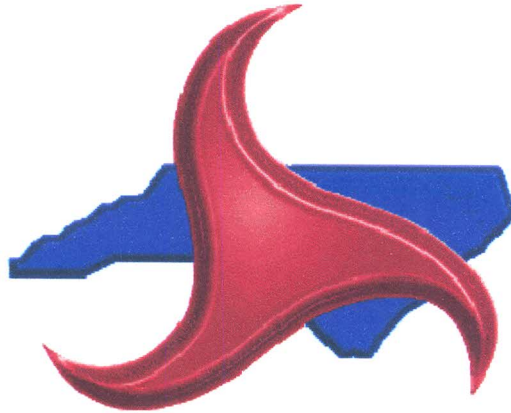


Bridge Design Speed Investigation

Bridge #317 on SR 1346 (Stephens Creek Rd.) over Stephens Creek.
Haywood County



Document Prepared By:

Regional Traffic Office – Blue Ridge Mountains Region
Traffic Safety Unit
Transportation Safety and Mobility
North Carolina Department of Transportation

October 11, 2011



Investigating Engineer

A handwritten signature in black ink, which appears to read 'Scott M. Collier', is written over a horizontal line.

Scott M. Collier, PE
Regional Traffic Support Engineer

Bridge and Approach Investigation Checklist

Project 17BP.14.PE.1
Description Replace Bridge #317 on SR 1346 over Stephens Creek.
Route SR 1346 (Stephens Creek Rd.)
Division 14
County Haywood

Existing Speed Limit 55-mph ☐ Posted ☒ Statutory

Reasonable & Comfortable
Passenger Car Speed 20-mph

Speed Data No speed data taken due to low ADT and road characteristics.

Ball Bank Speed Study Bridge is mostly on a tangent. The Reasonable & Comfortable
Passenger Car Speed is 20-mph on SR 1346.

Warning Signs at Bridge "ONE LANE BRIDGE" (text), 4 Bridge End Delineators

Roadside Development Undeveloped.

ADT History 260 (2010), 240 (2000)

Pedestrian/Bicycle Traffic Low or none at all.

Bridge and Approach
Digital Photos (attached)

Approach Lane Width 15.0' full width of gravel road

Approach Shoulder Width: 1.0'
Shoulder Type gravel

Lane Width (existing bridge) 19.0' full width of bridge deck

Shoulder width (existing bridge) 0.0'

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

Crash History and
Safety Considerations No crashes. (8/1/01 - 7/31/11, 10 years)

Comments Active roadway width is 11.0' (used as a one-lane road). The bridge
deck width was measured perpendicularly from the bridge rail face to the
extension of the opposite bridge rail face. The end of SR 1346 is 330'
south of the southern end of the bridge.

Reasonable Bridge Speed 20-mph

Investigated by: 

