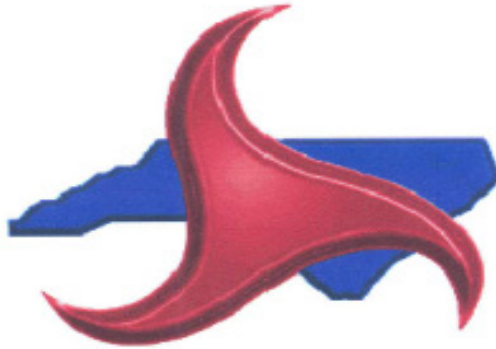


Bridge Design Speed Investigation

Bridge #125 on SR 1560 (Old Linville Road) over Dogback Spring Branch
Creek
McDowell County



Document Prepared By:

Mattern & Craig, Inc.
Consulting Engineers - Surveyors
12 Broad Street
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FAX: (828) 254-4562

Commission No: 3241

May 15, 2012



Investigating Engineer


James Voso, PE

Bridge and Approach Investigation Checklist

Project 17BP.13.R.53
Description Replace Bridge #125 on SR 1560 (Old Linville Road) over Dogback Spring Branch Creek
Route SR 1560 (Old Linville Road)
Division 13
County McDowell

Existing Speed Limit 55 mph ☐ Posted ☒ Statutory

Reasonable & Comfortable
Passenger Car Speed 45 mph

Speed Data N/A

Ball Bank Speed Study Curve south of Bridge #125 had a ball bank indication of 10 at 30 mph.

Warning Signs at Bridge Narrow Bridge warning sign both sides of bridge, Bridge end delineators both ends

Roadside Development Residences located in the northwest and southeast quadrants. Wooded in the southwest and northeast quadrants.

ADT History 510 (2008), 470 (2006), 320 (2004), 340 (2002), 330 (2001), 250 (1999)

Pedestrian/Bicycle Traffic Low

Bridge and Approach
Digital Photos (attached)

Approach Lane Width 8.2'

Approach Shoulder Width: 5.5'
Shoulder Type Grass

Lane Width (existing bridge) 8.5'

Shoulder width (existing bridge) 1.5'

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

Crash History and
Safety Considerations No crashes reported (1/1/2002 - 12/31/2011, 10 years).

Comments Curve north of bridge is too far from bridge to affect speed.

