

09/06/99

TIP PROJECT: B-4484

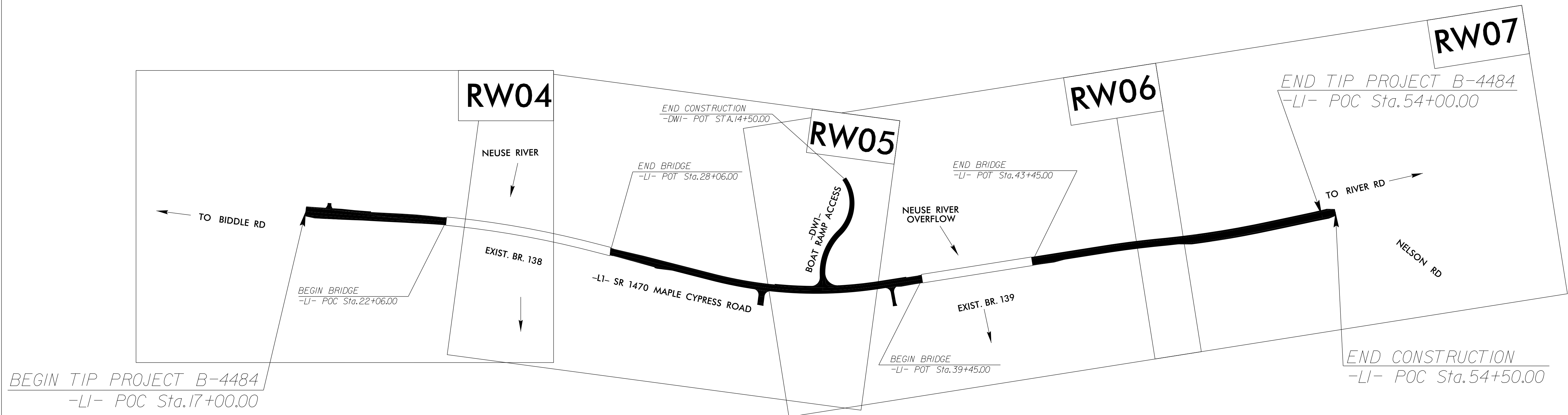
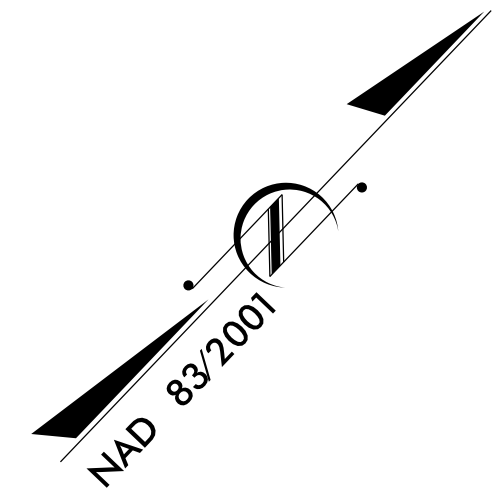
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

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

**CRAVEN COUNTY**

LOCATION: REPLACE BRIDGES NO. 138 & 139 OVER NEUSE  
RIVER AND NEUSE RIVER OVERFLOW ON  
SR 1470 (MAPLE CYPRESS ROAD)

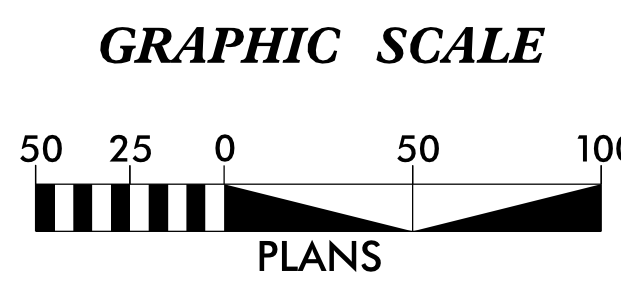
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4484	RW01	



BEGIN TIP PROJECT B-4484  
-LI- POC Sta.17+00.00

END TIP PROJECT B-4484  
-LI- POC Sta.54+00.00

END CONSTRUCTION  
-LI- POC Sta.54+50.00



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "B4484-1" WITH NAD 83/2001 STATE PLANE GRID COORDINATES OF NORTHING: 572679.980(ft) EASTING: 2506001.038(ft) ELEVATION: 24.22(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99987771

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B4484-1" TO -LI- STATION 17+00.00 IS S 56-49'12" W 263.15(ft)

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

Prepared in the Office of:

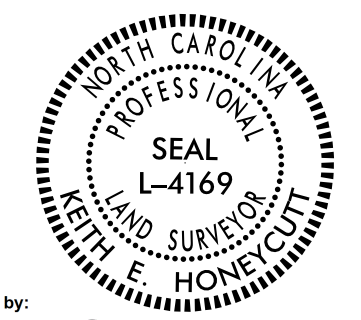
**DIVISION 2  
LOCATION & SURVEYS**

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
MARCH 7, 2019

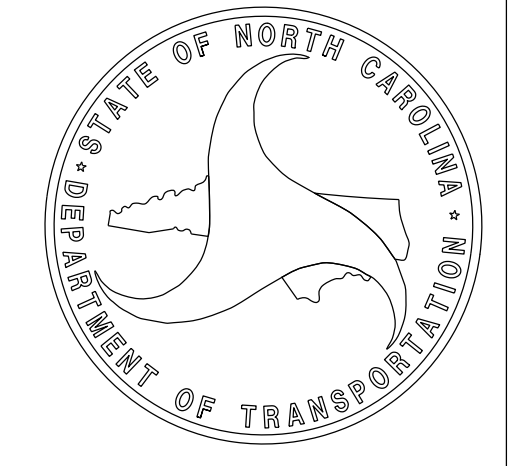
**LETTING DATE:**  
FEBRUARY 16, 2021

**PROFESSIONAL LAND  
SURVEYOR**



DocuSigned by:  
*KE Honeycutt*  
SIGNATURE:

