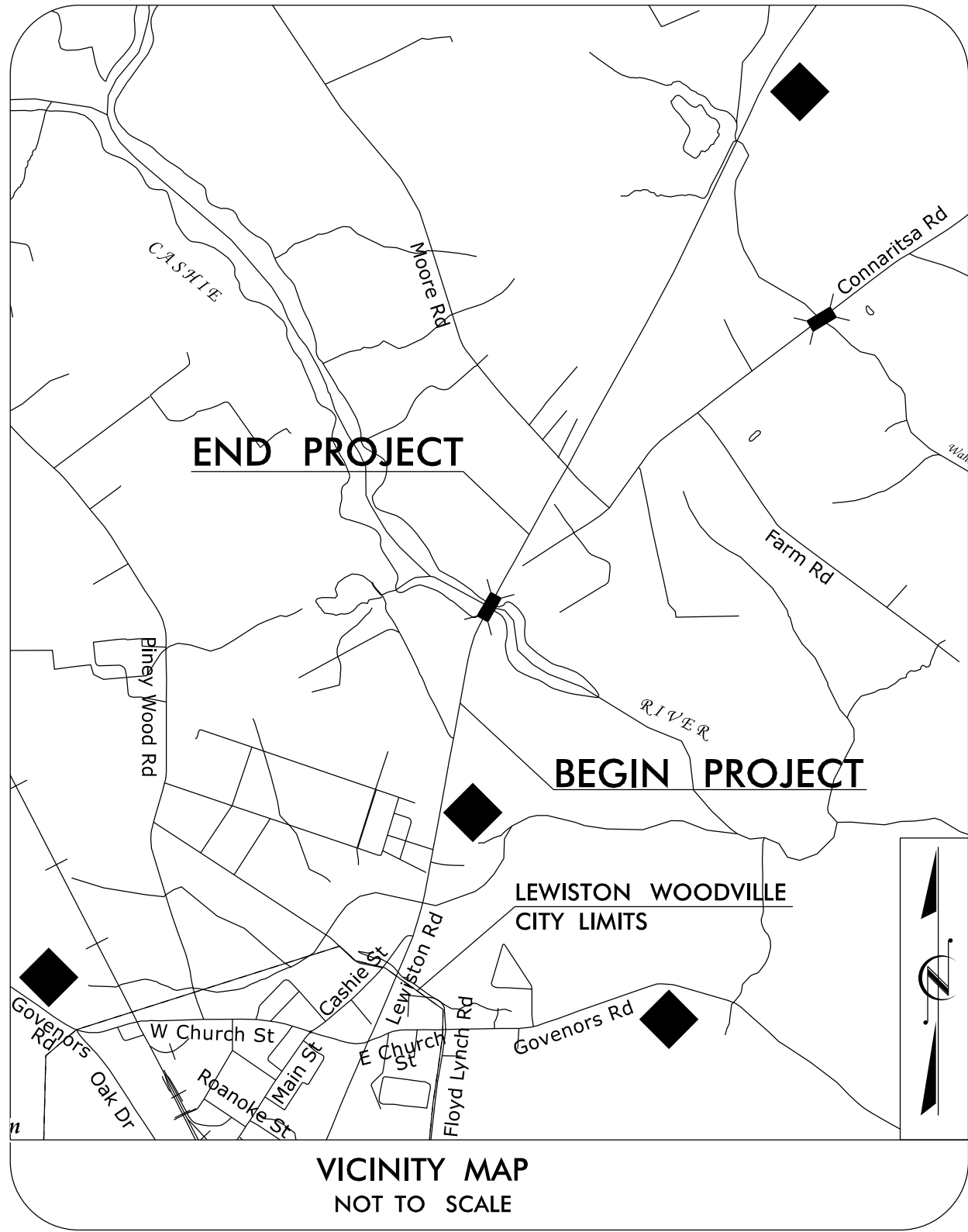


09/08/99

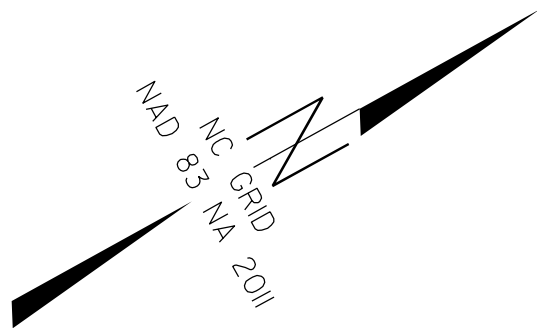
TIP PROJECT: BR-0153

See Sheet 1A For Index of Sheets

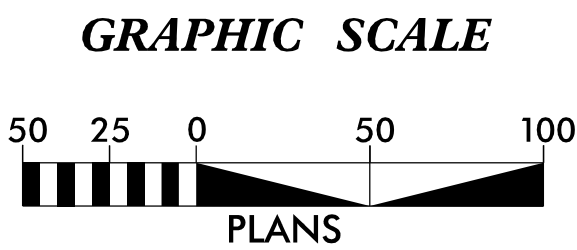
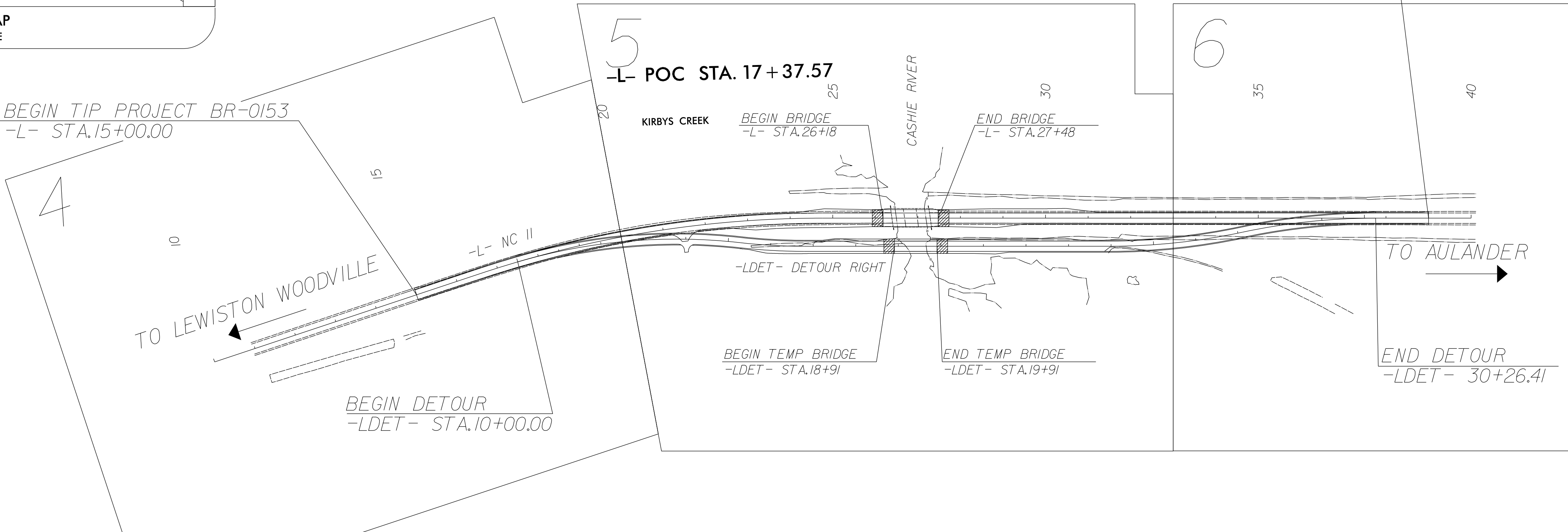


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES
BERTIE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0153	RW01	8



BEGIN TIP PROJECT BR-0153
-L- STA. 15+00.00



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "PANEL 4" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 875,735.4738(ft) EASTING: 2,541,603.7887(ft) ELEVATION: 58.7200(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999960535 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "PANEL 4" TO -L- STATION 15+00.00 IS S 18°06'18.77" W 811.55(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

