

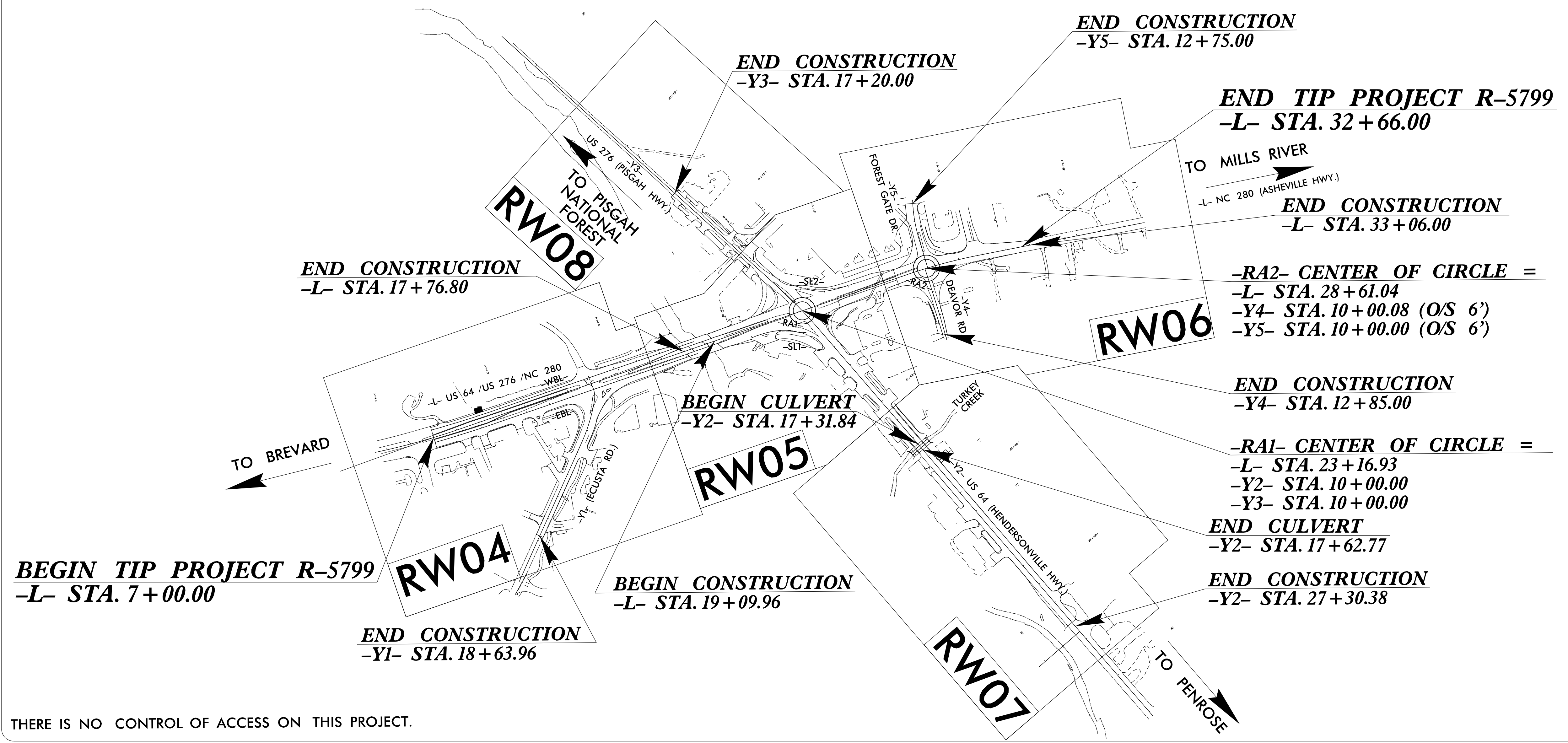
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5799	RW01	17

TIP PROJECT: R-5799

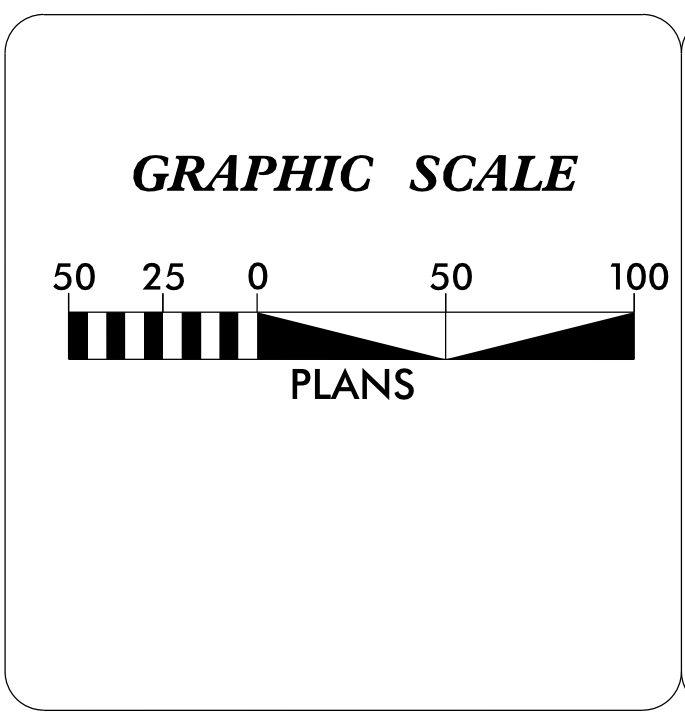
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

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

TRANSYLVANIA COUNTY



THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R5977 GPS-101" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 573795.8660(ft) EASTING: 893308.2950(ft) ELEVATION: 2172.39(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997747435

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R-5799 GPS-101" TO -L- STATION 10+00.00 IS N44°39'34"E 412.50(ft)

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

Prepared in the Office of:

Mattern & Craig
ENGINEERS SURVEYORS

12 BROAD STREET
 ASHEVILLE, NORTH CAROLINA 28801
 (828) 254-2201
 FAX (828) 254-4562
 NC LIC. NO. C-1154

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MARCH, 27 2020

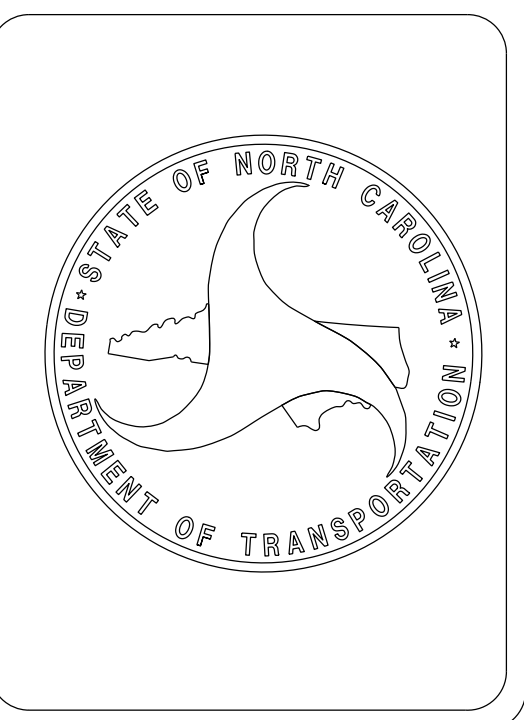
LETTING DATE:
AUGUST 17, 2022

PROFESSIONAL LAND SURVEYOR

Seal of the Professional Land Surveyor, State of North Carolina, License No. L-5235, signed by Ron L. Zietlow.


DocuSigned by:

 5112023
 Date:

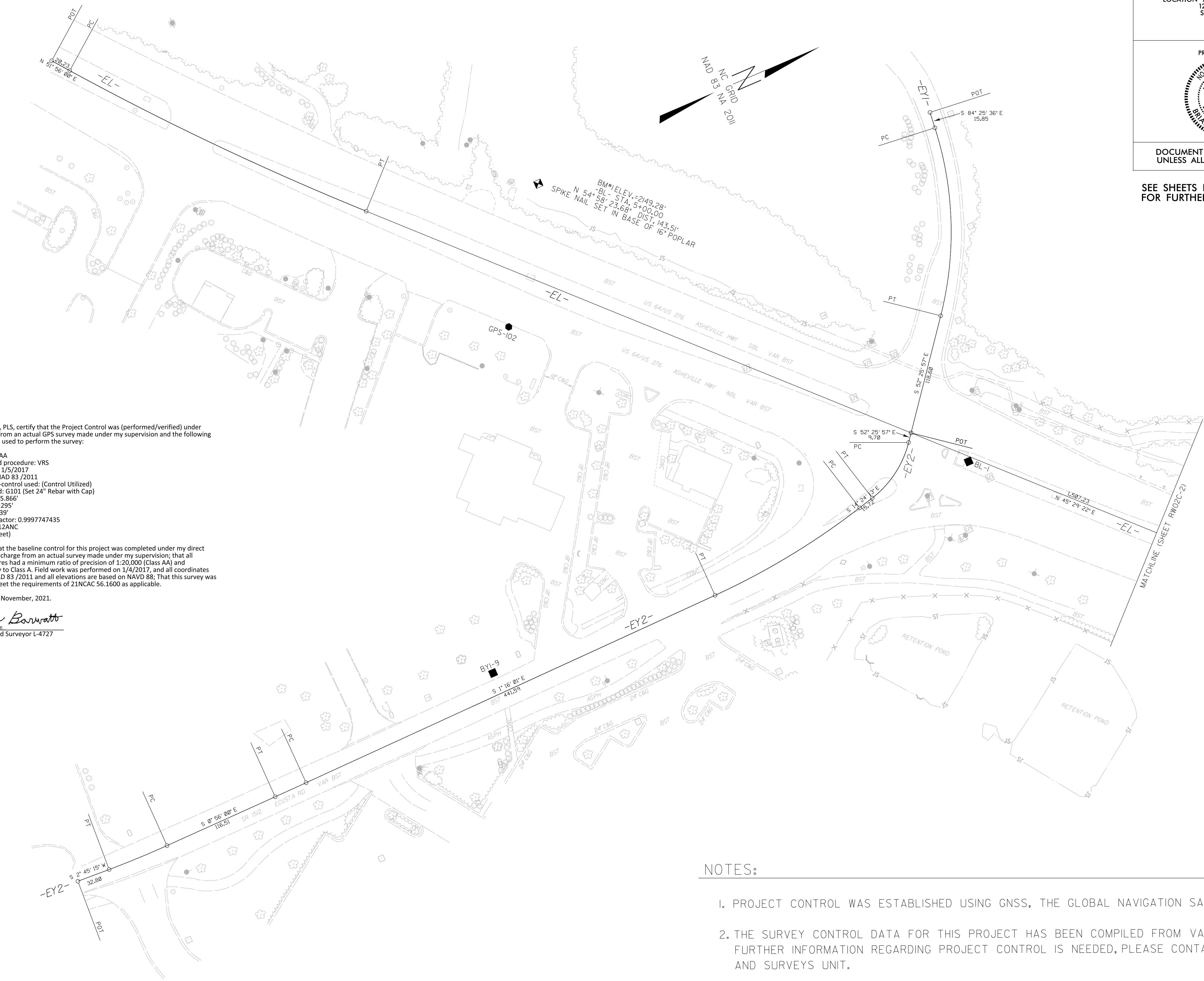


SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-5799	SHEET NO. RW02C-1
Location and Surveys	
LOCATION AND SURVEYS, DIVISION 14 122 BONNIE LANE SYLVA, NC 28779	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SEE SHEETS RW02C-7 & RW02C-8
FOR FURTHER ALIGNMENT DETAILS

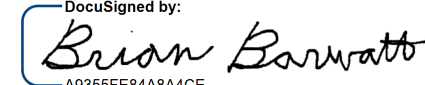


I, Brian Barwatt, PLS, certify that the Project Control was (performed/verified) under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA
 Type of GPS field procedure: VRS
 Dates of survey: 1/5/2017
 Datum/Epoch: NAD 83 /2011
 Published/Fixed-control used: (Control Utilized)
 Localized around: G101 (Set 24" Rebar with Cap)
 Northing: 573795.866'
 Easting: 893308.295'
 Elevation: 2172.39'
 Combined grid factor: 0.9997747435
 Geoid model: G12ANC
 Units: English (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 on 1/4/2017, 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 15th day of November, 2021.

Designed by:

 Professional Land Surveyor L-4727

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.

SURVEY CONTROL SHEET

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DocuSigned by:
Brian Barwatt
Professional Land Surveyor L-4727

PROJECT REFERENCE NO. R-5799	SHEET NO. RW02C-2
Location and Surveys	
LOCATION AND SURVEYS, DIVISION 14 122 BONNIE LANE SYLVA, NC 28779	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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REVISIONS

I5:NDV-20210904
C:\sullivan\run\5799\FW_Sheets\To_Send\5799\1s-rw02c-2.dgn
bobbarwatt AT LS-317902

SURVEY CONTROL SHEET

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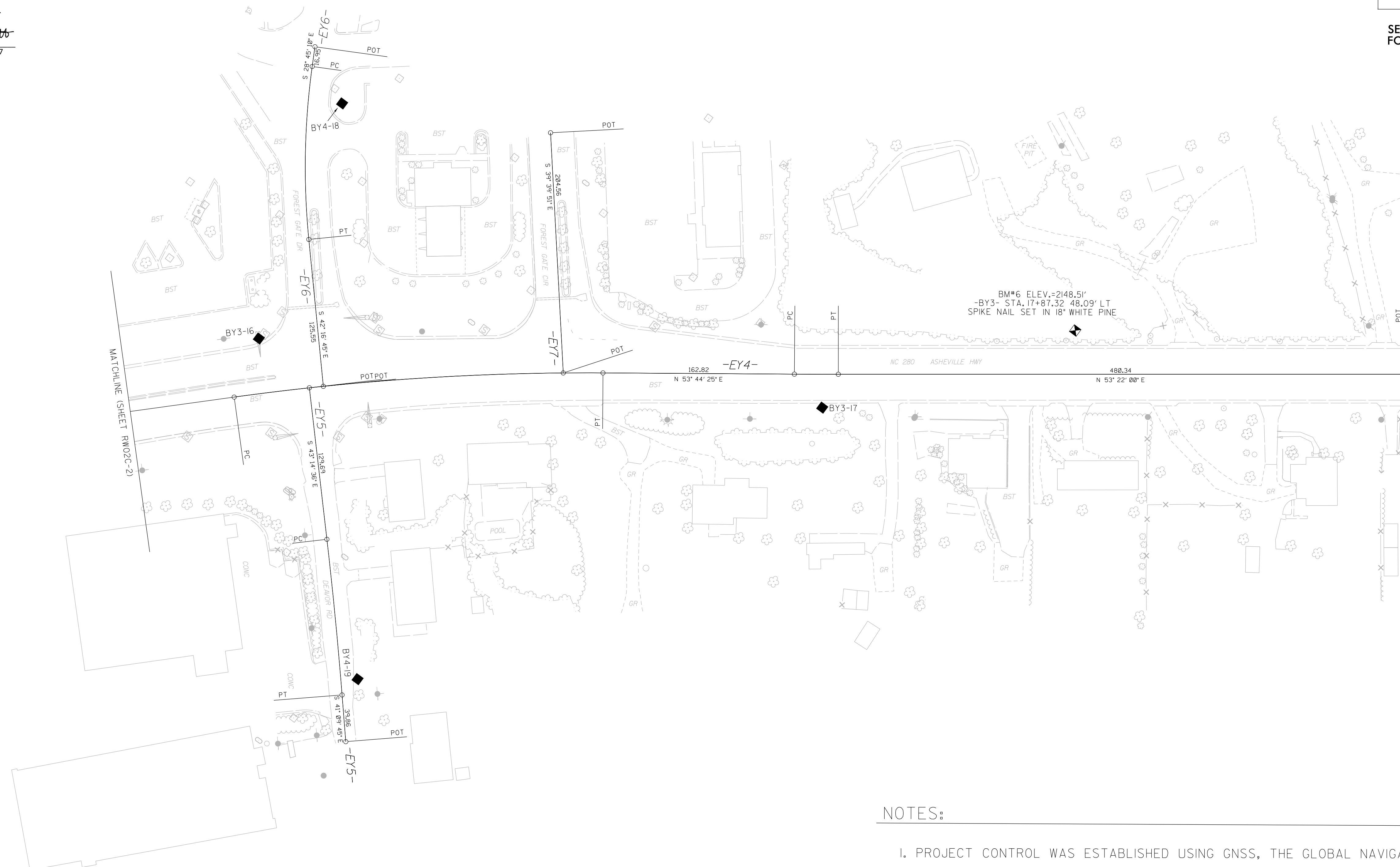
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DocuSigned by:
Brian Barwatt
PROFESSIONAL LAND SURVEYOR
Professional Land Surveyor L-4727

PROJECT REFERENCE NO.	SHEET NO.
R-5799	RW02C-3
Location and Surveys	
LOCATION AND SURVEYS, DIVISION 14 122 BONNIE LANE SYLVA, NC 28779	
PROJECT SURVEYOR 	
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SEE SHEETS RW02C-7 & RW02C-8 FOR FURTHER ALIGNMENT DETAILS



REVISIONS

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SURVEY CONTROL SHEET

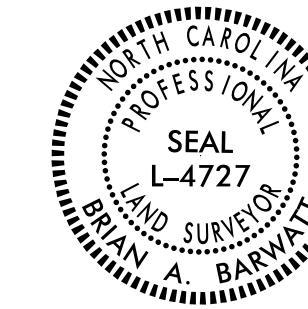
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-5799	RW02C-4

Location and Surveys

LOCATION AND SURVEYS, DIVISION 14
 122 BONNIE LANE
 SYLVA, NC 28779

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
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SEE SHEETS RW02C-7 & RW02C-8
 FOR FURTHER ALIGNMENT DETAILS

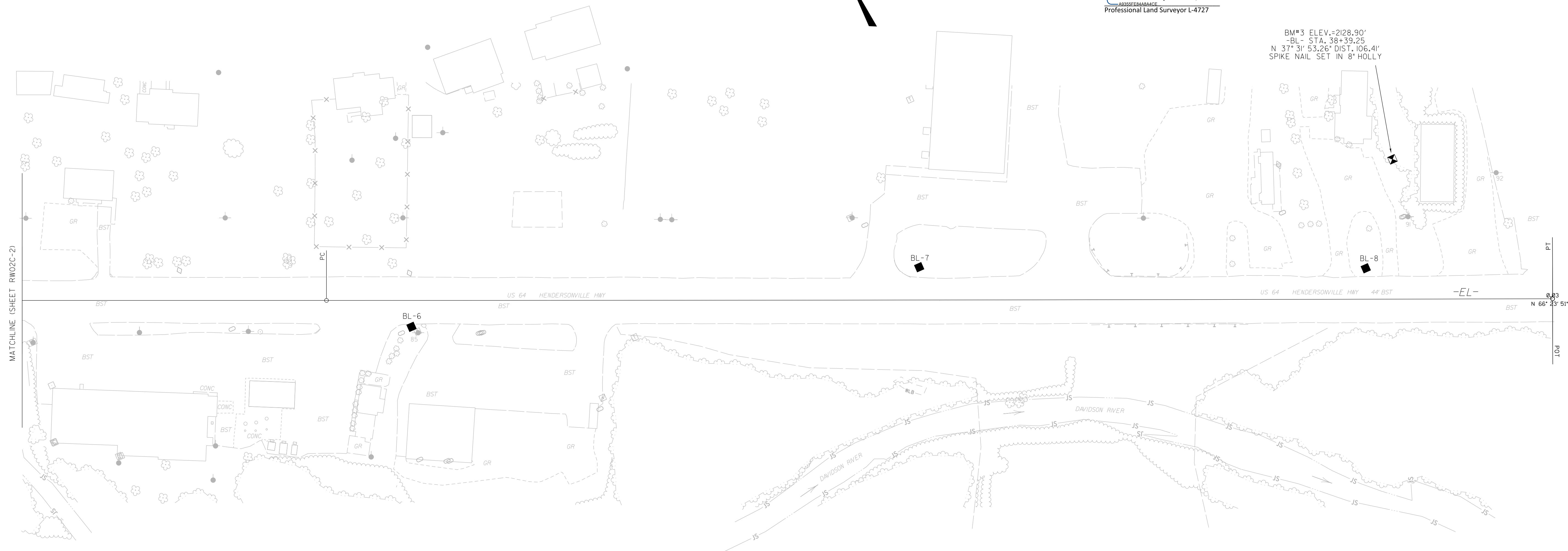
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This 15th day of November, 2021.

