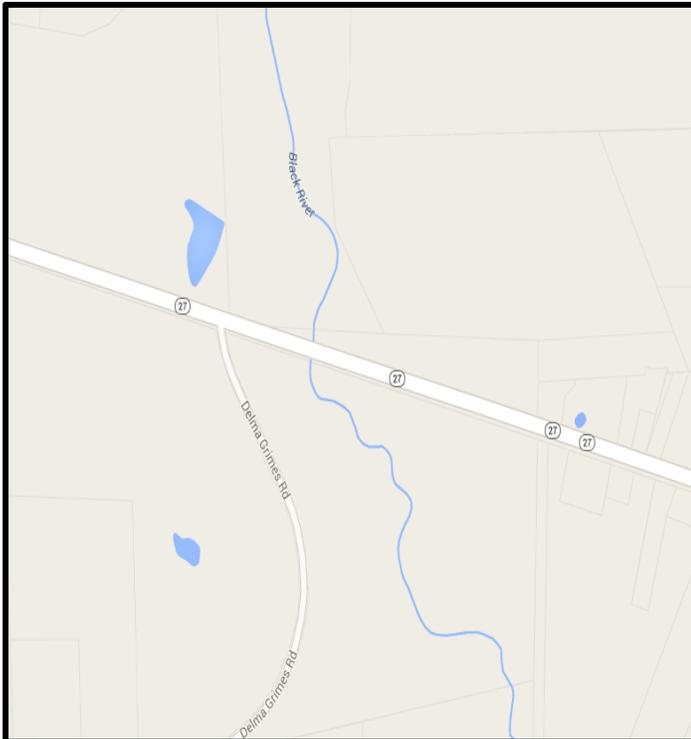


Spot Safety Project Evaluation

Project Information

Order ID: 41000027250
Project ID: 06-04-211
Location: NC 27 in the vicinity of SR 1701 (Delma Grimes Rd)
County: Harnett
City: Near Coats
Division: 6
Signal ID: N/A
Countermeasure: Guardrail Installation – the span of three closely spaced culverts
Project Completion: February 25, 2008
Project Cost: \$34,000

Map and Aerial (from Google Maps)



Naïve Before and After Analysis

Before Period: June 1, 2002 through December 31, 2007 (5 years, 7 months)

Const. Period: January 1, 2008 through March 31, 2008

After Period: April 1, 2008 through October 31, 2013 (5 years, 7 months)

Analysis Criteria: Treatment data consisted of all crashes in the milepost range from MP 38.25 to MP 38.75 on NC 27.

Target Crashes: Please note that Lane Departure Crashes were the target crashes for the applied countermeasure.

<u>Treatment Information</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Total Crashes	6	3	- 50.0 %
Total Severity Index	16.10	1.00	- 93.8 %
Target Crashes	4	0	- 100.0 %
Target Crash Severity Index	23.65	0	- 100.0 %
Volume (2005, 2011)	5,000	4,400	-12.0 %

<u>Injury Crash Summary</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Fatal injury Crashes	0	0	N/A
Class A injury Crashes	1	0	- 100.0 %
Class B injury Crashes	1	0	- 100.0 %
Class C Injury Crashes	1	0	- 100.0 %
Property Damage Only	3	3	N/A

Overall Summary Results

Total Crashes:	- 50 %	(reduction)
Total Crash Severity:	- 94 %	(reduction)
Target Crashes:	- 100 %	(reduction)
Target Crash Severity:	- 100 %	(reduction)
Volume:	- 12 %	(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: Justin Green, EI
Work Group/Consultant: NCDOT - Safety Evaluation Group
Date: January 6, 2014

