

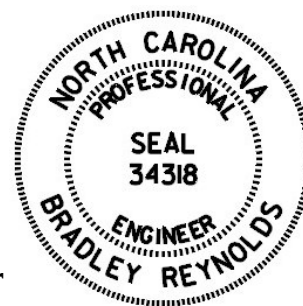
Bridge Approach Speed Investigation

Bridge # 050117 over Henson Creek on SR 1127 (Little Henson Creek Rd)
Avery County
Project Number 17BP.11.R.138



Document Prepared By:

HNTB North Carolina, P.C.
343 E. Six Forks Rd
Raleigh NC, 27609
NC License No: C-1554



Principal Investigator

DocuSigned by:

Evan Brigham

1/5/2017

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Evan Brigham, EI
Traffic Engineer

Project Manager

DocuSigned by:

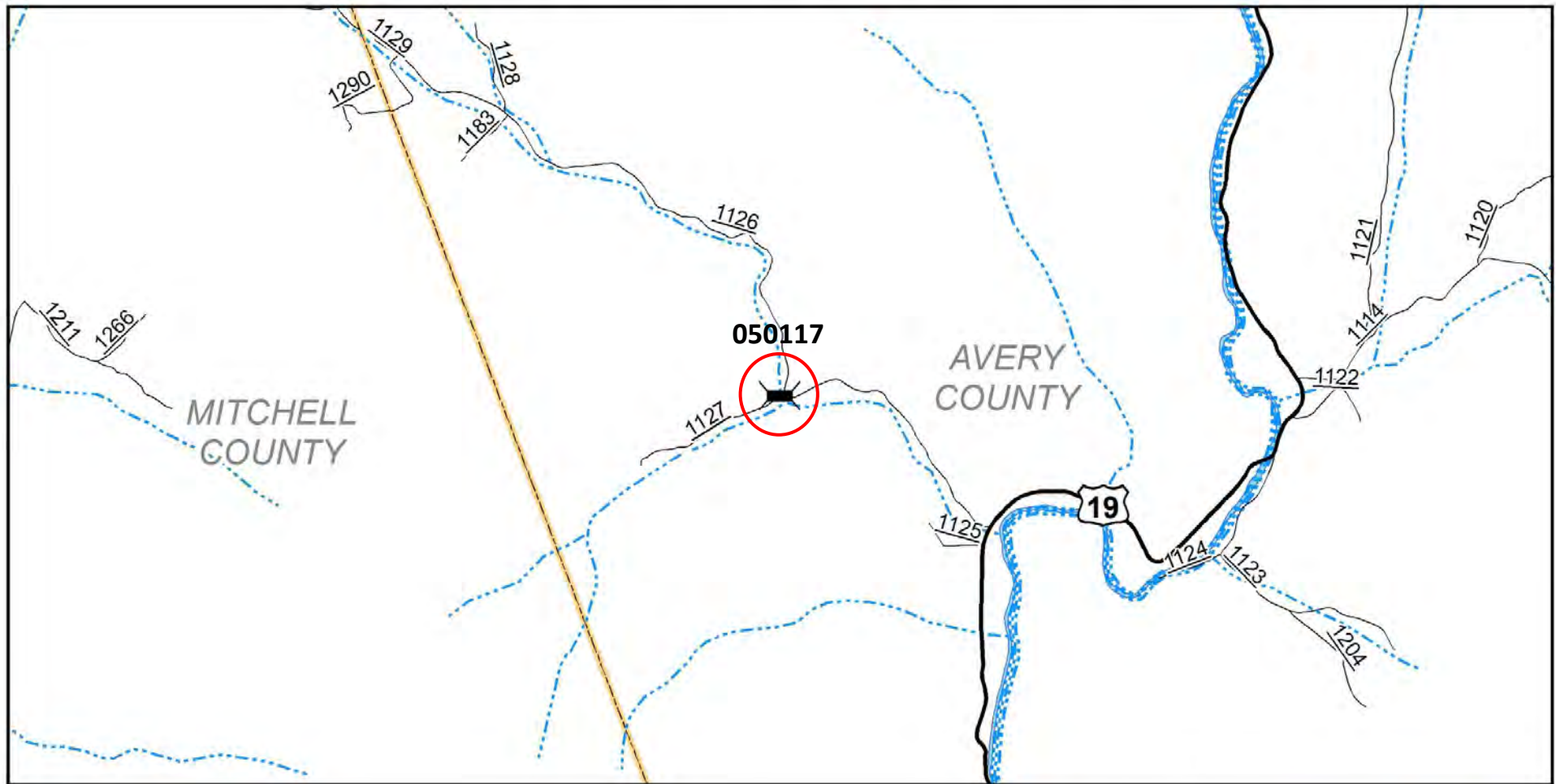
Bradley Reynolds

1/5/2017

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Bradley Reynolds, PE
Project Manager

Division 11 - Avery County Design Build Year 6/7 Bridge Program



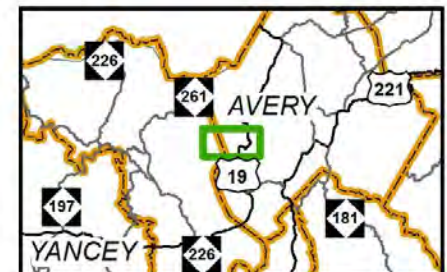
Structure Number	Division	County	Structure Description	Latitude	Longitude
050117	11	Avery	Bridge #050117 over Henson Creek	36.02942	-82.03485



HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554



1 in = 2,500 ft
SCALE



Bridge and Approach Investigation Checklist

Project 17BP.11.R.138

Description Bridge #050117 over Henson Creek

Route SR 1127 (Little Henson Creek Rd)

Division 11

County Avery

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable Passenger Car Speed 25 mph

Speed Data No speed data was collected; no traffic was present.

Ball Bank Speed Study Curve on NB approach ball banks: 12 at 25 mph, and 15 at 30 mph.
Curve on EB turning movement ball banks: 15 at 20 mph.

Warning Signs at Bridge Object Markers (OM-3L & OM-3R) on each bridge approach
