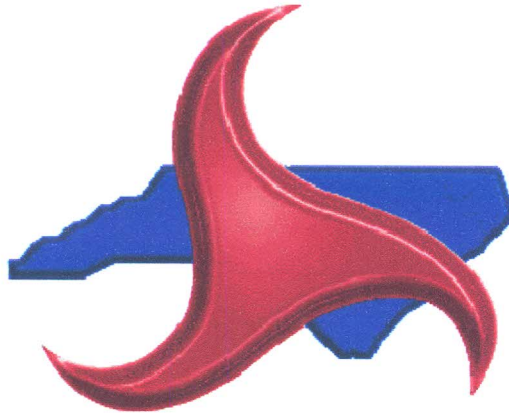


Bridge Design Speed Investigation

Bridge #309 on SR 1373 (Kudzu Loop) over Rogers Cove 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 20, 2011



Investigating Engineer

A handwritten signature in black ink, appearing to read 'Scott M. Collier', 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 #309 on SR 1373 (Kudzu Loop) over Rogers Cove Creek.
Route SR 1373 (Kudzu Loop)
Division 14
County Haywood

Existing Speed Limit 25-mph ☒ Posted ☐ Statutory

Reasonable & Comfortable
Passenger Car Speed 25-mph

Speed Data No speed data taken due to low ADT.

Ball Bank Speed Study For curve at bridge the Ball Bank = 6 at 25-mph. Curves near the bridge would have advisory speeds less than 35-mph.

Warning Signs at Bridge "NARROW BRIDGE" (text), 4 Bridge End Delineators, Weigh Limit (13 tons - single vehicle, 22 tons - truck tractor semitrailer).

Roadside Development Residences in all four quadrants.

ADT History 200 (2010), 150 (2000)

Pedestrian/Bicycle Traffic Low or none at all.

Bridge and Approach
Digital Photos (attached)

	North	South
Approach Lane Width	<u>8.5'</u>	<u>7.5'</u>

Approach Shoulder Width:	<u>4.0'</u>	<u>0.5'</u>	asphalt curb south of the bridge
Shoulder Type	<u>dirt/grass</u>	<u>paved</u>	

Lane Width (existing bridge) 7.75'

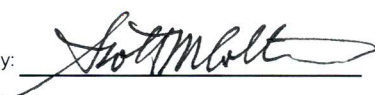
Shoulder width (existing bridge) 1.5'

