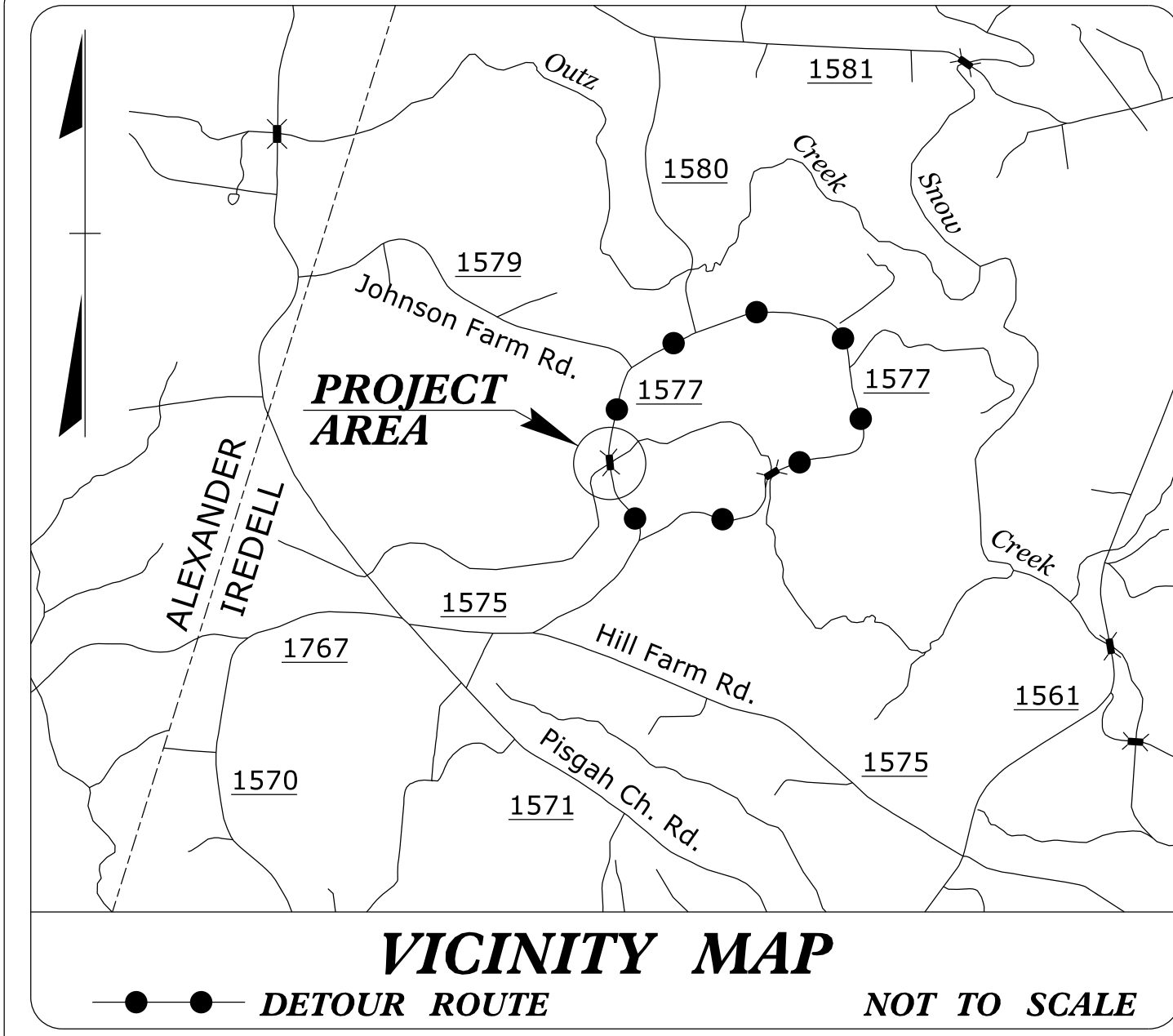


02/20/2020

TIP PROJECT: BR-0107

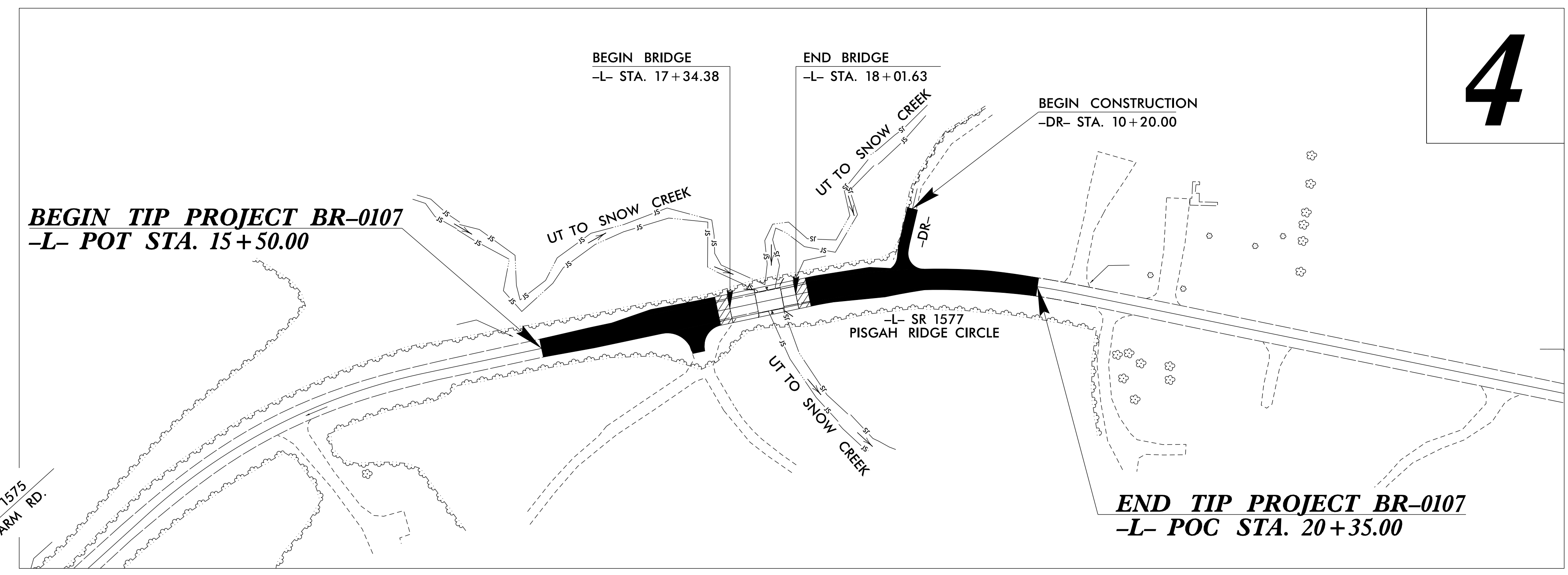
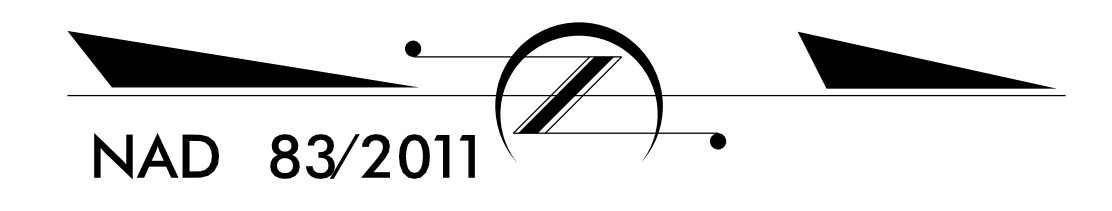
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0107	RW01	



