

Spot Safety Project Evaluation

Project Information

Order ID: 41000028041

Project ID: 06-06-207

Location: NC 41 and SR 1954 (Moore's Lane)

County: Robeson

City: Lumberton

Division: 6

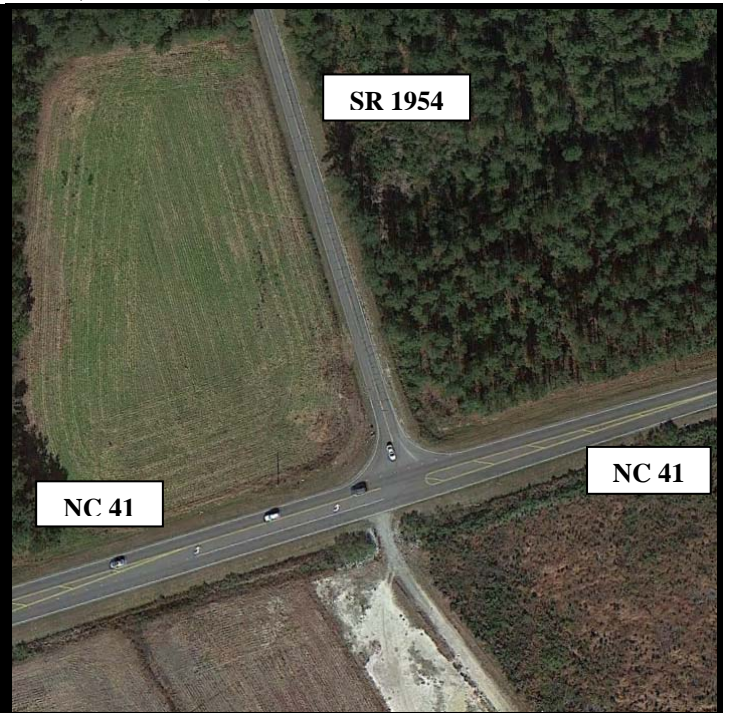
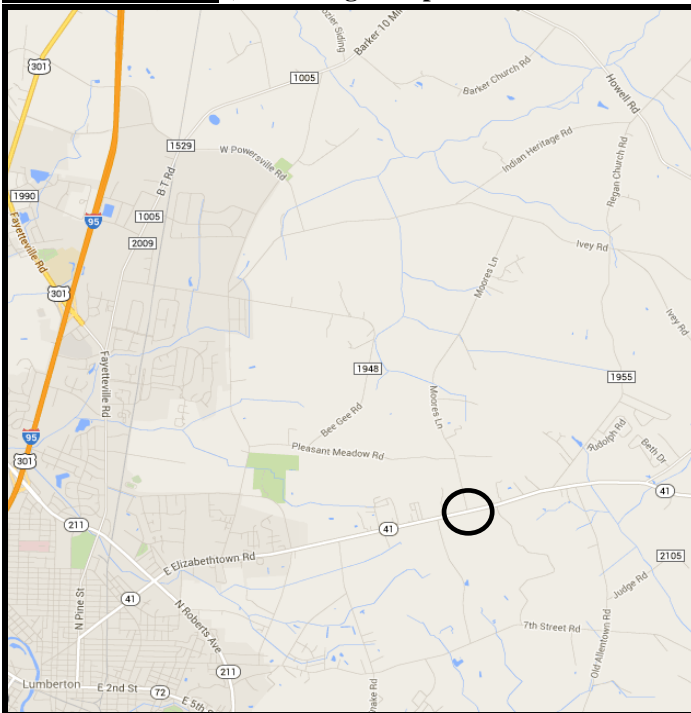
Signal ID: N/A

Countermeasure: Installed left-turn lane on northeast bound NC 41.

Project Completion: January 28, 2009

Project Cost: \$250,000.00

Map and Aerial (from Google Maps – Coordinates are 34.641912,-78.943248)



Naive Before and After Analysis

Before Period: November 1, 2003 through October 31, 2008 (5 years)

Const. Period: November 1, 2008 through February 28, 2009 (4 months)

After Period: March 1, 2009 through February 28, 2014 (5 years)

Analysis Criteria: Treatment data consisted of all crashes within 150 feet of the subject intersection for the NC 41 and SR 1954 approaches.

Target Crashes: Rear end crashes for vehicles traveling northbound on NC 41 prior to the SR 1954 intersection and other crashes that occurred due to queuing on northbound NC 41.

