

Spot Safety Project Evaluation

Project Information

Order ID: 41000029992

Project ID: 12-07-215

Location: SR 1551- Scotts Creek Rd at SR 1645- Old Wilkesboro Rd

County: Iredell

City: Statesville

Division: 12

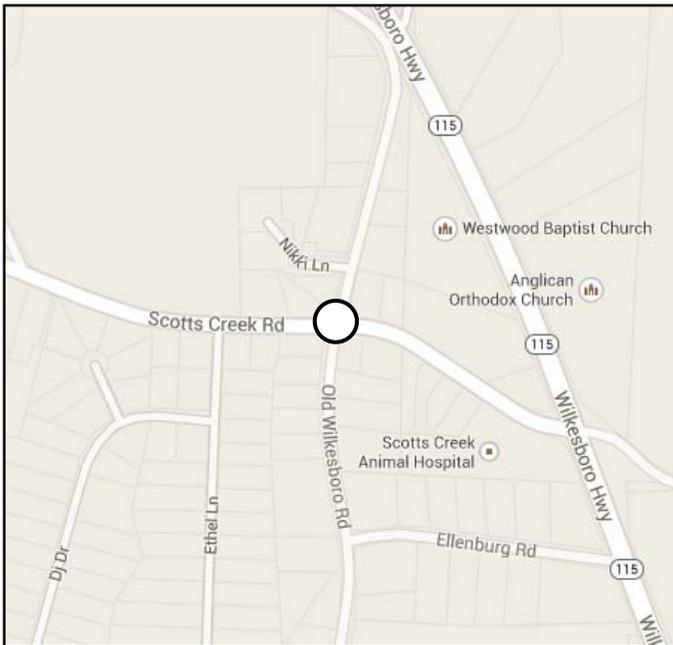
Signal ID: 12-1765

Countermeasure: Install standard flasher.

Project Completion: January 11, 2010

Project Cost: \$16,000

Map and Aerial (from Google Maps – Coordinates: 35.829365, -80.921955)



Naive Before and After Analysis

- Before Period: December 1, 2005 through November 30, 2009 (4 years)
- Const. Period: December 1, 2009 through January 31, 2010
- After Period: February 1, 2010 through January 31, 2014 (4 years)
- Analysis Criteria: Treatment data consisted of all crashes within 150 feet of the subject intersection for SR 1551 and SR 1645.
- Target Crashes: Frontal impact crashes were the target crashes for the applied countermeasure. Frontal impact crash types are: Left turn, same roadway; Left turn different roadways; Right turn, same roadway; Right turn, different roadways; Head on: and Angle.

<u>Treatment Information</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Total Crashes	13	7	- 46.0 %
Total Severity Index	10.25	4.17	- 59.3 %
Target Crashes	13	7	- 46.0 %
Target Crash Severity Index	10.25	4.17	- 59.3 %
Volume (2008, 2012)	4,900	4,800	- 2.0 %

<u>Injury Crash Summary</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Fatal injury Crashes	1	0	-100.0 %
Class A injury Crashes	0	0	N/A
Class B injury Crashes	1	2	+ 100.0 %
Class C Injury Crashes	5	1	- 80.0 %
Property Damage Only	6	4	- 33.3 %

Overall Summary Results

Total Crashes:	- 46 %	(reduction)
Total Crash Severity:	- 59 %	(reduction)
Target Crashes:	- 46 %	(reduction)
Target Crash Severity:	- 59 %	(reduction)
Volume:	- 2 %	(reduction)

Items for Discussion/Concerns

None.

Data Prepared For

The Traffic Safety Unit *of the*
Transportation Mobility and Safety Division *of the*
Division of Highways *of the*
North Carolina Department of Transportation

Data Prepared By

Principal Investigator: Marcus Cater, Summer Engineering Assistant
Checked By: Brad Robinson, PE
Work Group/Consultant: NCDOT - Safety Evaluation Group
Date: July 24, 2014

SS# 12-07-215
 Order# 41000029992
 Iredell County
 BEFORE Period
 12/1/05 - 11/30/09

ADT (Year)
 430 (2008)

SR 1645 (Old
 Wilkesboro Road)

SR 1551 (Scotts
 Creek Road)

Note: Crash #13 was traveling west
 on SR 1551 and disregarded
 the stop sign

45 MPH

ADT (Year)
 4,500 (2008)



45 MPH

ADT (Year)
 4,500 (2008)

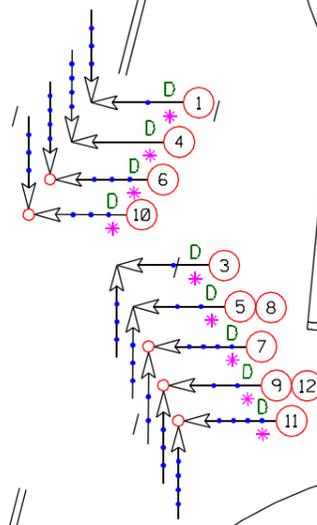
SR 1551 (Scotts
 Creek Road)

SR 1645 (Old
 Wilkesboro Road)

45 MPH

ADT (Year)
 430 (2008)

LEGEND			
	MOVING VEHICLE		ANGLE
	PARKED VEHICLE		TURNING
	PARKING VEHICLE		BACKING
	MOVABLE OBJECT		SIDESWIPE
	HEAD ON		INJURY
	REAR END		FATALITY
	RAN OFF ROAD		9 MPH OR LESS
	DAYLIGHT CRASH		10 MPH TO 19
	NIGHT CRASH		20 MPH TO 29
			30 MPH TO 39
			40 MPH TO 49
			50 MPH TO 59
			60 MPH TO 69
			70 AND UP
			SPEED UNKNOWN
			A ANIMAL
			P PEDESTRIAN
			B BICYCLE
			T TRAIN
			* DRIVER AT FAULT
			D DRY
			W WET
			I ICY OR SNOWY
			O Other



Target Crashes

N.C. DEPARTMENT of TRANSPORTATION
 DIVISION of HIGHWAYS
 TRANSPORTATION MOBILITY and
 SAFETY DIVISION

TRAFFIC SAFETY UNIT

Date: July 2014

Prepared By: Marcus Cater