Date:  
12/15/2020

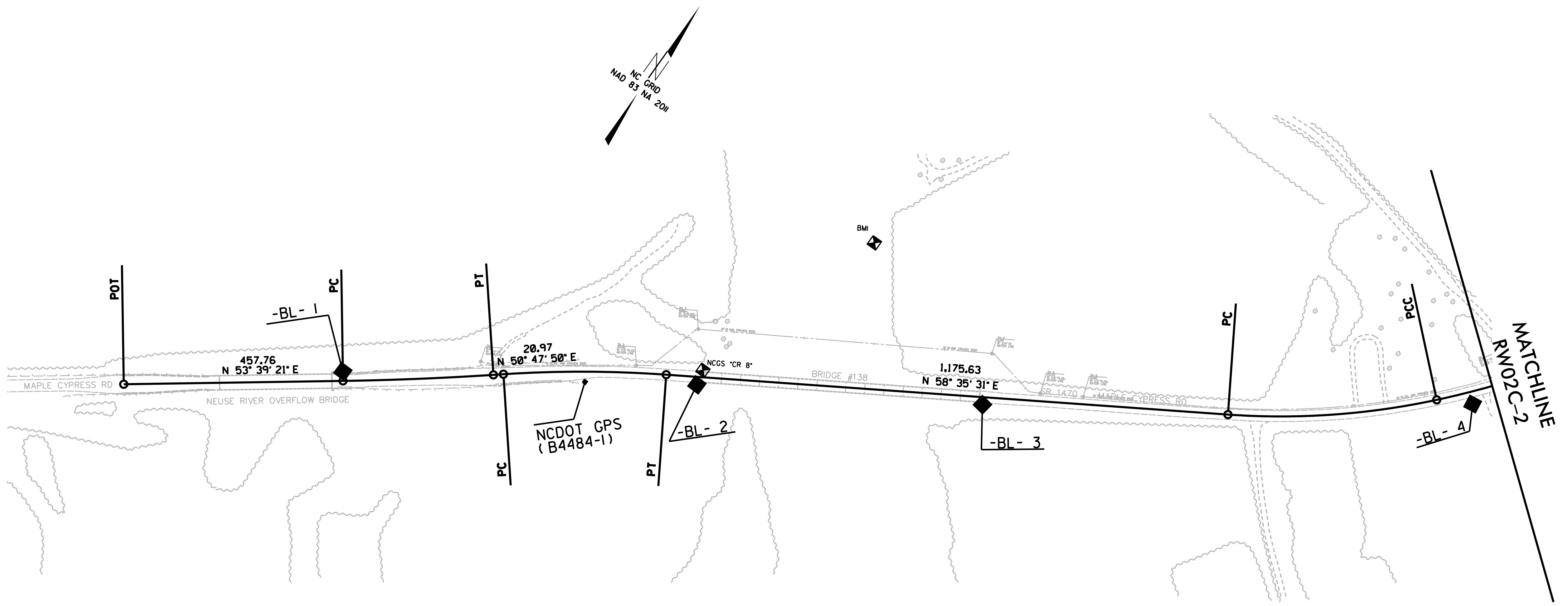


\$\$\$\$\$ SYSTEM \$\$\$\$\$\$  
\$\$\$\$\$ DDN \$\$\$\$\$\$  
\$\$\$\$\$ USERNAME \$\$\$\$\$\$

# SURVEY CONTROL SHEET B-4484

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. B-4484	SHEET NO. RW02C-1
Location and Surveys	
NEW BERN LOCATION & SURVEYS	



