

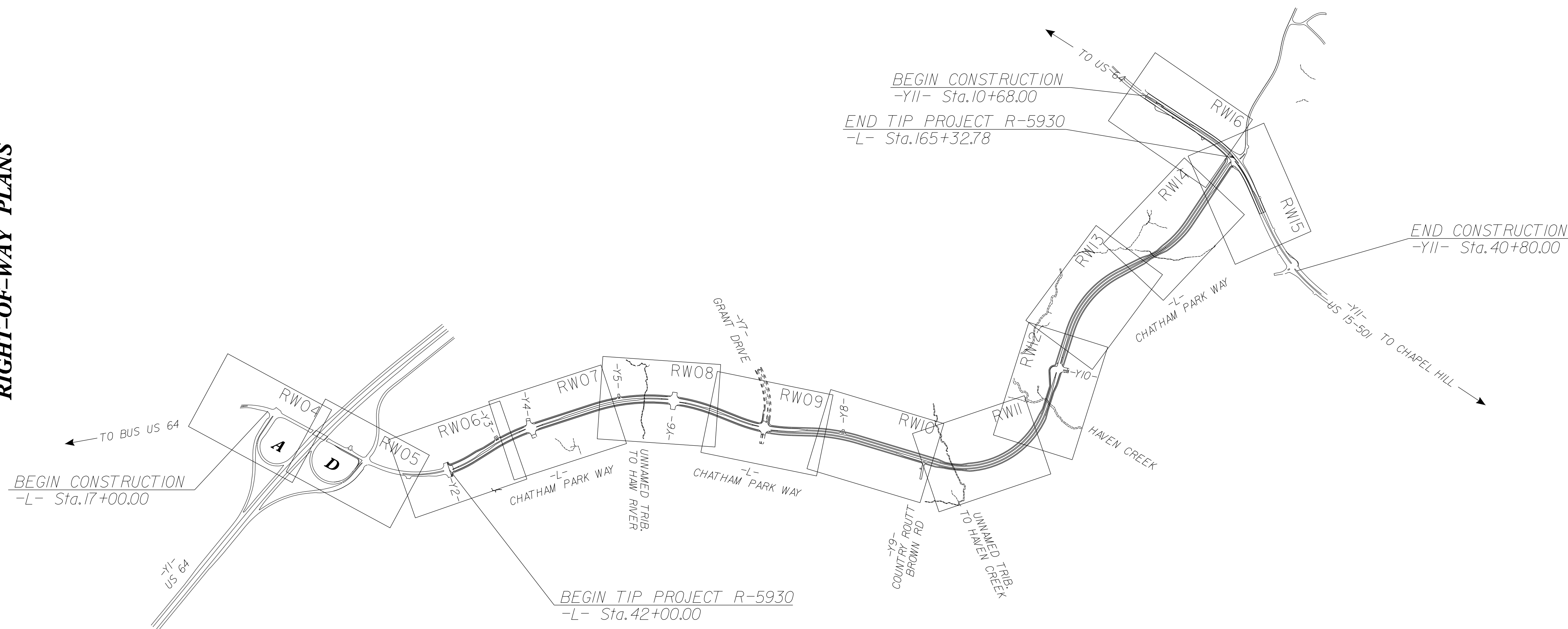
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5930	RW01	22

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

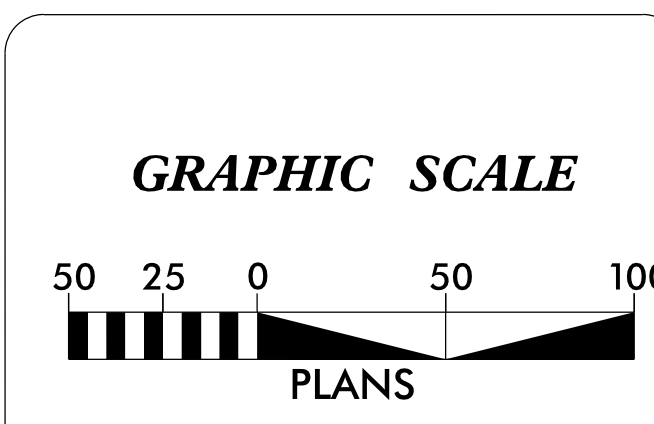
**CHATHAM COUNTY**

**TIP PROJECT: R-5930**

**RIGHT-OF-WAY PLANS**



REVISION NOTE:  
 THIS DRAWING WAS ORIGINALLY SIGNED  
 AND SEALED ON 2/17/2023. THIS DRAWING HAS  
 BEEN REVISED TO CHANGE THE LETTING DATE  
 FROM 6/18/2024 TO 8/15/2023.



