
Bridge Design Speed Investigation

010079

Structure #79 on SR 1328 (Kirby Lackey Road) over Grassy Creek

Alexander County



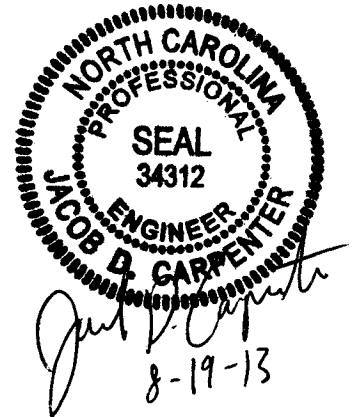
Document Prepared By:

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August 19, 2013

Principal Investigator & Project Manager

Jacob D. Carpenter, PE
Regional Manager



Bridge and Approach Investigation Checklist

Project W02866

Description Bridge # 79 over Grassy Creek

Route SR 1328 (Kirby Lackey Road)

Division 12

County Alexander

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable Passenger Car Speed 55

Speed Data Observed estimated speeds of 50-60 mph.

Ball Bank Speed Study Bridge Speed good at 55 mph per BBI

Warning Signs at Bridge 4 Bridge end delineators, 2 Weight limit signs (30 Tons)

Roadside Development Farmland, Wooded

ADT History 100 vpd (2012)

Pedestrian/Bicycle Traffic Minimal expected

Bridge and Approach Digital Photos Attached

Approach Lane Width 9 ft

Approach Shoulder Width 6-10 ft
Shoulder Type grass

Lane Width (existing bridge) 9 ft

Shoulder width (existing bridge) 2.5 ft (~23 ft total width)

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section SR 1328 is classified as a rural local facility in the Statewide Functional Classification System. 2-lane cross-section recommended.

Crash History and Safety Considerations Crash analysis completed for 5/1/2003 to 4/30/2013. No collisions reported.

Comments Bridge in tangent.

Reasonable Bridge Speed 55

Investigated by: Jacob D. Carpenter, PE

Reviewed by: 

County: Alexander **Bridge and Route:** 010079 – SR 1328 Kirby Lackey Rd.

Date: 8/14/13

Northbound



Northbound



Southbound



Southbound





Bridge Location Map - Bridge #010079

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

Study Criteria Summary

County: ALEXANDER **City:** All and Rural
Date: 5/1/2003 to 4/30/2013 **Study:** ALEXANDERBRIDGE79
Location: SR 1328 (Kirby Lackey Rd), 500 feet either side of Bridge 79

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
ALEXANDERBRIDGE79				76.8	8.4	170	40001328

Request Date	Courier Service	Phone No.	Ext.	Fax No.
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County			Municipality		Y-Line Ft.	Begin Date	End Date	Years
Name	Code	Div.	Name	Code				
ALEXANDER	1	12	All and Rural		0	5/1/2003	4/30/2013	10.00

Location Text	Requestor
SR 1328 (Kirby Lackey Rd), 500 feet either side of Bridge 79	

Fiche Roads	
Name	Code
SR 1328	40001328
KIRBY LACKEY	50016501

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1328	40001328	0.294	0.506	0.212	0.341