REVISIONS

**NOTES:**

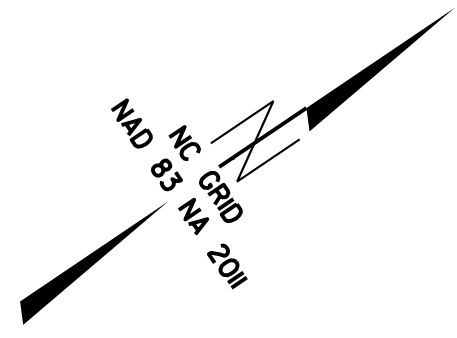
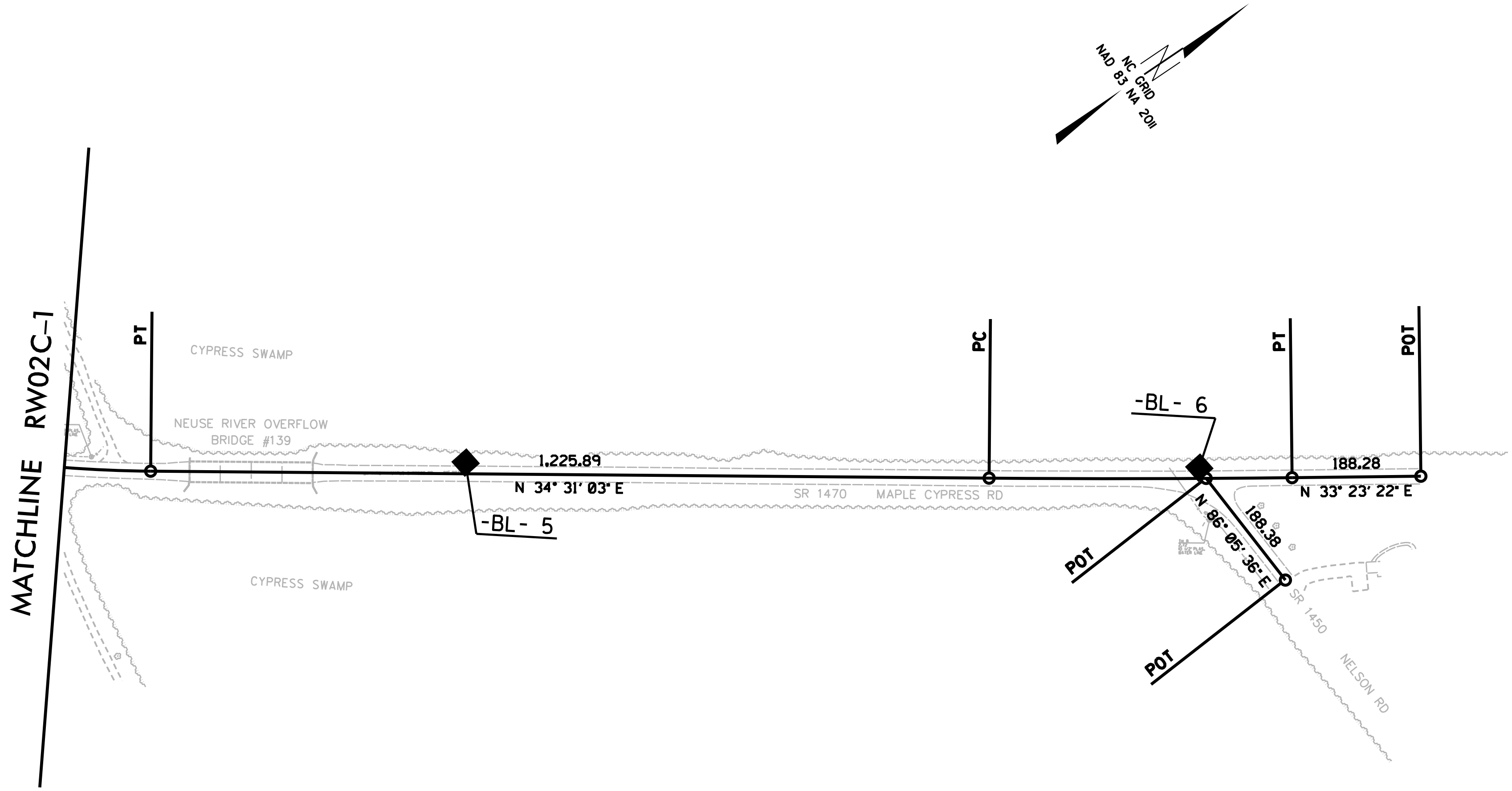
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

27-NOV-2018 15:33  
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 merhodes AT LSD2-299767 6/2/09

# SURVEY CONTROL SHEET B-4484

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. B-4484	SHEET NO. RW02C-2
Location and Surveys	
NEW BERN LOCATION & SURVEYS	



**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.

REVISIONS

6/2/09  
27-NOV-2018 15:36  
N:\BRIDGE\083\64484\Control\_Sheets\B4484+LS\_RW02C-2.dgn  
merhodes AT LSD2-299767

# SURVEY CONTROL SHEET B-4484

## W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EXISTING ALIGNMENTS

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	572117.406	2505219.773							
LINE			N 53°39'20.5" E	457.76					
PC	572388.691	2505588.485							
CURVE			N 52°13'35.5" E	314.26	02°51'30.1" (L)	00°54'34.0"	314.29	157.18	6380.00
PT	572581.188	2505836.889							
LINE			N 50°47'50.4" E	20.97					
PC	572594.440	2505853.136							
CURVE			N 54°41'40.9" E	339.85	07°47'41.0" (R)	02°17'38.6"	340.11	170.32	2500.00
PT	572790.849	2506130.479							
LINE			N 58°35'31.4" E	1125.63					
PC	573403.501	2507133.852							
CURVE			N 50°23'26.8" E	436.86	16°12'09.2" (L)	03°41'47.4"	438.32	220.63	1550.00
PT	573681.434	2507470.930							
CURVE			N 38°27'12.4" E	254.22	07°52'19.7" (L)	03°05'39.0"	254.42	127.41	1851.73
PT	573880.515	2507628.994							
LINE			N 34°31'02.5" E	1225.89					
PC	574890.596	2508323.654							
CURVE			N 33°57'12.4" E	442.99	01°07'40.2" (L)	00°15'16.5"	443.00	221.51	22505.00
PT	575258.053	2508571.072							
LINE			N 33°23'22.3" E	188.28					
POT	575415.260	2508874.690							

