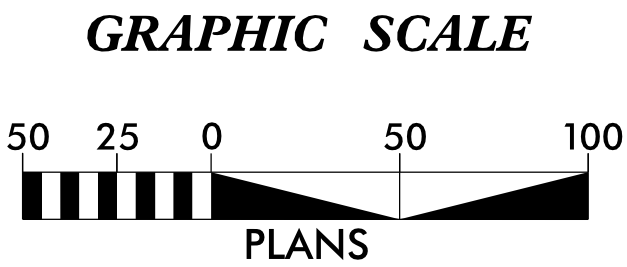
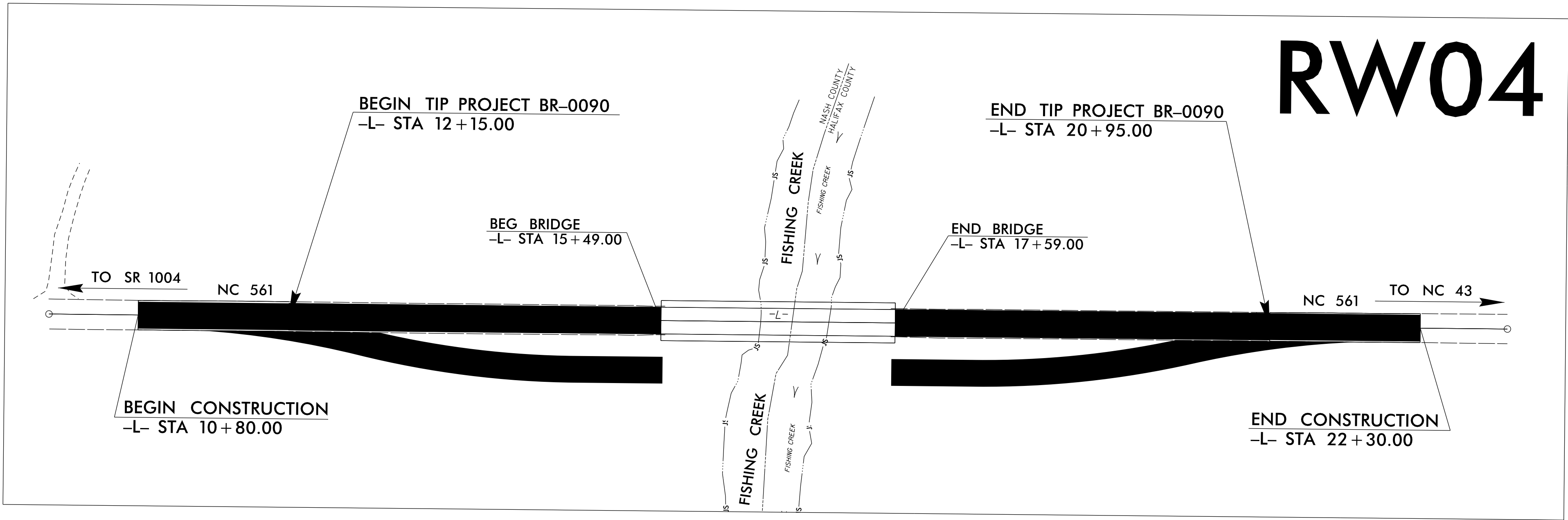
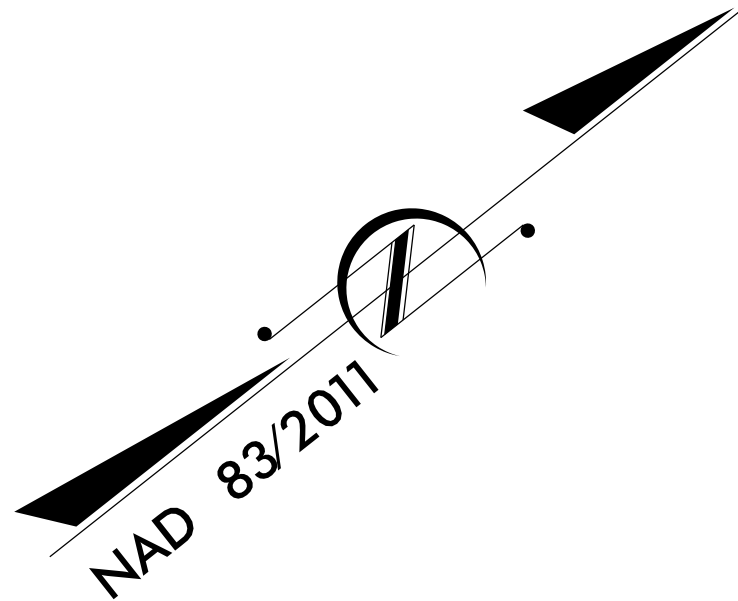