Brian Barwatt
 Professional Land Surveyor L-4727



BM#3 ELEV.=2128.90'
 -BL- STA. 38+39.25
 N 37° 31' 53.26" DIST. 106.41'
 SPIKE NAIL SET IN 8" HOLLY

REVISIONS

MATCHLINE (SHEET RW02C-2)

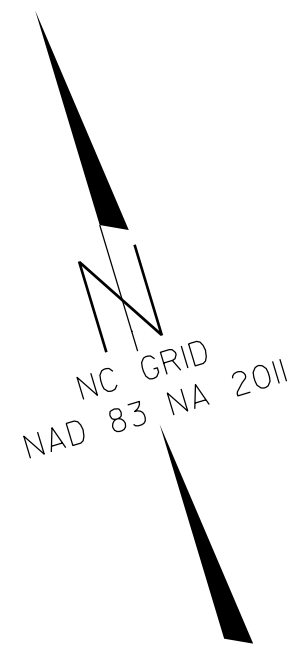
PT. N 66° 20' 51" W

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



PROJECT REFERENCE NO.	SHEET NO.
R-5799	RW02C-5

Location and Surveys

LOCATION AND SURVEYS, DIVISION 14
122 BONNIE LANE
SYLVA, NC 28779

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
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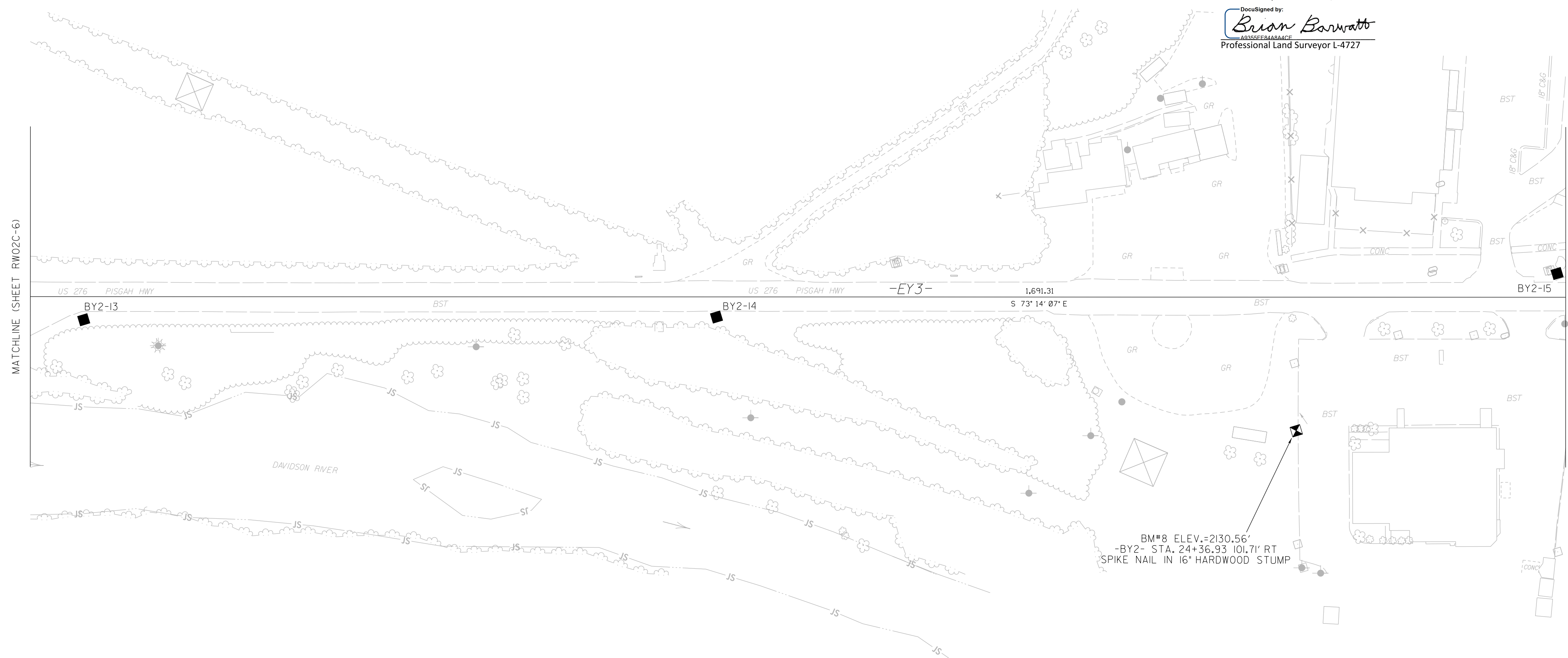
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DocuSigned by:
Brian Barwatt
Professional Land Surveyor L-4727

SEE SHEETS RW02C-7 & RW02C-8
FOR FURTHER ALIGNMENT DETAILS



BM#8 ELEV.=2130.56'
-BY2- STA. 24+36.93 101.71' RT
SPIKE NAIL IN 16" HARDWOOD STUMP

REVISIONS

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-5799	RW02C-6

Location and Surveys

INSERT CONSULTANT'S NAME
 LOCATION AND SURVEYS, DIVISION 14
 122 BONNIE LANE
 SYLVA, NC 28779

PROJECT SURVEYOR



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 UNLESS ALL SIGNATURES COMPLETED

SEE SHEETS RW02C-7 & RW02C-8
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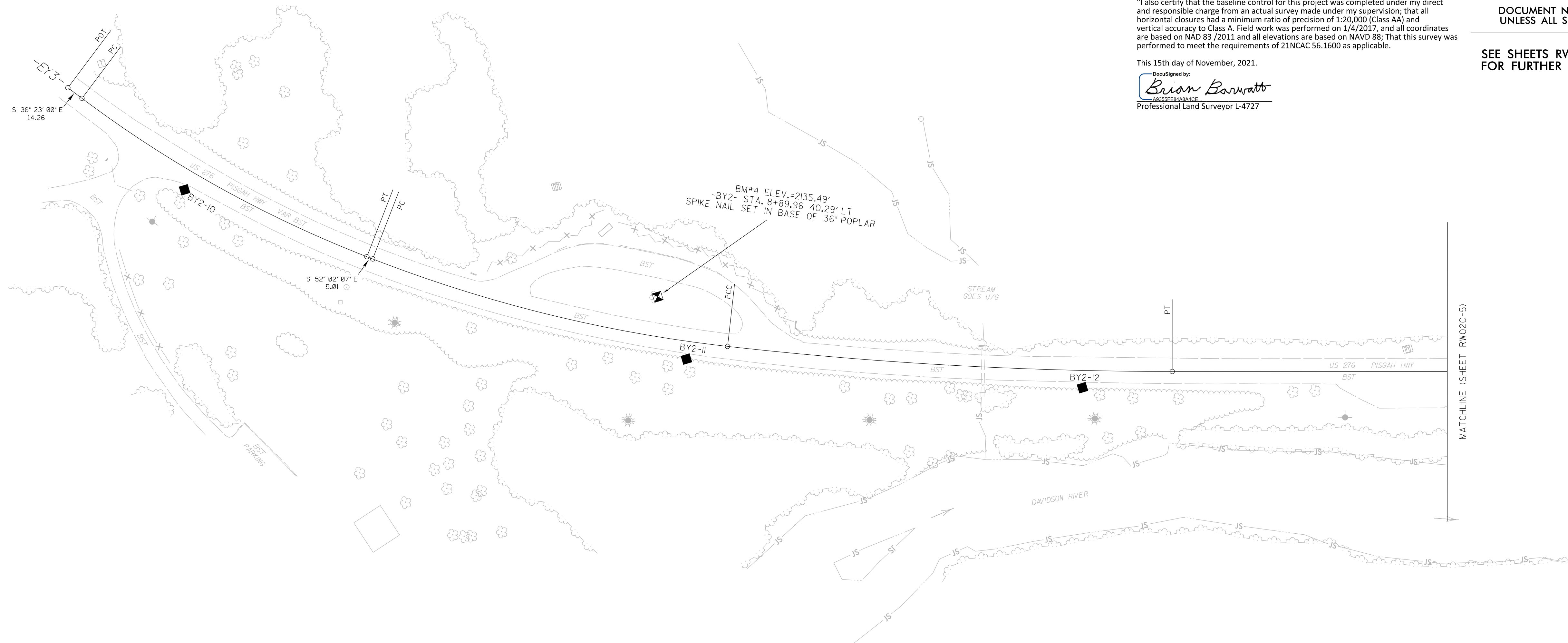
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 Brian Barwatt
 Professional Land Surveyor L-4727



REVISIONS


I5:NDV-20210906
 C:\Sylvia\Projects\5799\FW_Sheets\To_Send\5799_1s_rw02c-6.dgn
 bobbarwatt AT LS-317902