POINT	N	E	BEARING	DIST
POT	575153.341	2508501.635		
LINE			N 86°00'35.6" E	188.38
POT	575166.176	2508589.575		

BASELINE

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		BL - 1	572404.3350	2505576.8520	16.26
2	OPS1	NCDOT OPS B4484	572679.9800	2506001.8300	24.22
3		BL - 2	572810.5450	2506194.8440	29.65
4		BL - 3	573122.7940	2506704.3520	28.95
5		BL - 4	573717.7090	2507537.0870	12.48
6		BL - 5	574268.9460	2507876.3510	14.02
		BL - 6	575153.7090	2508482.9620	16.55

BENCHMARKS

.....  
 BM1 ELEVATION = 7.63  
 N 573267 E 2506325  
 R/R SPIKE SET IN BASE OF 13' GUM ON RIVER BANK  
 .....

.....  
 BM2 ELEVATION = 30.11  
 N 572843 E 2506188  
 NCGS MON CR 8  
 .....

NOTES:

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REVISIONS

# PROPOSED ALIGNMENT CONTROL SHEET B-4484

PROJECT REFERENCE NO.	SHEET NO.
B-4484	RW02D-1
Location and Surveys	
DIVISION 2 LOCATION & SURVEYS	

6/2/09

REVISIONS

## PROPOSED ALIGNMENTS

L1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	572117.4055	2505219.7730
PC	14+57.76	572388.6909	2505588.4855
PCC	17+72.05	572581.1880	2505836.8886
PCC	17+72.05	572581.1880	2505836.8886
PRC	20+27.10	572745.4929	2506031.9436
PT	27+30.84	573150.1687	2506606.2036
PC	31+85.32	573372.7779	2507002.4296
PT	37+96.12	573770.6900	2507460.2746
PC	46+05.62	574414.2736	2507951.2758
PT	48+11.81	574574.3112	2508081.2326
PC	48+11.81	574574.3112	2508081.2326
PT	51+85.53	574869.9972	2508309.4872
PC	52+10.53	574890.5961	2508323.6536
PT	56+53.53	575258.0525	2508571.0720
POT	58+41.81	575415.2600	2508674.6900

DW1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	573612.5651	2507321.0255
PC	10+60.96	573655.9390	2507278.1866
PRC	12+24.22	573803.8941	2507220.6202
PT	14+33.13	573955.9965	2507102.7463
POT	14+90.20	573968.1808	2507046.9897

### 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.

I:\ORIT\2008\06\23\B-4484\RW\_Sheets\B4484\_LS\_rw02d1.dgn  
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 AT 11:52:57 AM 6/2/09



6/2/19

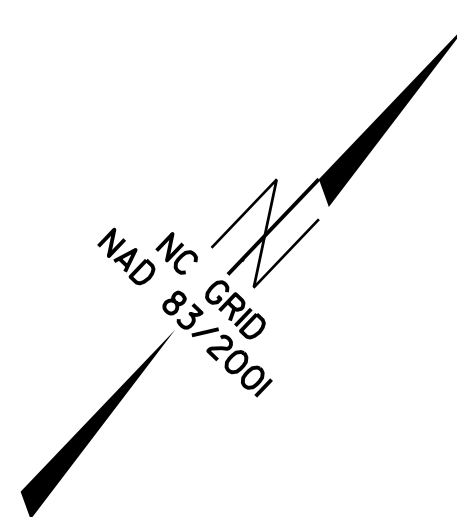
I, ROBERT J. REIGNER, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location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