Location and Surveys
Division 1
1300 US HWY 64 W
Plymouth, NC 27962

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
10/15/2024

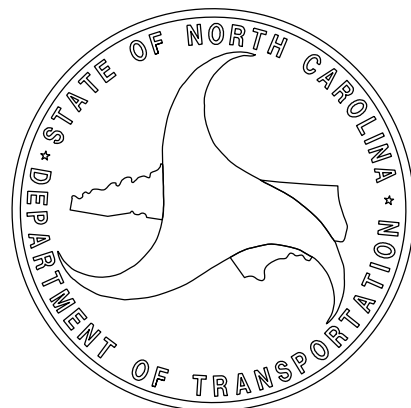
LETTING DATE:
9/16/2025

PROFESSIONAL LAND
SURVEYOR




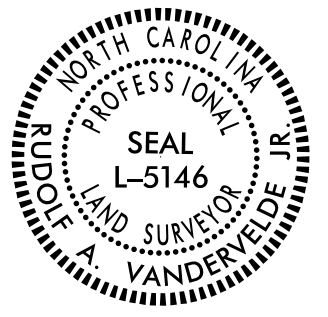
SIGNATURE:
[Signature]

Date:
12/17/2024



SURVEY CONTROL SHEET


W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
BR-0153	RW02C-1
Location and Surveys	
 Engineers Planners Surveyors	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

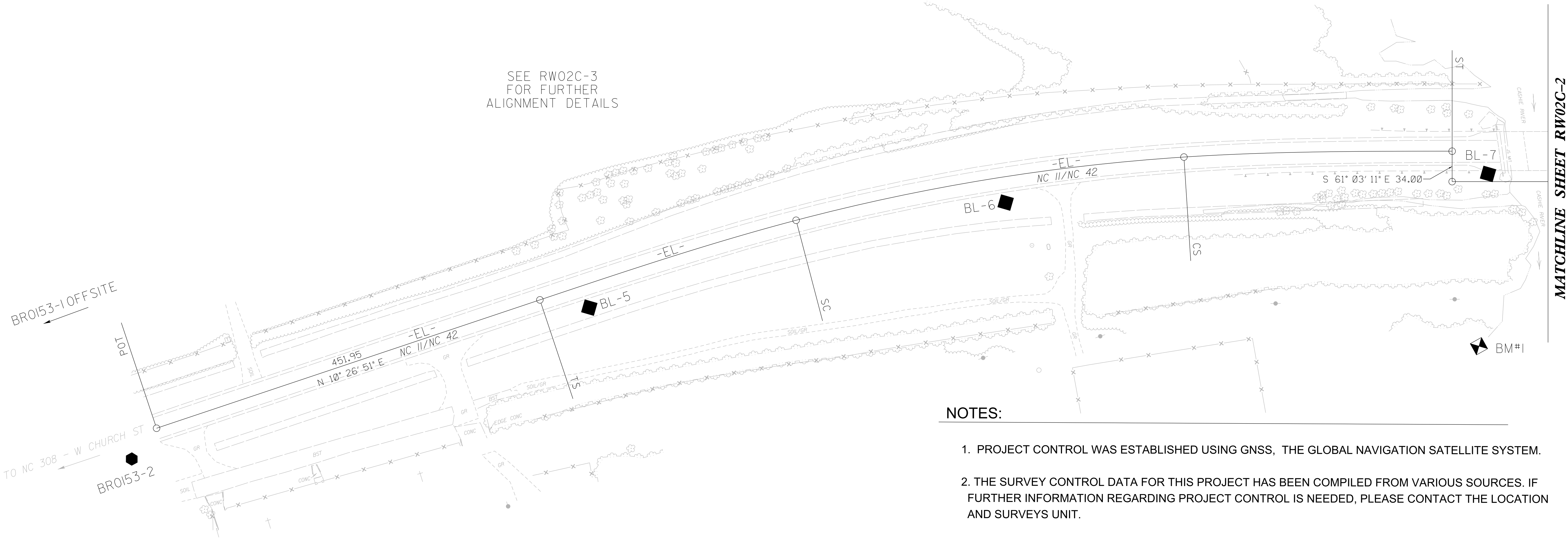
I, RUDOLF A. VANDERVELDE JR., PLS, certify that the Project Control was PERFORMED under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
Type of GPS field procedure: RTN
Dates of survey: 2/8/2023 - 2/24/2023
Datum/Epoch: NAD 83/2011
Published/Fixed-control use: N/A
Localized around: PANEL 4
Northing: 875,735.4738
Easting: 2,541,603.7887
Combined grid factor: 0.9999960535
Geoid model: G12BNC
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 2/8/2023 to 2/24/2023, 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 2ND day of MARCH, 2023.
DocuSigned by:

