Bridge Design Speed Investigation

Estimated Design Based on Ball-Bank Reading (EDBBR)
or Bridge 800358 on SR 1144 (Jim Dobbins Road) over Grays Creek
in Rutherford County



Document Prepared By:

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

October 2, 2026

Principal Investigator

Suzan M. Cerny
Regional Traffic Safety Engineer

Project Manager

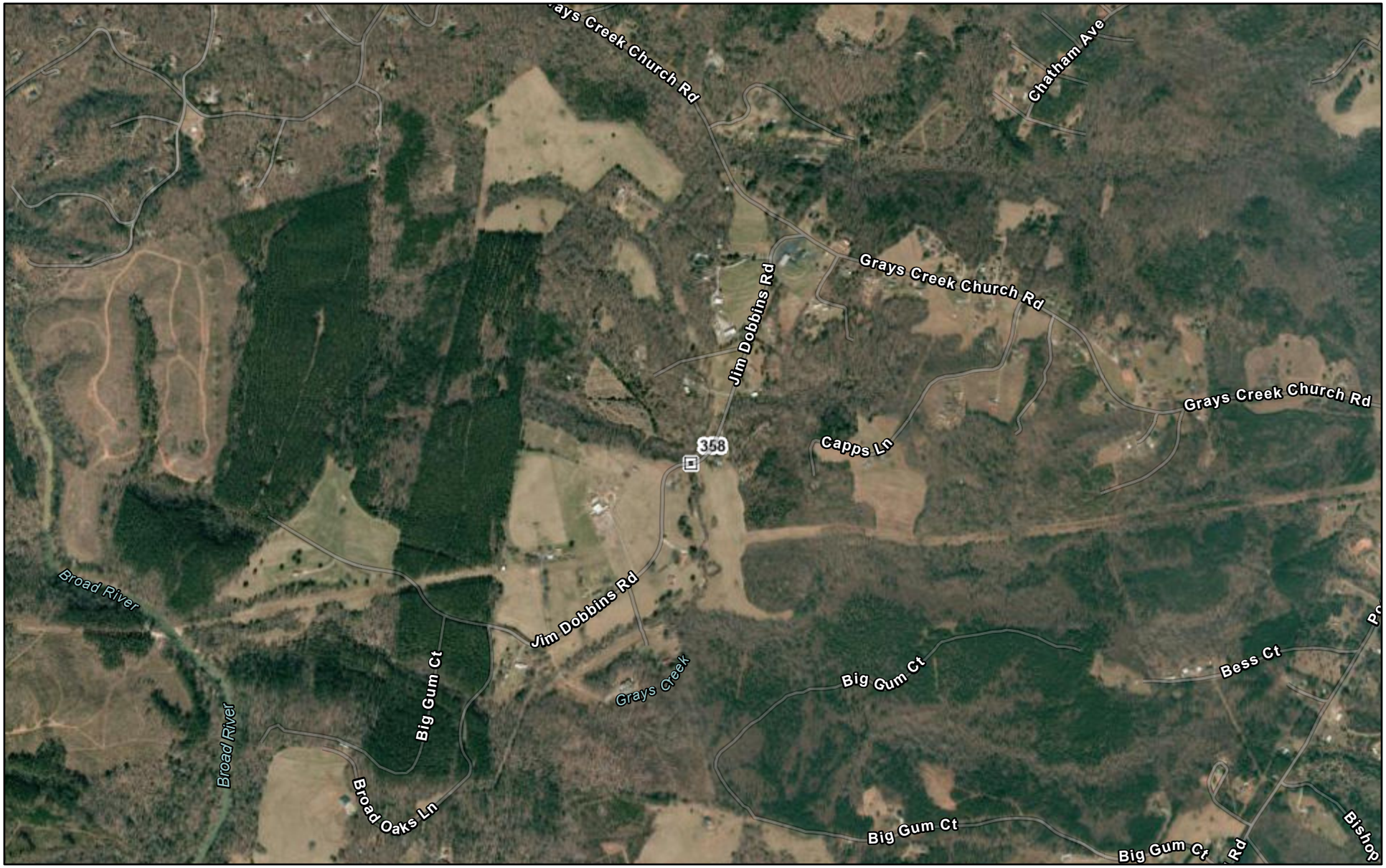
DocuSigned by:
Scott M. Collier
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10/02/2026

Scott M. Collier, PE
Western Regional Field Operations Engineer

Signed by:



Bridge 358



9/21/2026

1:17,842

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Bridge Locations

BRIDGE

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, NCDOT Bridge Maintenance

Bridge and Approach Investigation Checklist

Project: EDBBR for Bridge 800358

Description: Bridge No. 800358 over Grays Creek

Route: SR 1144 (Jim Dobbins Road)

Division: 13

County: Rutherford

Existing Speed Limit: 55 ☐ Posted ☑ Statutory

Reasonable & Comfortable Passenger Car Speed: 45

Speed Data: N/A

Ball Bank Speed Study (if necessary): Proposed alignment is not the temporary alignment on field.

Warning Signs at Bridge: Bridge End Deliniators, Road Closed Sign/Type III Barricades
Weight Limit Sign 25 Tons for a single vehicle 3 tons for tractor/semitrailer

Roadside Development: rural

ADT History: N/A (No AADT Stations nearby)

Pedestrian/Bicycle Traffic: None observed, Road closed

Bridge and Approach Digital Photos: See attached.

Approach Lane Width: 24.4' total width

Approach Shoulder Width: 5'
Shoulder Type: grass

Lane Width (existing bridge): 10-11'

Shoulder width (existing bridge): 1'

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section: Local

Crash History and Safety Considerations: No crashes reported in the last 5 years.

Comments: Bridge closed and under repair

Reasonable Bridge Speed 45

Investigated by: S.M.Cerny

Reviewed by: S.M.Collier, PE

County: Rutherford **Description:** Bridge 800358 over Grays Creek **Route:** SR 1144 (Jim Dobbins Road)

SR 1144 – Southbound



SR 1144 – Southbound



SR 1144 – Northbound



SR 1144 – Northbound



Study Criteria Summary

County: RUTHERFORD **City:** All and Rural
Date: 09/01/2016 **to** 08/31/2026 **Study:** 41000079635
Location: SR 1144 (Jim Dobbins Rd) from 500 ft S of Bridge 800358 at MP 0.351 over Grays Creek to 500 ft N of the bridge at MP 0.546

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
41000079635				76.8	8.4	100	

Request Date	Courier Service	Phone No.	Ext.	Fax No.

County		Municipality				
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
RUTHERFORD	81	13	All and Rural		0	09/01/2016	08/31/2026	10.00

Location Text	Requestor
SR 1144 (Jim Dobbins Rd) from 500 ft S of Bridge 800358 at MP 0.351 over Grays Creek to 500 ft N of the bridge at MP 0.546	

Fiche Roads

Name	Code
SR 1144	40001144
DOBBIN	50008524

Strip Road

Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1144	40001144	0.351	0.546	0.195	0.314

All data presented in this report comes explicitly from the Traffic Engineering Accident Analysis System based upon va criteria provided by the report's creator. The onus is strictly upon the user of this report to exercise due diligence in in and further representing this data.