Reviewed by: _____

NATIONAL

Grassy Knob

E
LLE

FCA

15

Hepco

Oak Mtn

1353

1386

1354

1352

Panther Creek

1355

209

FOREST

Cove Creek Gap
Elev 4,062

Seay
Mtn

Cove Creek

20

FCA

1331

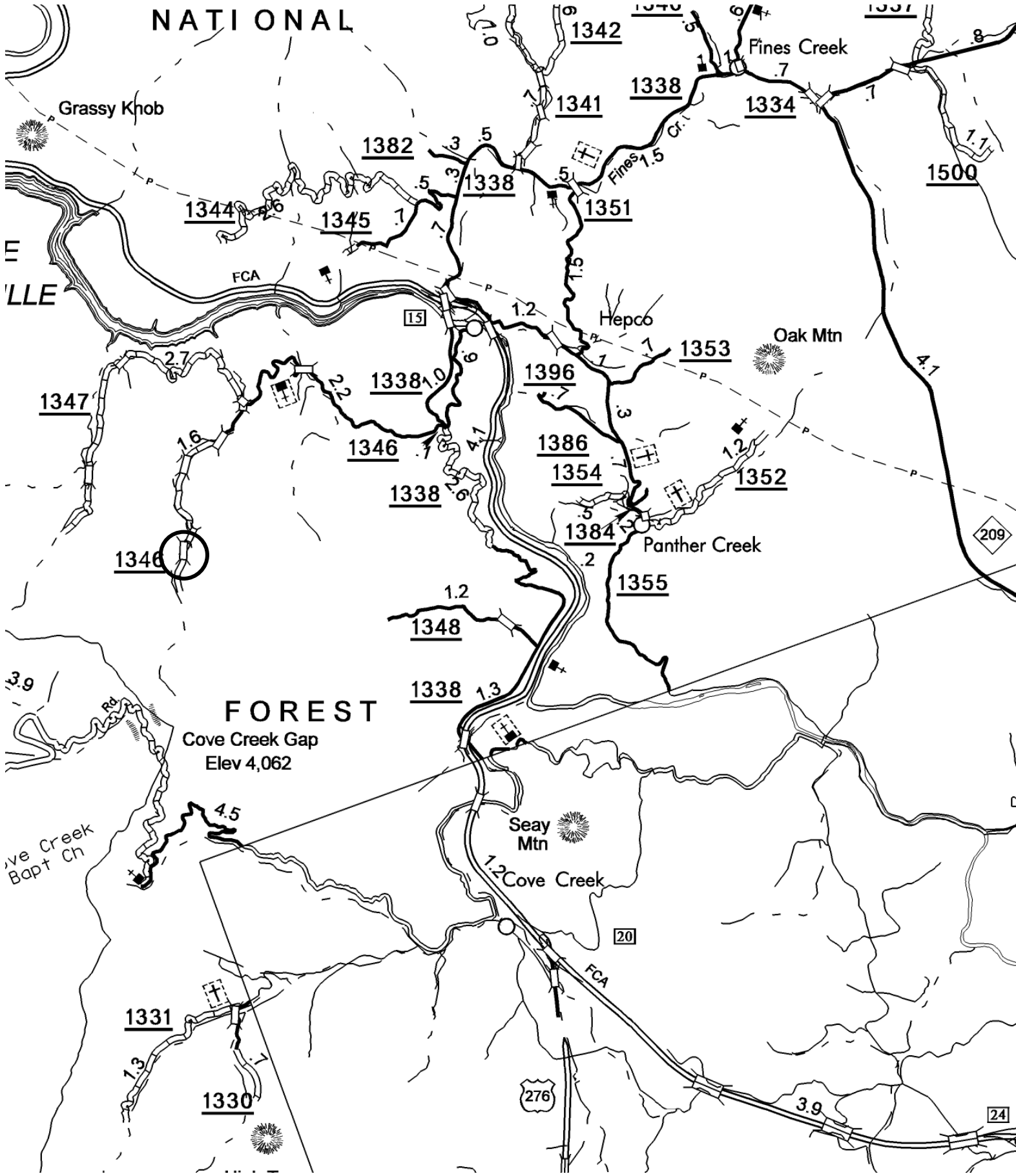
1330

276

3.9

24

Cove Creek
Bapt Ch



Bridge Approach Speed Crash Analysis Request

Order # 41000015005

500 feet on Both Sides of Bridge Number 317 on Secondary Route 1346 (Stevens Creek Road) over Stephens Creek in Haywood County

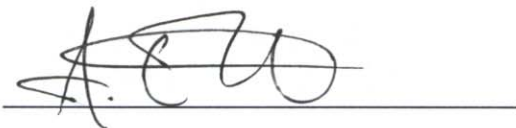
Document Prepared By:

Safety Planning Group
Traffic Safety Systems Management Unit
Transportation Mobility and Safety Division
North Carolina Department of Transportation

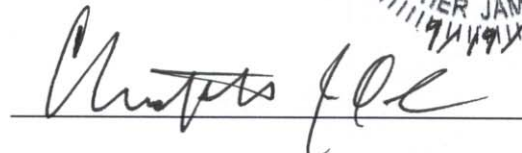
Note: The crash statistics have been generated and are available through North Carolina's Crash Database. This database provides an inventory of **reported** crashes on record that have occurred at this location. Please note that many traffic crashes go unreported for a variety of reasons, and this report simply provides a listing of all crashes on record that occurred within 0 feet of the section described above.

September 19, 2011

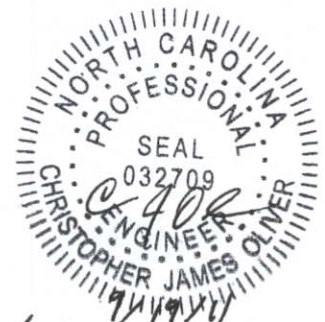
Principal Investigator



Alfred D. Oyoyo
Traffic Safety Project Engineer



Christopher J. Oliver, PE
Safety Planning Engineer



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

Study Criteria Summary

County: HAYWOOD **City:** All and Rural
Date: 08/01/2001 **to** 07/31/2011 **Study:** 41000015005
Location: 500 feet on Both Sides of Bridge Number 317 on Secondary Route 1346 (Stevens Creek Road) over Stephens Creek

