

Bridge Design Speed Investigation

Bridge #315 on SR 1346 (Stevens Creek Road) over Stevens Creek
Haywood County



Document Prepared By:

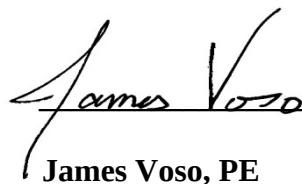
Mattern & Craig, Inc.
Consulting Engineers - Surveyors
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Commission No: 3356

July 2, 2013



Investigating Engineer


James Voso, PE

Bridge and Approach Investigation Checklist

Project 17BP.14.PE.1
Description Replace Bridge #315 on SR 1346 (Stevens Creek Road) over Stevens Creek
Route SR 1346 (Stevens Creek Road)
Division 14
County Haywood

Existing Speed Limit 25 mph ☒ Posted ☐ Statutory

Reasonable & Comfortable
Passenger Car Speed 20 mph

Speed Data N/A

Ball Bank Speed Study Curve north of Bridge #315 had a ball bank indication of 12 at 20 mph.

Warning Signs at Bridge 4 Bridge End Delineators, Weight Limit (25 tons - single vehicle,
Legal Gross Weight - truck tractor semitrailer), One Lane Bridge
warning sign

Roadside Development Wooded in all quadrants of bridge.

ADT History 220 (2000)

Pedestrian/Bicycle Traffic Low

Bridge and Approach
Digital Photos (attached)

Approach Lane Width 12' one lane

Approach Shoulder Width: 9'
Shoulder Type grass

Lane Width (existing bridge) 12' one lane

Shoulder width (existing bridge) 3'

Strategic Corridor / Thoroughfare
Designation and Recommended
Cross Section Not a Strategic Corridor/Thoroughfare. Two lane cross section at 20
mph based on 3R guidelines.

Crash History and
Safety Considerations No crashes reported near bridge (4/1/2003 - 3/31/2013, 10 years).