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R-5930-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 721,723.517(ft) EASTING: 1,956,011.320(ft) ELEVATION: 539.764(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9998868290 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R-5930-1" TO -L- STATION 17+00.00 IS S 22° 04'12"W - 554.16(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88 (GEOID 12B)

Prepared in the Office of:

**NV5**

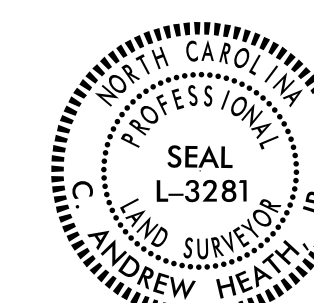
NV5 ENGINEERS & CONSULTANTS, INC.  
 3300 REGENCY PARKWAY, SUITE 100  
 CARY, NC 27518  
 P: 919.851.1912 www.NV5.com  
 NC License # F-1333  
 formerly CALLIX Engineers & Consultants

2018 STANDARD SPECIFICATIONS

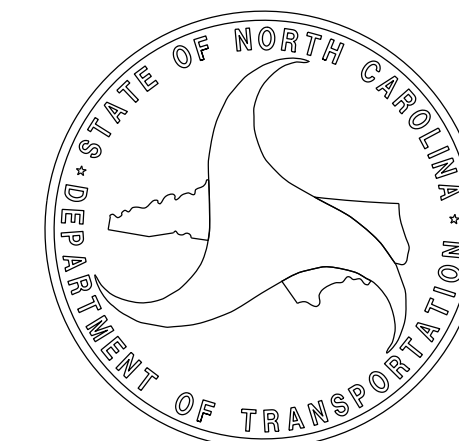
**RIGHT OF WAY DATE:**  
 11/30/2022

**LETTING DATE:**  
 8/15/2023

PROFESSIONAL LAND SURVEYOR



DocuSigned by:  
 C. Andrew Heath Jr. 6/14/2023  
 SIGNATURE: Date:





# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

I, C. Andrew Heath, 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: 3/01/2020 - 3/09/2020  
Datum/Epoch: nad83 (2011)  
Published/Fixed-control use: N/A  
Localized around: R5930-1  
Northing: 721,723.517  
Easting: 1,956,011.32  
Combined grid factor: 0.999868290  
Geoid model: 12B (Conus)  
Units: US 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 3/11/2020 to 4/22/2020, 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.

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Witness my hand and seal,

This 14th day of June, 2023.

DocuSigned by:  
*C. Andrew Heath Jr.*  
2CC31483920747F  
Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5930	SHEET NO. RW02C-1
<b>Location and Surveys</b>	
<b>NV5</b>	
<small>NV5 ENGINEERS &amp; CONSULTANTS, INC. 6750 TRYON ROAD CARY, NC 27518 P: 919.851.1912 www.NV5.com NC License # F 1339 Formerly C&amp;A Engineers &amp; Consultants</small>	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

REVISIONS

MATCHLINE RW02C-2

TO SILER CITY  
US HWY 64

TO RALEIGH  
US HWY 64

SEE SHEETS RW02C-4 THRU  
RW02C-5 FOR FURTHER  
ALIGNMENT DETAILS

### NOTES:

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- 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.



