STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

PENDER COUNTY

BRIDGE NO. 28 OVER LONG CREEK ON NC 210



N.C.

STATE PROJECT REFERENCE NO.

B-5156

RW01 6

BECIN TIP PROJECT B-5156
|-L- Sto. 12 10:00 | END TIP PROJECT B-5156
|-L- Sto. 32+82.00 | TO 1:48

GRAPHIC SCALE
FOR RW04 AND RW05

50 25 0 50 100
PLANS

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "B5156-2"
WITH NAD 83/NA 2011STATE PLANE GRID COORDINATES OF NORTHING: 252680.919(ft) EASTING: 2295286.023(ft) ELEVATION: 20.206(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999976799
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B5156-2" TO -L- STATION 10+00.00 IS

S 84-37'00.1" W 2,892.28(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES

VERTICAL DATUM USED IS NAVD 88

RIGHT OF WAY DATE: LE

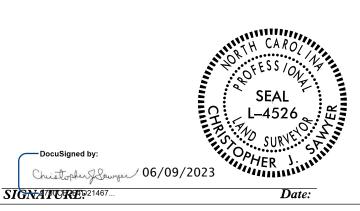
AUGUST 28, 2019

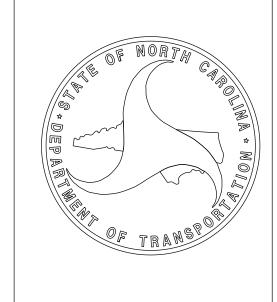
Prepared in the Office of:

LOCATION AND SURVEYS UNIT DIVISION 3 5310 BARBADOS BLVD, SUITE 102 CASTLE HAYNE, NORTH CAROLINA 28429

> LETTING DATE: SEPTEMBER 19, 2023

PROFESSIONAL LAND SURVEYOR





NUNITSNINUSNER OJECTSNBRIDGENFENDER NBSISG_LONGUR EER NWORKING NISU jauval AT LS-328725L

07-JUN-2023 10:42 S:\Units\Div03\Projects\BRIDGE\P mjduval AT LS-328725L

EL	T N I						l I	T T	
POINT	N		BEARING	DIST	DELTA				K
POT	2524Ø9.571	2292406.501							
LINE			S 81°38′18.4" E	252.02					
PC	252372.923	2292655.839							
CURVE			S 81°52′40.7" E	536.15	ØØ°28′44.5"(LT)	ØØ°Ø5′21.6"	536.15	268.Ø8	64128.93
PT	252297.175	2293186.612							
LINE			N 82°Ø7′Ø2.9" W	0.00					
PC	252297.175	2293186.610							
CURVE			S 87°18′26.3" E	312.44	10°22′46.8"(LT)	Ø3°19′Ø3.3"	312.87	156.86	1727.04
PT	252282.497	2293498.707							
LINE			N 87°30′10.3" E	308.40					
PC	252295.933	2293806.810							
CURVE			N 81°37′54.8" E	293.89	11°44′31.Ø"(LT)	Ø3°59′18.Ø"	294.41	147.72	1436.59
PT	252338.7Ø4	2294Ø97.574							
LINE			N 75°45′39.3" E	22.46					
PC	252344.228	2294119.341							
CURVE			N 75°21′38.4" E	339.25	00°48′01.8"(LT)	00°14′09.5"	339.25	169.63	24281.69
PT	252429.967	2294447.575							
LINE			N 74°57′37.5" E	661.27					
POT	2526Ø1.557	2295Ø86.19Ø							

87° 30′ 10" E

NCGS "167HBZ"

BL				
POINT	DESC.	NORTH	EAST	ELEVATION
BL3	TRV CAP & REBAR	252385.2650	2292458.1750	11.56
BL4	TRV CAP & REBAR	252287.5870	2293133.9900	14.25
BL5	TRV CAP & REBAR	252313.0980	2293801.7460	15.30
BL6	TRV CAP & REBAR	252439.8180	2294554.9180	14.96
B51562	GPS CAP & REBAR	252680.9190	2295286.0230	20.21
B51561	GPS CAP & REBAR	252989.7490	2296546.4690	22.51

I, Christopher J. Sawyer, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA Type of GPS field procedure: RTN Dates of survey: August 3, 2017 Datum/Epoch: NAD 83/ NA 2011 Published/Fixed-control use: N/A for RTn Localized around: B5156-2 Northing: 252680.919 Easting: 2295286.023

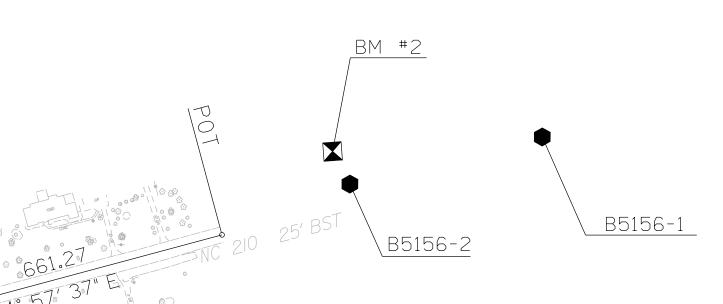
Combined grid factor: 0.999976799

Geoid model: G12NC Units: Survey feet

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from August 2, 2017 to August 3, 2017, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 9th day of June, 2023.