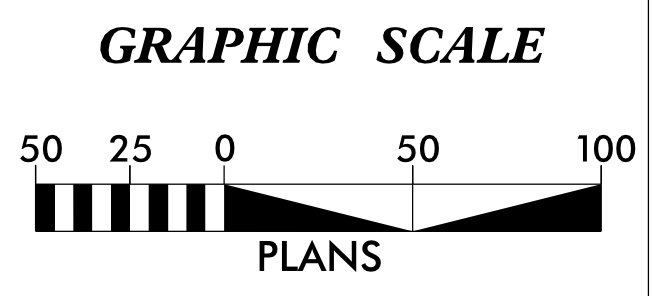
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

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

IREDELL COUNTY



4



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BL-2" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 795,750.2097 (ft) EASTING: 1,407,788.9340 (ft) ELEVATION: 951.37 (ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999001905

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-2" TO -L- STATION 10+00.00 IS S 23°23'25.1" E 785.2433 (ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 1000 BIRCH RIDGE DRIVE
 RALEIGH, NC 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
 JANUARY 27, 2020

LETTING DATE:
 JULY 21, 2020

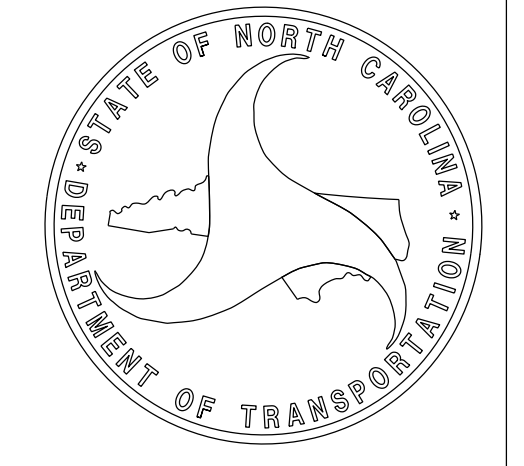
PROFESSIONAL LAND SURVEYOR



DocuSigned by:
 Kyle A. Wehr
 0A18514M877AED

2/21/2020

SIGNATURE: Date:

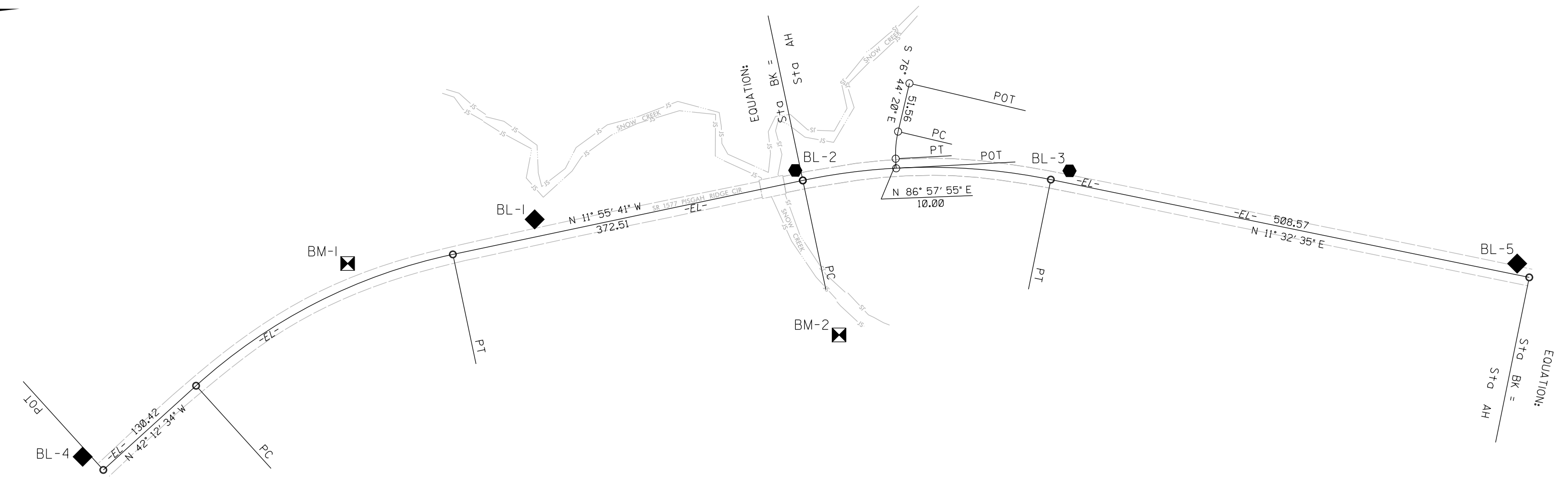
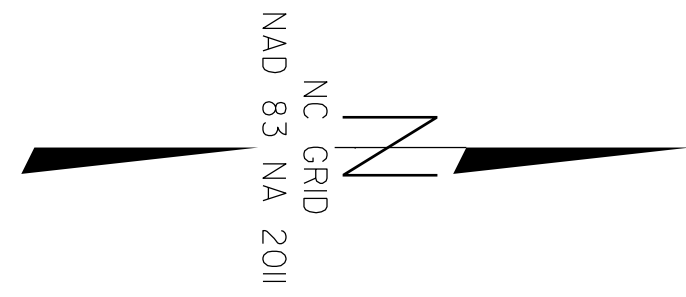


