

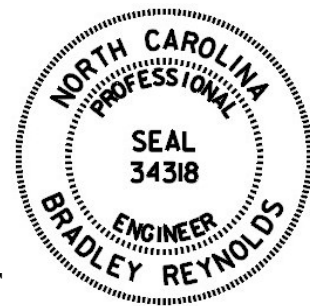
Bridge Approach Speed Investigation

Bridge # 040321 over Helton Creek on SR 1526 (John Griffith Rd)
Ashe County
Project Number 17BP.11.R.136



Document Prepared By:

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Principal Investigator

DocuSigned by:

Sheena Green

1/5/2017

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Sheena Green
Traffic Engineer

Project Manager

DocuSigned by:

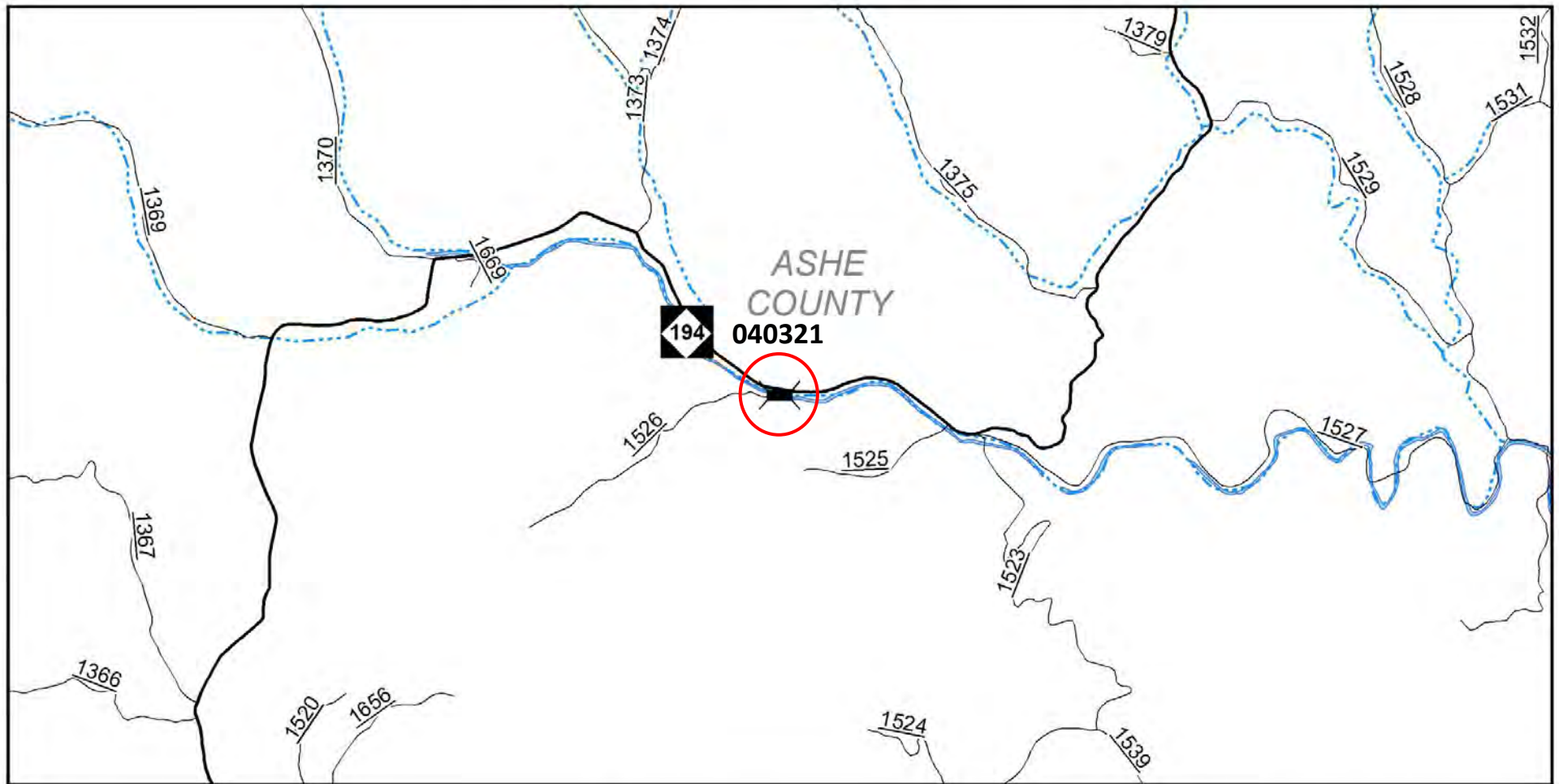
Bradley Reynolds

1/5/2017

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Bradley Reynolds, PE
Project Manager

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



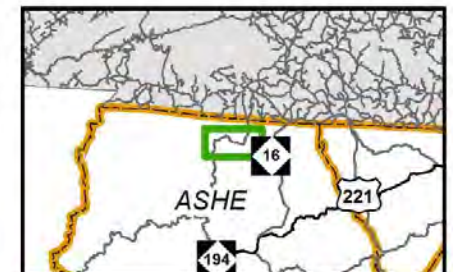
Structure Number	Division	County	Structure Description	Latitude	Longitude
040321	11	Ashe	Bridge #040321 over Helton Creek	36.54973	-81.47964

HNTB

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1 in = 2,500 ft
SCALE



Bridge and Approach Investigation Checklist

Project 17BP.11.R.136

Description Bridge #040321 over Helton Creek

Route SR 1526 (John Griffith Rd)

Division 11

County Ashe

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable Passenger Car Speed 20 mph

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

Ball Bank Speed Study Curve on NB approach ball banks: 10 at 10 mph
Curve on SB approach ball banks: 10 at 10 mph

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

Roadside Development Rural/Residential/Agricultural

ADT History 100 vpd from Crash Analysis
AADT count not available for study location. Crash AADT calculated based on engineering judgment.

Pedestrian/Bicycle Traffic N/A

Bridge and Approach Digital Photos Attached

Approach Lane Width 12' overall pavement width with one (1) 12' lane

Approach Shoulder Width: Varies from 0-3'
Shoulder Type Grass

Lane Width (existing bridge) 18' overall pavement width with 9' lanes

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 Helton United Methodist Church +/-1500' NW of bridge. Intersection with NC 194 is approximately 50' (CL-CL) North of bridge
Sharp Curve at South end of bridge (no advisory)
Signs on the approaches include: Dead End Advisory (20 mph)
Consider moving bridge 400' west of current location to eliminate curve and provide perpendicular crossing of creek.

Reasonable Bridge Speed 20 mph

Investigated by: Sheena Green, 12/06/2016 Reviewed by: Bradley Reynolds, PE

SR 1526 (John Griffith Rd) Northbound $\pm$ 250' from Bridge #321



SR 1526 (John Griffith Rd) Northbound $\pm$ 50' from Bridge #321



SR 1526 (John Griffith Rd) Southbound $\pm$ 250' from Bridge #321



SR 1526 (John Griffith Rd) Southbound $\pm$ 50' from Bridge #321



View of Bridge #321 Looking Southwest



View of Bridge #321 Looking Southeast



Advance Warning Sign North of bridge



Stop sign at Northern corner of bridge



