

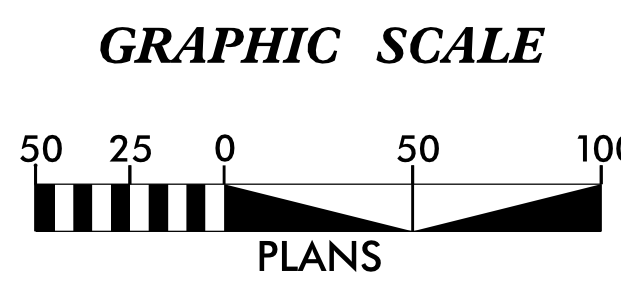
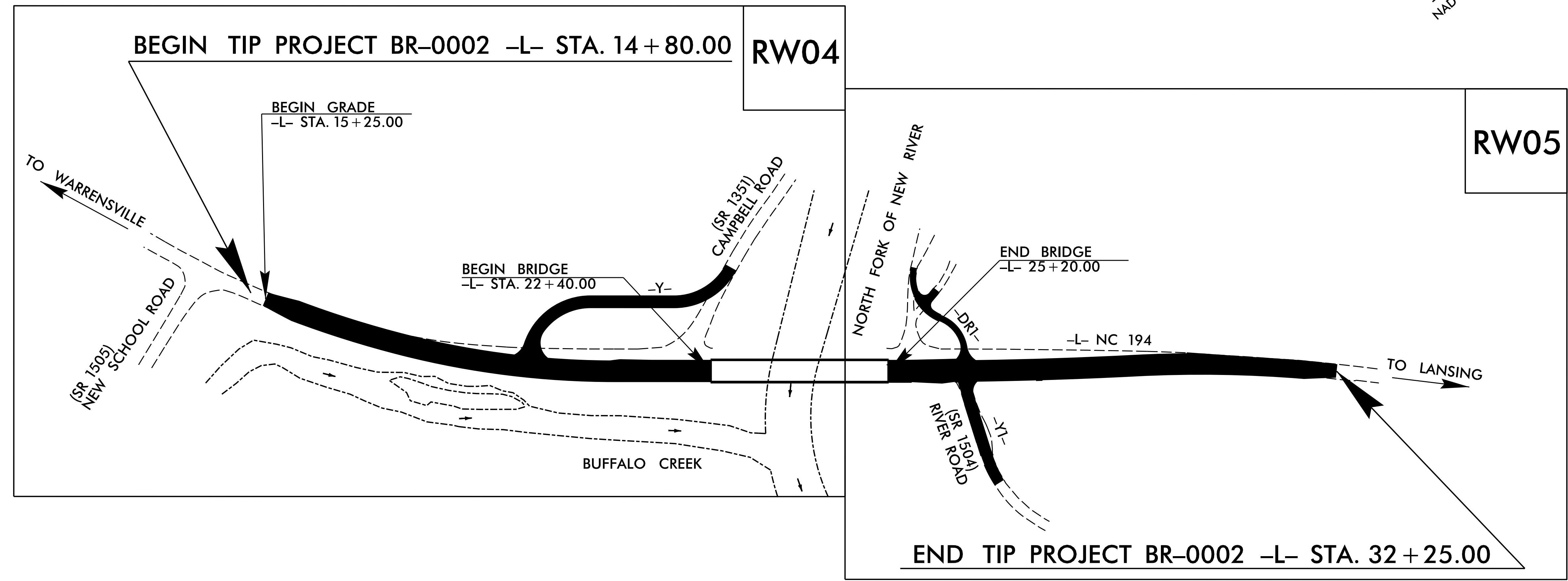
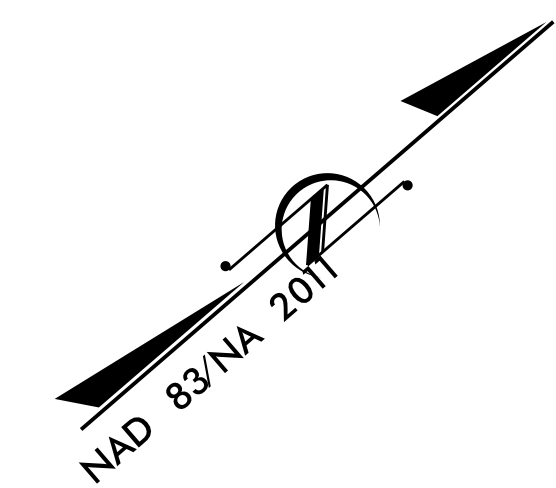
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0002	RW01	

