



January 17, 2017

Mr. Larry Absher
North Carolina Department of Transportation
Division 11 - Location & Surveys Office
P. O. Box 250
801 Statesville Road
North Wilkesboro, 28659

Description: Structure Number 04-0321, Ashe County

Dear Larry:

Outlined below is a summary of the Survey that was conducted on the aforementioned Bridge Number:

- WBS Number 17bp.11.R.136, Bridge 04-0321 over Helton Creek on SR 1526 in Ashe County, North Carolina.
- Field Surveyed between the dates of 01/02/17 thru 01/05/17.
- Worked performed for Division 9 – Location & Surveys Office.
- The Localized coordinate system developed for this project is based on the State Plain Coordinates established by NCDOT for monument "GPS-2" with NAD 83/NA 2011 State Plain Grid Coordinates of Northing: 1028237.7472 (ft), Easting: 1271650.1088 (ft), and having an elevation of 2758.14 (ft). The average combined grid factor used on this project (ground to grid) is: 1.00000251. The Vertical Datum used is NAVD 88.
- The geographical coordinates for the center of the bridge are N 36°32'58.96"W 81°28'46.74"
- There is a Utility attached to the Bridge, see attachment "A" for a picture.
- CALYX called in 811 tickets for this site (Ticket # A170030729-00A). Underground utilities were mark by 811 at the time of the Survey. Below are the listed utilities in the area along with 811's comments:

Member Code	Description	Response
BRE02*	BLUE RIDGE ELECTRIC MEMBERSHIP CORP. POWER Marked	01/03/17 10:16 AM 20
SKY01	SKYLINE TELEPHONE/SKYBEST COMMUNICATIONS PHONE AND CABLE Marked	01/03/17 02:43 PM 20

- See Attachment "A" for pictures of Site.
- Right of Way was established using the Right of Way abstract information provided to CALYX by NCDOT.

- This is a two lane bridge, three span with wood and asphalt deck. The bridge has wood head walls and wing walls. The interior bents are concrete and the beams are steel with wooden guardrails.
- The parameters used to develop the .tin file are as follows: side dissolve option was used with a side length of 100 feet, the curve stroke tolerances was set at 0.15 and a minimum length of 30 feet.
- Deliverables are as listed below:
 - FS file to include control information normally shown on survey control sheet.
 - DTL File.
 - TIN File.
 - GPK File with ELN & BLN.
 - Baseline Text.
 - Survey report in Word Document format.
 - Survey Certification letter.
 - Deed Index book in .pdf format.
 - Propcon Data Base

Attachment "A"

Looking up station



Looking Down Station



Looking up stream



Looking down stream



Utility attached to the West side of Bridge



Please contact CALYX Engineers + Consultants, Inc. if you have any comments or questions.

Yours truly,

A handwritten signature in blue ink, appearing to read "J. David Lee, II".

Mr. J. David Lee, II, PLS
Principal
Charlotte Survey Manager

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