



# NCDOT Prioritization 3.0 Project Summary

SPOT ID: H140195

Mode: Highway

Status: Submitted

## I-77, SR-2136 (Gilead Road)

From/Cross Street: SR 2136 (Gilead Road)

Specific Improvement Type: 8 - Improve Interchange

To:

Project Category: Statewide Mobility

Length: 2

TIP#:

Fully Funded in Draft STIP? Yes Statewide Mobility

Cost to NCDOT: \$10,439,000

### Description:

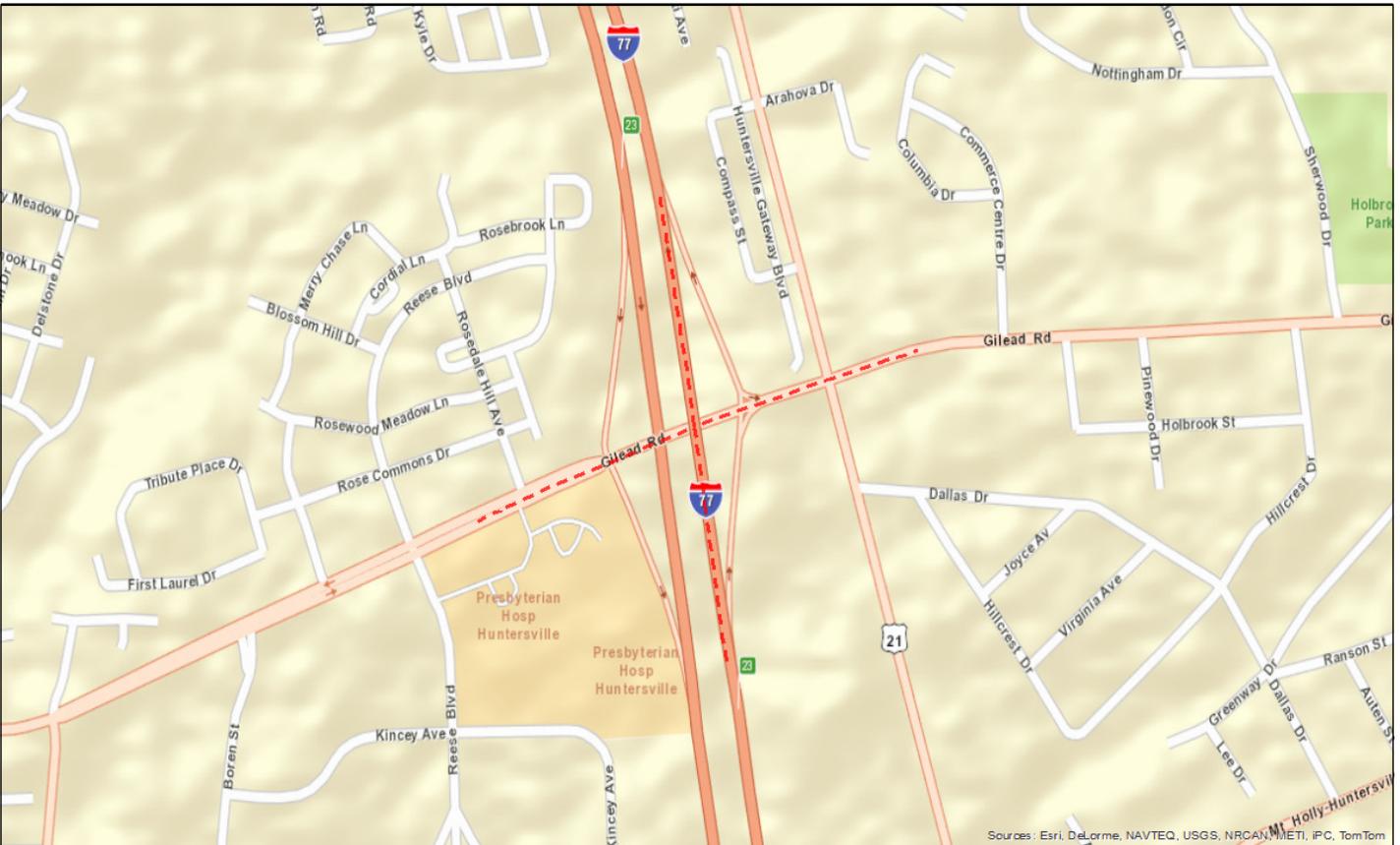
Upgrade existing diamond interchange to a diverging diamond interchange with improvements to include bicycle lanes and sidewalks. Interchange congestion is affecting main line operations. Local destination traffic needs to be removed from regional traffic.

Division(s): Division 10

County(s): MECKLENBURG

MPOS(s)/RPO(s): Charlotte Regional Transportation Planning Organization

### Project Location



Sources: Esri, DeLorme, NAVTEQ, USGS, NRCAN, MI, IETI, IPC, TomTom

**Statewide Mobility Total Score: 82.89**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (30%) 100.00 Safety (10%) 50.00 Economic Competitiveness (10%) 69.02 Multimodal + [Freight & Military] (20%) 54.96 [Travel Time] Benefit/Cost (30%) 100.00	N/A	N/A
<b>Totals: Weight: 100% Weighted Score: 82.89</b>		

**Regional Impact Total Score: 0**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (25%) 100.00 Safety (10%) 50.00 [Travel Time] Benefit/Cost (25%) 100.00 Accessibility / Connectivity (10%) 51.21	Percent: 15% Points:	Percent: 15% Points:
<b>Totals: Weight: 70% Weighted Score: 60.12</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%) 100.00 Safety (10%) 50.00 [Travel Time] Benefit/Cost (20%) 100.00	Percent: 25% Points:	Percent: 25% Points:
<b>Totals: Weight: 50% Weighted Score: 45</b>		

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

Existing Cross-Section:	
Speed Limit:	65
Length (miles);	2
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Interstate
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	10
Roadway has Curb & Gutter?	No
Volume (AADT):	123626.98
Capacity:	88197.55
Volume/Capacity Ratio:	1.4
% Autos:	91%
% Trucks:	9%
Truck Volume:	10992.65
Crash Density:	0
Crash Severity:	0
Critical Crash Rate:	0
Crash Frequency:	100
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	25
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	75
Actual Congested Speed:	30.73
Travel Time Index:	1.14

**Project Benefits**

Project Cross-Section:	
Speed Limit:	65
Length (miles):	2
Facility Type:	Freeway
Access Control:	Limited
Functional Classification:	Interstate
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	50265000
Travel Time Savings for 30 Years (Autos):	45795541.85
Travel Time Savings for 30 Years (Trucks):	4469458.15
Long-Term Employment:	819
% Change in Economy:	0.00056136
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	Yes
CTP/LRTP Name:	2040 Metropolitan Transportation Plan
CTP/LRTP Completion Year:	2014
Submitted by:	Charlotte Regional Transportation Planning Organization

\* 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 10	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>
Charlotte Regional Transportation Planning Organization	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:	\$10,439,000	TIP Unit
Right-of-Way Cost:	\$0	TIP Unit
Utilities Cost:	\$0	TIP Unit
Total Project Cost:	\$10,439,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$10,439,000</b>	