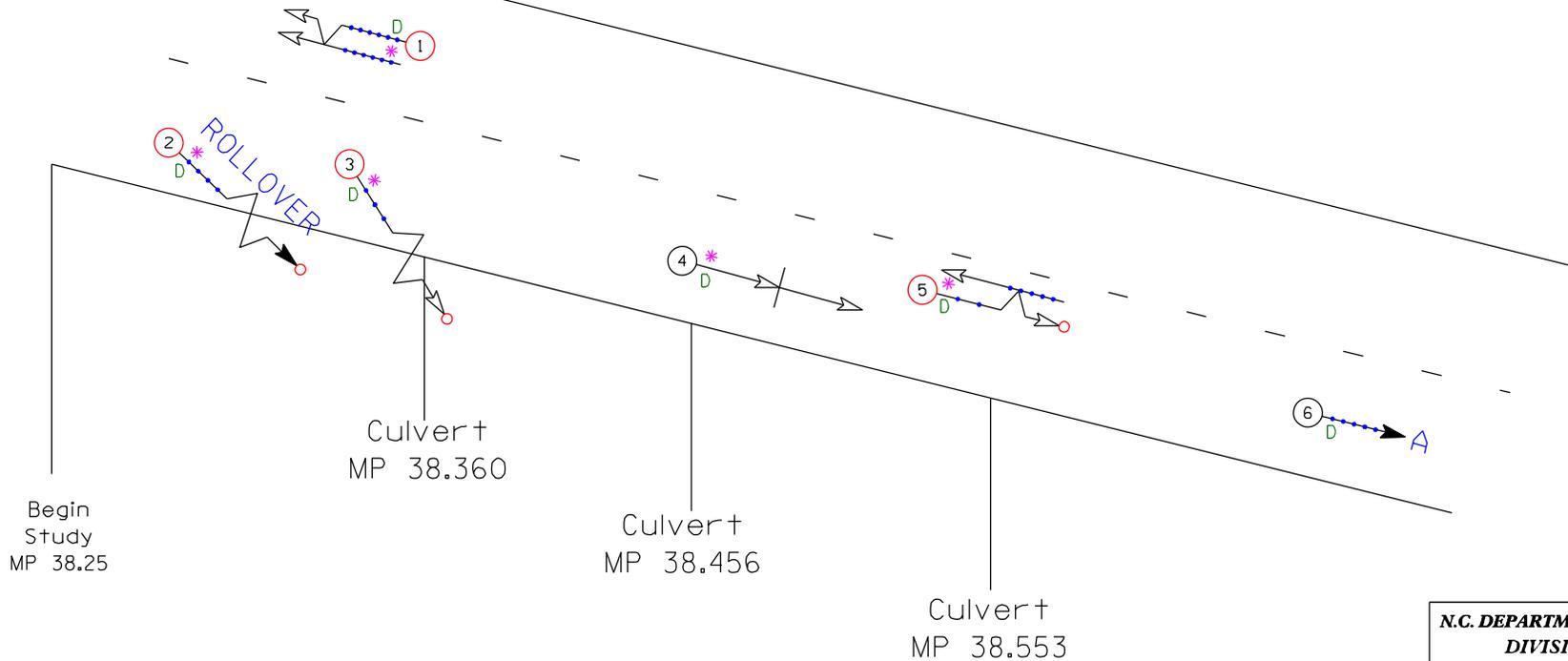
SS# 06-04-211
 Order# 41000027250
 Harnett County
 BEFORE Period
 6/1/2002 - 12/31/2007



LEGEND			

NC 27
 ADT (2005)
 5000

End Study
 MP 38.75



Lane Departure
 Target Crashes

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

TRAFFIC SAFETY UNIT

Date: December 2013 Prepared By: J. Green

SS# 06-04-211
 Order# 41000027250
 Harnett County
 AFTER Period
 4/1/2008 - 10/31/2013