3/2/2023
Professional Land Surveyor L-5146

SEE RW02C-3
FOR FURTHER
ALIGNMENT DETAILS





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

SURVEY CONTROL SHEET


W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

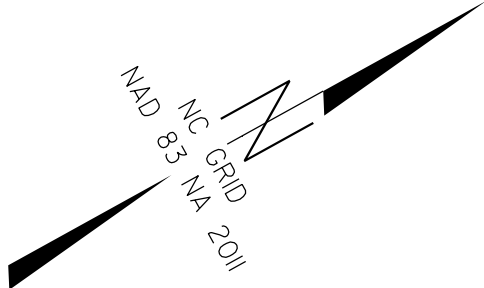
PROJECT REFERENCE NO.	SHEET NO.
BR-0153	RW02C-2
Location and Surveys	
 Engineers Planners Surveyors	
<p>PROJECT SURVEYOR</p> 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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:

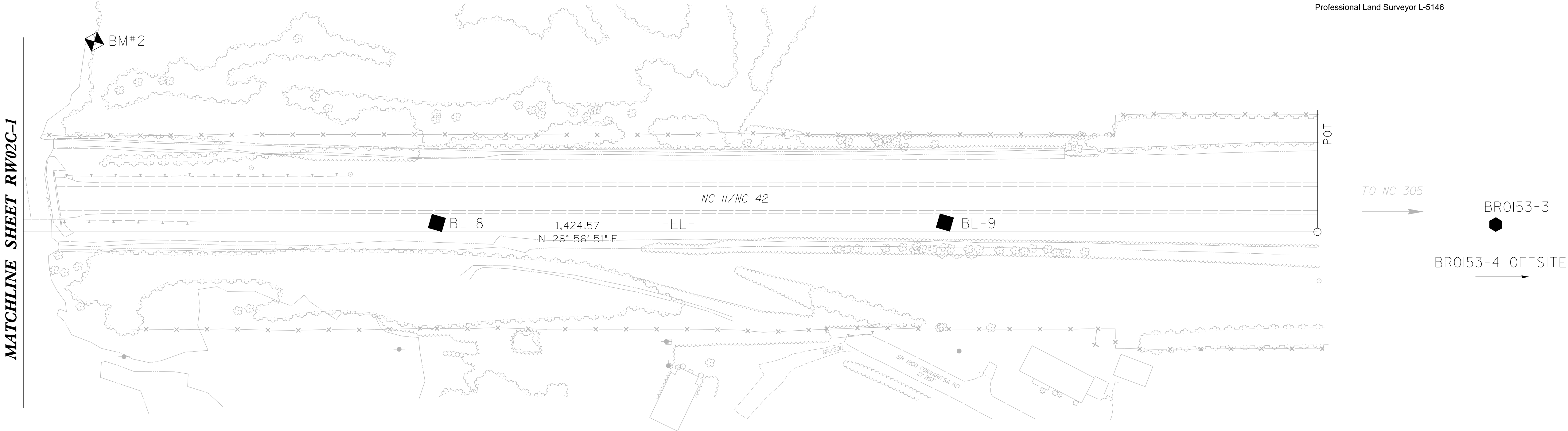
Class of survey: **AA**
Type of GPS field procedure: RTN
Dates of survey: 2/8/2023 - 2/24/2023
Datum/Epoch: NAD 83/2011
Published/Fixed-control use: N/A
Localized around: PANEL 4
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Easting: 2,541,603.7887
Combined grid factor: 0.9999960535
Geoid model: G12BNC
Units: SURVEY FEET

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This 2ND day of MARCH, 2023.
DocuSigned by:

3/2/2023
Professional Land Surveyor L-5146



SEE RW02C-3
FOR FURTHER
ALIGNMENT DETAILS



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


02-MAR-2023 10:08
C:\Users\rvanderVelde\OneDrive\Desktop\NCDOT\Drawings\br0153_1s-rw02c-3.dgn
rvanderVelde AT WRI963

SURVEY CONTROL SHEET
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.
BR-0153