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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-5799	RW02C-7
Location and Surveys	
LOCATION AND SURVEYS, DIVISION 14 122 BONNIE LANE SYLVA, NC 28779	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BL POINT	DESC.	NORTH	EAST	ELEVATION
G101	GPS-101	573795.8660	893308.2950	2172.39
G102	GPS-102	574249.8700	893839.5800	2146.96
1	BL-1	574611.9740	894139.7750	2131.36
2	BL-2	574851.4810	894367.8660	2132.85
3	BL-3	575168.3680	894689.6780	2129.88
4	BL-4	575058.6510	895016.6880	2129.98
5	BL-5	574912.9290	895401.3210	2127.81
6	BL-6	574741.4290	895786.3980	2127.41
7	BL-7	574599.1180	896250.0580	2128.28
8	BL-8	574427.4550	896637.4560	2128.53

BY1 POINT	DESC.	NORTH	EAST	ELEVATION
9	BY1-9	574101.0390	894145.4050	2128.64
Y1	BL-1	574611.9740	894139.7750	2131.36

BY2 POINT	DESC.	NORTH	EAST	ELEVATION
10	BY2-10	576083.7850	892415.5630	2137.73
11	BY2-11	575836.0030	892764.6220	2136.39
12	BY2-12	575721.6380	893064.5280	2135.53
13	BY2-13	575622.5670	893382.2060	2135.30
14	BY2-14	575495.1360	893812.4520	2134.48
15	BY2-15	575352.9770	894392.1670	2130.28
Y3	BL-3	575168.3680	894689.6780	2129.88

BY3 POINT	DESC.	NORTH	EAST	ELEVATION
YA3	BL-3	575168.3680	894689.6780	2129.88
16	BY3-16	575605.7930	895077.7400	2132.50
17	BY3-17	575844.5330	895497.3520	2139.86
G103	GPS-103	576332.1790	896053.5760	2157.37

BY4 POINT	DESC.	NORTH	EAST	ELEVATION
18	BY4-18	575808.4810	895015.2680	2145.20
Y16	BY3-16	575605.7930	895077.7400	2132.50
19	BY4-19	575423.4150	895317.9750	2123.63

.....
 BM1 ELEVATION = 2149.28
 N 574332 E 893722
 SPIKE NAIL IN BASE OF 16" POPLAR

.....
 BM2 ELEVATION = 2129.56
 N 574981 E 894977
 SPIKE NAIL IN 36" WHITE OAK STUMP

.....
 BM3 ELEVATION = 2128.90
 N 574512 E 896702
 SPIKE NAIL IN 8" HOLLY

.....
 BM4 ELEVATION = 2135.49
 N 575891 E 892757
 SPIKE NAIL IN BASE OF 36" POPLAR

.....
 BM5 ELEVATION = 2130.56
 N 575300 E 894183
 SPIKE NAIL IN 16" HARDWOOD STUMP

.....
 BM6 ELEVATION = 2148.51
 N 576026 E 895631
 SPIKE NAIL IN 18" WHITE PINE

EAA POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	575059.799	894588.623							
LINE			N 64°23'39.9" E	162.47					
PC	575130.014	894735.138							
CURVE			N 86°24'27.9" E	143.07	44°01'36.0"(RT)	30°01'16.7"	146.65	77.16	190.85
PT	575138.978	894877.927							
LINE			S 71°34'44.1" E	20.76					
POT	575132.420	894897.619							

EAB POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	575280.527	894574.474							
LINE			N 83°17'47.4" E	96.67					
PC	575291.811	894670.480							
CURVE			N 73°26'30.7" E	117.86	19°42'33.3"(LT)	16°38'24.1"	118.44	59.81	344.33
PT	575325.400	894783.454							
LINE			N 63°35'14.1" E	15.19					
POT	575332.159	894797.062							

EAC POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	575350.120	894883.947							
LINE			S 09°51'18.8" W	84.41					
PC	575266.953	894869.499							
CURVE			S 14°48'30.9" E	67.58	49°19'39.4"(LT)	70°45'43.2"	69.71	37.18	80.97
PT	575201.621	894886.771							
LINE			S 39°28'20.5" E	74.67					
POT	575143.981	894934.240							

EAD POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	575295.450	894524.935							
LINE			S 41°27'04.6" E	42.23					
PC	575263.794	894552.894							
CURVE			S 15°15'43.1" E	136.98	52°22'43.1"(RT)	36°55'16.0"	141.87	76.32	155.18
PT	575131.647	894588.951							
LINE			S 10°55'38.5" W	89.91					
POT	575043.365	894571.907							

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	573941.437	893421.932							
LINE			N 51°56'00.0" E	20.23					
PC	573953.913	893437.863							
CURVE			N 48°42'41.0" E	322.02	06°26'38.0"(LT)	02°00'00.0"	322.19	161.27	2864.79
PT	574166.402	893679.831							
LINE			N 45°29'22.0" E	1507.23					
POT	575223.031	894754.669							
LINE			S 66°14'23.9" E	345.75					
POT	575083.725	895071.116							
LINE			S 66°14'23.9" E	711.92					
PC	574796.887	895722.694							
CURVE			S 66°19'07.6" E	1163.38	00°09'27.5"(LT)	00°00'48.8"	1163.38	581.69	422874.94
PT	574329.618	896788.113							
LINE			N 66°23'51.3" W	0.03					
POT	574329.631	896788.081							

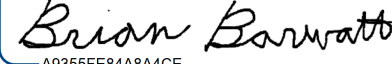
EY1 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	574712.968	893810.193							
LINE			S 84°25'36.4" E	15.85					
PC	574711.429	893825.967							
CURVE			S 68°25'46.8" E	184.61	31°59'39.3"(RT)	17°06'24.6"	187.03	96.02	334.93
PT	574643.560	893997.645							
LINE			S 52°25'57.1" E	118.60					
POT	574571.248	894091.655							

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REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

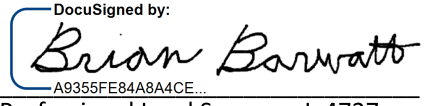
PROJECT REFERENCE NO. R-5799	SHEET NO. RW02C-8
Location and Surveys	
LOCATION AND SURVEYS, DIVISION 14 122 BONNIE LANE SYLVA, NC 28779	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Brian Barwatt, PLS, certify that the Project Control was (performed/verified) 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
 Dates of survey: 1/5/2017
 Datum/Epoch: NAD 83 /2011
 Published/Fixed-control used: (Control Utilized)
 Localized around: G101 (Set 24" Rebar with Cap)
 Northing: 573795.866'
 Easting: 893308.295'
 Elevation: 2172.39'
 Combined grid factor: 0.9997747435
 Geoid model: G12ANC
 Units: English (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 on 1/4/2017, 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 15th day of November, 2021.

Decided by:

 Professional Land Surveyor L-4727

EY2									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	574571.248	894091.655							
LINE			S 52°25'57.1" E	9.70					
PC	574565.333	894099.344							
CURVE			S 33°25'05.1" E	65.16	38°01'43.9"(RT)	57°17'44.8"	66.37	34.46	100.00
PT	574510.944	894135.232							
LINE			S 14°24'13.2" E	15.72					
PC	574495.718	894139.142							
CURVE			S 07°50'07.1" E	165.86	13°08'12.1"(RT)	07°54'10.3"	166.23	83.48	725.00
PT	574331.404	894161.753							
LINE			S 01°16'01.1" E	441.59					
PC	573889.924	894171.517							
CURVE			S 01°06'00.5" E	33.36	00°20'01.0"(RT)	01°00'00.0"	33.36	16.68	5729.58
PT	573856.569	894172.158							
LINE			S 00°56'00.0" E	116.51					
PC	573740.071	894174.056							
CURVE			S 00°54'37.6" W	61.45	03°41'15.2"(RT)	06°00'00.0"	61.46	30.74	954.93
PT	573678.630	894173.079							
LINE			S 02°45'15.2" W	32.80					
POT	573645.872	894171.503							

EY3									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	576189.902	892348.999							
LINE			S 36°23'00.2" E	14.26					
PC	576178.425	892357.456							
CURVE			S 44°12'33.7" E	263.42	15°39'07.1"(LT)	05°55'23.8"	264.24	132.95	967.30
PT	575989.604	892541.137							
LINE			S 52°02'07.2" E	5.01					
PC	575986.523	892545.085							
CURVE			S 59°25'45.7" E	295.43	14°47'16.9"(LT)	04°59'30.2"	296.25	148.95	1147.82
PT	575836.267	892799.451							
LINE			N 66°49'24.4" W	0.00					
PC	575836.268	892799.451							
CURVE			S 70°01'45.6" E	359.94	06°24'43.0"(LT)	01°46'49.7"	360.13	180.25	3218.04
PT	575713.334	893137.748							
LINE			S 73°14'07.2" E	1691.31					
POT	575225.490	894757.170							

EY4									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	575223.031	894754.669							
LINE			N 45°29'21.0" E	471.11					
PC	575553.298	895090.626							
CURVE			N 49°36'53.3" E	314.38	08°15'03.0"(RT)	02°37'20.0"	314.65	157.60	2185.00
PT	575756.990	895330.089							
LINE			N 53°44'25.2" E	162.82					
PC	575853.289	895461.378							
CURVE			N 53°33'12.5" E	37.36	00°22'25.0"(LT)	01°00'00.0"	37.36	18.68	5729.58
PT	575875.484	895491.431							
LINE			N 53°22'00.0" E	480.34					
POT	576162.100	895876.892							

EY5									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	575597.785	895137.234							
LINE			S 43°14'35.9" E	129.69					
PC	575503.311	895226.086							
CURVE			S 42°12'10.2" E	132.99	02°04'51.3"(RT)	01°33'52.7"	133.00	66.51	3661.92
PT	575404.796	895315.423							
LINE			S 41°09'44.5" E	39.86					
POT	575374.790	895341.656							

EY6									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	575833.385	894967.964							
LINE			S 28°45'10.3" E	16.95					
PC	575818.528	894976.115							
CURVE			S 35°30'57.5" E	147.11	13°31'34.4"(LT)	09°10'23.7"	147.45	74.07	624.60
PT	575698.786	895061.576							
LINE			S 42°16'44.7" E	125.55					
POT	575605.897	895146.037							


EY7				
POINT	N	E	BEARING	DIST
POT	575894.272	895172.443		
LINE			S 39°39'50.7" E	204.56
POT	575736.804	895303.009		

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.