TIP PROJECT: BR-0002

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

ASHE COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R5832-BL43" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 996,047.666(ft) EASTING: 1,259,229.395(ft) ELEVATION: 2,704.766(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99997244

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R5832-BL43" TO -L- STATION 10+00.00 IS N 46°-40'29.4" E 1,722.12(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88 (GEOID 12BNC)

Prepared in the Office of:

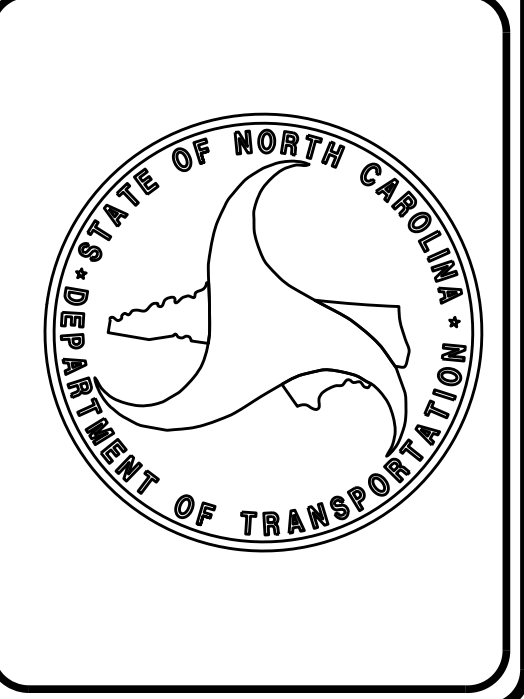
Allied Associates, P.A.
4720 KESTER MILL ROAD Phone (336) 765-2377
WINSTON-SALEM, N.C. 27103 FAX 760-8886
WWW.ALLIEDAPA.COM C-2198

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: DECEMBER 18, 2019	LETTING DATE: MAY 19, 2020
------------------------------------------------	--------------------------------------

PROFESSIONAL LAND SURVEYOR

DocuSigned by:
Lewis Moore
D036576248514DA...
SIGNATURE: _____ Date: 2/25/2020



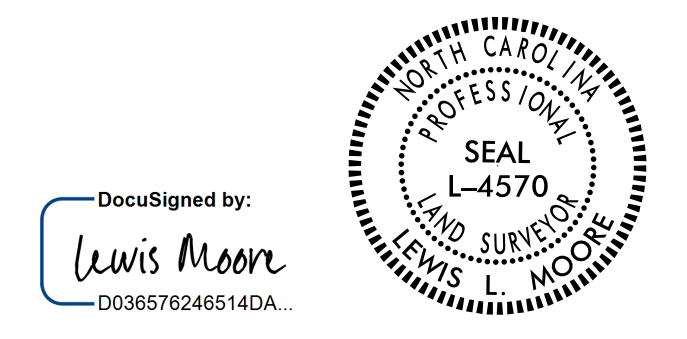
\$\$\$\$\$ SYSTEM \$\$\$\$\$\$
\$\$\$\$\$ DDN \$\$\$\$\$\$
\$\$\$\$\$ USERNAME \$\$\$\$\$\$

6/2/2018

REVISIONS

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
BR-0002	RW02D-1
Location and Surveys	
ALLIED ASSOCIATES, P.A.	