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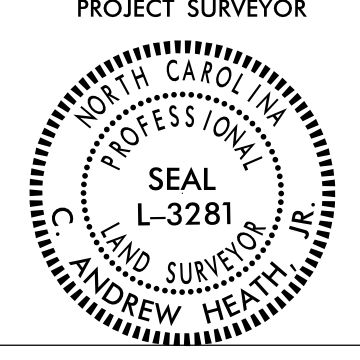
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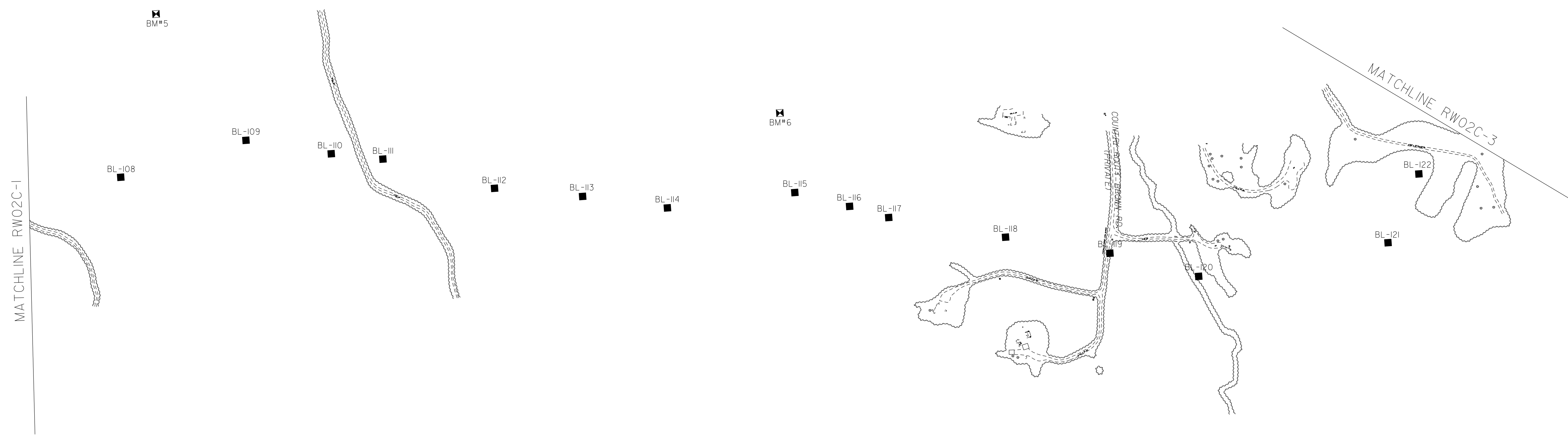
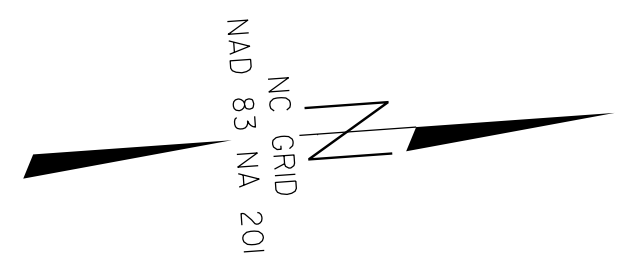
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DocuSigned by:  
*C. Andrew Heath Jr.*  
Professional Land Surveyor L-3281

PROJECT REFERENCE NO.	SHEET NO.
R-5930	RW02C-2
<b>Location and Surveys</b>	
 NV5 ENGINEERS & CONSULTANTS, INC. 6750 TRYON ROAD CARY, NC 27516 P: 919.851.1912 www.nv5.com <small>NC License # F-1333 Formerly CA/TS Engineers &amp; Consultants</small>	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SEE SHEETS RW02C-4 THRU RW02C-5 FOR FURTHER ALIGNMENT DETAILS

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REVISIONS

I4: JUN-2023 10:01  
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at NCCAR-CRANS10V  
andjheath