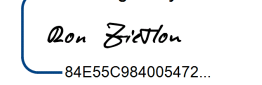
REVISIONS

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5799	RW02D-1
Location and Surveys	
MATTERN AND CRAIG ENGINEERS & SURVEYORS 12 BROAD STREET ASHEVILLE NORTH CAROLINA 28801 (828) 254-2201 FAX (828) 254-4562 NC LIC. NO. C-1154	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, R. L. Zietlow, 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 May, 2023.

DocuSigned by:

 84E55C86A005472
 Professional Land Surveyor L-5235

-L- US 64/US 276/NC 280

TYPE	STATION	NORTH	EAST
POT	4+50.00	573929.1941	893406.2998
PC	4+90.09	573953.9140	893437.8641
PT	8+12.31	574166.4203	893679.8517
PC	27+81.65	575547.0060	895084.2256
PT	30+82.05	575742.2354	895312.2293
POT	37+85.71	576162.1005	895876.8915

-Y1- ECUSTA RD.

TYPE	STATION	NORTH	EAST
POT	10+00.00	574571.2478	894091.6546
PC	10+09.70	574565.3328	894099.3444
PT	10+73.16	574513.7594	894134.4647
PC	10+73.16	574513.7594	894134.4647
PT	12+54.08	574335.4051	894161.6650
POT	18+88.97	573700.6717	894175.7029

-Y4- DEAVOR RD.

TYPE	STATION	NORTH	EAST
POT	10+00.00	575597.5786	895137.4284
PC	11+53.51	575485.7561	895242.5958
PT	12+38.31	575422.9385	895299.5609
POT	13+10.00	575368.9707	895346.7436

-Y2- US 64

TYPE	STATION	NORTH	EAST
PC	10+00.00	575221.2203	894752.8265
PT	10+97.98	575183.9545	894843.4352
PC	20+58.67	574796.8875	895722.6939
PT	32+22.05	574329.6176	896788.1130

-Y5- FOREST GATE DR.

TYPE	STATION	NORTH	EAST
POT	10+00.00	575605.6515	895146.2604
PC	11+25.83	575698.7509	895061.6086
PT	12+73.38	575818.5696	894976.0923
POT	12+90.28	575833.3847	894967.9635

-Y3- US 276

TYPE	STATION	NORTH	EAST
PC	10+00.00	575221.2203	894752.8265
PT	11+46.20	575268.4676	894614.5044
POT	26+88.51	575713.3336	893137.7478

Y6

TYPE	STATION	NORTH	EAST
POT	10+00.00	575735.9029	895303.7558
POT	12+05.73	575894.2716	895172.4431

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.

REVISIONS

09 MAY 2023 14:10
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 R. Zietlow

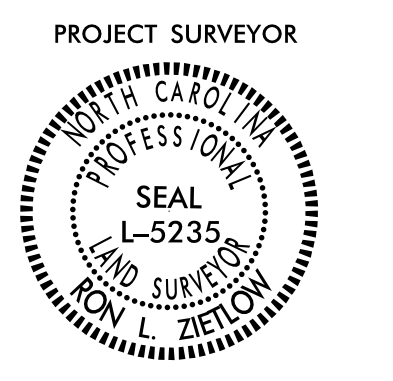
6/2/2023

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5799	RW03E-1

Location and Surveys

MATTEN AND CRAIG
ENGINEERS & SURVEYORS
12 BROAD STREET
ASHEVILLE NORTH CAROLINA 28801
(828) 254-2201
FAX (828) 254-4562
NC LIC. NO. C-1154



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	13+23.00	-82.00	574582.9089	893986.5477
L	13+23.00	-75.00	574577.9178	893991.4543
L	13+34.00	-82.00	574590.6203	893994.3921
L	13+34.00	-75.00	574585.6293	893999.2986
L	15+37.27	75.00	574621.1619	894249.4111
L	27+77.27	75.00	575490.4525	895133.6813
L	27+82.14	-75.00	575600.8448	895032.0084
L	29+25.00	-87.00	575709.9835	895132.8825
L	29+43.57	-75.65	575713.8656	895154.9048
L	30+77.41	33.81	575712.3767	895328.7391
L	31+03.07	-56.12	575799.8109	895295.6088
L	31+54.00	-38.90	575816.3809	895346.7550

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	10+71.69	-88.80	574541.0117	894219.0007
Y1	10+95.85	-87.99	574513.4688	894225.6856
Y1	11+04.34	-84.65	574503.4052	894224.7364
Y1	11+48.01	-53.71	574450.1427	894204.2097
Y1	11+82.92	-44.50	574411.8334	894200.6416
Y1	11+95.00	-44.50	574399.0725	894202.1173
Y1	11+95.00	-50.00	574399.6572	894207.5862
Y1	12+20.72	39.50	574365.9705	894120.7293
Y1	12+54.08	39.50	574334.5318	894122.1746
Y1	12+55.00	-44.50	574335.4656	894206.1739
Y1	12+55.00	-50.00	574335.5872	894211.6726
Y1	12+70.00	-44.33	574320.4655	894206.3359
Y1	13+13.00	-40.39	574277.3889	894203.3454
Y1	13+83.35	-33.56	574206.9051	894198.0750
Y1	13+85.78	-33.50	574204.4700	894198.0690
Y1	16+00.00	-33.50	573990.3068	894202.8054
Y1	16+00.00	-17.00	573989.9419	894186.3095
Y1	16+68.00	17.00	573921.2068	894153.8213
Y1	16+68.00	39.50	573920.7093	894131.3268

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	11+25.00	45.00	575475.6928	895190.2853
Y4	11+55.00	37.00	575459.3370	895216.6493
Y4	12+23.07	-114.13	575510.0600	895374.9270
Y4	12+24.90	-208.69	575571.2692	895447.0299
Y4	12+40.00	31.00	575401.2637	895277.3337
Y4	12+59.15	-21.15	575421.1740	895329.1958
Y4	12+62.60	-113.25	575479.1916	895400.8040
Y4	12+85.00	-20.00	575400.9536	895345.3477
Y4	12+85.00	-13.00	575396.3462	895340.0777
Y4	12+93.11	25.00	575365.2268	895316.8096
Y4	12+93.11	13.00	575373.1251	895325.8438

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	13+04.00	54.00	575365.6882	894478.9884
Y3	13+04.00	50.00	575361.8582	894477.8346
Y3	13+60.00	39.00	575367.4785	894421.0419
Y3	13+60.00	54.00	575381.8409	894425.3685
Y3	13+66.79	-50.00	575284.2199	894388.8684
Y3	17+34.37	-50.00	575390.2443	894036.9149
Y3	17+39.91	-14.00	575426.3123	894041.9938
Y3	17+44.22	14.00	575454.3652	894045.9440
Y3	17+48.06	39.00	575479.4125	894049.4710

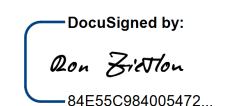
ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y5	11+18.00	46.00	575723.9031	895100.9111
Y5	11+35.00	-54.53	575669.4942	895014.6145
Y5	12+05.00	46.00	575786.9371	895049.8666
Y5	12+05.00	-45.00	575734.7138	894975.3432

NOT SET FALLS IN BUSH

I, R. L. Zietlow, 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 9/29/21 through 5/11/23, 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 May, 2023.



Professional Land Surveyor L-5235

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 9/29/21 TO 5/11/23.

REVISIONS

15 MAY 2023 08:26 I:\Projects\2000\00010001\MC-ASH-WECS-L152H.RW Revision\03 Design\03-Sur-view\01-Deliverables\R5799_1s-rw03e-1.dgn

6/2/19

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 9/29/21 TO 5/15/23.

I, R. L. Zietlow, 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 5/3/23 to 5/15/23, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of May, 2023.