L

TYPE	STATION	NORTH	EAST
PC	10+00.00	997229.2766	1260482.1868
PT	12+59.52	997330.9405	1260720.8798
PC	13+55.83	997364.9890	1260810.9751
PCC	17+55.38	997551.1972	1261163.3103
PT	20+89.14	997774.3586	1261410.3496
PC	25+55.80	998127.4846	1261715.4236
PRC	29+08.59	998400.2699	1261939.0862
PCC	32+19.75	998630.0703	1262148.4134
PCC	32+97.45	998682.7022	1262205.5668
PT	35+64.08	998858.3338	1262406.1694

Y

TYPE	STATION	NORTH	EAST
POT	10+00.00	998182.7960	1261359.5384
PC	10+66.40	998118.3887	1261375.6857
PRC	11+73.02	998016.5437	1261407.0734
PT	12+79.50	997916.6667	1261388.8856
PC	14+11.30	997816.9332	1261302.7234
PT	15+58.07	997683.0148	1261305.5820
POT	15+70.54	997673.9381	1261314.1266

Y1

TYPE	STATION	NORTH	EAST
PC	10+00.00	998191.5386	1261770.0775
PT	10+45.33	998167.5810	1261808.3505
PC	11+36.00	998131.5882	1261891.5704
PT	12+87.80	998130.3001	1262039.3664

DR1

TYPE	STATION	NORTH	EAST
PC	10+00.00	998237.2661	1261594.4951
PRC	10+98.28	998216.9796	1261682.5953
PT	11+68.84	998209.5226	1261748.7361
POT	11+96.75	998191.5386	1261770.0775

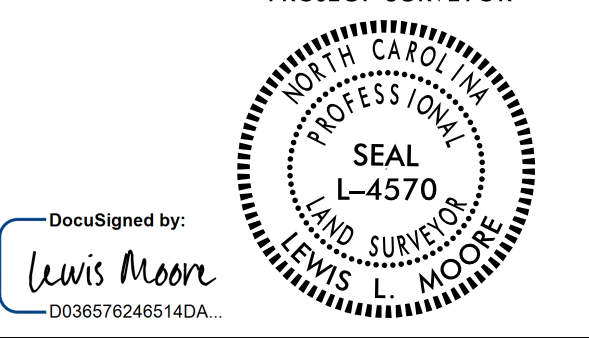
NOTES:

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.

6/2/2018

6/2/20

RIGHT OF WAY AND EASEMENT CONTROL SHEET

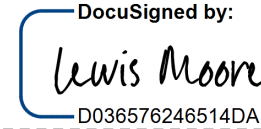
PROJECT REFERENCE NO. BR-0002	SHEET NO. RW03E-1
Location and Surveys	
ALLIED ASSOCIATES, P.A.	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, LEWIS L. MOORE, 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 25th day of February, 2020.

DocuSigned by:

 Lewis Moon
 D036576246514DA
 Professional Land Surveyor L-4570 Seal
 PLS ■

ALIGN	STATION	OFFSET	NORTH	EAST
L	14+80.00	38.00	997378.9478	1260941.4575
L	14+80.00	20.00	997395.2415	1260933.8080
L	15+00.00	-20.00	997439.9545	1260934.6340
L	15+00.00	71.00	997358.0706	1260974.3331
L	15+25.00	36.50	997400.4489	1260982.2031
L	15+90.00	-150.00	997594.5584	1260950.2737
L	16+90.00	-255.00	997729.4506	1260971.3633
L	17+55.38	36.50	997521.3019	1261184.2512
L	18+60.00	-320.00	997861.5737	1261043.2565
L	19+70.00	36.50	997661.5510	1261353.9966
L	19+90.00	65.00	997655.7953	1261388.7774
L	22+00.00	70.00	997812.4850	1261535.7930
L	25+10.00	70.00	998047.0668	1261738.4538
* L	26+26.59	24.00	998165.7886	1261779.7463
L	26+58.39	40.00	998179.9222	1261812.5646
L	29+08.59	40.00	998375.7131	1261970.6608
* L	32+25.00	20.00	998619.0651	1262165.9139
L	32+25.00	40.00	998604.4702	1262179.5883