\$\$\$\$\$ SYSTEM TIME\$\$\$\$\$
 \$\$\$ DDMMSS\$\$\$\$\$
 \$\$\$ USERNAME\$\$\$\$\$

PROJECT REFERENCE NO.	SHEET NO.
BR-0107	RW02C-1
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



.....
 BM1 ELEVATION - 975.36
 N 795284 E 1407886
 BENCH TIE SET IN 18" POPLAR

.....
 BM2 ELEVATION - 949.40
 N 795796 E 1407960
 BENCH TIE SET IN 18" BIRCH

BL POINT	DESC.	NORTH	EAST	ELEVATION
4	BL - 4	795007.9520	1408086.8750	1001.31
1	BL - 1	795479.2740	1407841.1100	959.50
2	BL - 2	795750.2097	1407788.9340	951.37
3	BL - 3	796035.8410	1407789.3420	965.67
5	BL - 5	796502.0150	1407885.8530	996.93

EL		N	E	BEARING	DIST	DELTA	D	L	T	R
POT		795029.496	1408100.670							
LINE				N 42°12'34.1" W	130.42					
PC		795126.101	1408013.045							
CURVE				N 27°04'07.7" W	300.37	30°16'53.0"(RT)	09°57'52.1"	303.89	155.59	575.00
PT		795393.567	1407876.360							
LINE				N 11°55'41.2" W	372.51					
PC		795758.036	1407799.367							
CURVE				N 00°11'33.2" W	258.31	23°28'16.0"(RT)	09°01'22.6"	260.13	131.91	635.00
PT		796016.346	1407798.499							
LINE				N 11°32'34.8" E	508.57					
POT		796514.626	1407900.265							

DR		N	E	BEARING	DIST	DELTA	D	L	T	R
POT		795869.089	1407698.326							
LINE				S 76°44'19.8" E	51.56					
PC		795857.262	1407748.509							
CURVE				S 84°53'12.6" E	28.35	16°17'45.7"(LT)	57°17'44.8"	28.44	14.32	100.00
PT		795854.735	1407776.743							
LINE				N 86°57'54.5" E	10.00					
POT		795855.265	1407786.729							

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

02/20/2020
 21-FEB-2020 13:23
 C:\Projects\Fredell\Coun\4\BR0107\BR-0107_1s-RW02C-1.dgn
 kowolif

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
BR-0107	RW02D-1
Location and Surveys	

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	795029.4963	1408100.6698
PC	11+30.42	795126.1006	1408013.0452
PT	14+34.32	795393.5670	1407876.3595
PC	18+05.17	795756.4095	1407799.7107
PT	20+68.57	796017.9739	1407798.8317
POT	25+75.48	796514.6258	1407900.2649