<u>Treatment Information</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Total Crashes	6	3	-50.0%
Total Severity Index	18.6	3.5	-81.3%
Target Crashes	4	0	-100.0%
Target Crash Severity Index	23.7	0.0	-100.0%
Volume (2006, 2010)	13,200	12,200	-7.6%

<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	0	0	N/A
Class C Injury Crashes	4	1	-75.0%
Property Damage Only	1	2	+100.0%

Overall Summary Results

Total Crashes:	-50.0 %	(reduction)
Total Crash Severity:	-81.3 %	(reduction)
Target Crashes:	-100.0 %	(reduction)
Target Crash Severity:	-100.0%	(reduction)
Volume:	-7.6 %	(reduction)

Items for Discussion/Concerns

The installation of the left-turn lane eliminated target crashes between the before and after periods. Also, the severity of total crashes experienced a reduction of over 81 percent between the before and after periods.

Data Prepared For

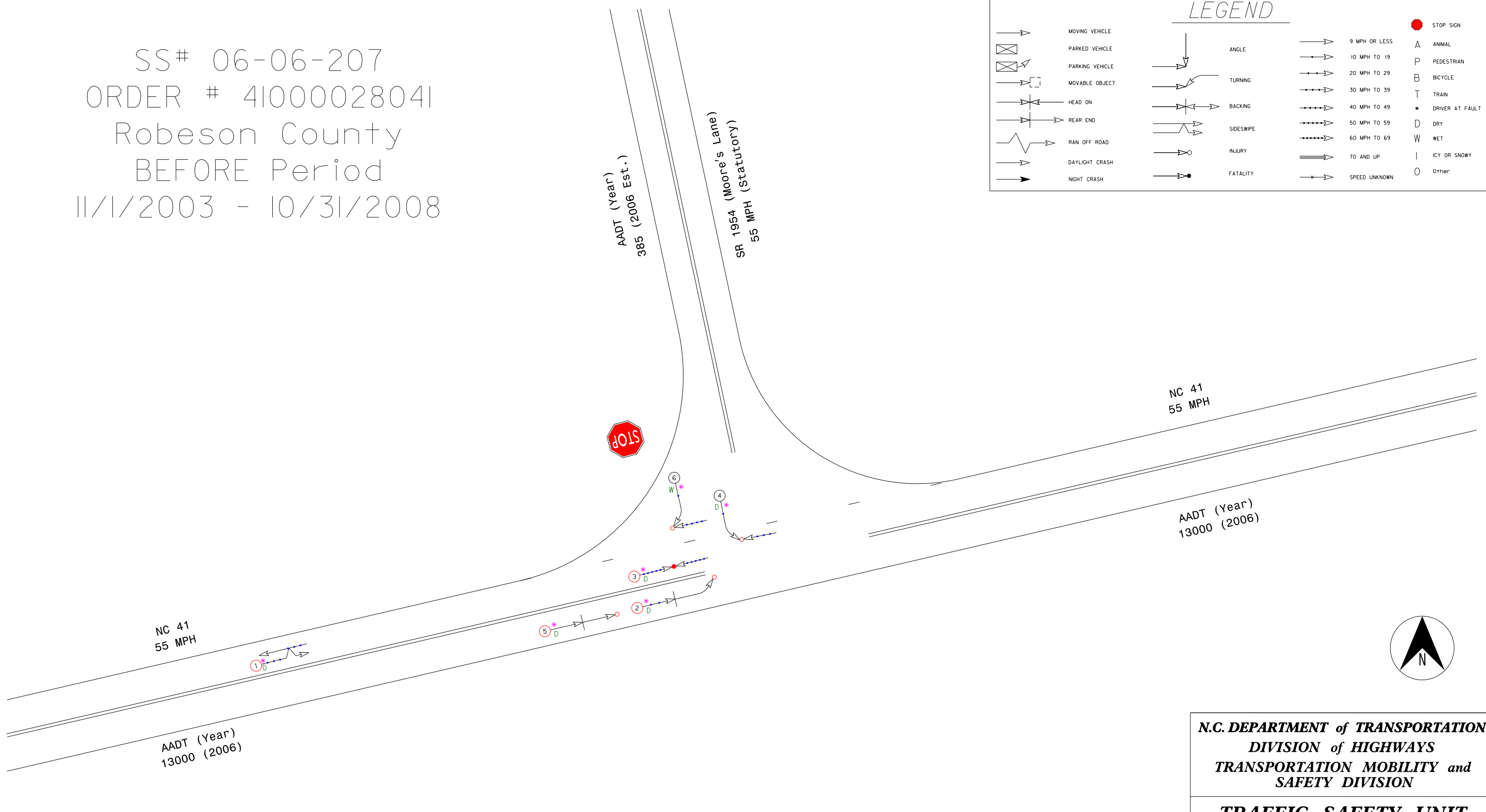
The Traffic Safety Unit *of the*
Transportation Mobility and Safety Division *of the*
Division of Highways *of the*
North Carolina Department of Transportation

Data Prepared By

Principal Investigator: Celeste Harvey
Work Group/Consultant: Hatch Mott MacDonald
Date: April 29, 2014

SS# 06-06-207
 ORDER # 41000028041
 Robeson County
 BEFORE Period
 11/1/2003 - 10/31/2008

