

Spot Safety Project Evaluation

Order # 41000017722

Spot Safety Project # 01-03-210

Spot Safety Project Evaluation of the Guardrail Installation on Both Approaches to Bridge #8 on US 158 over Cole Creek Gates County

Documents Prepared By:

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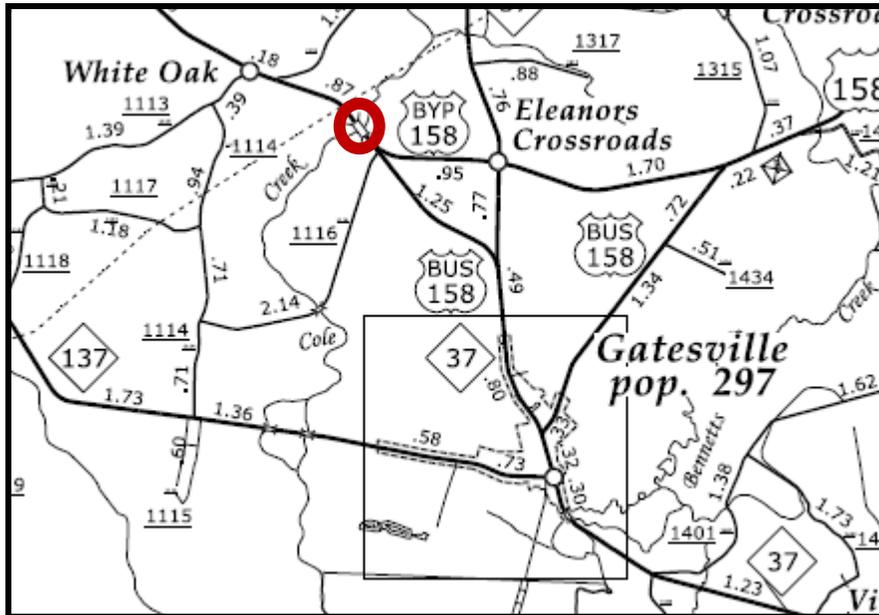
Date

Traffic Safety Project Engineer

Spot Safety Project Evaluation Documentation

Subject Location

Evaluation of Spot Safety Project Number 01-03-210 – US 158 at bridge #8 over Cole Creek in Gates County.



Project Information and Background from the Project File Folder

The spot safety project improvement countermeasure chosen for the subject location was to install guardrail on both approaches to the bridge.

US 158 is a two lane facility with a 55 mph speed limit. The bridge is located on US 158 approximately 0.2 miles west of the intersection with SR 1116 (Harrells Church Rd). The concrete bridge rail ends were previously unprotected. The county asked for the guardrail in order to reduce the severity of potential crashes.

The final completion date for the improvements was on October 1, 2007 with a total cost of \$50,000.00.

Naive Before and After Analysis

After reviewing the spot safety project file folder along with all the crashes at the subject location, the crash data omitted from this analysis to consider for an adequate construction period was from September 1, 2007 to October 31, 2007. The before period consisted of reported crashes from July 1, 2003 through August 31, 2007 (4 years, 2 months) and the after period consisted of reported

crashes from November 1, 2007 through December 31, 2011 (4 years, 2 months). The ending date for this analysis was limited by the available crash data at the time the analysis was conducted. The treatment data consisted of all reported crashes on US 158 within approximately 250 of either side of the bridge.

There was only one possible crash in the before period and none in the after period. The before period crash was an animal crash that measured in the vicinity of the bridge by the distances given on the crash report, although no diagram is shown.

Treatment Site Photos Taken February 13, 2012



Traveling west on US 158



Traveling west on US 158