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0090	RW01	04

TIP PROJECT: BR-0090

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

HALIFAX NASH COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "BR0090-2" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 892,418.7266(ft) EASTING: 2,292,969.4230(ft) ELEVATION: 192.116(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.0000050434 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BR0090-2" TO -L- STATION 12+15 IS N 38-58'47" E 1012.09(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:



DRMP NC, INC.
NC License No: F-1524
8000 Regency Pkwy, Suite 110
Cary, NC 27518
PHONE: (919) 650 1038

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
06/03/2024

LETTING DATE:
08/19/2025

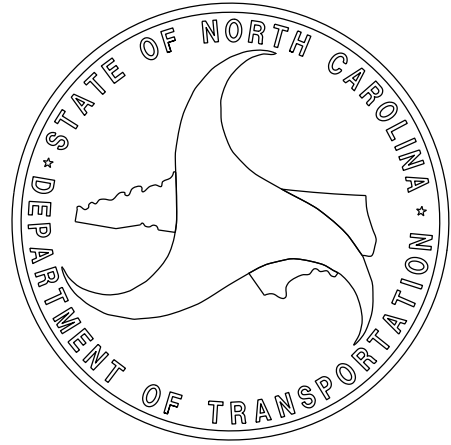
PROFESSIONAL LAND SURVEYOR



DocuSigned by:

AJ Perkinson
SIGNATURE:
373432EB4F1E4DD...

07/11/2024
Date:



REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
BR0090	RW02C-1
Location and Surveys	
WITHERSRAVENEL	
<div>PROJECT SURVEYOR</div> <div><div>SEAL</div><div>L-5146</div><div>RUDOLF A. VANDERVELDE</div></div>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, RUDOLF A. VANDERVELDE JR., 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: VRS-RTN
Dates of survey: 5/31/21 - 6/11/21
Datum/Epoch: NAD 83/2011
Published/Fixed-control use: SITE CONTROL
Localized around: BR0090-2
Northing: 892,418.7266
Easting: 2,292,969.4230
Combined grid factor: 1.0000050434 (GROUND TO GRID)
Geoid model: 12B
Units: SURVEY FEET

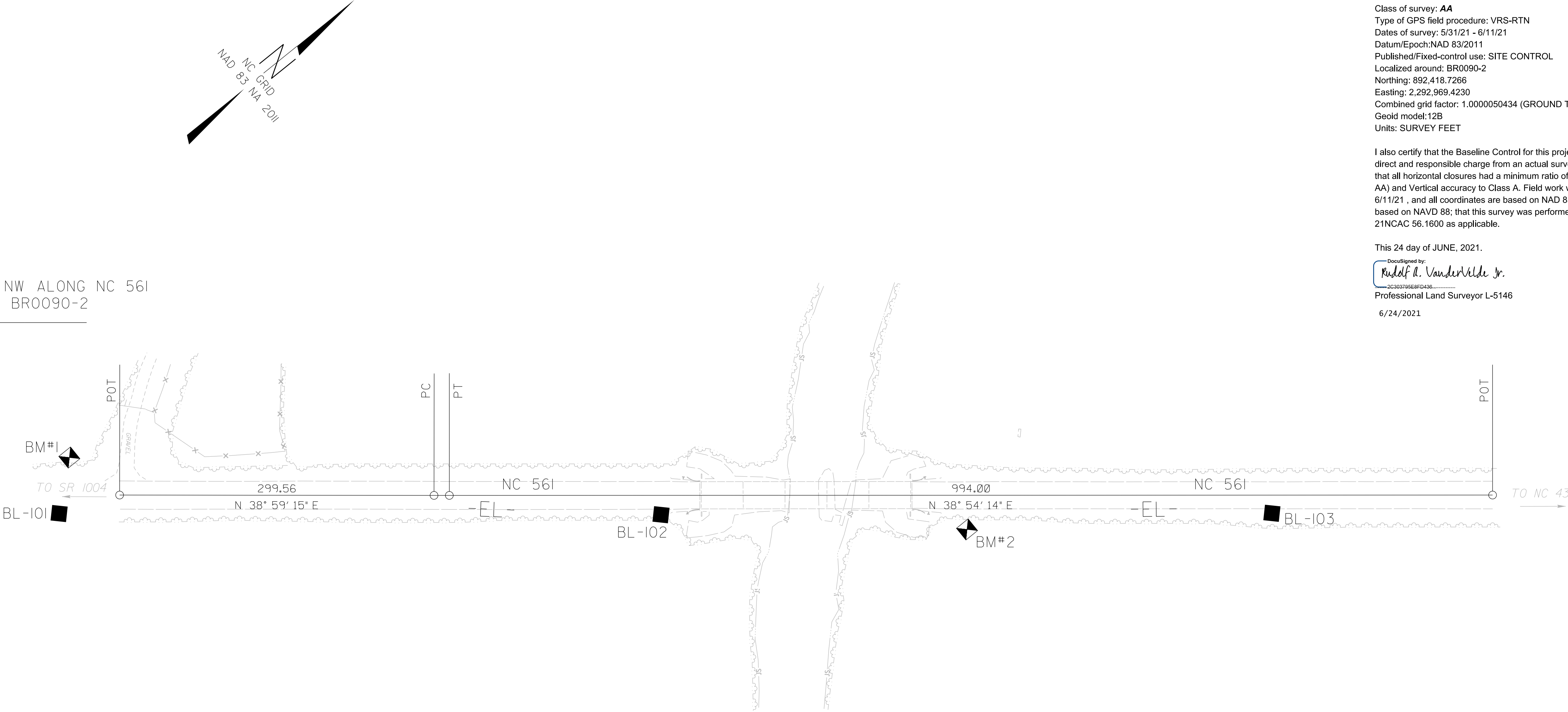
I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 5/31/21 to 6/11/21, 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 24 day of JUNE, 2021.