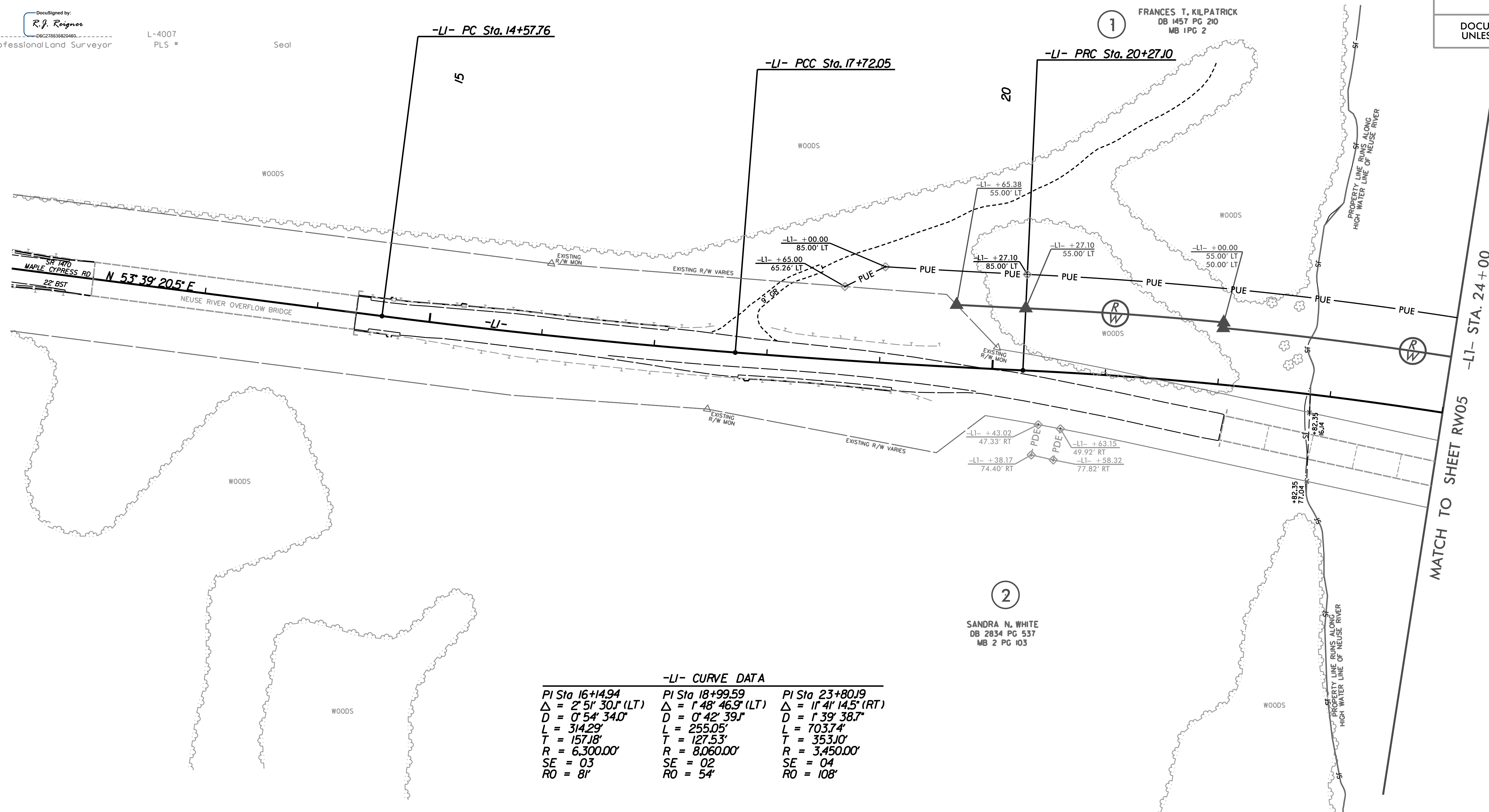
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway 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 19th day of September, 2019.

DocuSigned by:  
**R. J. Reigner**  
Professional Land Surveyor L-4007  
PLS # Seal



PROJECT REFERENCE NO. B-4484	SHEET NO. RW04
<b>Location and Surveys</b>	
DIVISION 2 LOCATION & SURVEYS	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**-LI- CURVE DATA**

PI Sta	Δ	D	L	T	R	SE	RO
16+14.94	2° 51' 30" (LT)	0' 54" 34.0"	314.29'	157.18'	6,300.00'	03	81'
18+99.59	1° 48' 46.9" (LT)	0' 42" 39.1"	255.05'	127.53'	8,060.00'	02	54'
23+80.19	1° 41' 14.5" (RT)	1' 39" 38.7"	703.74'	353.10'	3,450.00'	04	108'

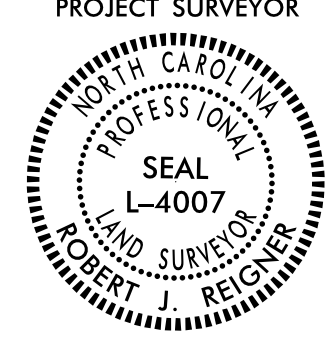
**NOTES:**

- 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.

REVISIONS

SYSTEME \$\$\$\$\$\$  
CONDON \$\$\$\$\$\$  
UNAVAILABLE \$\$\$\$\$\$  
\$\$\$\$\$\$

6/2/19  
 REVISIONS  
 02-001-2016-09-12  
 NC-Building\085-24484-RW\_Sheets\4484-1s-rw05.dgn  
 AT 11:52:37 AM  
 Method 1

PROJECT REFERENCE NO. B-4484	SHEET NO. RW05
<b>Location and Surveys</b>	
DIVISION 2 LOCATION & SURVEYS	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, ROBERT J. REIGNER, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work (Items) (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.

