

# Spot Safety Project Evaluation

## Project Information

Order ID: 41000029595

Project ID: 14-04-215

Location: US 23/74 at the U-turn Bulb-Out between SR 1243 (Balsam Rd) and SR 1159 (Orin Davis Rd)

County: Haywood

City: N/A

Division: 14

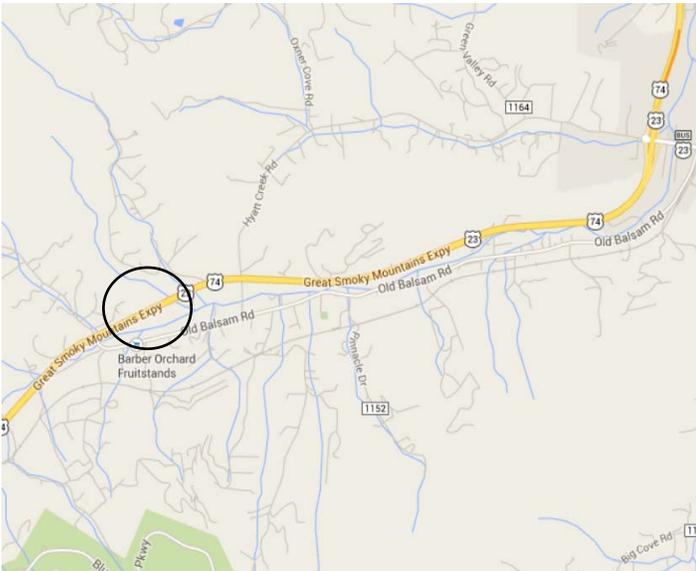
Signal ID: N/A

Countermeasure: Improve the radius of the bulb-out to allow tractor-trailers to make U-turns

Project Completion: March 28, 2008

Project Cost: \$44,000

## Map and Aerial (from Google Maps – Coordinates are 35.454509,-83.052746)



**Naive Before and After Analysis**

Before Period: February 1, 2002 through January 31, 2008 (6 years)

Const. Period: February 1, 2008 through April 30, 2008

After Period: May 1, 2008 through April 30, 2014 (6 years)

Analysis Criteria: Treatment data consisted of all crashes within 350 feet of the subject intersection to include the length of the bulb-out

Target Crashes: Crashes involving U-turning vehicles

<b><u>Treatment Information</u></b>	<b>Before</b>	<b>After</b>	<b>Percent Reduction (-) Percent Increase (+)</b>
Total Crashes	1	0	-100.0%
Total Severity Index	8.40	N/A	N/A
Target Crashes	1	0	-100.0%
Target Crash Severity Index	8.40	N/A	N/A
Volume (2005, 2011)	24,000	22,000	- 8.3%

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

### **Overall Summary Results**

Total Crashes:	- 100 %	(reduction)
Total Crash Severity:	N/A	
Target Crashes:	- 100 %	(reduction)
Target Crash Severity:	N/A	
Volume:	- 8 %	(reduction)