MARKER EXCEPTIONS:
 * = MAG NAIL SET

ALIGN	STATION	OFFSET	NORTH	EAST
Y	11+15.00	160.00	998025.1514	1261235.5212
Y	11+80.00	24.80	998003.0024	1261385.4299
Y	14+00.00	250.00	997988.9200	1261120.9318

ALIGN	STATION	OFFSET	NORTH	EAST
L	22+63.00	-92.60	997966.4550	1261453.9392
L	22+85.00	-77.00	997972.9062	1261480.1241
L	22+85.00	-44.00	997951.3327	1261505.0957
* L	24+20.00	-44.00	998053.4893	1261593.3512
** L	24+22.00	-59.00	998064.8089	1261583.3080
** L	24+42.00	-130.00	998126.3590	1261542.6561
L	24+58.00	-133.89	998141.0095	1261550.1723
L	24+95.00	-44.00	998110.2429	1261642.3820
* L	24+95.00	-55.00	998117.4341	1261634.0582
L	25+28.00	-55.00	998142.4057	1261655.6317
L	25+28.00	-44.00	998135.2145	1261663.9556
L	26+67.00	-43.08	998239.8500	1261754.3832
L	26+72.00	-77.00	998265.3996	1261731.5282
L	28+15.00	45.00	998298.6767	1261916.2655
L	28+15.00	40.00	998301.7999	1261912.3610
L	29+60.00	40.00	998415.0790	1262002.0974
L	29+60.00	45.00	998411.9089	1262005.9641
L	30+46.00	-33.00	998527.7527	1262002.5049
* L	30+46.00	-23.70	998521.5511	1262009.4386
L	30+72.00	-33.00	998547.3367	1262020.2517
L	30+72.00	-22.67	998540.3528	1262027.8587

MARKER EXCEPTIONS:
 * = MAG NAIL SET
 ** = POINT NOT SET (FELL IN RIVER)

R/W AND EASEMENT MARKER NOTES:

- 1) UNLESS OTHERWISE NOTED, ALL ROW AND PERMANENT EASEMENT MARKERS HAVE BEEN SET AS REBAR WITH ALUMINUM CAP
- 2) ANY MARKER EXCEPTIONS ARE LISTED BELOW THEIR RESPECTIVE TABLE

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.

REVISIONS

6/2/20
 ALLIED ASSOCIATES, P.A.
 1111 W. WILSON ST.
 SUITE 100
 WILSON, NC 27687
 TEL: 919.572.1111
 FAX: 919.572.1112
 WWW.AA-NC.COM

PROJECT REFERENCE NO.	SHEET NO.
BR-0002	RW04
Location and Surveys	
ALLIED ASSOCIATES, P.A.	
PROJECT SURVEYOR	
DocuSigned by: <i>Lewis Moore</i> 0036576246514DA	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L-		
PI Sta 11+29.83 Δ = 4' 44" 07.4" (RT) D = 1' 49" 28.9" L = 259.52' T = 129.83' R = 3,140.00'	PI Sta 15+56.65 Δ = 14' 18" 28.4" (LT) D = 3' 34" 51.6" L = 399.55' T = 200.82' R = 1,600.00' RO = SEE PLANS SE = SEE PLANS	PI Sta 19+23.12 Δ = 14' 09" 54.8" (LT) D = 4' 14" 38.9" L = 333.76' T = 167.74' R = 1,350.00' RO = SEE PLANS SE = .06
-Y-		
PI Sta 11+9.76 Δ = 6' 06" 32.5" (LT) D = 5' 43" 46.5" L = 106.62' T = 53.36' R = 1,000.00'	PI Sta 12+31.94 Δ = 6' 00" 28.3" (RT) D = 5' 17" 44.8" L = 106.48' T = 58.91' R = 100.00'	PI Sta 15+01.49 Δ = 84' 05" 40.8" (LT) D = 5' 17" 44.8" L = 146.77' T = 90.19' R = 100.00' ① S 43° 16' 12.5" E