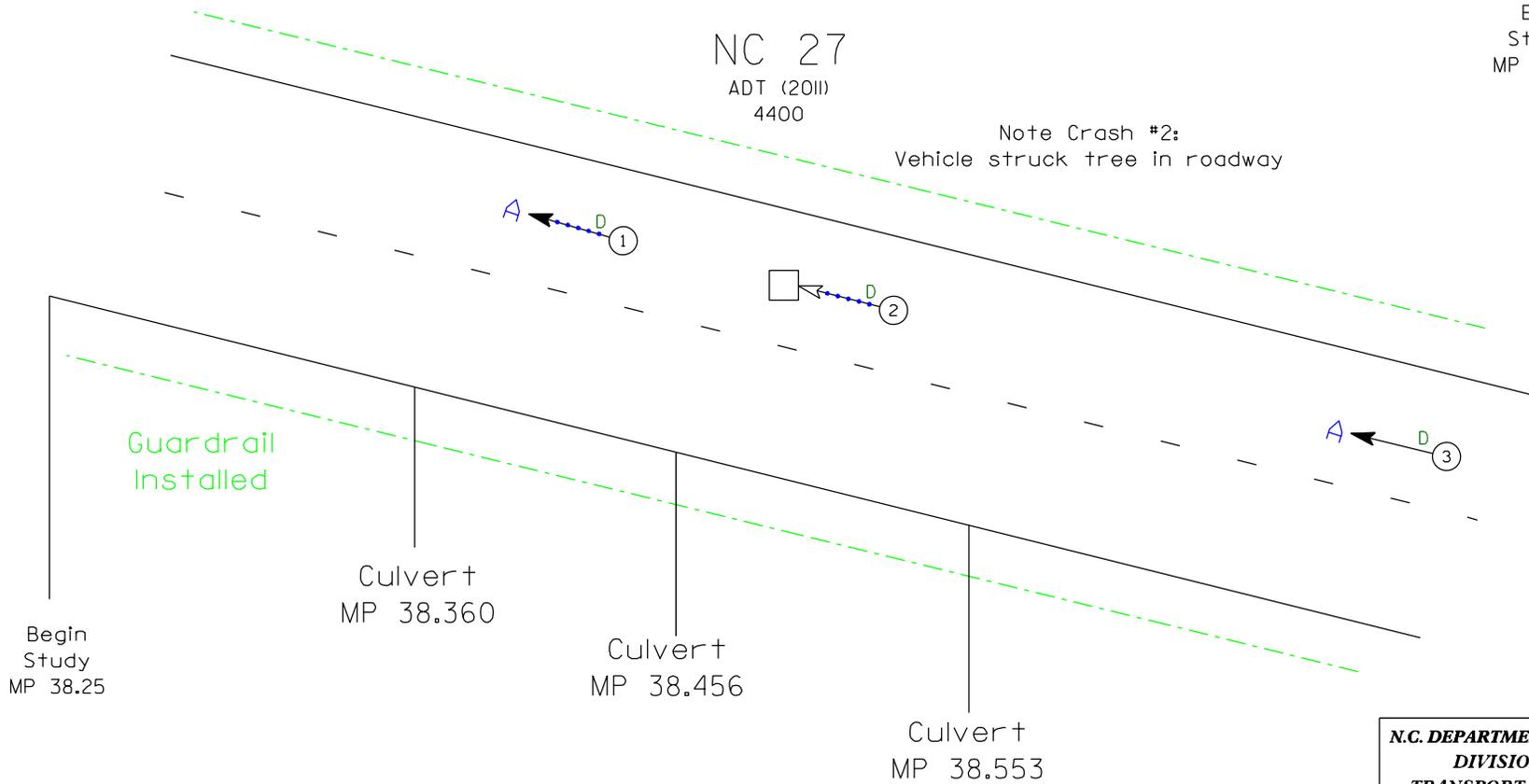


LEGEND			

NC 27
 ADT (2011)
 4400

End
 Study
 MP 38.75

Note Crash #2:
 Vehicle struck tree in roadway



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

Lane Departure
 Target Crashes

TRAFFIC SAFETY UNIT

Date: December 2013

Prepared By: J. Green