

Hazard Elimination Project Evaluation

Project Information

Order ID: 41000038373

Project ID: W-5136

Location: NC 96 in the vicinity of curve 0.5 miles south of SR 1705 (Old Franklinton Rd)

County: Granville

City: Franklinton

Division: 5

Signal ID: N/A

Countermeasures: Curve re-alignment

Project Completion: August 5, 2011

Project Cost: \$445,000.00

Map and Aerial (from Google Maps, Coordinates are 36.130017, -78.576233)



Naive Before and After Analysis

- Before Period: February 1, 2007 through May 31, 2011 (4 years, 4 months)
- Const. Period: June 1, 2011 through August 31, 2011
- After Period: September 1, 2011 through December 31, 2015 (4 years, 4 months)
- Analysis Criteria: Treatment data consisted of all crashes on NC 96 from 0.59 miles south of SR 1705 (Old Franklinton Rd) (MP 4.033) to 0.29 miles south of SR 1705 (Old Franklinton Rd) (MP 4.333)
- Target Crashes: Lane Departure Crashes – Run-Off Road (Left, Right, Straight), Fixed Object, Head-On, and Sideswipe (Opposite Direction).

<u>Treatment Information</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Total Crashes	8	1	- 87.5 %
Total Severity Index	7.48	1.00	- 86.6 %
Target Crashes	8	0	- 100.0 %
Target Crash Severity Index	7.48	0.00	- 100.0 %
Volume (2008, 2013)	4,600	5,400	+ 17.4 %

<u>Injury Crash Summary</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Fatal injury Crashes	0	0	N/A
Class A injury Crashes	0	0	N/A
Class B injury Crashes	5	0	- 100.0 %
Class C Injury Crashes	2	0	- 100.0 %
Property Damage Only	1	1	0.0 %

<u>Additional Information</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Run off Road, Right Crashes	7	0	- 100.0 %
Run off Road, Left Crashes	1	0	- 100.0 %
Animal Crashes	0	1	+ 100.0 %

Overall Summary Results

Total Crashes:	- 88 %	(reduction)
Total Crash Severity:	- 87 %	(reduction)
Target Crashes:	- 100 %	(reduction)
Target Crash Severity:	- 100 %	(reduction)
Volume:	+ 17 %	(increase)

Additional Summary Results

Run off Road, Right Crashes:	- 100 %	(reduction)
Run off Road, Left Crashes:	- 100 %	(reduction)
Animal Crashes:	+ 100 %	(increase)

Items for Discussion/Concerns

Of the 8 Run off Road crashes in the before period, 7 of them occurred with vehicles traveling southbound on NC 96. In the after period, there were 0 Run off Road crashes with vehicles traveling southbound on NC 96.

Of the 8 Run off Road crashes in the before period, 1 of them occurred with vehicles traveling northbound on NC 96. In the after period, there were 0 Run off Road crashes with vehicles traveling northbound on NC 96.

Data Prepared For

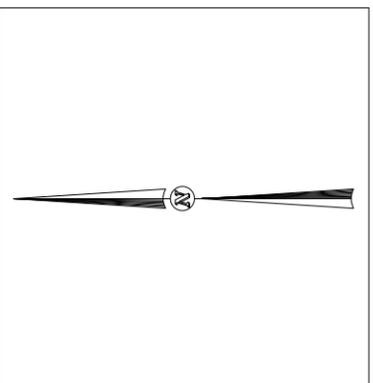
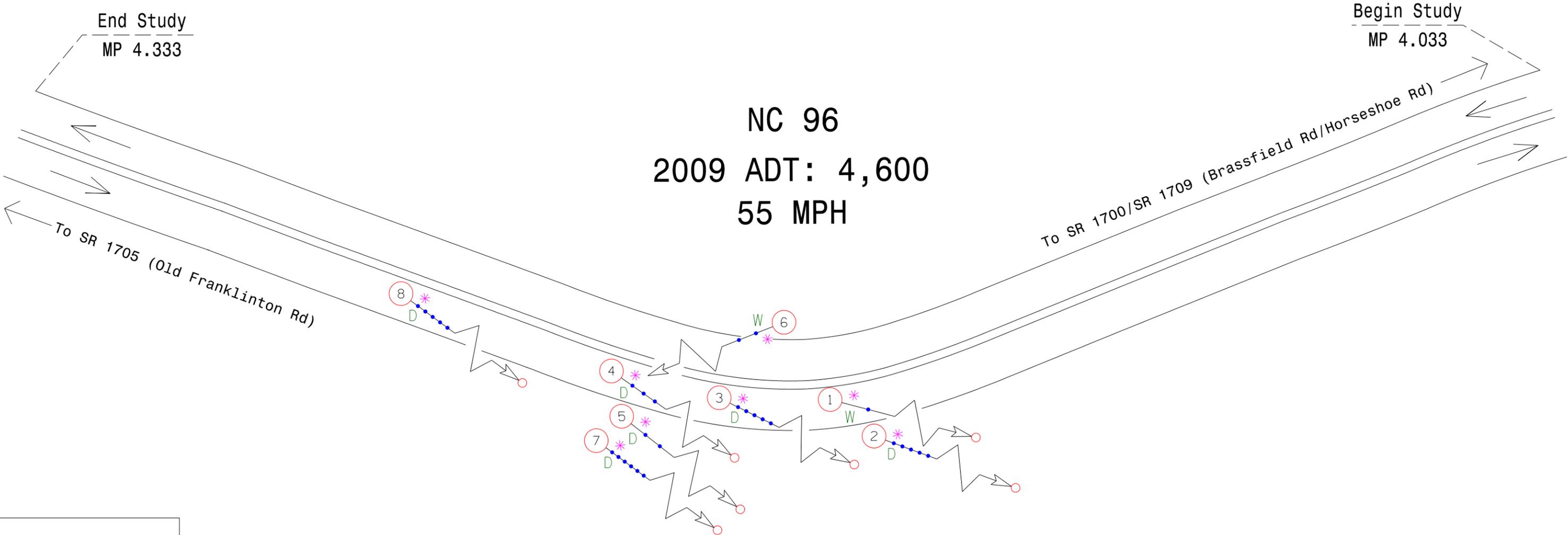
The Traffic Safety Unit *of the*
Transportation Mobility and Safety Division *of the*
Division of Highways *of the*
North Carolina Department of Transportation