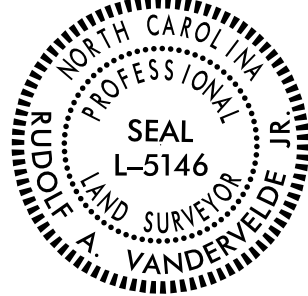
SHEET NO.
RW02C-3

Location and Surveys

WithersRavenel

Engineers | Planners | Surveyors

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: RTN
Dates of survey: 2/8/2023 - 2/24/2023
Datum/Epoch: NAD 83/2011
Published/Fixed-control use: N/A
Localized around: PANEL 4
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Easting: 2,541,603.7887
Combined grid factor: 0.9999960535
Geoid model: G12BNC
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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 2/8/2023 to 2/24/2023, 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 2ND day of MARCH, 2023.
DocuSigned by:
 3/2/2023
Professional Land Surveyor L-5146

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		BR0153-1	873721.7294	2541146.4355	69.25
2		BR0153-2	874524.9189	2541294.3096	65.41
5		BL-5	875054.4330	2541393.8410	62.34
6		BL-6	875518.5690	2541516.4250	58.66
7		BL-7	876006.0130	2541749.4850	57.40
8		BL-8	876433.3330	2541985.2540	55.45
9		BL-9	876886.0780	2542235.2050	59.29
3		BR0153-3	877375.8220	2542508.4835	63.72
4		BR0153-4	878123.3285	2542927.9432	65.84

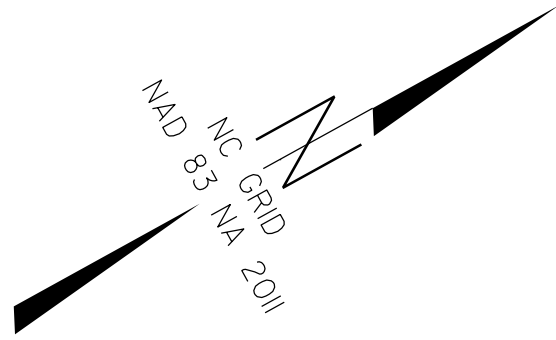
BM1 ELEVATION = 52.05
N 875904 E 2541913
BL STATION 28+54.00 192 RIGHT
RRS IN BASE OF 29" MAPLE

BM2 ELEVATION = 53.66
N 876218 E 2541655
BL STATION 30+15.00 185 LEFT
RRS IN BASE OF 17" MAPLE

EL	POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
POT		874565.846	2541277.638											
LINE				N 10°26'51.3" E	451.95									
TS		875010.300	2541359.593											
SPIRAL				N 11°41'51.2" E	299.94									
SC		875304.014	2541420.405											
CURVE				N 19°41'51.4" E	439.32	11°00'00.0"(RT)	02°30'00.0"	440.00	220.68	2291.83				
CS		875717.631	2541568.481											
SPIRAL				N 27°41'51.5" E	299.94									
ST		875983.204	2541707.897											
LINE				S 61°03'10.8" E	34.00									
POT		875966.748	2541737.648											
LINE				N 28°56'51.4" E	1424.57									
POT		877213.339	2542427.155											

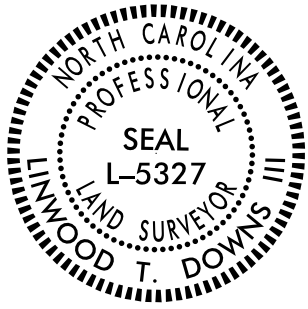
- NOTES:
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
 - THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

-L-
PI Sta 20+70.30
 $\Delta = 18^{\circ} 23' 20.0''$ (RT)
D = 2' 14" 48.8"
L = 818.41'
T = 412.76'
R = 2,550.00'
Super = 0.05
LR = 135'
DS = 60



