

Bridge Approach Speed Investigation

Bridge # 380224 over Beaver Pond Creek on SR 1501 (Townsville Rd)

Granville County

WBS Element # 17BP.5.R.3



Document Prepared By:

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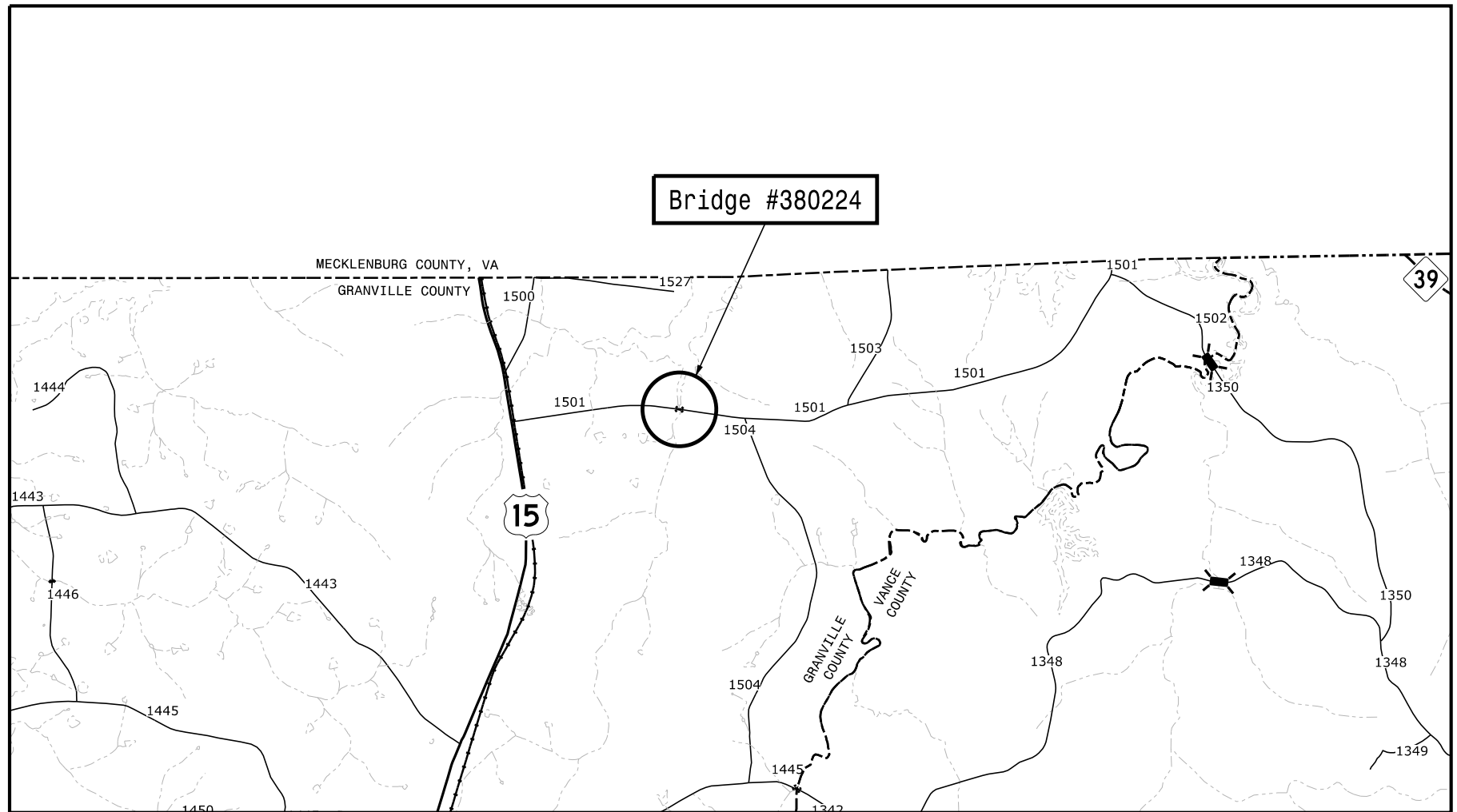
Bradley A. Reynolds, PE
Project Manager