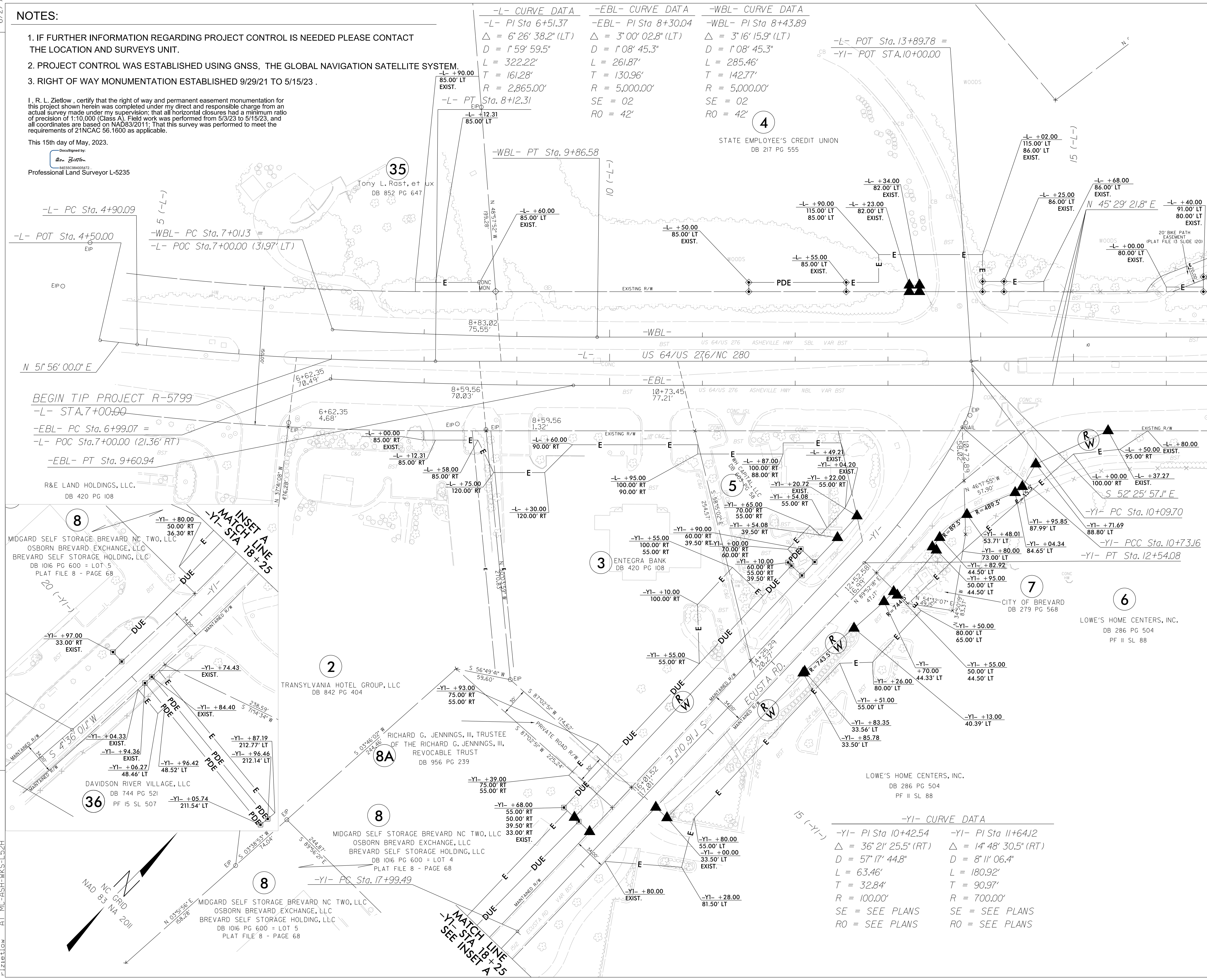
Designed by: 
Professional Land Surveyor L-5235

-L- CURVE DATA	-EBL- CURVE DATA	-WBL- CURVE DATA
-L- PI Sta 6+51.37	-EBL- PI Sta 8+30.04	-WBL- PI Sta 8+43.89
$\Delta = 6^{\circ} 26' 38.2''$ (LT)	$\Delta = 3^{\circ} 00' 02.8''$ (LT)	$\Delta = 3^{\circ} 16' 15.9''$ (LT)
$D = 1^{\circ} 59' 59.5''$	$D = 1^{\circ} 08' 45.3''$	$D = 1^{\circ} 08' 45.3''$
$L = 322.22'$	$L = 261.87'$	$L = 285.46'$
$T = 161.28'$	$T = 130.96'$	$T = 142.77'$
$R = 2,865.00'$	$R = 5,000.00'$	$R = 5,000.00'$
-L- PT Sta. 8+12.31	$SE = 02$	$SE = 02$
	$RO = 42'$	$RO = 42'$

PROJECT REFERENCE NO. R-5799	SHEET NO. RW04
Location and Surveys	
MATTER AND CRAIG ENGINEERS & SURVEYORS 12 BROAD STREET ASHEVILLE NORTH CAROLINA 28801 (828) 254-2201 FAX (828) 254-4562 NC LIC. NO. C-1154	
PROJECT SURVEYOR	
	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MATCH LINE -L- STA 16 + 50 SHEET 5



REVISIONS

31 MAY 2023 10:53
 133921 0000
 PLZietlow
 Design\03-Survey\01-Deliverables\5799_1s_rw04_rz.dgn
 Revision\03-Survey\01-Deliverables\5799_1s_rw04_rz.dgn



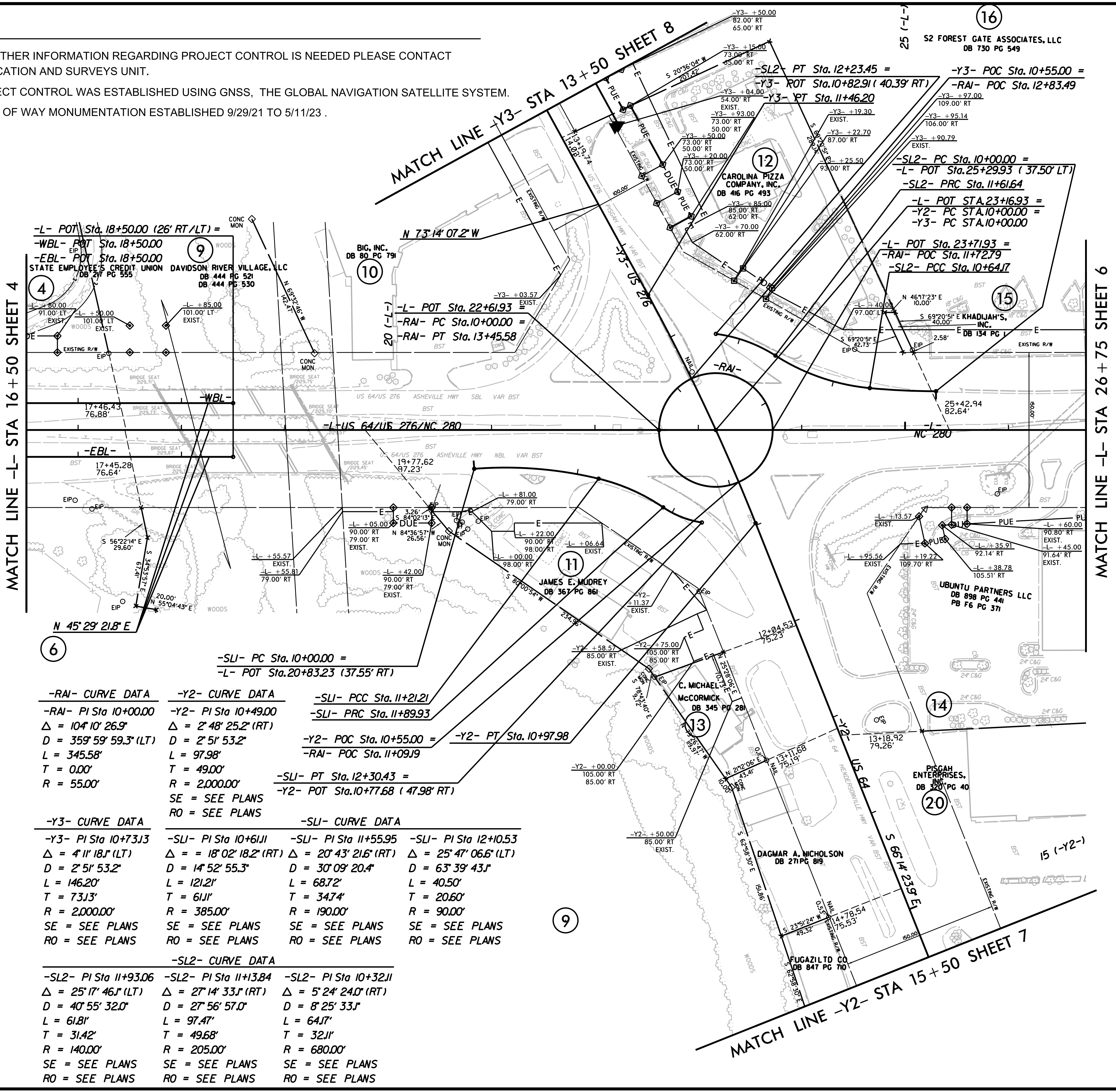
MATCH LINE -YI- STA 18 + 25 SEE INSET A

6/2/2023

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 9/29/21 TO 5/11/23 .

PROJECT REFERENCE NO. R-5799	SHEET NO. RW05
Location and Surveys	
MATTER AND CRAIG ENGINEERS & SURVEYORS 12 BROAD STREET ASHEVILLE NORTH CAROLINA 28801 (828) 254-2201 FAX (828) 254-4562 NC LIC. NO. C-1154	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-L- POT Sta. 18+50.00 (26' RT/LT) =
 -WBL- POT Sta. 18+50.00
 -EBL- POT Sta. 18+50.00
 STATE EMPLOYEES CREDIT UNION
 DB 417 PG 555
 DAVIDSON RIVER VILLAGE, LLC
 DB 444 PG 521
 DB 444 PG 530

-L- POT Sta. 22+61.93
 -RAI- PC Sta. 10+00.00 =
 -RAI- PT Sta. 13+45.58

-SL2- PC Sta. 10+00.00 =
 -L- POT Sta. 25+29.93 (37.50' LT)
 -SL2- PRC Sta. 11+61.64
 -L- POT STA. 23+16.93 =
 -Y2- PC STA. 10+00.00 =
 -Y3- PC STA. 10+00.00

-L- POT Sta. 23+71.93 =
 -RAI- POC Sta. 11+72.79
 -SL2- PCC Sta. 10+64.17

-SLI- PC Sta. 10+00.00 =
 -L- POT Sta. 20+83.23 (37.55' RT)

-RAI- CURVE DATA	-Y2- CURVE DATA
-RAI- PI Sta 10+00.00	-Y2- PI Sta 10+49.00
$\Delta = 104^{\circ} 10' 26.9''$	$\Delta = 2^{\circ} 48' 25.2''$ (RT)
$D = 359^{\circ} 59' 59.3''$ (LT)	$D = 2^{\circ} 51' 53.2''$
$L = 345.58'$	$L = 97.98'$
$T = 0.00'$	$T = 49.00'$
$R = 55.00'$	$R = 2,000.00'$
	SE = SEE PLANS
	RO = SEE PLANS