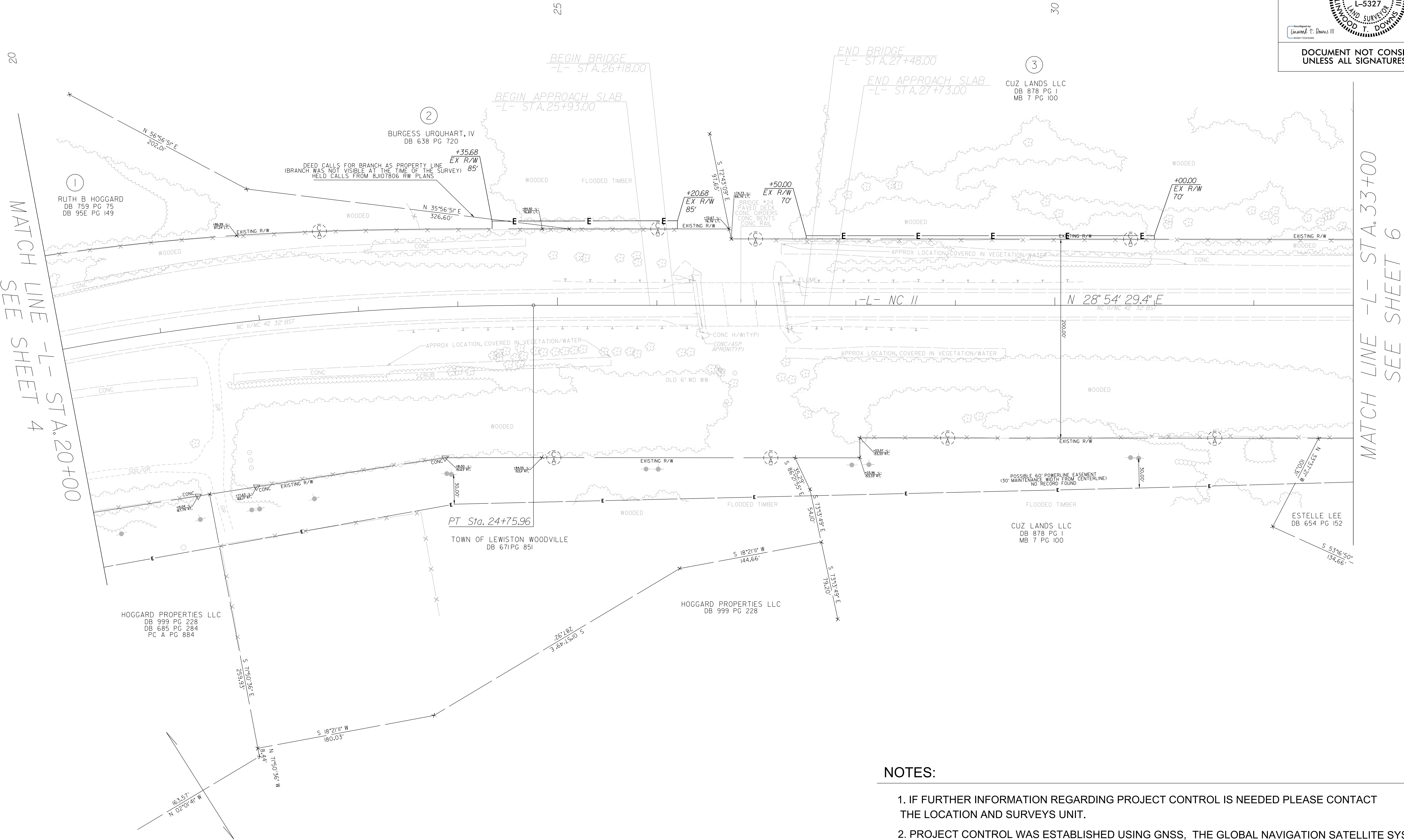
I, Linwood T. Downs III, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed on October 31, 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 13th day of December, 2024.
Professional Land Surveyor L-5327



PROJECT REFERENCE NO.	SHEET NO.
BR-0153	RW05
Location and Surveys	
Location & Surveys Division 1 1300 US HWY 64 West Plymouth, NC 27962	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCH LINE -L- STA. 20+00
SEE SHEET 4



MATCH LINE -L- STA. 33+00
SEE SHEET 6

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 OCTOBER 31, 2024.