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
	STOP SIGN		ANIMAL
			PEDESTRIAN
			BICYCLE
			TRAIN
			DRIVER AT FAULT
			DRY
			WET
			ICY OR SNOWY
			Other



Target Crashes

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

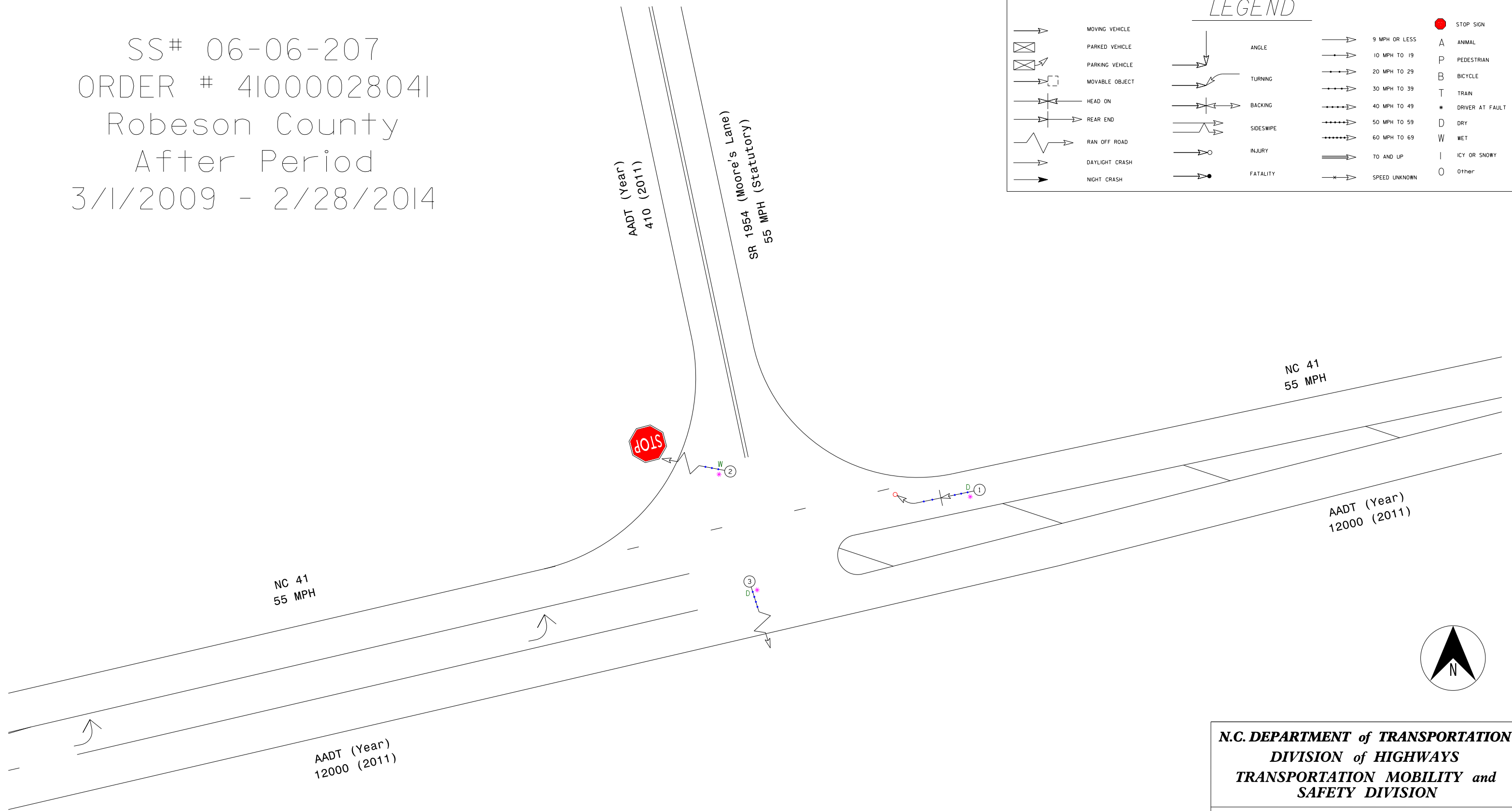
TRAFFIC SAFETY UNIT

Date 4/25/2014 Prepared By: Celeste Harvey



SS# 06-06-207
 ORDER # 41000028041
 Robeson County
 After Period
 3/1/2009 - 2/28/2014

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
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	STOP SIGN		A ANIMAL
	P		P PEDESTRIAN
	B		B BICYCLE
	T		T TRAIN
	*		* DRIVER AT FAULT
	D		D DRY
	W		W WET
	I		I ICY OR SNOWY
	O		O Other



Target Crashes

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

TRAFFIC SAFETY UNIT

Date: 4/25/2014 Prepared By: Celeste Harvey