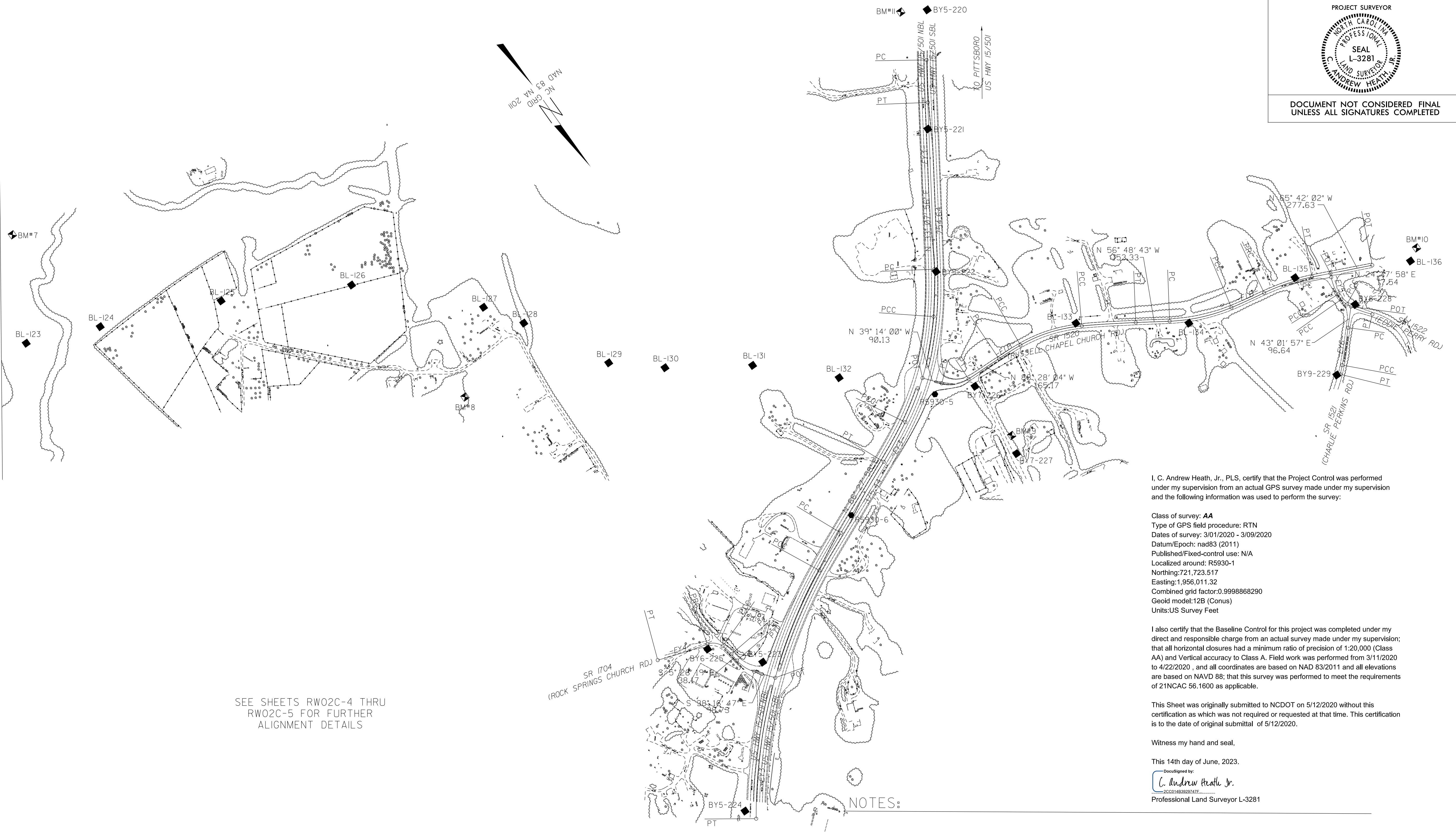
# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-5930	SHEET NO. RW02C-3
<b>Location and Surveys</b>	
<b>NV5</b>	
<small>NV5 ENGINEERS &amp; CONSULTANTS, INC. 6750 TRYON ROAD CARY, NC 27518 P: 919.851.1912 www.NV5.com NC License # F-1333 Formerly C&amp;A/C Engineers &amp; Consultants</small>	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

MATCHLINE RW02C-2



SEE SHEETS RW02C-4 THRU RW02C-5 FOR FURTHER ALIGNMENT DETAILS

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 DocuSigned by:  
  
 20001483828747E...  
 Professional Land Surveyor L-3281


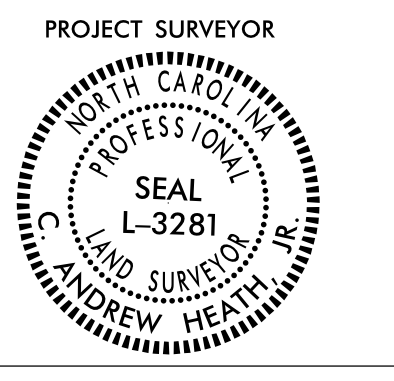
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# SURVEY CONTROL SHEET