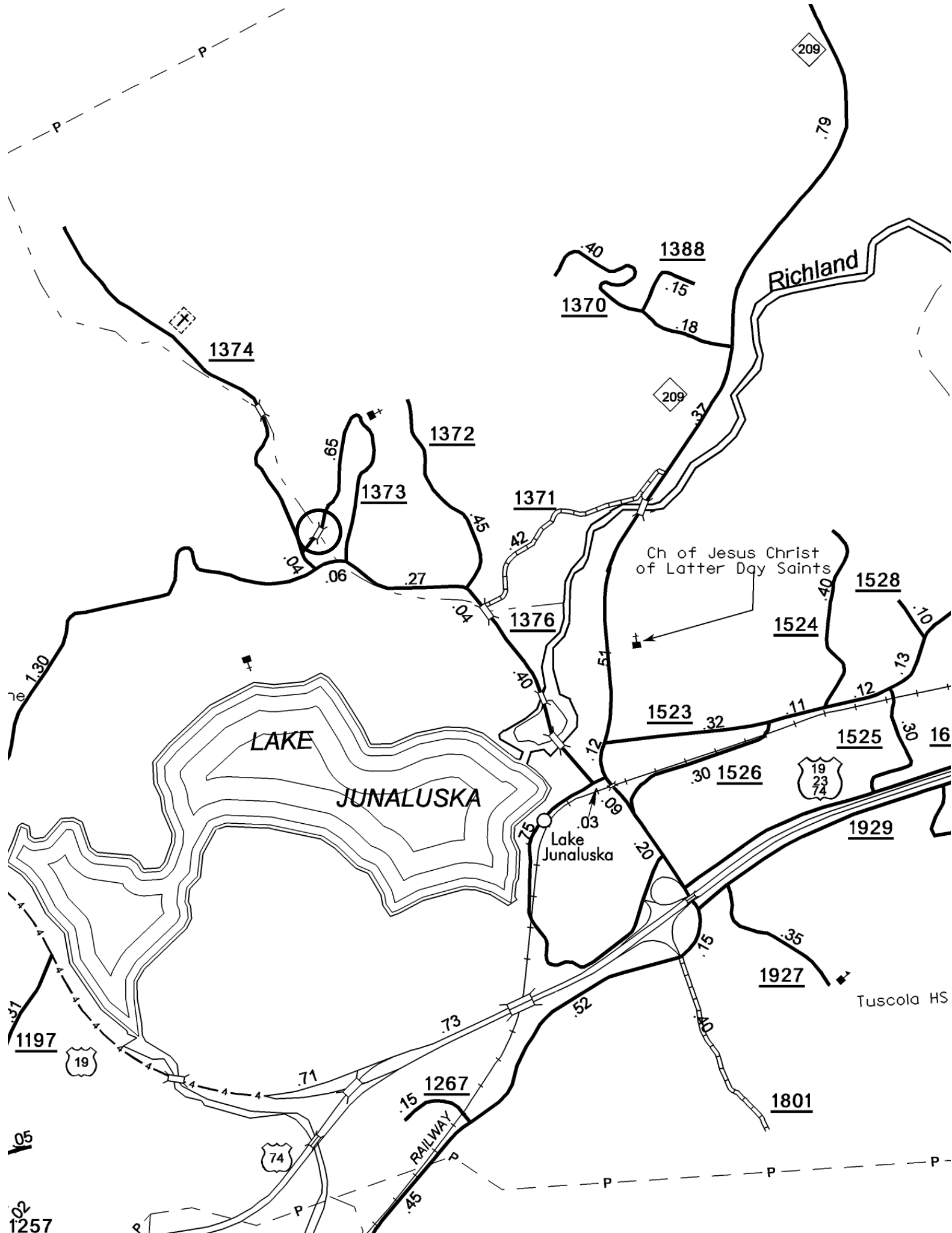
Strategic Corridor / Thoroughfare
Designation and Recommended
Cross Section Not a Strategic Corridor/Thoroughfare. Two-lane cross section below 45-mph based on 3R guidelines.

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

Comments No centerline markings from SR 1374 to 150' north of the bridge. SR 1374 is 250' from the southern end of the bridge.

Reasonable Bridge Speed 25-mph

Investigated by:  Reviewed by: _____



Bridge Approach Speed Crash Analysis Request

Order # 41000014977

Bridge Number 309 on Secondary Route 1373 (Kudzu Loop) from Secondary Route 1374 (Rogers Cove Road) to 500 feet North of the Bridge over Rogers Cove 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

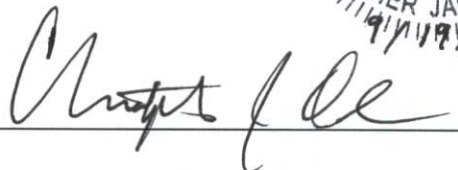
Note: The crash statistics have been generated and are available through North Carolina's Crash Database. This database provides an inventory of **reported** crashes on record that have occurred at this location. Please note that many traffic crashes go unreported for a variety of reasons, and this report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

September 19, 2011

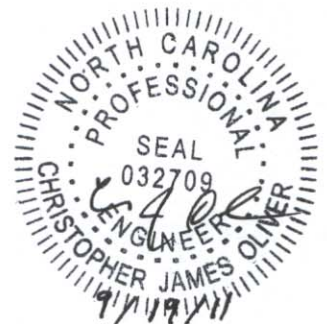
Principal Investigator



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:** 41000014977
Location: Bridge Number 309 on Secondary Route 1373 (Kudzu Loop) from Secondary Route 1374 (Rogers Cove Road) to 500 feet North of the Bridge over Rogers Cove Creek

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
41000014977	41000014977			76.8	8.4	200	40001373

Request Date	Courier Service	Phone No.	Ext.	Fax No.
09/14/2011		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
Bridge Number 309 on Secondary Route 1373 (Kudzu Loop) from Secondary Route 1374 (Rogers Cove Road) to 500 feet North of the Bridge over Rogers Cove Creek	D.D Galloway, PE NCDOT

Fiche Roads	
Name	Code
SR 1373	40001373
KUDZU	50016684

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1373	40001373	0.000	0.146	0.146	0.235

Bridge #309 on SR 1373, Haywood County



SR 1373, northbound approach.