DocuSigned by:
Rudolf A. VanderVelde Jr.
2C202195687C436
Professional Land Surveyor L-5146

6/24/2021

OFFSITE CONTROL NW ALONG NC 561
BR0090-1 & BR0090-2



NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 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.

REVISIONS

18-JUN-2021 13:45
K:\20\20-0620\200626.10-BR0090 CON Bridge location\Geomatics\NC001\Drawings\br0090.lis.rw02c-2.dgn
r.vandervelde AT WRI701

SURVEY CONTROL SHEET
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION


PROJECT REFERENCE NO.
BR0090

SHEET NO.
RW02C-2

Location and Surveys

WITHERSRAVENEL

PROJECT SURVEYOR




DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, RUDOLF A. VANDERVELDE JR., 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: VRS-RTN
Dates of survey: 5/31/21 - 6/11/21
Datum/Epoch:NAD 83/2011
Published/Fixed-control use: SITE CONTROL
Localized around: BR0090-2
Northing: 892,418.7266
Easting: 2,292,969.4230
Combined grid factor: 1.0000050434 (GROUND TO GRID)
Geoid model:12B
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 5/31/21 to 6/11/21 , 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 18 day of JUNE, 2021.

Professional Land Surveyor L-5146
6/18/2021

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		BR0090-1	892047.0067	2292508.0717	206.76
2		BR0090-2	892418.7266	2292969.4230	192.12
101		BL-101	892982.4150	2293448.2240	172.39
102		BL-102	893427.8720	2293809.4280	165.70
103		BL-103	893881.5670	2294174.0460	166.08

BM1 ELEVATION = 176.74
N 893024 E 2293413
BL STATION 18+42.00 53 LEFT
RR SPIKE IN BASE OF 12" PINE

BM2 ELEVATION = 161.86
N 893646 E 2294004
BL STATION 26+97.00 15 RIGHT
RR SPIKE IN BASE OF 18" OAK

EL	POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT		893038.373	2293470.803							
LINE				N 38°59'15.1" E	299.56					
PC		893271.219	2293659.274							
CURVE				N 38°56'44.6" E	14.59	00°05'01.0"(LT)	00°34'22.6"	14.59	7.30	10000.00
PT		893282.569	2293668.447							
LINE				N 38°54'14.1" E	994.00					
POT		894056.103	2294292.698							


- NOTES:
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
 - 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.


PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.
BR-0090

SHEET NO.
RW02D-1

Location and Surveys






DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, Aaron J. Perkinson, 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 11th day of July, 2024.

DocuSigned by:

Professional Land Surveyor L-5172
373432EB4F1E4DD...

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.

RIGHT OF WAY CONTROL SHEET


PROJECT REFERENCE NO.


BR-0090

SHEET NO.

RW03E-1


Location and Surveys





DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, Aaron J. Perkinson, 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 from July 3rd to July 8th 2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 11th day of July, 2024.
DocuSigned by:
 7/11/2024
Professional Land Surveyor L-5172
373432EB4F1E4DD...

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	12+15.00	-65.00	893246.3842	2293555.5476
L	12+15.00	75.00	893158.3030	2293664.3672
L	12+15.00	-30.00	893224.3639	2293582.7525
L	12+15.00	30.00	893186.6148	2293629.3895
L	12+70.38	75.00	893201.3474	2293699.2084
L	12+70.38	-65.00	893289.4286	2293590.3888
L	13+35.01	-65.00	893339.6190	2293630.9605
L	13+35.01	-80.00	893349.0408	2293619.2896
L	13+43.34	75.00	893258.1799	2293745.1413
L	17+18.00	-80.00	893647.0811	2293859.8114
L	17+18.00	-84.00	893649.5932	2293856.6986
L	20+95.00	75.00	893843.1200	2294217.1946
L	20+95.00	30.00	893871.3807	2294182.1756
L	21+00.00	-84.00	893946.8656	2294096.6009
L	21+00.00	-30.00	893912.9528	2294138.6237

- 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 JULY 3 TO JULY 8 .