## W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-5930	RW02C-4
<b>Location and Surveys</b>	
 <small>NV5 ENGINEERS &amp; CONSULTANTS, INC. 6750 TRYON ROAD DARTMOUTH, NC 27516 P: 919.851.1912 www.NV5.com NC License # P-E-1233 Formerly C&amp;A Engineers &amp; Consultants</small>	
	
<b>PROJECT SURVEYOR</b> <small>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</small>	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
101	BL-101		720756.4790	1955732.5440	478.31
102	BL-102		721268.5690	1955770.2670	513.57
1	R5930-1		721723.5170	1956011.3200	539.76
EOBY1			721889.4791	1956117.4966	UNKNOWN
2	R5930-2		722357.1830	1956416.7170	546.27
103	BL-103		723003.2180	1956669.6370	544.52
104	BL-104		723673.3200	1956399.0540	545.11
105	BL-105		724183.5890	1956219.9480	565.64
106	BL-106		724644.2560	1956059.3490	548.07
107	BL-107		725039.3860	1955974.0860	531.54
108	BL-108		725544.3620	1955769.3810	520.41
109	BL-109		726067.2440	1955654.8270	475.05
110	BL-110		726412.2030	1955734.7840	514.01
111	BL-111		726621.7420	1955771.6800	521.79
112	BL-112		727069.8570	1955923.7330	504.56
113	BL-113		727427.6910	1955982.7090	474.49
114	BL-114		727771.0470	1956054.3590	506.62
115	BL-115		728296.5970	1956028.7930	470.95
116	BL-116		728516.6890	1956101.3450	485.23
117	BL-117		728673.3230	1956158.4040	465.91
118	BL-118		729145.4860	1956272.8850	431.55
119	BL-119		729567.5990	1956369.1000	398.00
120	BL-120		729923.7900	1956489.5410	369.14
121	BL-121		730707.9650	1956407.1620	416.62
122	BL-122		730854.2000	1956134.8600	404.40
123	BL-123		731035.5440	1955844.2050	374.30
124	BL-124		731168.2810	1955528.1540	376.58
125	BL-125		731389.6150	1955014.9600	398.14
126	BL-126		731672.7740	1954492.8500	404.37
127	BL-127		732100.4450	1954064.6320	413.83
128	BL-128		732264.1470	1953957.6370	415.93
129	BL-129		732632.9430	1953748.8450	417.86
130	BL-130		732798.3410	1953554.3060	420.27
131	BL-131		733019.1850	1953225.2410	435.03
132	BL-132		733291.1500	1952938.4140	467.81
5	R5930-5		733603.1130	1952628.8600	471.43
133	BL-133		733710.3250	1951922.9710	460.93
134	BL-134		734005.7310	1951506.6830	452.61
135	BL-135		734116.1540	1950996.7260	451.76
136	BL-136		734357.0610	1950527.3700	458.82

BY5	POINT	DESC.	NORTH	EAST	ELEVATION
220		BY5-220	732165.6100	1951650.5440	450.13
221		BY5-221	732606.5110	1951960.3920	443.26
222		BY5-222	733153.7860	1952303.0800	454.06
A5			733603.1130	1952628.8600	UNKNOWN
6		R5930-6	733829.7670	1953254.0090	468.27
223		BY5-223	734139.7420	1953965.1330	462.61
224		BY5-224	734642.2250	1954420.4020	449.98

BY6	POINT	DESC.	NORTH	EAST	ELEVATION
A223			734139.7420	1953965.1330	UNKNOWN
225		BY6-225	733947.2210	1954134.0190	477.83

BY7	POINT	DESC.	NORTH	EAST	ELEVATION
B5			733603.1130	1952628.8600	UNKNOWN
226		BY7-226	733678.5990	1952460.3250	469.06
227		BY7-227	734035.4450	1952483.6220	463.96

BY8	POINT	DESC.	NORTH	EAST	ELEVATION
A135			734116.1540	1950996.7260	UNKNOWN
228		BY8-228	734372.6230	1950844.8580	462.78

BY9	POINT	DESC.	NORTH	EAST	ELEVATION
A228			734372.6230	1950844.8580	UNKNOWN
229		BY9-229	734584.2290	1951097.4640	458.84