### **Items for Discussion/Concerns**

N/A

### **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

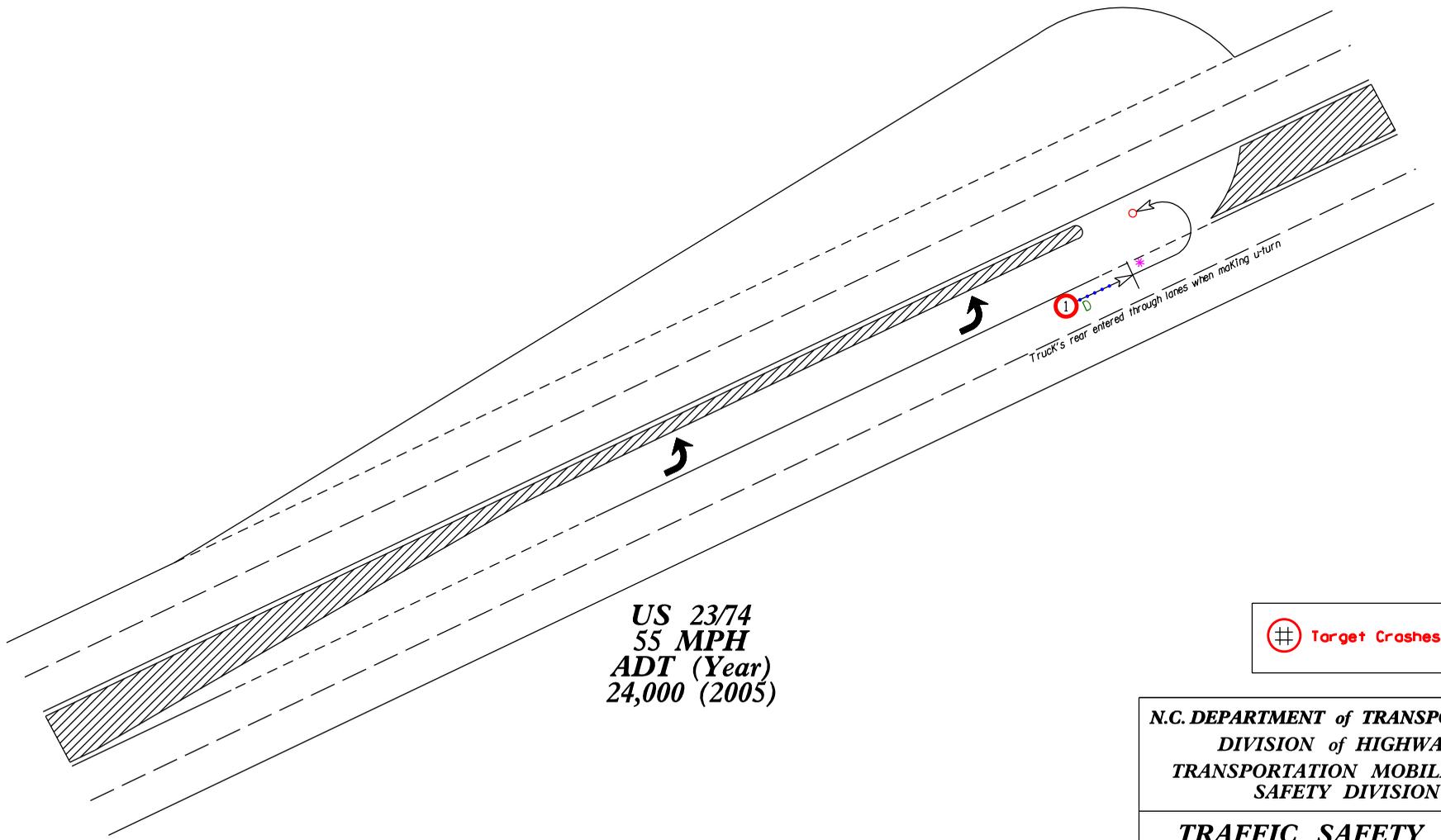
### **Data Prepared By**

Principal Investigator: Carrie L. Simpson, PE  
Work Group/Consultant: NCDOT - Safety Evaluation Group  
Date: June 26, 2014

**SS #14-04-215**  
**Order # 41000029595**  
**Haywood County**  
**BEFORE Period**  
**2/1/2002 - 1/31/2008**



LEGEND			
	MOVING VEHICLE		ANGLE
	PEDESTRIAN		TURNING
	PARKED VEHICLE		BACKING
	PARKING VEHICLE		SIDESWIPE
	FIXED OBJECT		OUT OF CONTROL
	HEAD ON		INJURY
	REAR END		FATALITY
	RAN OFF ROAD		9 MPH OR LESS
			10 MPH TO 19
			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
			P PEDESTRIAN
			A ANIMAL
			• DRIVER AT FAULT
			D DRY
			W WET
			I ICY OR SNOWY
			O OILY



