



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090717

Mode: Highway

Status: Submitted

US-421 (Carolina Beach Road)

From/Cross Street: NC 132

Specific Improvement Type: 1 - Widen Existing Roadway

To: Sanders Road

Project Category: Regional Impact

Length: 1.03

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$9,574,000

Description:

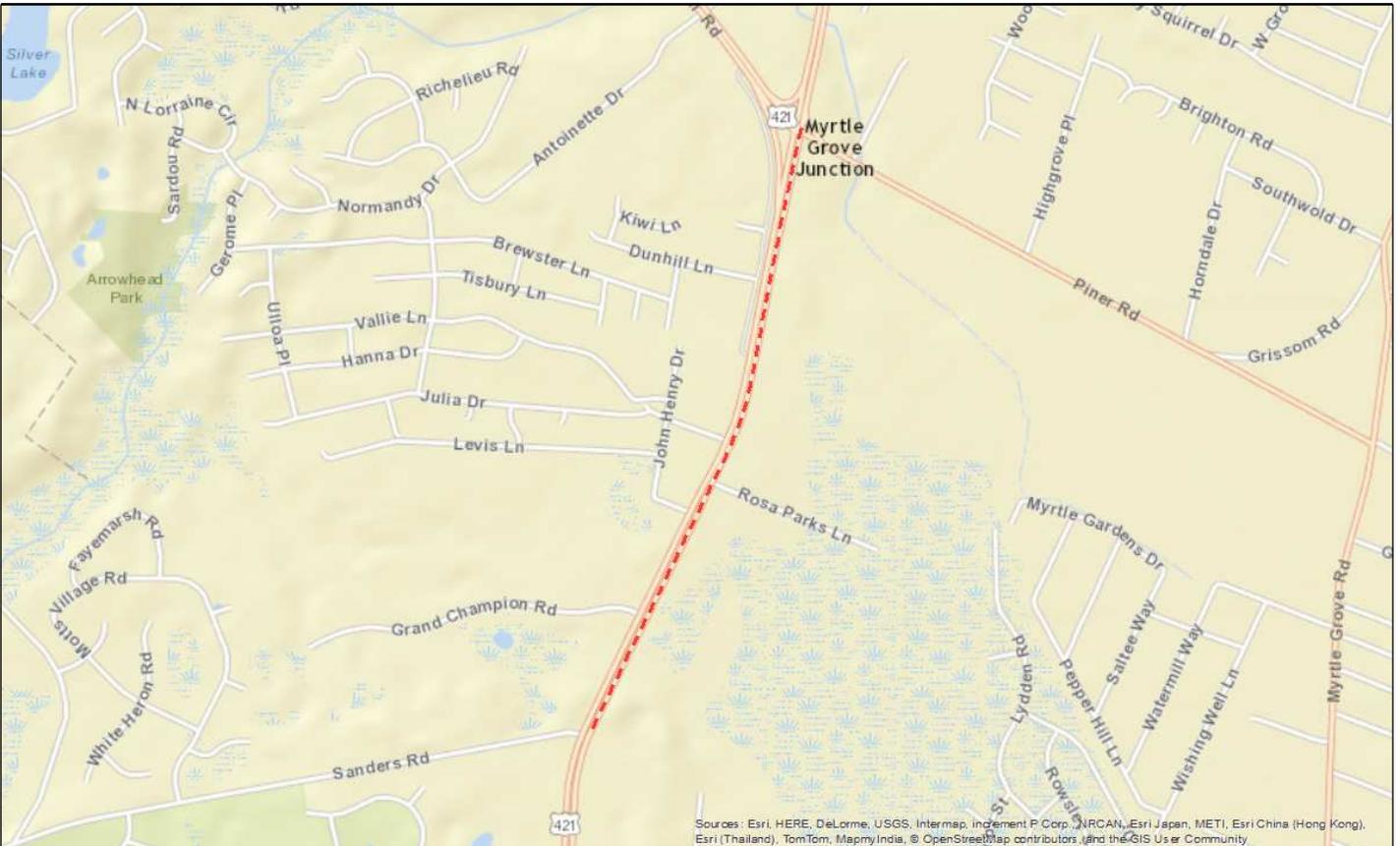
Widen Carolina Beach Road from Sanders Road to College Road/NC 132/Piner Road

Division(s): Division 3

County(s): NEW HANOVER

MPOS(s)/RPO(s): Wilmington Urban Area MPO

Project Location



Statewide Mobility Total Score: 0

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

Regional Impact Total Score: 22.38

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (25%) 79.10	Percent: 15% Points: 0	Percent: 15% Points: 0
Multimodal + [Freight & Military] (25%) 4.95		
[Travel Time] Benefit/Cost (20%) 6.85		
Totals: Weight: 70% Weighted Score: 22.38		

Division Needs Total Score: 58.74

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 87.12	Percent: 25% Points: 100	Percent: 25% Points: 0
Safety (20%) 79.10		
Multimodal + [Freight & Military] (10%) 4.95		
Totals: Weight: 50% Weighted Score: 33.74		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles):	1.03
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
Lane Width:	12
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	No
Volume (AADT):	38000.13
Capacity:	31700.11
Volume/Capacity Ratio:	1.2
% Autos:	97%
% Trucks:	3%
Truck Volume:	990.01
Crash Density:	99.81
Crash Severity:	37.73
Critical Crash Rate:	99.81
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:	74
Actual Congested Speed:	41.81
Travel Time Index:	1.32

Project Benefits

Project Cross-Section:	6F - 6 Lane Divided (17'-6" Raised Median) with Curb & Gutter, Wide Outside Lanes, and Sidewalks
Speed Limit:	45
Length (miles):	1.03
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	2949187.95
Travel Time Savings for 30 Years (Autos):	2872353.59
Travel Time Savings for 30 Years (Trucks):	76834.36
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 3

* 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 3	100%	0	100
	0%	0	0
	0%	0	0
TOTAL Division Points		0	100

MPO/RPO

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

Project Cost and Source

Construction Cost:	\$7,866,000	TIP Unit
Right-of-Way Cost:	\$1,525,000	Cost Estimation Tool
Utilities Cost:	\$183,000	Cost Estimation Tool
Total Project Cost:	\$9,574,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$9,574,000	