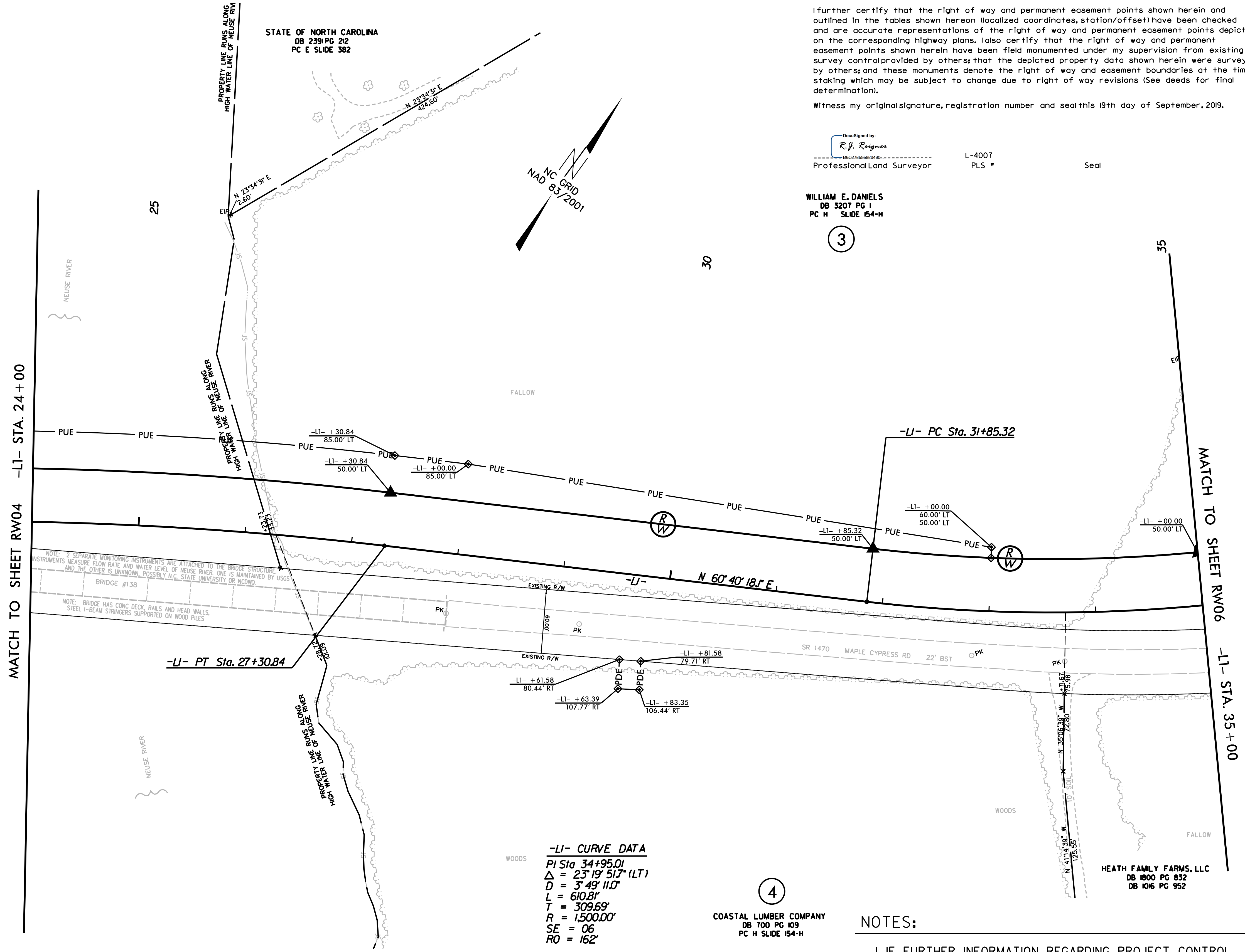
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I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent 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 19th day of September, 2019.

DocuSigned by:  
*R. J. Reigner*  
 Professional Land Surveyor L-4007  
 PLS \* Seal

WILLIAM E. DANIELS  
 DB 3207 PG 1  
 PC H SLIDE 154-H  
 (3)



(4)  
 COASTAL LUMBER COMPANY  
 DB 700 PG 109  
 PC H SLIDE 154-H

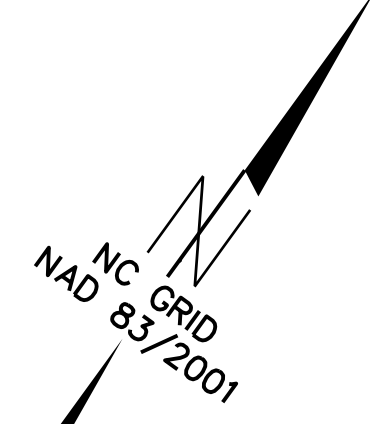
- NOTES:**
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
  - PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

NOTE: 2 SEPARATE MONITORING INSTRUMENTS ARE ATTACHED TO THE BRIDGE STRUCTURE. INSTRUMENTS MEASURE FLOW RATE AND WATER LEVEL OF NEUSE RIVER. ONE IS MAINTAINED BY USGS AND THE OTHER IS UNKNOWN, POSSIBLY N.C. STATE UNIVERSITY OR NCDOT.

BRIDGE #138

NOTE: BRIDGE HAS CONC DECK, RAILS AND HEAD WALLS. STEEL I-BEAM STRINGERS SUPPORTED ON WOOD PILES.


STATE OF NORTH CAROLINA  
 DB 238 PG 212  
 PC E SLIDE 382



HEATH FAMILY FARMS, LLC  
 DB 1800 PG 832  
 DB 1016 PG 952



6/2/09

PROJECT REFERENCE NO. B-4484	SHEET NO. RW06
<b>Location and Surveys</b>	
DIVISION 2 LOCATION & SURVEYS	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

