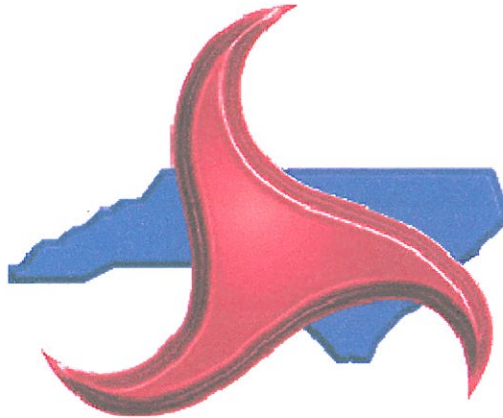


Bridge Design Speed Investigation

Division 6 Express Design-Build

17BP.6.R.77

Bridge 414 over Watson's Pond on SR 1323 (Watson Mill Pond Road)
Robeson County



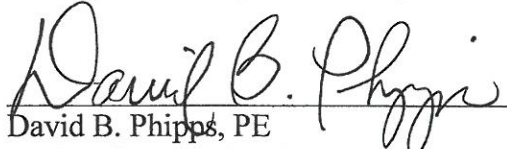
Document Prepared By:

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

July 22, 2016



Principal Investigator & Project Manager


David B. Phipps, PE
Regional Traffic Engineer

Bridge and Approach Investigation Checklist

Project 17BP.6.R.77
Description Bridge 414 over Watson's Pond.
Route SR 1323 (Watson Mill Pond Road).
Division 6
County Robeson

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable
Passenger Car Speed 40-50

Speed Data None

Ball Bank Speed Study N/A

Warning Signs at Bridge Type 3 Object Markers (OM-3L and OM-3R) - 2 each.

Roadside Development Wooded, some residential development near NC 211 intersection.

ADT History No ADT data available. Low volume road estimated at 500- 1000 ADT.

Pedestrian/Bicycle Traffic Minimal expected.

Bridge and Approach
Digital Photos Attached.

Approach Lane Width 9 ft.

Approach Shoulder Width: 4 ft.
Shoulder Type Soil/Grass.

Lane Width (existing bridge) 9 ft.

Shoulder width (existing bridge) 2 ft.

Strategic Corridor / Thoroughfare
Designation and Recommended
Cross Section SR 1323 is classified as a local road.
Two lane cross section recommended.

Crash History and
Safety Considerations There were no reported crashes in the five year study.

Comments The short length of the section between stop conditions and BST
pavement limit speeds to 40-50 mph.

Reasonable Bridge Speed 45 mph

Investigated by: David B. Phipps, PE

Reviewed by: David B. Phipps, PE

County: Robeson

Looking North

Description:

Bridge 414

Route:SR 1323



Looking South

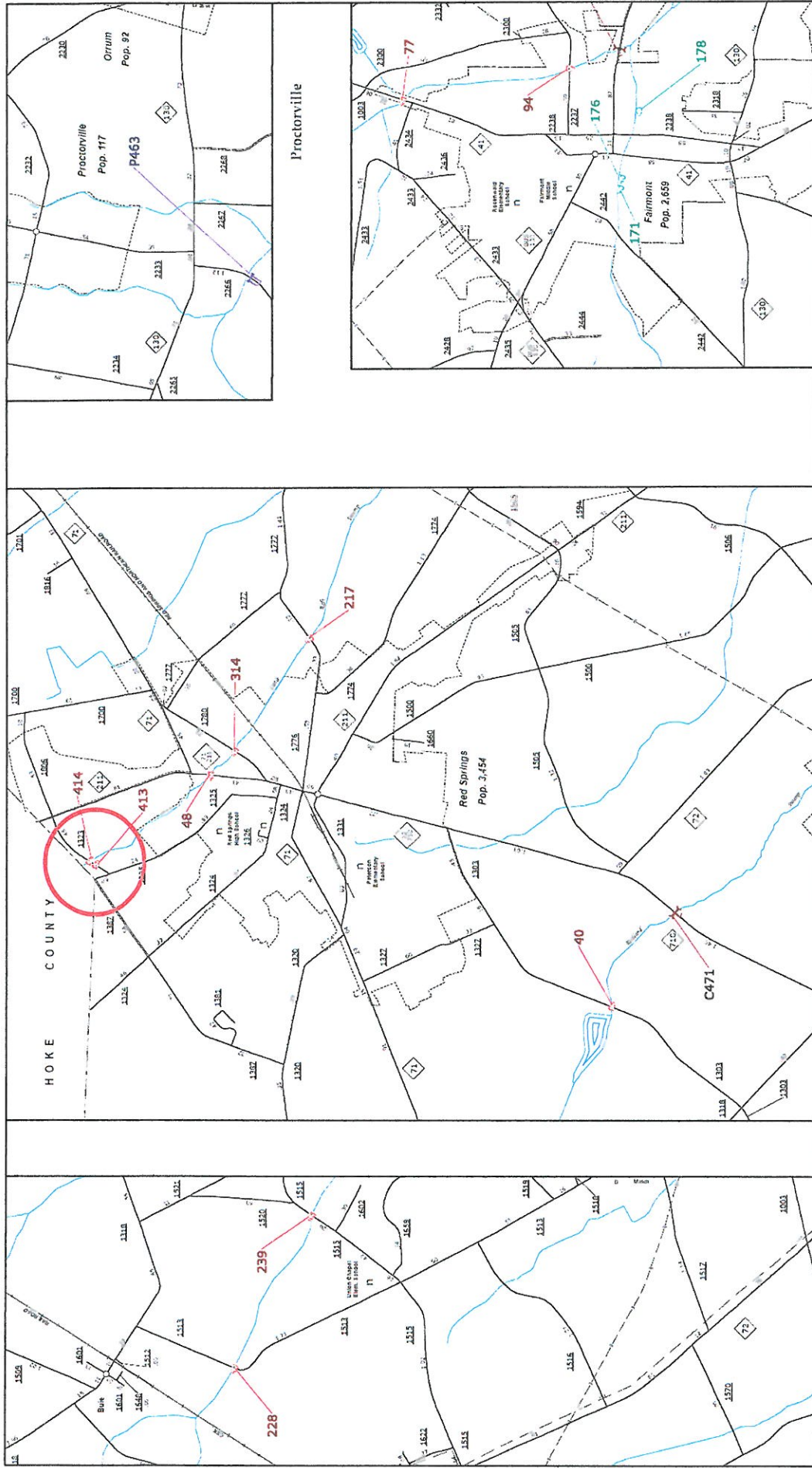


Looking South



Looking North





Bridge 413 and Bridge 414 Over Watson's Pond on SR 1323 (Watson Mill Pond Road)

Robeson County

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

Study Criteria Summary

County: ROBESON City: All and Rural
Date: 6/1/2006 to 05/31/2016 Study: ROBESONBRIDGE413
Location: On SR 1323 (WATSON MILL POND RD) FROM 500 NORTH OF BRIDGE 414 TO 500 FEET SOUTH OF BRIDGE 413

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
ROBESONBRIDGE413				76.8	8.4	500	40001323

Request Date	Courier Service	Phone No.	Ext.	Fax No.
		919-707-6604		

County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
ROBESON	78	6	All and Rural		0	6/1/2006	05/31/2016	10.00

Location Text	Requestor
On SR 1323 (WATSON MILL POND RD) FROM 500 NORTH OF BRIDGE 414 TO 500 FEET SOUTH OF BRIDGE 413	Virginia Mabry Manager of Priority Projects Unit

Fiche Roads	
Name	Code
SR 1323	40001323
WATSON MILL RD	50032260
SR 1806	40001806
INDUSTRIAL RD	50014936

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1323	40001323	0.242	0.478	0.236	0.380