Weight Limit Signs - 1 x each approach

Roadside Development Residential/Woods. Auto body shop on NB approach.

ADT History 500 vpd from Crash Analysis
490 vpd from 2014 AADT Map, Avery County

Pedestrian/Bicycle Traffic Minimal amount expected

Bridge and Approach Digital Photos Attached

Approach Lane Width 16' overall pavement width. No pavement markings.

Approach Shoulder Width: 2'
Shoulder Type Grass

Lane Width (existing bridge) 20' overall pavement width. No pavement markings.

Shoulder width (existing bridge) 0'

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section Local, Rural

Crash History and Safety Considerations No crashes have been reported in the vicinity of the bridge from 11/1/2006 to 10/31/2016 (10 years).

Comments Bridge directly adjacent to three-leg stop-controlled intersection. EB approach must stop on bridge.
No pavement markings on bridge or NB approach.
Residential driveway on each approach. Cars and shacks on NB approach.
Steel supports beneath bridge show signs of rust.

Reasonable Bridge Speed 25 mph

Investigated by: Evan Brigham, EI 12/13/2016 Reviewed by: Bradley Reynolds, PE

SR 1127 (Little Henson Creek Rd) Northbound ± 250' from Bridge #117

SR 1127 (Little Henson Creek Rd) Northbound ± 50' from Bridge #117



SR 1127 (Little Henson Creek Rd) Southbound ± 200' from Bridge #117

SR 1127 (Little Henson Creek Rd) Southbound ± 50' from Bridge #117



View of Bridge #117 Looking Northeast



View of Bridge #117 Looking Northwest



Bridge shows signs of rust