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
41000015005	41000015005			76.8	8.4	260	40001346

Request Date	Courier Service	Phone No.	Ext.	Fax No.
09/15/2011		828-650-2700		828-650-2698

County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
HAYWOOD	43	14	All and Rural		0	08/01/2001	07/31/2011	10.00

Location Text	Requestor
500 feet on Both Sides of Bridge Number 317 on Secondary Route 1346 (Stevens Creek Road) over Stephens Creek	D.D Galloway, PE NCDOT Blue Ridge Mountains Region

Fiche Roads

Name	Code
I 1	10000001
SR 1346	40001346
STEPHEN	50029160

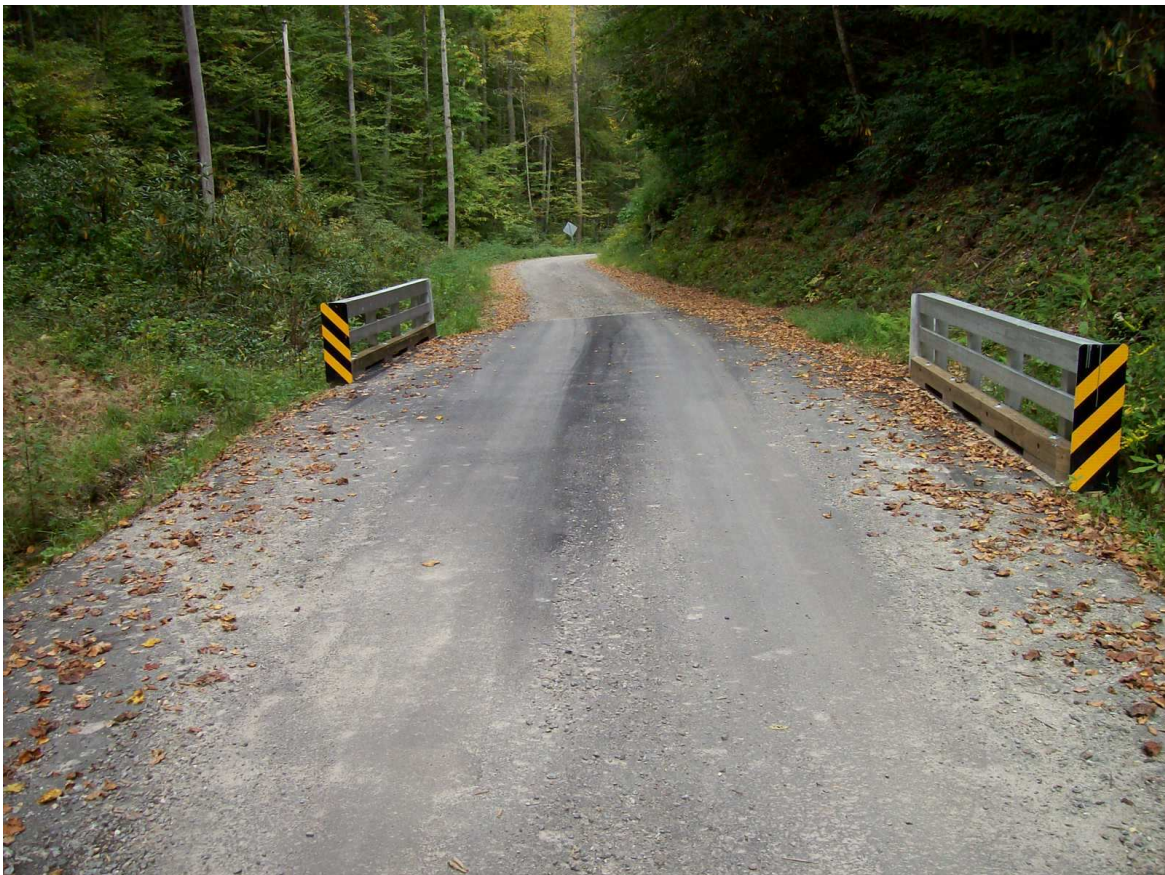
Strip Road

Name	Code	Begin MP	End MP	Miles	Kilometers
I 1	10000001	3.839	4.031	0.192	0.309

Bridge #317 on SR 1346, Haywood County



SR 1346, northbound approach.



SR 1346, northbound approach at bridge.

Bridge #317 on SR 1346, Haywood County



SR 1346, southbound approach.



SR 1346, southbound approach at bridge.