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

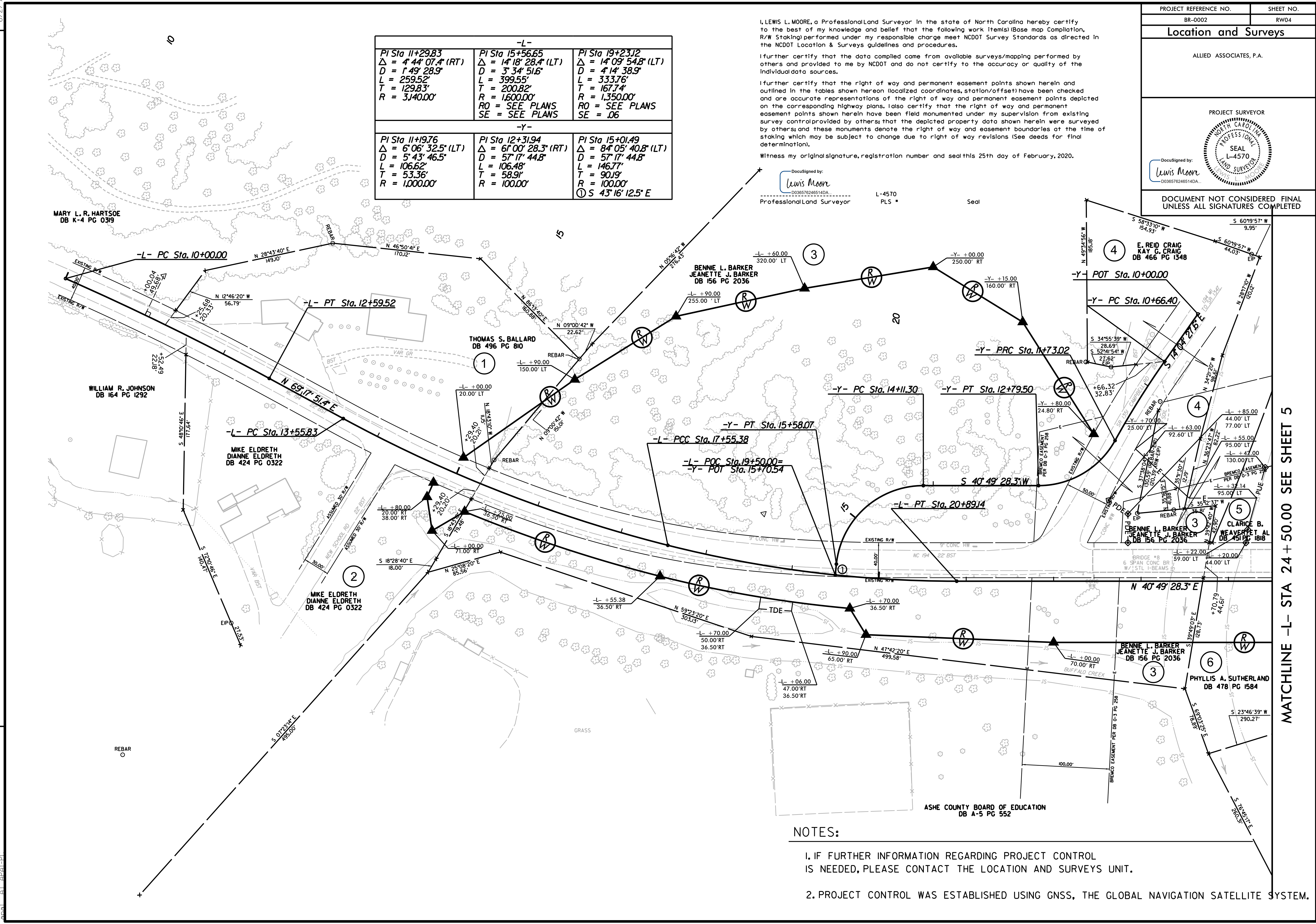
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I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent 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 25th day of February, 2020.