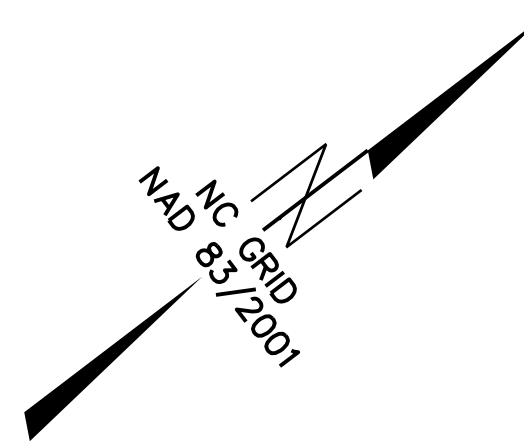
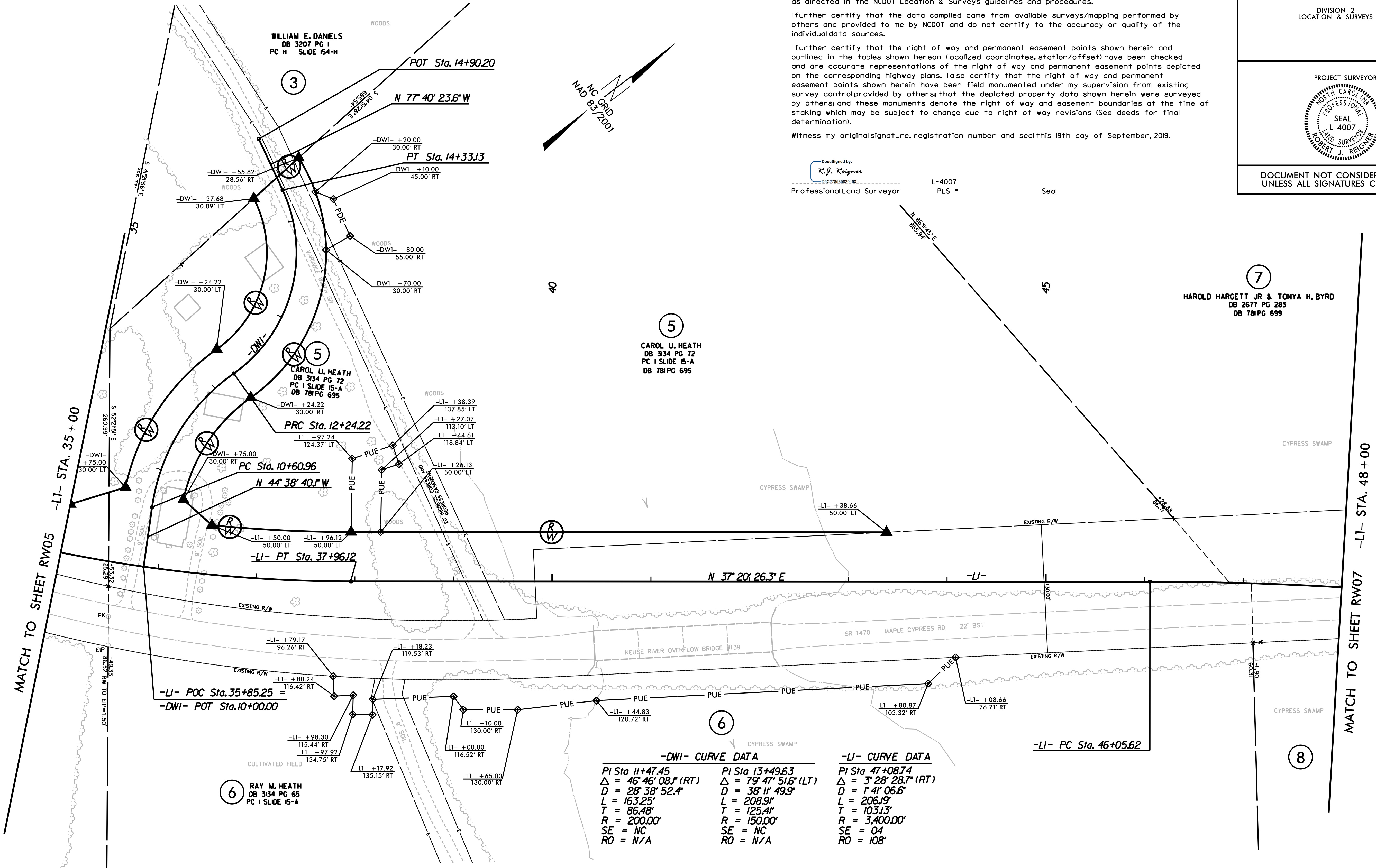
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Witness my original signature, registration number and seal this 19th day of September, 2019.

DocuSigned by:  
*R. J. Reigner*  
Professional Land Surveyor L-4007 PLS Seal



-DWI- CURVE DATA		-LI- CURVE DATA	
PI Sta 11+47.45	PI Sta 13+49.63	PI Sta 47+08.74	
$\Delta = 46^\circ 46' 08.1''$ (RT)	$\Delta = 79^\circ 47' 51.6''$ (LT)	$\Delta = 3^\circ 28' 28.7''$ (RT)	
D = 28° 38' 52.4"	D = 38° 11' 49.9"	D = 1° 41' 06.6"	
L = 163.25'	L = 208.91'	L = 206.19'	
T = 86.48'	T = 125.41'	T = 103.13'	
R = 200.00'	R = 150.00'	R = 3,400.00'	
SE = NC	SE = NC	SE = 04	
RO = N/A	RO = N/A	RO = 108'	

**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.

REVISIONS

I:\01-2019\1226\N.BRIDGE\0654484\RW\_Sheets\4484\_1s\_rw06.dgn  
 11/15/2019 10:57:27 AM  
 R. Reigner

6/2/19

REVISIONS

DATE: 06/02/19  
BY: RJR  
CHECKED: TLR  
SCALE: AS SHOWN  
PROJECT: SR 1470 MAPLE CYPRESS RD  
SHEET: 7 OF 7

I, ROBERT J. REIGNER, 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 Completion, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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DocuSigned by:  
R. J. Reigner