**US 23/74**  
**55 MPH**  
**ADT (Year)**  
**24,000 (2005)**



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

**TRAFFIC SAFETY UNIT**

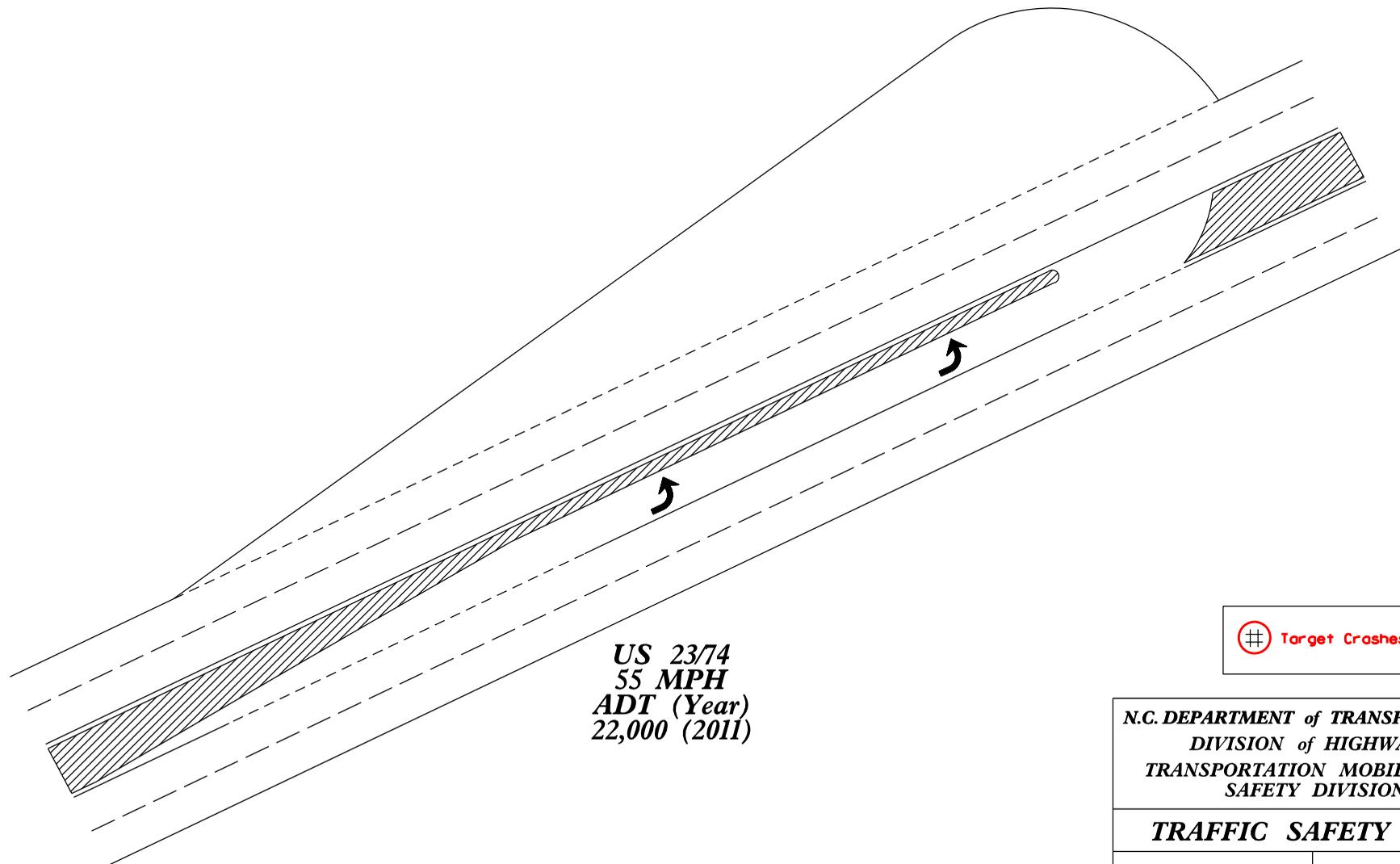
Date: 5/26/14

Prepared By: C. Simpson

**SS #14-04-215**  
**Order # 41000029595**  
**Haywood County**  
**AFTER Period**  
**5/1/2008 - 4/30/2014**



LEGEND			
	MOVING VEHICLE		ANGLE
	PEDESTRIAN		TURNING
	PARKED VEHICLE		BACKING
	PARKING VEHICLE		SIDESWIPE
	FIXED OBJECT		OUT OF CONTROL
	HEAD ON		INJURY
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**US 23/74**  
**55 MPH**  
**ADT (Year)**  
**22,000 (2011)**



**N.C. DEPARTMENT of TRANSPORTATION**  
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**TRAFFIC SAFETY UNIT**

Date: 5/26/14

Prepared By: C. Simpson