DocuSigned by:
Lewis Moore
0036576246514DA
Professional Land Surveyor L-4570 PLS Seal

REVISIONS



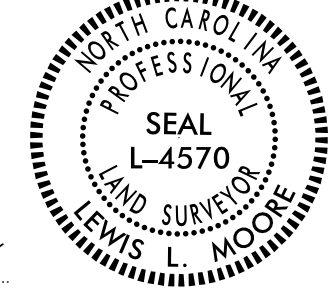
MATCHLINE -L- STA 24 + 50.00 SEE SHEET 5

NOTES:

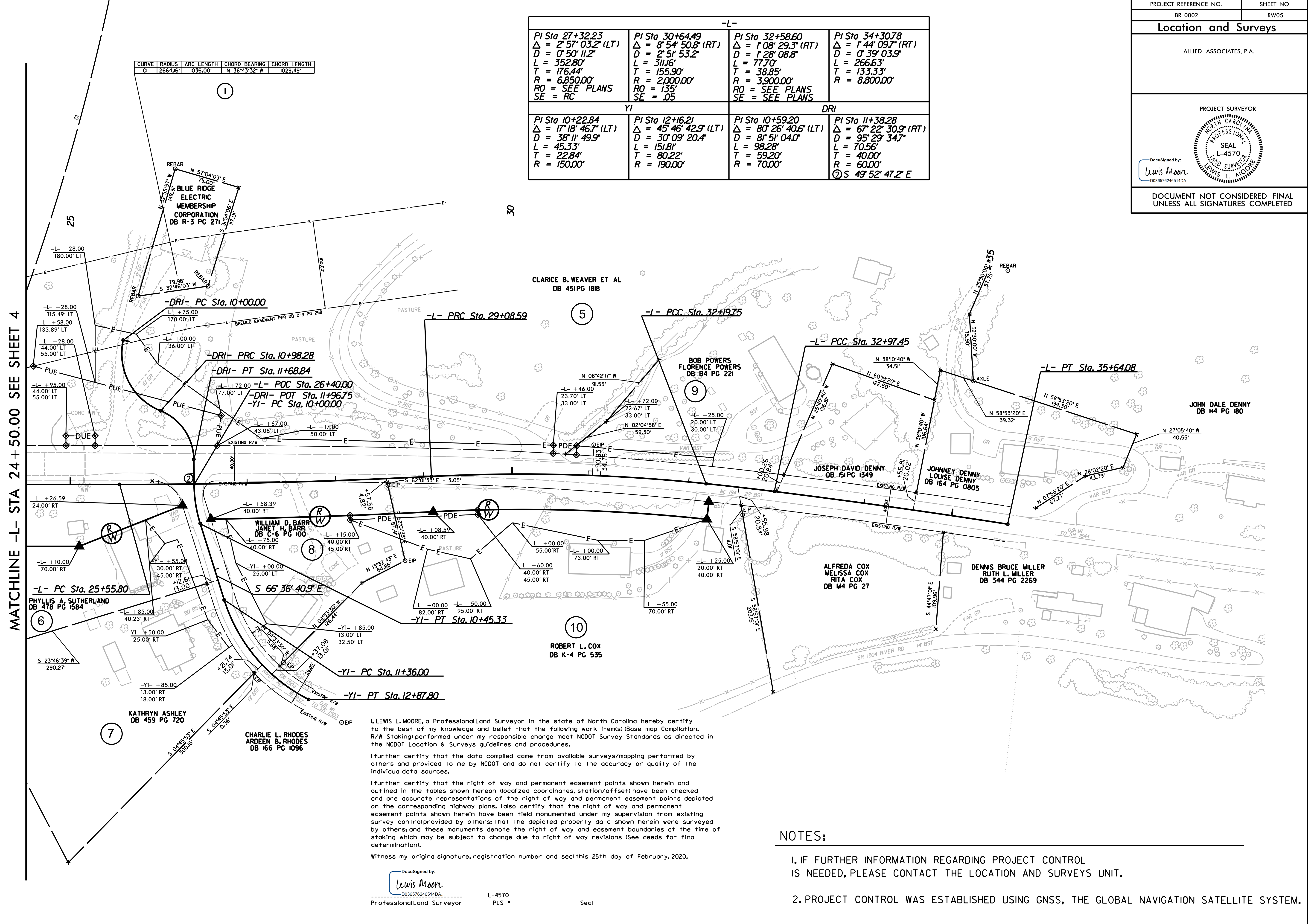
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