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
201		BY1-201	723552.8080	1954691.7550	550.36
202		BY1-202	723020.5420	1955078.3590	539.96
203		BY1-203	722508.5700	1955538.2250	530.42
204		BY1-204	721955.1490	1956049.0890	519.40
EOOBY1			721889.4791	1956117.4966	UNKNOWN
205		BY1-205	721427.4990	1956598.7360	508.52
206		BY1-206	720951.4050	1957143.7760	492.35
207		BY1-207	720542.1690	1957645.2720	470.32
208		BY1-208	720146.0130	1958126.5820	445.64
209		BY1-209	719682.2280	1958688.8700	416.69

BY2	POINT	DESC.	NORTH	EAST	ELEVATION
210		BY2-210	723509.9430	1954878.9720	565.94
211		BY2-211	723294.9370	1955052.2020	556.60
212		BY2-212	722958.9890	1955325.8060	530.26
213		BY2-213	722652.7810	1955613.0420	520.25
214		BY2-214	722619.1810	1956125.4400	528.72
A2			722357.1830	1956416.7170	UNKNOWN

BY3	POINT	DESC.	NORTH	EAST	ELEVATION
B2			722357.1830	1956416.7170	UNKNOWN
215		BY3-215	722173.1640	1956769.0190	537.66
216		BY3-216	721880.0160	1956862.3840	524.02
217		BY3-217	721471.3100	1956864.7640	506.21
A206			720951.4050	1957143.7760	UNKNOWN

BY4	POINT	DESC.	NORTH	EAST	ELEVATION
A102			721268.5690	1955770.2670	UNKNOWN
218		BY4-218	721067.0280	1956233.3400	503.58
219		BY4-219	721028.7320	1956743.0270	498.65
B206			720951.4050	1957143.7760	UNKNOWN

\*\*\*\*\*  
 BM1 ELEVATION = 470.55  
 N 721385 E 1955349  
 RRS IN 12"PINE  
 \*\*\*\*\*

\*\*\*\*\*  
 BM2 ELEVATION = 419.12  
 N 719570 E 1958620  
 RRS IN 12"POP  
 \*\*\*\*\*

\*\*\*\*\*  
 BM3 ELEVATION = 540.21  
 N 722729 E 1956641  
 RRS IN 20"OAK  
 \*\*\*\*\*

\*\*\*\*\*  
 BM4 ELEVATION = 573.48  
 N 723699 E 1954828  
 RRS IN 12"GUM  
 \*\*\*\*\*

\*\*\*\*\*  
 BM5 ELEVATION = 480.21  
 N 725736 E 1955112  
 RRS IN 12"PINE  
 \*\*\*\*\*

\*\*\*\*\*  
 BM6 ELEVATION = 445.84  
 N 728259 E 1955699  
 RRS IN 13"OAK  
 \*\*\*\*\*

\*\*\*\*\*  
 BM7 ELEVATION = 367.10  
 N 730600 E 1955611  
 RRS IN 18"OAK  
 \*\*\*\*\*

\*\*\*\*\*  
 BM8 ELEVATION = 423.40  
 N 732383 E 1954368  
 RRS IN 15"PINE  
 \*\*\*\*\*

\*\*\*\*\*  
 BM9 ELEVATION = 464.40  
 N 733956 E 1952454  
 RRS IN 20"OAK  
 \*\*\*\*\*

\*\*\*\*\*  
 BM10 ELEVATION = 456.72  
 N 734324 E 1950471  
 RRS IN 14"PINE  
 \*\*\*\*\*

\*\*\*\*\*  
 BM11 ELEVATION = 445.25  
 N 732105 E 1951754  
 RRS IN 10"POP  
 \*\*\*\*\*

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 Professional Land Surveyor L-3281


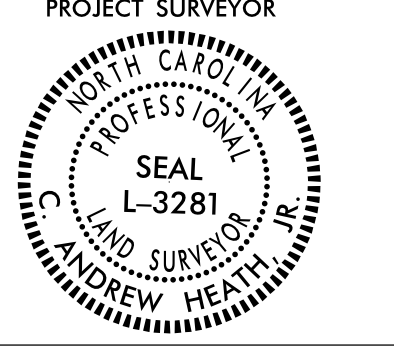
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# SURVEY CONTROL SHEET

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PROJECT REFERENCE NO.	SHEET NO.
R-5930	RW02C-5
<b>Location and Surveys</b>	
 <small>NV5 ENGINEERS &amp; CONSULTANTS, INC. 6750 TRYON ROAD DURHAM, NC 27715 P: 919.851.1912 www.nv5.com NC License # P-1233 Formerly C&amp;A Engineers &amp; Consultants</small>	
	