-SLI- PCC Sta. 11+21.21	-Y2- PT Sta. 10+97.98
-SLI- PRC Sta. 11+89.93	-RAI- POC Sta. 11+09.19
-Y2- POC Sta. 10+55.00 =	-Y2- POT Sta. 10+77.68 (47.98' RT)
-SLI- PT Sta. 12+30.43 =	
-Y2- POT Sta. 10+77.68 (47.98' RT)	

-Y3- CURVE DATA	-SLI- CURVE DATA
-Y3- PI Sta 10+73.13	-SLI- PI Sta 10+6.11
$\Delta = 4^{\circ} 11' 18.1''$ (LT)	$\Delta = 18^{\circ} 02' 18.2''$ (RT)
$D = 2^{\circ} 51' 53.2''$	$D = 14^{\circ} 52' 55.3''$
$L = 146.20'$	$L = 121.21'$
$T = 73.13'$	$T = 6.11'$
$R = 2,000.00'$	$R = 385.00'$
SE = SEE PLANS	SE = SEE PLANS
RO = SEE PLANS	RO = SEE PLANS

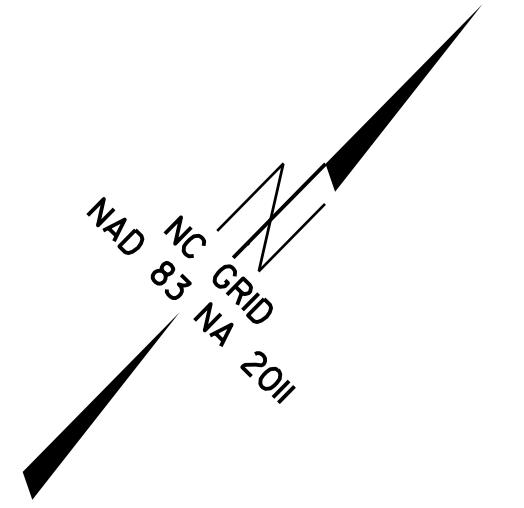
-SL2- CURVE DATA	-SLI- CURVE DATA
-SL2- PI Sta 11+93.06	-SLI- PI Sta 11+13.84
$\Delta = 25^{\circ} 17' 46.1''$ (LT)	$\Delta = 27^{\circ} 14' 33.1''$ (RT)
$D = 40^{\circ} 55' 32.0''$	$D = 27^{\circ} 56' 57.0''$
$L = 61.81'$	$L = 97.47'$
$T = 31.42'$	$T = 49.68'$
$R = 140.00'$	$R = 205.00'$
SE = SEE PLANS	SE = SEE PLANS
RO = SEE PLANS	RO = SEE PLANS

-SL2- CURVE DATA	-SLI- CURVE DATA
-SL2- PI Sta 10+32.11	-SLI- PI Sta 11+55.95
$\Delta = 5^{\circ} 24' 24.0''$ (RT)	$\Delta = 20^{\circ} 43' 21.6''$ (RT)
$D = 8^{\circ} 25' 33.1''$	$D = 30^{\circ} 09' 20.4''$
$L = 64.17'$	$L = 68.72'$
$T = 32.11'$	$T = 34.74'$
$R = 680.00'$	$R = 190.00'$
SE = SEE PLANS	SE = SEE PLANS
RO = SEE PLANS	RO = SEE PLANS

I, R. L. Zietlow, 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 9/29/21 to 5/11/23, 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 May, 2023.
 DocuSigned by:

 Professional Land Surveyor L-5235



REVISIONS

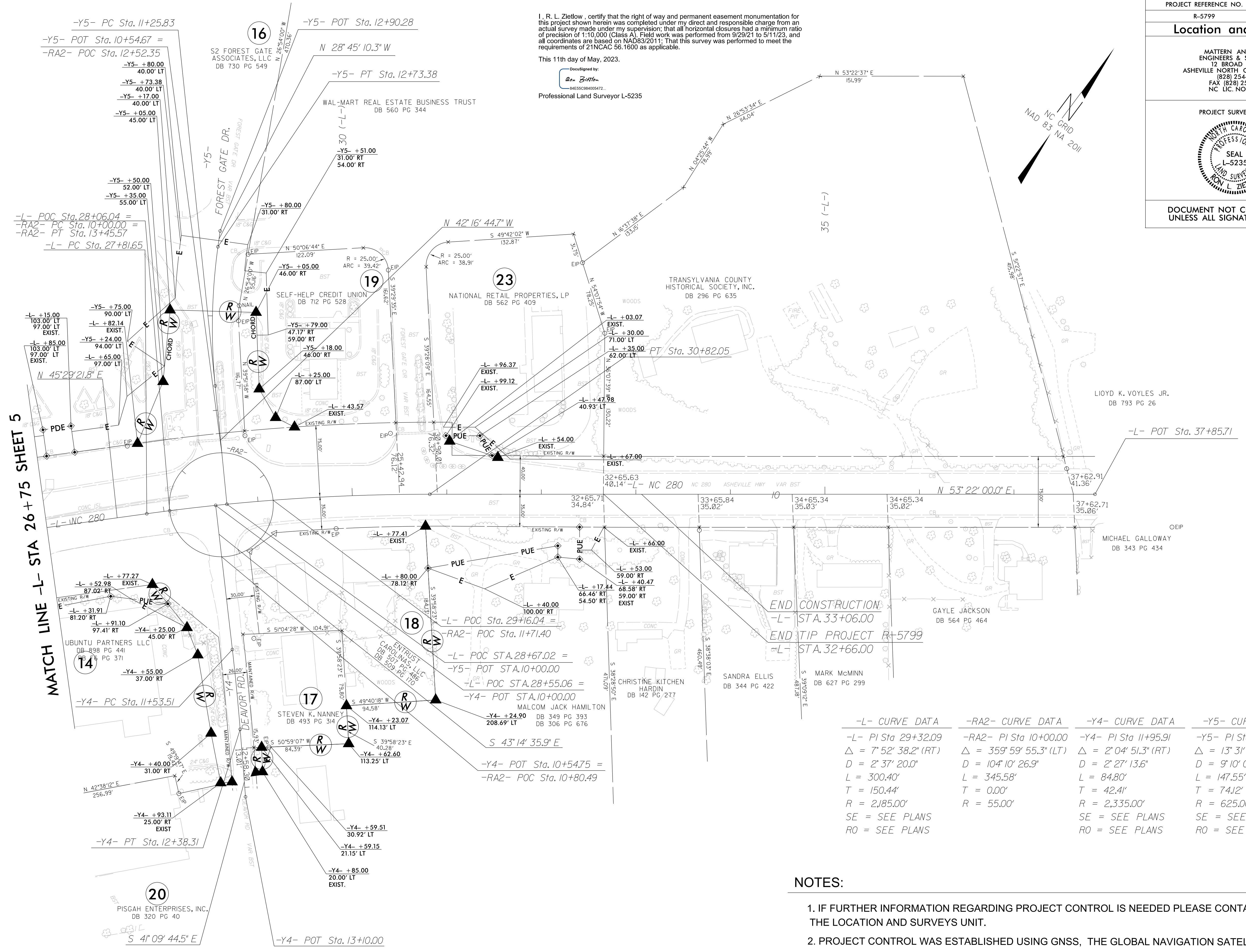
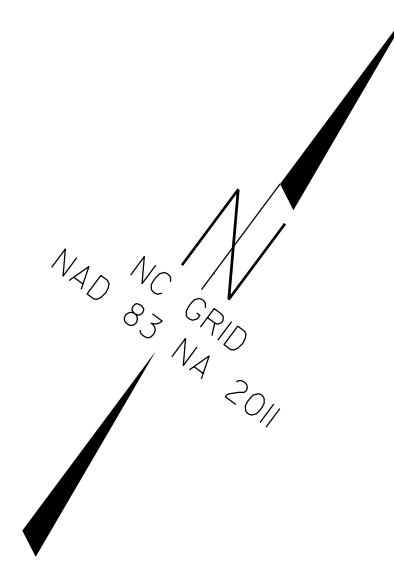
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 R. Zietlow

PROJECT REFERENCE NO.	SHEET NO.
R-5799	RW06
Location and Surveys	
MATTERN AND CRAIG ENGINEERS & SURVEYORS 12 BROAD STREET ASHEVILLE NORTH CAROLINA 28801 (828) 254-2201 FAX (828) 254-4562 NC LIC. NO. C-1154	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, R. L. Zietlow, 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 9/29/21 to 5/11/23, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 58.1600 as applicable.

This 11th day of May, 2023.
 Documented by:

 Ron L. Zietlow
 Professional Land Surveyor L-5235



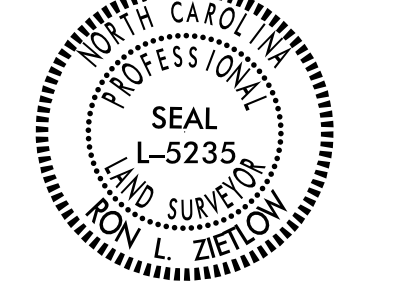
-L- CURVE DATA	-RA2- CURVE DATA	-Y4- CURVE DATA	-Y5- CURVE DATA
-L- PI Sta 29+32.09	-RA2- PI Sta 10+00.00	-Y4- PI Sta 11+95.91	-Y5- PI Sta 11+99.95
$\Delta = 7^{\circ}52'38.2''$ (RT)	$\Delta = 359^{\circ}59'55.3''$ (LT)	$\Delta = 2^{\circ}04'51.3''$ (RT)	$\Delta = 13^{\circ}31'34.4''$ (RT)
$D = 2^{\circ}37'20.0''$	$D = 104^{\circ}10'26.9''$	$D = 2^{\circ}27'13.6''$	$D = 9^{\circ}10'02.4''$
$L = 300.40'$	$L = 345.58'$	$L = 84.80'$	$L = 147.55'$
$T = 150.44'$	$T = 0.00'$	$T = 42.41'$	$T = 74.12'$
$R = 2185.00'$	$R = 55.00'$	$R = 2,335.00'$	$R = 625.00'$
SE = SEE PLANS	SE = SEE PLANS	SE = SEE PLANS	SE = SEE PLANS
RO = SEE PLANS	RO = SEE PLANS	RO = SEE PLANS	RO = SEE PLANS

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 9/29/21 TO 5/11/23 .