Data Prepared By

Principal Investigator: Rosi Hennein
Work Group/Consultant: Stantec Consulting Services Inc
Date: January 29, 2016

SS# W-5136
 Order#41000038373
 Granville County
 Before Period
 2/1/07 - 5/31/11

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

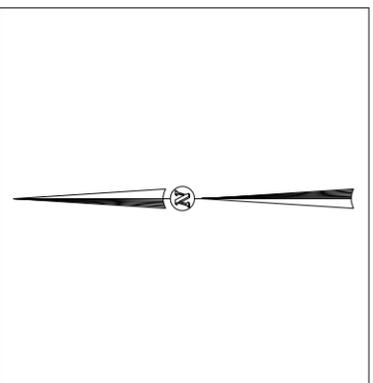
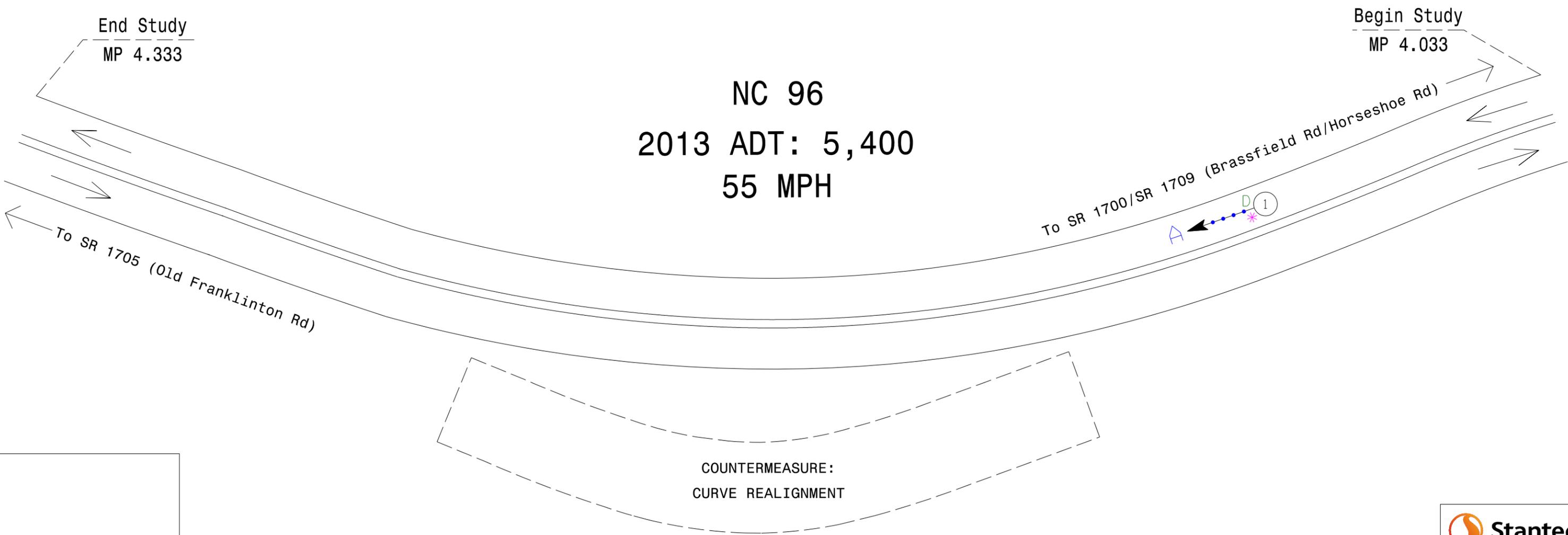


Target Crashes

N.C. DEPARTMENT of TRANSPORTATION DIVISION of HIGHWAYS TRANSPORTATION MOBILITY and SAFETY DIVISION	
	Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-0672
Date: 1/29/2016	Prepared By: RRH

SS# W-5136
 Order#41000038373
 Granville County
 After Period
 9/1/11 - 12/31/15

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



Target Crashes

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<p>Date: 1/29/2016</p>	<p>Prepared By: RRH</p>