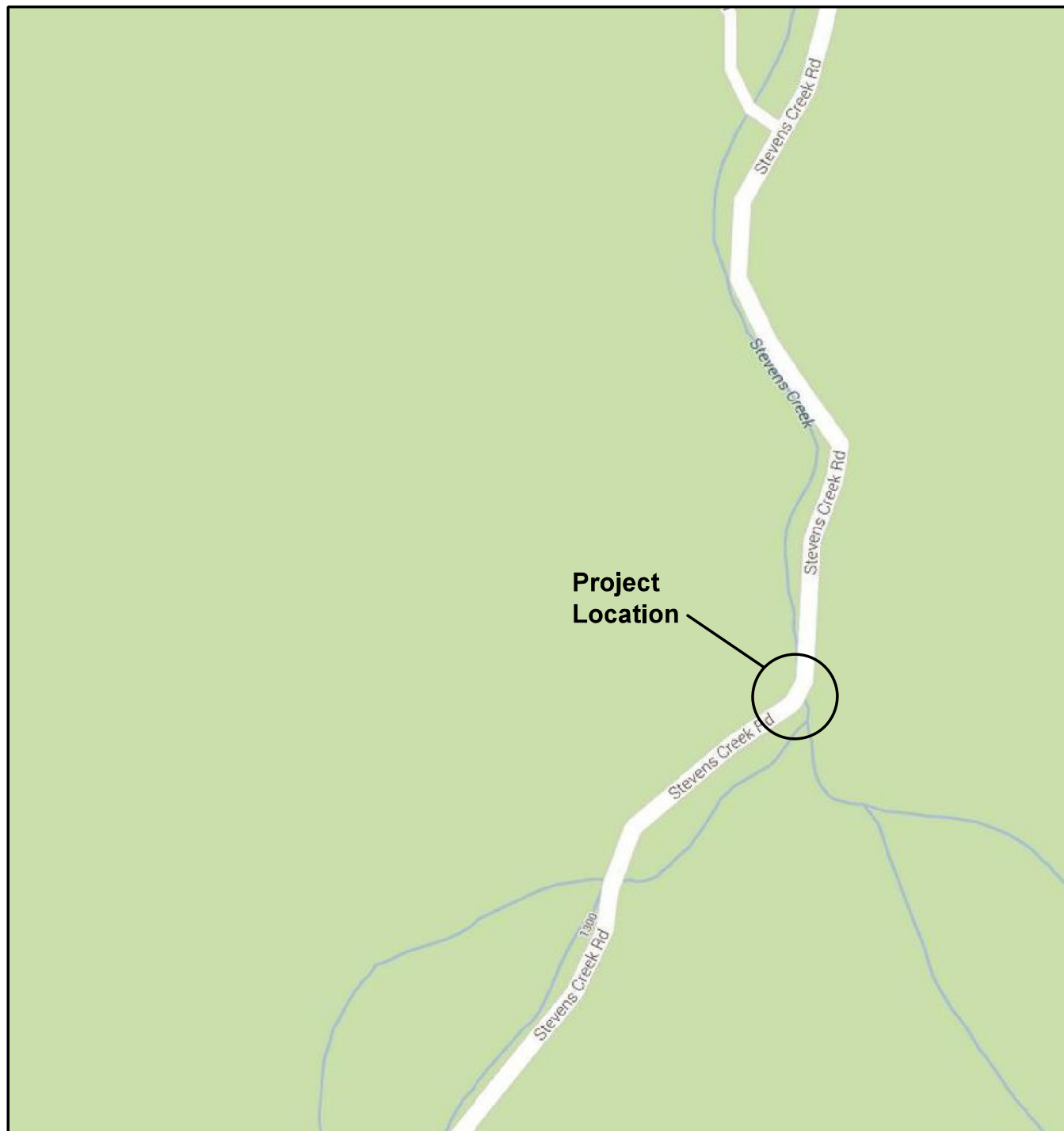
Comments Driveway located at north end of bridge. Access road located at south end
of bridge. Bridge number not posted on bridge. Bridge located on gravel
road.

Reasonable Bridge Speed 20 mph

Investigated by: Mathew Bolden Reviewed by: James Voso



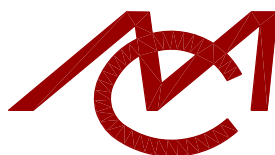
Bridge #315
Haywood County
Division 14



**Project
Location**

VICINITY MAP

Bridge #315 on SR 1346
(Stevens Creek Road)
over Stevens Creek



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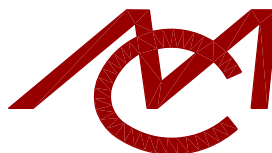


Northbound Approach



Northbound Approach at bridge

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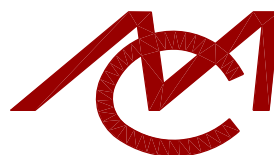


Southbound Approach



Southbound Approach at bridge

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**North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Strip Analysis Report**

Study Criteria Summary

County: HAYWOOD **City:** All and Rural
Date: 04/01/2003 **to** 03/31/2013 **Study:** HAYWOODBRIDGE315
Location: SR 1346 (Stevens Creek Rd) from 500 feet west of Bridge 315 to 500 feet east of the bridge

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
HAYWOODBRIDGE315				76.8	8.4	240	40001346

Request Date	Courier Service	Phone No.	Ext.	Fax No.
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County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
HAYWOOD	43	14	All and Rural		0	04/01/2003	03/31/2013	10.00

Location Text	Requestor
SR 1346 (Stevens Creek Rd) from 500 feet west of Bridge 315 to 500 feet east of the bridge	

Fiche Roads	
Name	Code
SR 1346	40001346
WHITE OAK	50032752
STEPHEN	50029160

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1346	40001346	2.692	2.884	0.192	0.309