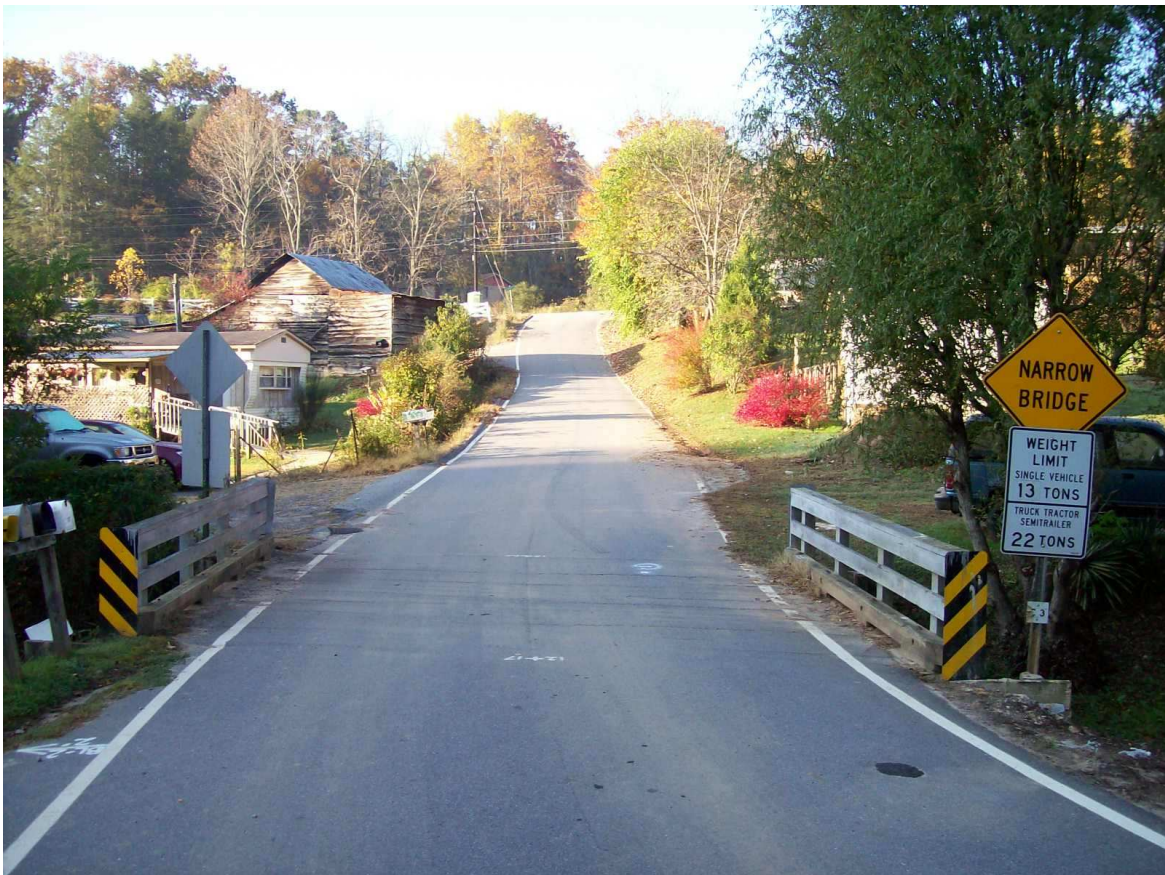


SR 1373, northbound approach at bridge.

Bridge #309 on SR 1373, Haywood County



SR 1373, southbound approach.



SR 1373, southbound approach at bridge.