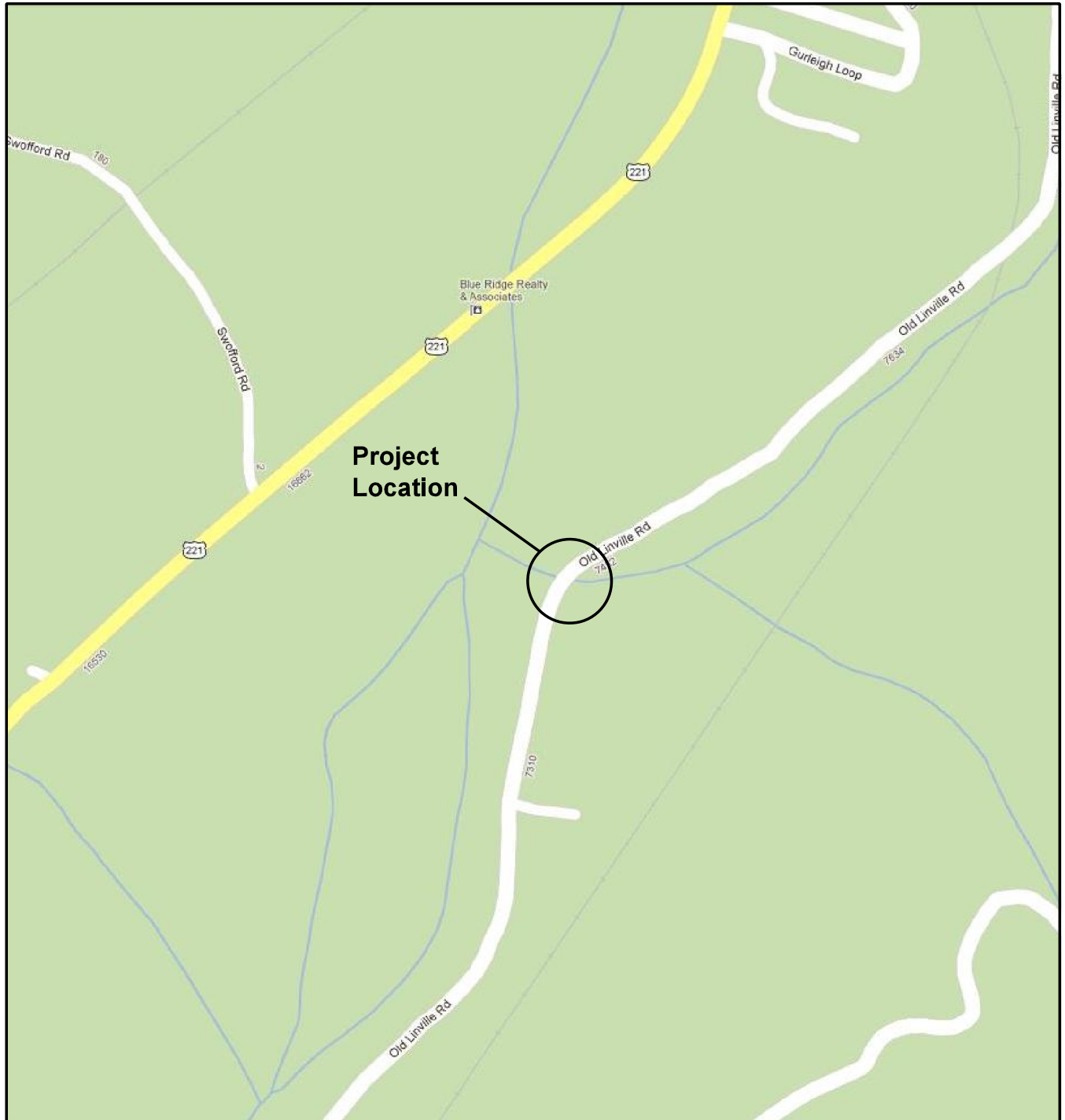
Reasonable Bridge Speed 45 mph

Investigated by: Lori Boyer Reviewed by: James Voso

Bridge #125

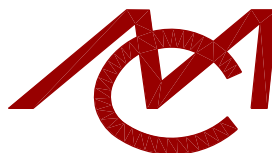
McDowell County

Division 13



VICINITY MAP

Bridge #125 on SR 1560
(Old Linville Road)
over Dogback Spring Branch Creek



Mattern & Craig

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Comm. No. 3241

Bridge Approach Speed Crash Analysis Request

Order # 41000018004

500 feet on Both Sides of Bridge Number 125 on Secondary Route 1560 (Old Linville Road) over Creek in McDowell 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.

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

Study Criteria Summary

County: MCDOWELL **City:** All and Rural
Date: 01/01/2002 **to** 12/31/2011 **Study:** 41000018004
Location: 500 feet on Both Sides of Bridge Number 125 on Secondary Route 1560 (Old Linville Road) over Creek

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
41000018004	41000018004			76.8	8.4	470	40001560

Request Date	Courier Service	Phone No.	Ext.	Fax No.
02/17/2012		(828)650-2700		

County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
MCDOWELL	58	13	All and Rural		0	01/01/2002	12/31/2011	10.00

Location Text	Requestor
500 feet on Both Sides of Bridge Number 125 on Secondary Route 1560 (Old Linville Road) over Creek	D.D. (Bucky) Galloway, PE Blue Ridge Mountains Region Fletcher NC

Fiche Roads	
Name	Code
SR 1560	40001560
OLD LINVILLE	50022332

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1560	40001560	7.323	7.515	0.192	0.309

Bridge #125
McDowell County
Division 13

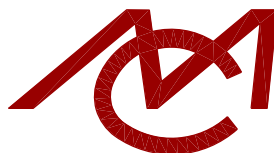


Northbound Approach



Northbound Approach at bridge

Bridge #125 on SR 1560
(Old Linville Road)
over Dogback Spring Branch Creek



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Bridge #125
McDowell County
Division 13

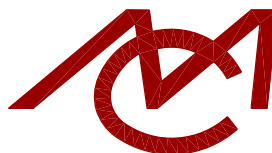


Southbound Approach



Southbound Approach at bridge

Bridge #125 on SR 1560
(Old Linville Road)
over Dogback Spring Branch Creek



Comm. No. 3241

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