L-4007  
PLS #

Seal

7

HAROLD HARGETT JR & TONYA H. BYRD  
DB 2677 PG 283

PROJECT REFERENCE NO. SHEET NO.  
B-4484 RW07

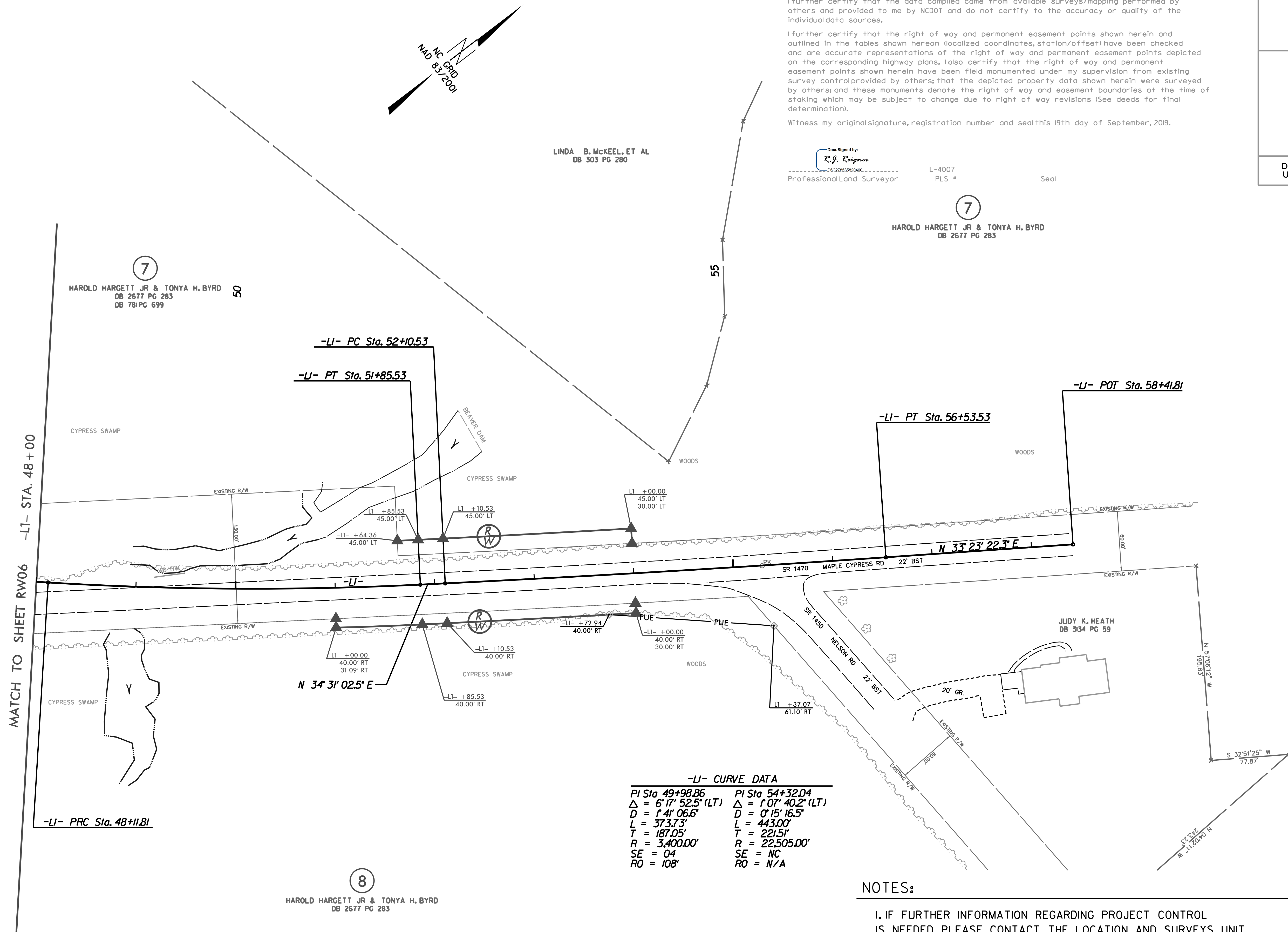
Location and Surveys

DIVISION 2  
LOCATION & SURVEYS

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



**-LI- CURVE DATA**

PI Sta 49+98.86	PI Sta 54+32.04
$\Delta = 6' 17'' 52.5''$ (LT)	$\Delta = 1' 07'' 40.2''$ (LT)
D = 1' 41' 06.6"	D = 0' 15' 16.5"
L = 373.73'	L = 443.00'
T = 187.05'	T = 221.51'
R = 3,400.00'	R = 22,505.00'
SE = 04	SE = NC
RO = 108'	RO = N/A

NOTES:

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MATCH TO SHEET RW06 -LI- STA. 48+00

-LI- PRC Sta. 48+11.81

7  
HAROLD HARGETT JR & TONYA H. BYRD  
DB 2677 PG 283  
DB 781 PG 699

-LI- PC Sta. 52+10.53  
-LI- PT Sta. 51+85.53

-LI- PT Sta. 56+53.53

-LI- POT Sta. 58+41.81

N 34° 31' 02.5" E

N 33° 23' 22.3" E

8

HAROLD HARGETT JR & TONYA H. BYRD  
DB 2677 PG 283

JUDY K. HEATH  
DB 3134 PG 59

LINDA B. McKEEL, ET AL  
DB 303 PG 280