DR

TYPE	STATION	NORTH	EAST
POT	10+00.00	795869.0886	1407698.3261
PC	10+51.56	795857.2617	1407748.5093
PT	10+80.00	795854.7354	1407776.7427
POT	10+90.00	795855.2648	1407786.7287

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 INFORMATINO REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

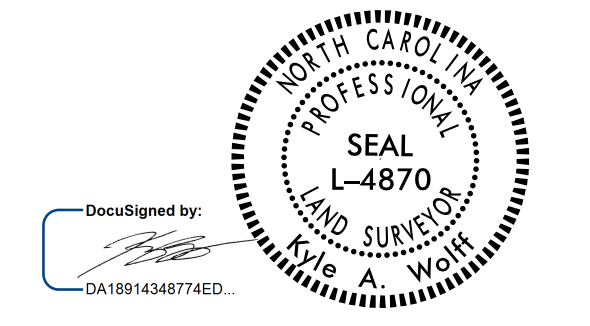
REVISIONS

PERMANT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
BR-0107	RW03E-1

Location and Surveys

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Kyle A. Wolff, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further 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.

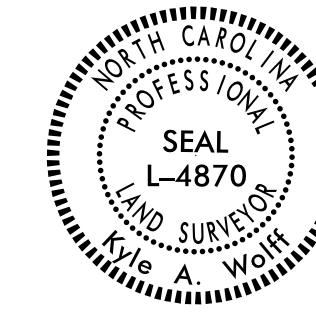
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 20th day of February, 2020.

DocuSigned by:

 DA18914348774ED
 Professional Land Surveyor

L-4870
 PLS #



ROW MARKER PERMANENT EASEMENT IRON PIN AND CAP -E

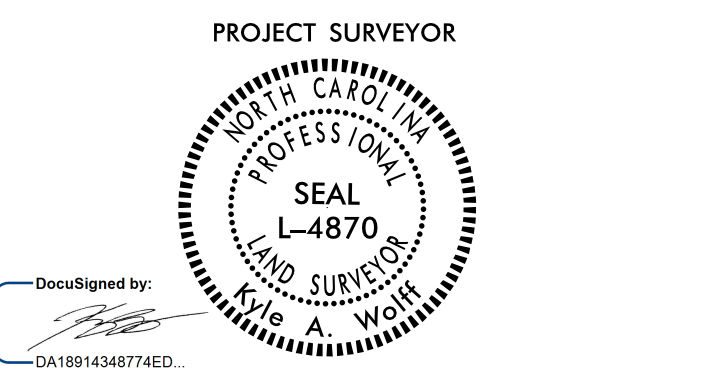
ALIGN	STATION	OFFSET	NORTH	EAST
L	16+45.00	30.00	795605.9012	1407862.1670
L	18+05.17	60.00	795768.8106	1407858.4152
L	18+05.17	30.00	795762.6100	1407829.0629

REVISIONS

NOTES:

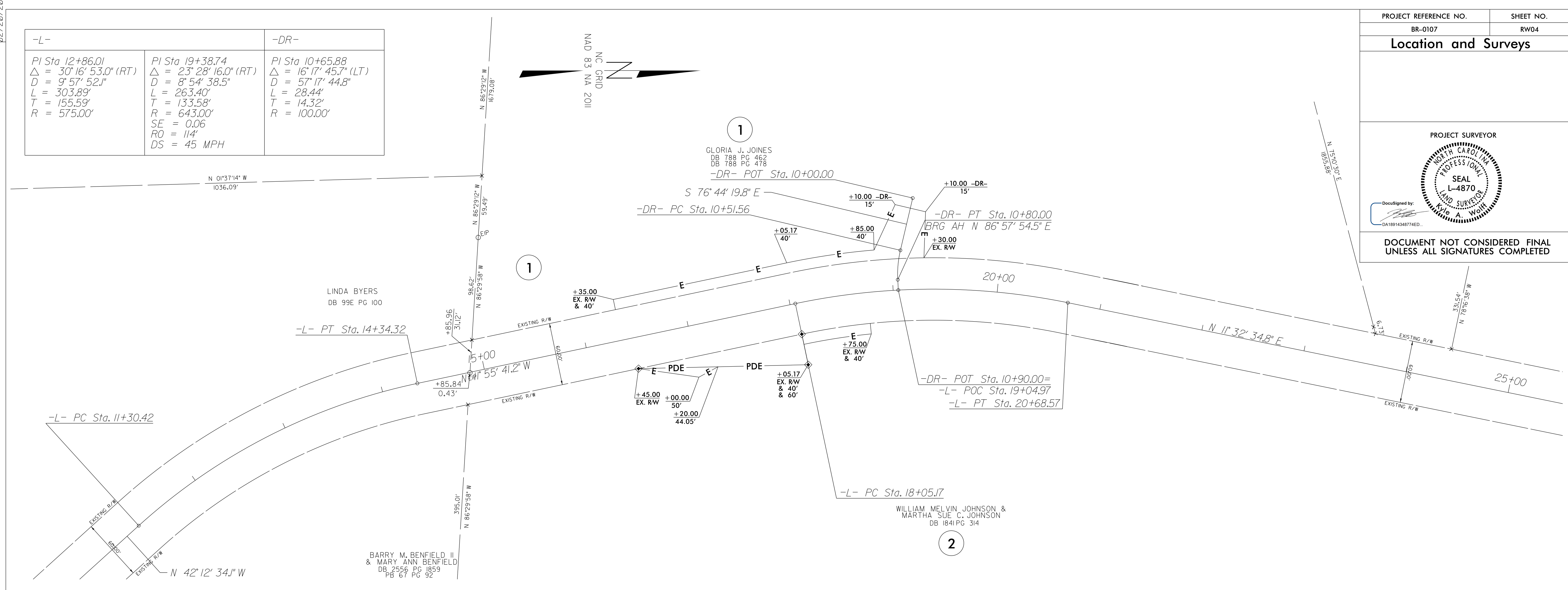
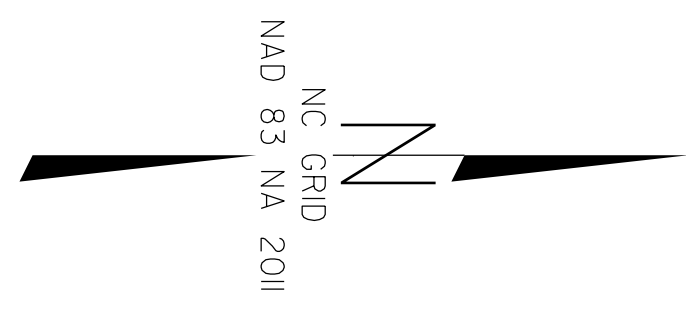
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED _____ TO _____.

Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L-		-DR-
PI Sta 12+86.01	PI Sta 19+38.74	PI Sta 10+65.88
$\Delta = 30^\circ 16' 53.0''$ (RT)	$\Delta = 23^\circ 28' 16.0''$ (RT)	$\Delta = 16^\circ 17' 45.7''$ (LT)
D = 9' 57' 52.1"	D = 8' 54' 38.5"	D = 57' 17' 44.8"
L = 303.89'	L = 263.40'	L = 28.44'
T = 155.59'	T = 133.58'	T = 14.32'
R = 575.00'	R = 643.00'	R = 100.00'
	SE = 0.06	
	RO = 114'	
	DS = 45 MPH	



REVISIONS

I, Kyle A Wolff, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

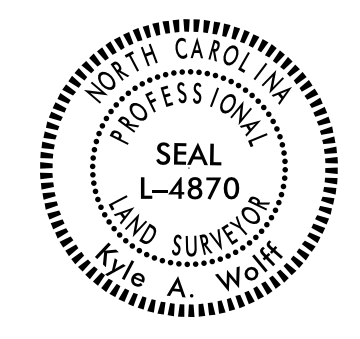
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 20th day of February, 2020.

Professional Land Surveyor

L-4870
PLS #



NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED FROM _____ TO _____.