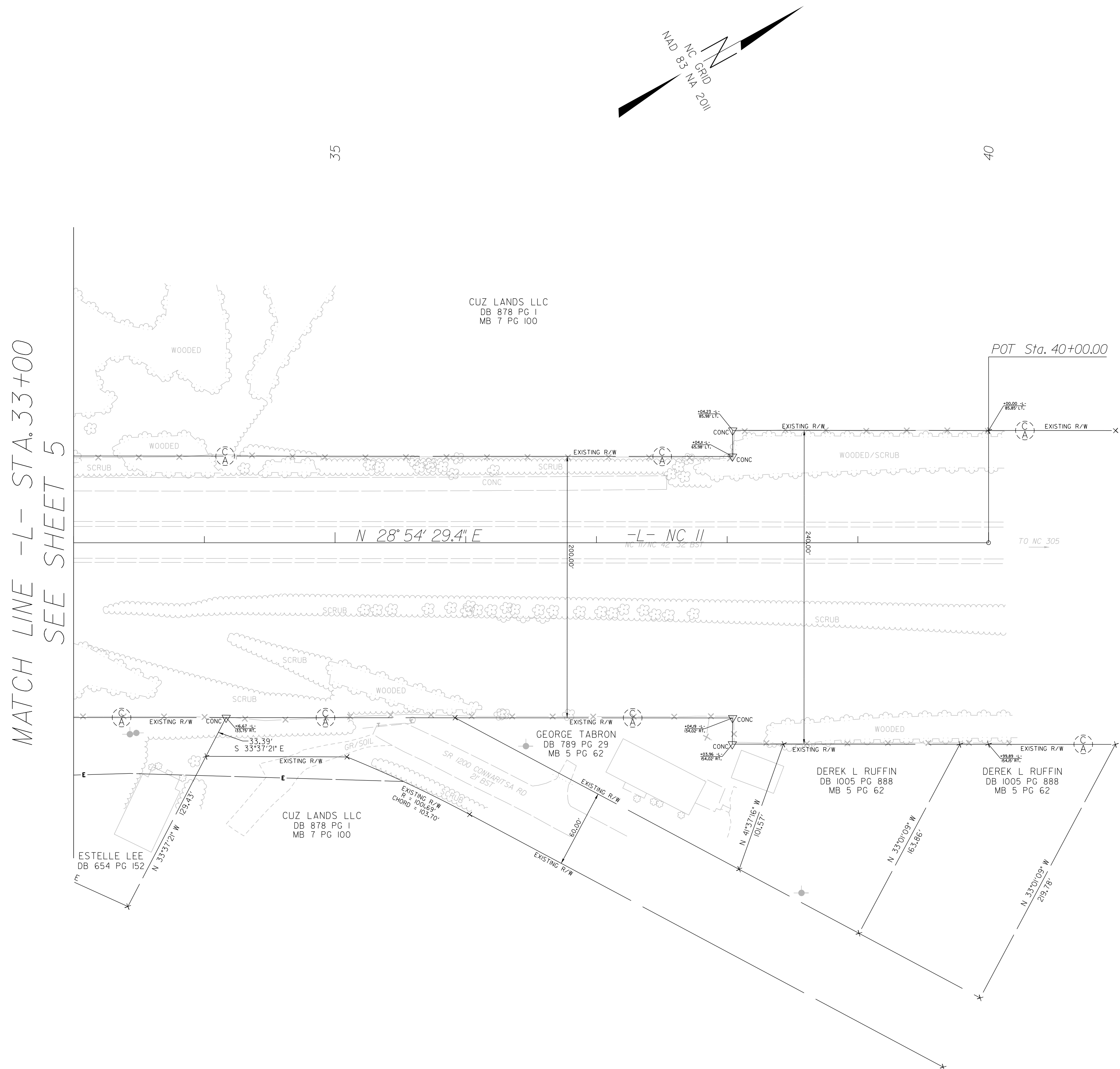
PROJECT REFERENCE NO.	SHEET NO.
BR-0153	RW06

Location and Surveys

**Location & Surveys
Division 1
1300 US HWY 64 West
Plymouth, NC 27962**

A circular seal for the North Carolina Professional Land Surveyor T. Downs III. The outer ring contains the text "NORTH CAROLINA PROFESSIONAL LAND SURVEYOR". Inside the ring, it says "SEAL L-5327" and "T. DOWNS III". At the bottom, there is a signature strip with the name "T. Downs III" and a date field.

UNLESS ALL SIGNATURES COMPLETED



I, Linwood T. Downs III, 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 on October 31, 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 13th day of December, 2024.

DecaSigned by:
Linwood T. Downs III
045521123232692

Professional Land Surveyor L-5327



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 OCTOBER 31, 2024.