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*C. Andrew Heath Jr.*  
 23001489929747E

Professional Land Surveyor L-3281

ELA POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	721081.228	1955752.031							
CURVE			N 18°34'01.3" E	324.10	19°38'35.6"(RT)	06°01'52.1"	325.70	164.46	950.00
PT	721388.463	1955855.230							
LINE			N 28°23'19.1" E	1201.04					
POT	722445.068	1956426.264							

ELB POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	733510.644	1952632.343							
LINE			N 39°14'00.0" W	90.13					
PC	733580.457	1952575.337							
CURVE			N 63°51'02.0" W	123.00	49°14'04.0"(LT)	38°48'27.9"	126.87	67.65	147.64
PT	733634.665	1952464.926							
LINE			N 88°28'04.0" W	165.17					
PC	733639.082	1952299.818							
CURVE			N 86°28'21.2" W	114.78	03°59'25.7"(RT)	03°28'33.3"	114.80	57.42	1648.36
PCC	733646.144	1952185.256							
CURVE			N 72°03'40.4" W	290.68	24°49'55.9"(RT)	08°28'33.9"	292.97	148.82	675.97
PCC	733735.673	1951908.707							
CURVE			N 58°13'42.9" W	244.14	02°49'59.2"(RT)	01°09'37.2"	244.16	122.11	4937.85
PT	733864.219	1951701.153							
LINE			N 56°48'43.3" W	153.33					
PC	733948.152	1951572.830							
CURVE			N 67°04'41.3" W	286.26	20°31'55.9"(LT)	07°08'03.0"	287.80	145.46	803.12
PCC	734059.645	1951309.171							
CURVE			N 78°45'35.0" W	162.11	02°49'51.6"(LT)	01°44'46.4"	162.12	81.08	3281.15
PCC	734091.243	1951150.175							
CURVE			N 72°56'16.3" W	227.92	14°28'28.8"(RT)	06°20'02.3"	228.52	114.87	904.58
PT	734158.116	1950932.289							
LINE			N 65°42'01.9" W	277.63					
POT	734272.365	1950679.251							

EY1 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	723485.655	1954723.002							
LINE			S 38°38'51.1" E	721.83					
PC	722921.904	1955173.804							
CURVE			S 44°35'47.9" E	2726.26	11°53'53.6"(LT)	00°26'08.3"	2731.17	1370.51	13151.93
PT	720980.621	1957087.946							
LINE			S 50°32'44.7" E	1909.70					
POT	719767.079	1958562.486							

EY1LPA POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	722420.136	1956412.789							
LINE			S 49°52'56.9" E	246.30					
PC	722261.434	1956601.138							
CURVE			S 18°49'55.6" E	293.87	61°29'04.7"(RT)	19°55'58.0"	308.46	170.96	287.44
PCC	721983.294	1956695.998							
CURVE			S 47°51'10.4" W	317.72	71°53'14.0"(RT)	21°10'15.7"	339.55	196.22	270.63
PCC	721770.094	1956460.435							
CURVE			N 72°39'25.2" W	227.77	47°05'34.8"(RT)	20°05'53.5"	234.31	124.23	285.08
PT	721837.992	1956243.016							
LINE			N 49°06'37.7" W	66.74					
POT	721881.682	1956192.561							

EY1RPA POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	722445.068	1956426.264							
LINE			S 49°52'56.9" E	260.30					
PC	722277.341	1956625.323							
CURVE			S 37°21'58.6" E	183.06	25°01'56.7"(RT)	13°33'57.0"	184.53	93.76	422.35
PCC	722131.849	1956736.425							
CURVE			S 18°56'37.2" E	160.05	11°48'46.1"(RT)	07°22'02.7"	160.34	80.45	777.69
PCC	721980.463	1956788.385							
CURVE			S 10°18'23.3" E	114.31	05°27'41.6"(RT)	04°46'33.5"	114.36	57.22	1199.67
PT	721867.995	1956808.836							
LINE			S 07°34'32.5" E	195.60					
PC	721674.105	1956834.623							
CURVE			S 29°02'04.2" E	875.57	42°55'03.6"(LT)	04°47'16.4"	896.38	470.39	1196.68
PT	720908.572	1957259.568							