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6/2/19

PROJECT REFERENCE NO. BR-0002	SHEET NO. RW05
Location and Surveys	
ALLIED ASSOCIATES, P.A.	
PROJECT SURVEYOR	
	
DocuSigned by: <i>Lewis Moore</i> 0008578246514DA...	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L-			
PI Sta 27+32.23 $\Delta = 2^{\circ} 57' 03.2" (LT)$ $D = 0^{\circ} 50' 11.2"$ $L = 352.80'$ $T = 176.44'$ $R = 6,850.00'$ RO = SEE PLANS SE = RC	PI Sta 30+64.49 $\Delta = 8^{\circ} 54' 50.8" (RT)$ $D = 2^{\circ} 51' 53.2"$ $L = 311.6'$ $T = 155.90'$ $R = 2,000.00'$ RO = 135' SE = .05	PI Sta 32+58.60 $\Delta = 1^{\circ} 08' 29.3" (RT)$ $D = 1^{\circ} 28' 08.8"$ $L = 77.70'$ $T = 38.85'$ $R = 3,900.00'$ RO = SEE PLANS SE = SEE PLANS	PI Sta 34+30.78 $\Delta = 1^{\circ} 44' 09.7" (RT)$ $D = 0^{\circ} 39' 03.9"$ $L = 266.63'$ $T = 133.33'$ $R = 8,800.00'$
YI		DRI	
PI Sta 10+22.84 $\Delta = 17^{\circ} 18' 46.7" (LT)$ $D = 38^{\circ} 11' 49.9"$ $L = 45.33'$ $T = 22.84'$ $R = 150.00'$	PI Sta 12+16.21 $\Delta = 45^{\circ} 46' 42.9" (LT)$ $D = 30^{\circ} 09' 20.4"$ $L = 151.81'$ $T = 80.22'$ $R = 190.00'$	PI Sta 10+59.20 $\Delta = 80^{\circ} 26' 40.6" (LT)$ $D = 81^{\circ} 51' 04.0"$ $L = 98.28'$ $T = 59.20'$ $R = 70.00'$	PI Sta 11+38.28 $\Delta = 67^{\circ} 22' 30.9" (RT)$ $D = 95^{\circ} 29' 34.7"$ $L = 70.56'$ $T = 40.00'$ $R = 60.00'$ ② S 49° 52' 47.2" E



MATCHLINE -L- STA 24 + 50.00 SEE SHEET 4

REVISIONS

I, LEWIS L. MOORE, 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.

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Witness my original signature, registration number and seal this 25th day of February, 2020.

DocuSigned by:
Lewis Moore
0008578246514DA...
Professional Land Surveyor

L-4570
PLS * Seal

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.

24 FEB 2020 17:36
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