersections)	Severity Index (50%)			Lane Width	Lane Width Difference (100%)	0
Economic	%Change in Economy (50%)			Shoulder Width	Paved Shoulder Width Difference (100%)	0
Competitiveness	Long-term Jobs (50%)			Pavement Condition	Pavement Condition Rating (100%)	99

### **Project Data\***

#### **Existing Conditions**

#### Existing Cross-Section: 2 Lane Undivided 55 Speed Limit (mph): 0.5 Length (miles): Two Lane Highway Facility Type: Access Control: None Functional Classification: Major Collector Terrain Type: Rolling Lane Width (ft): 12 6 Paved Shoulder Width (ft): Roadway has Curb & Gutter? No Volume (AADT): 16036.71 Volume (PADT): 17186.14 Peak ADT (PADT) Factor: 1.07 31087.77 Capacity (vpd): Volume (PADT)/Capacity Ratio: 0.55 % Autos: 96% % Trucks: 4% 596.57 Truck Volume (AADTT): 33.3 Crash Density (seg): Crash Severity (seg): Critical Crash Rate (seg): 33.3 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: 371 Non-Interstate STRAHNET Route? No No Future Interstate Route? 99

Pavement Condition Rating:

#### **Project Benefits**

**SPOT ID:** H150227

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Project Cross-Section:	
Speed Limit (mph):	50
Length (miles):	0.5
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Major Collector
TerrainType:	Rolling
DOT Design Lane Width (ft):	12
DOT Design Paved Shoulder Width (ft):	4
Travel Time Savings for 10 Years (NCSTM) - SW/REG:	0
Travel Time Savings in \$ (NCSTM) - SW/REG:	
Travel Time Savings for 10 Years (CALC) - DIV:	
Travel Time Savings in \$ (CALC) – DIV:	
Safety Benefits in \$:	
Long-Term Employment:	
% Change in Economy:	
Nearest Freight Terminal:	Raleigh-Durham International Airport
Distance to Freight Terminal (miles):	7.69
Nearest Multimodal Passenger Terminal :	Triangle Transit Regional Transit Center
Distance to Multimodal Terminal (miles):	5.95
Does project upgrade how the roadway functions?	No
Travel Time Savings/User:	
In CTP or LRTP?	Yes
CTP/LRTP Name:	DCHC MPO 2040 MTP
CTP/LRTP Completion Year:	2013
Submitted by:	Durham Chapel Hill Carrboro MPO

<sup>\*</sup> 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**

**SPOT ID:** H150227

Division	Percent	Regional Impact Points	Division Needs Points
Division 8	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**

Construction Cost:	\$390,000	Cost Estimation Tool
Right-of-Way Cost:	\$90,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$480,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$480,000	