Professiona Parid Surveyor L-4526



NOTES:

- 1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

ELEVATION = 8.20 E 2293845 N 2522Ø4 TIE SPIKE IN 24" PINE ELEVATION = 23.72 N 252732 E 2295259 TIE SPIKE IN 24" OAK

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83 NA 2011

PROJECT REFERENCE NO.

B-5156

Location and Surveys

LOCATIONS AND SURVEYS UNIT DIVISION 3 5310 BARBADOS BLVD, SUITE 102 CASTLE HAYNE, NORTH CAROLINA 28429

PROJECT SURVEYOR

SHEET NO.

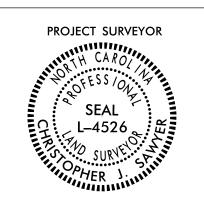
RW02C-1

PROJECT REFERENCE NO.

Location and Surveys

SHEET NO.

LOCATION AND SURVEYS UNIT DIVISION 3 5310 BARBADOS BLVD, SUITE 102 CASTLE HAYNE, NORTH CAROLINA 28429



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Christopher J. Sawyer, PLS, certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

This 9th day of June, 2023.

DocuSigned by:
ChristopherySawyer

Professional Land Surveyor L-4526

TYPE	STATION	NORTH	EAST
POT	10+00.00	252409.5712	2292406.5011
PC	13+70.39	252355.7088	2292772.9585
PT	18+44.19	252331.5082	2293245.4298
PC	25+68.04	252363.0457	2293968.5872
PT	31 + 15.31	252446.3048	22945Ø8.3793
POT	37+12.00	252601.1387	2295084.6343

NOTES:

- 1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 2. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

150 series sheets/h5156 | S rw82d-1.don

07-JUN-2023 10:50 S:\Units\Div@3\Projects\BRIDGE\Pend

RIGHT OF WAY CONTROL SHEET

I, Christopher J. Sawyer, PLS, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed September 15 and December 5, 2022 and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 9th day of June, 2023.

Professional Land Surveyor L-4526

PROJECT REFERENCE NO. B-5156

RW03E-1 Location and Surveys

SHEET NO.

LOCATION AND SURVEYS UNIT DIVISION 3 5310 BARBADOS BLVD. SUITE 102 CASTLE HAYNE, NORTH CAROLINA 28429



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROW MARKER IRON PIN AND CAP

	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				_
ALIGN	STATION	OFFSET	NORTH	EAST	
L	10+00.00	-30.00	252439.2523	2292410.8637	
	10+00.00	30.00	252379.89Ø1	2292402.1385	
	12+15.00	-30.00	252407.9872	2292623.5783	
	12+16.00	30.00	252348.4796	2292615.8425	
L	12+40.00	-50.00	252424.1391	2292651.2209	NOT SET
L	12+42.00	50.00	252324.9113	2292638.6577	
L	13+70.39	-50.00	2524Ø5.1773	2292780.2294	
L	13+70.39	50.00	2523Ø6.24Ø3	2292765.6875	
L	16+00.00	-50.00	252382.7179	2293004.0396	
L	16+95.82	50.00	252279.4511	2293Ø96.3Ø36	
L	18+44.19	-60.00	252391.4512	2293242.8156	
	21+30.00	-70.00	252413.8941	2293527.9145	NOT SET
	25+00.00	-70.00	252430.0148	2293897.5631	
L	25+68.04	-38.00	252401.0097	2293966.9316	
L	30+53.10	30.78	252400.9949	2294455.3595	
L	31 + 15.31	-38.00	252483.0032	2294498.5188	
L	32+82.00	-30.00	252518.5319	2294661.5786	
L	37+12.00	-30.00	252630.1111	2295076.8497	
L	37+12.00	30.00	252572.1662	2295Ø92.4189	

NOTES:

- 1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- 2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 3. RIGHT OF WAY MONUMENTATION ESTABLISHED SEPTEMBER 15 and DECEMBER 5, 2022.