09 MAY 2023 14:16
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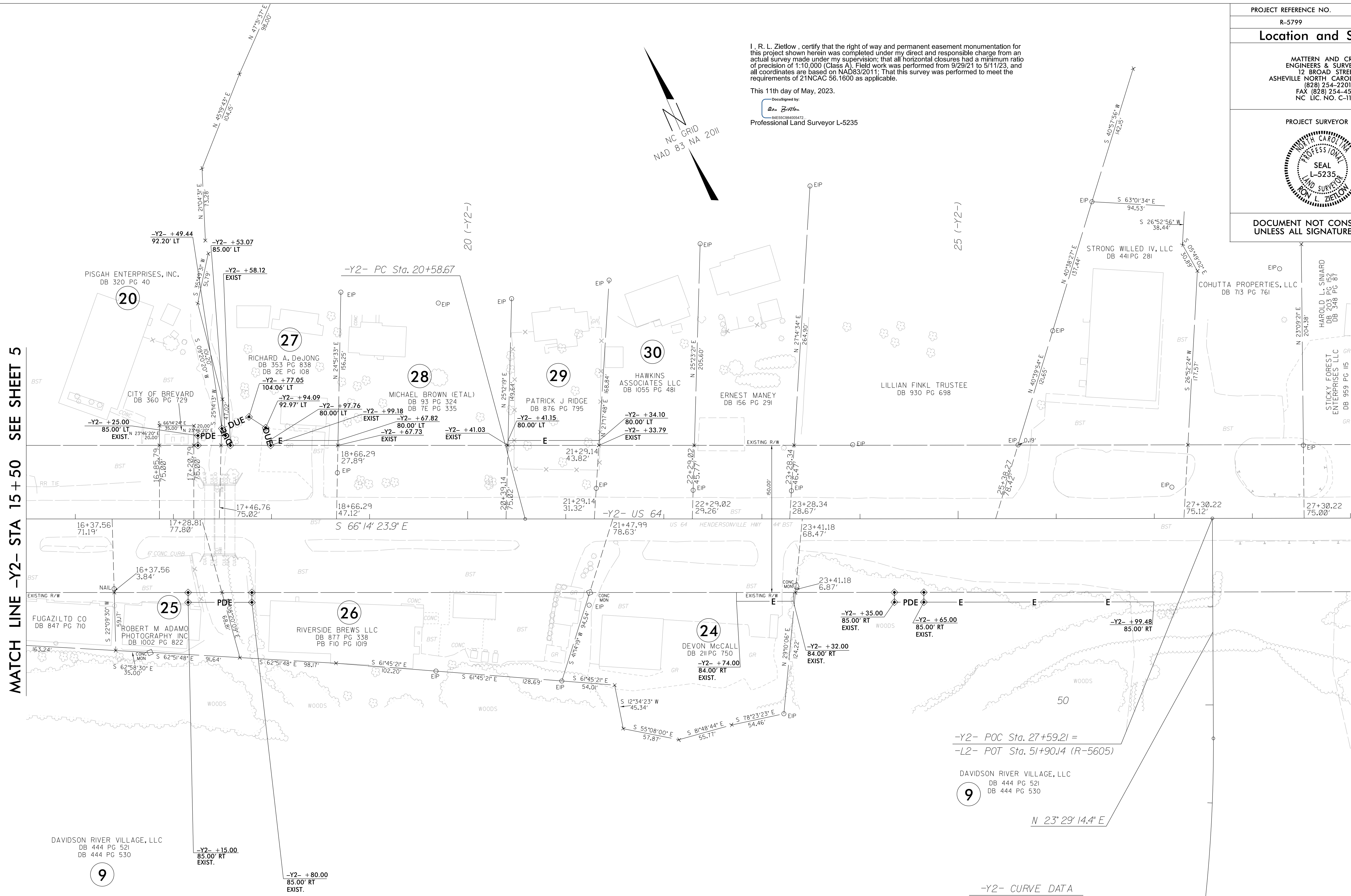
MATCH LINE -L- STA 26 + 75 SHEET 5

PROJECT REFERENCE NO.	SHEET NO.
R-5799	RW07
Location and Surveys	
MATTERN AND CRAIG ENGINEERS & SURVEYORS 12 BROAD STREET ASHEVILLE NORTH CAROLINA 28801 (828) 254-2201 FAX (828) 254-4562 NC LIC. NO. C-1154	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, R. L. Zietlow, 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 9/29/21 to 5/11/23, 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 May, 2023.
 Documented by:

 Professional Land Surveyor L-5235



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 9/29/21 TO 5/11/23 .

REVISIONS

MATCH LINE -Y2- STA 15+50 SEE SHEET 5

15-MAY-2023 08:47
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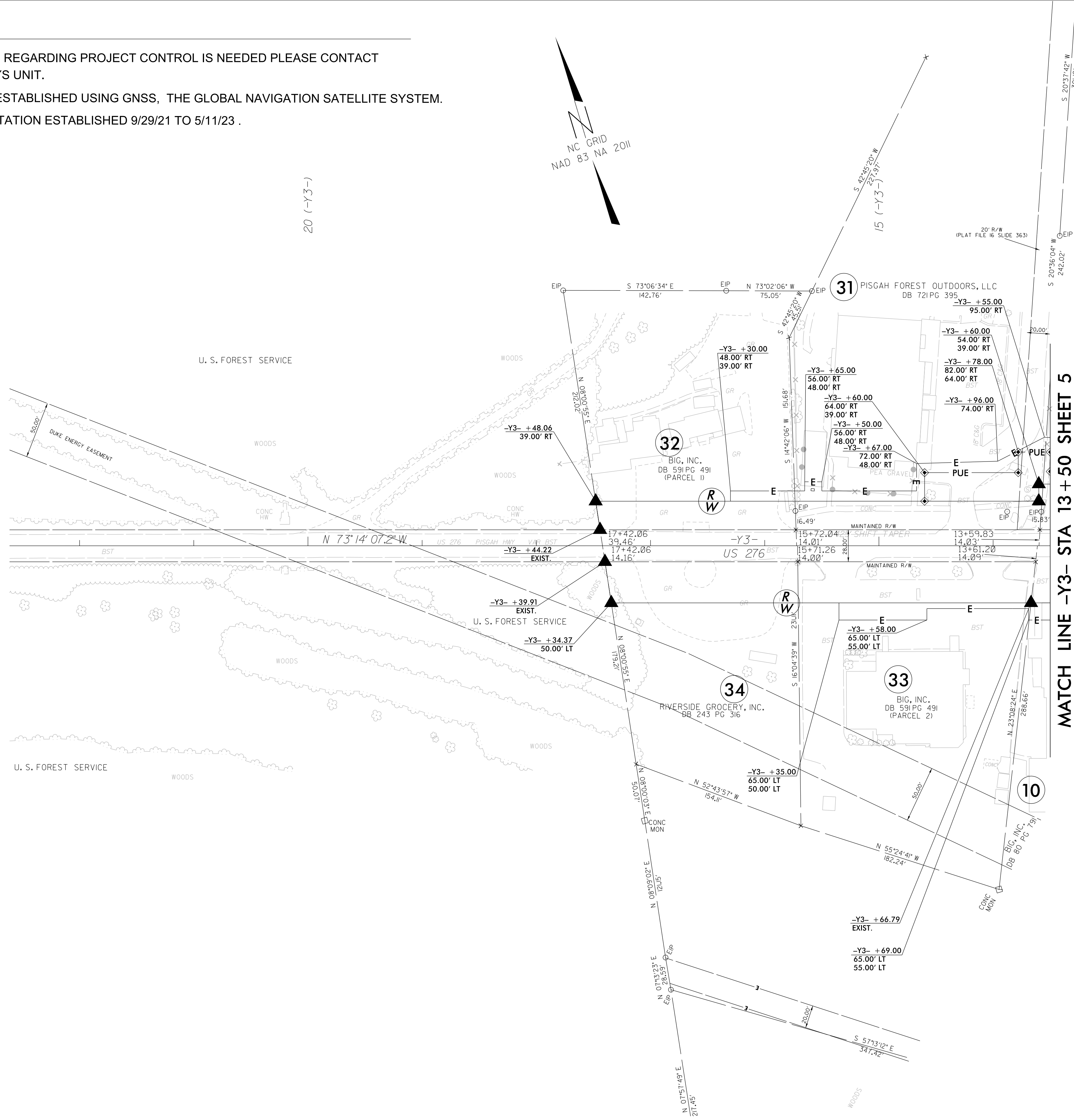
9

9

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 9/29/21 TO 5/11/23 .

PROJECT REFERENCE NO. R-5799	SHEET NO. RW08
Location and Surveys	
MATTERN AND CRAIG ENGINEERS & SURVEYORS 12 BROAD STREET ASHEVILLE NORTH CAROLINA 28801 (828) 254-2201 FAX (828) 254-4562 NC LIC. NO. C-1154	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCH LINE -Y3- STA 13 + 50 SHEET 5

I, R. L. Zietlow, 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 9/29/21 to 5/11/23, 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 May, 2023.

DocuSigned by:

 84E55C984005472
 Professional Land Surveyor L-5235

REVISIONS

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