Division 5 - Granville County

Design Build Year 2 Bridge Program

Bridge locations plotted based on coordinates provided by Bridge Management



Division	County	Structure Number	Structure Description	Latitude	Longitude
5	Granville	380224	Bridge #224 over Creek on SR 1501	36.52924953	-78.5170326



1"=5000'
SCALE

Bridge and Approach Investigation Checklist

Project 17BP.5.R.3

Description Bridge #224 over Beaver Pond Creek on SR 1501

Route SR 1201 (Townsville Rd)

Division 5

County Granville

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable Passenger Car Speed 55-60 mph

Speed Data N/A

Ball Bank Speed Study No study, bridge in tangent section

Warning Signs at Bridge Object Markers (OM-3L & OM-3R) - one located at each bridge corner
Weight Limit Signs (Single Vehicle 13 tons, TTST 16 tons) - 1x each Appr.

Roadside Development Wooded/Rural
Land surrounding creek owned by US Army Corps of Engineers.

ADT History 790 vpd from 2010 NCDOT Traffic Survey Map
800 vpd from 2008 NCDOT Traffic Survey Map

Pedestrian/Bicycle Traffic Minimal expected.
Worn dirt/grass vehicle path to creek in NE quadrant.

Bridge and Approach Digital Photos Attached

Approach Lane Width 19' overall pavement width with 9.5' lanes

Approach Shoulder Width: 7'±
Shoulder Type Grass

Lane Width (existing bridge) 25' overall pavement width with 9.5' lanes

Shoulder width (existing bridge) 3'

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section N/A, NCDOT-designated Minor Collector

Crash History and Safety Considerations Zero reported collisions in a ten-year history (2/1/02 to 1/31/2012).

Comments Fishing lures on power line near bridge. Possible fishing off of bridge.
Passing zone on bridge.

Reasonable Bridge Speed 55 mph

County: Granville

Description: Bridge #224 over Beaver Pond Creek

Route: SR 1501

SR 1501 (Townsville Rd) Eastbound $\pm 250'$ from Bridge #224



SR 1501 (Townsville Rd) Eastbound $\pm 50'$ from Bridge #224



SR 1501 (Townsville Rd) Westbound $\pm 250'$ from Bridge #224



SR 1501 (Townsville Rd) Westbound $\pm 50'$ from Bridge #224



County: Granville

Description: Bridge #224 over Beaver Pond Creek

Route: SR 1501

Eastbound view of Bridge #224 structure



Westbound view of Bridge #224 structure



View north from Bridge #224 of fishing lures on overhead wire



Bridge Approach Speed Crash Analysis Request

Order # 41000018451

500 feet on Both Sides of Bridge Number 224 on Secondary Route 1501 (Townsville Road) over Creek in Granville 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: GRANVILLE **City:** All and Rural
Date: 02/01/2002 **to** 01/31/2012 **Study:** 41000018451
Location: 500 feet on Both Sides of Bridge Number 224 on Secondary Route 1501 (Townsville Road) over Creek

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
41000018451	41000018451			76.8	8.4	630	40001501

Request Date	Courier Service	Phone No.	Ext.	Fax No.
03/12/2012		(919)773-2778		

County			Municipality		Y-Line Ft.	Begin Date	End Date	Years
Name	Code	Div.	Name	Code				
GRANVILLE	38	5	All and Rural		0	02/01/2002	01/31/2012	10.00

Location Text	Requestor
500 feet on Both Sides of Bridge Number 224 on Secondary Route 1501 (Townsville Road) over Creek	Kelly L. Becker, PE Capital Safety Region Raleigh NC

Fiche Roads	
Name	Code
SR 1501	40001501
TOWNSVILLE	50030777

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1501	40001501	0.820	1.046	0.226	0.364