EY1LPD POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	721332.270	1955827.219							
LINE			S 56°33'51.3" E	336.26					
PC	721146.987	1956107.834							
CURVE			S 62°31'29.9" E	74.12	11°55'17.1"(LT)	16°03'21.5"	74.25	37.26	356.85
PCC	721112.793	1956173.590							
CURVE			N 47°56'04.6" E	406.22	127°09'34.1"(LT)	25°15'47.1"	503.34	456.47	226.80
PCC	721384.950	1956475.158							
CURVE			N 31°10'55.6" W	160.62	31°04'26.3"(LT)	19°06'36.7"	162.60	83.36	299.82
PT	721522.363	1956391.996							

EY1RPD POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	721299.519	1955812.963							
LINE			S 56°26'41.7" E	332.56					
PC	721115.699	1956090.105							
CURVE			S 72°29'11.7" E	218.80	32°05'00.1"(LT)	14°28'21.2"	221.68	113.83	395.89
PT	721049.856	1956298.762							
LINE			S 88°31'41.8" E	239.89					
PC	721043.694	1956538.573							
CURVE			S 69°30'38.9" E	759.29	38°02'05.7"(RT)	04°55'04.0"	773.42	401.56	1165.07
PT	720777.919	1957249.831							


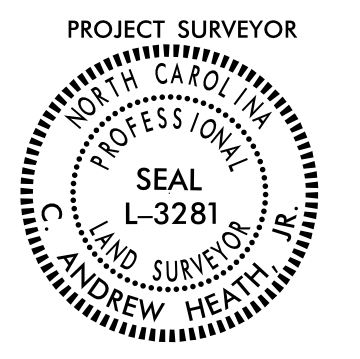
EY2 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	723590.233	1954853.781							
LINE			S 38°39'40.7" E	1047.06					
PC	722772.636	1955507.893							
CURVE			S 65°05'37.0" E	404.71	52°51'52.5"(LT)	12°36'14.2"	419.43	225.98	454.59
PT	722602.198	1955874.963							
LINE			N 88°28'26.8" E	173.66					
PC	722606.822	1956048.559							
CURVE			S 70°42'15.1" E	336.69	41°38'36.3"(RT)	12°05'53.1"	344.21	180.11	473.59
PT	722495.565	1956366.334							
LINE			S 49°52'56.9" E	78.37					
POT	722445.068	1956426.264							

EY3 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	732348.872	1951784.096							
CURVE			N 33°49'31.3" E	192.29	01°23'10.6"(LT)	00°43'15.2"	192.30	96.15	7947.91
PT	732508.618	1951891.140							
LINE			N 33°07'56.0" E	754.64					
PC	733140.567	1952303.608							
CURVE			N 36°16'16.0" E	214.24	06°16'40.0"(RT)	02°55'43.9"	214.34	107.28	1956.25
PCC	733313.289	1952430.351							
CURVE			N 50°24'09.7" E	494.23	21°59'07.4"(RT)	04°25'16.4"	497.27	251.73	1295.93
PCC	733628.302	1952811.174							
CURVE			N 63°55'50.7" E	204.17	05°04'14.6"(RT)	02°28'58.2"	204.23	102.18	2307.69
PT	733718.024	1952994.568							
LINE			N 66°27'58.0" E	375.44					
PC	733867.934	1953338.779							
CURVE			N 65°21'43.1" E	195.50	02°12'29.9"(LT)	01°07'46.2"	195.51	97.77	5072.63
PCC	733949.433	1953516.478							
CURVE			N 49°38'55.9" E	1158.49	29°13'04.5"(LT)	02°29'41.4"	1171.14	598.60	2296.58
PT	734699.521	1954399.353							

EY4 POINT	N	E	BEARING	DIST	DELTA
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# PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. R-5930	SHEET NO. RW02D-1
<b>Location and Surveys</b>	
 <small>NIV5 ENGINEERS &amp; CONSULTANTS, INC. 3300 RESENY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.NIV5.com NC License # 12333 Formerly CAIT Engineers &amp; Consultants</small>	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

I, C. Andrew Heath, Lr., 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 17th day of February, 2023.

DocuSigned by:  
*C. Andrew Heath Jr.*  
202302160802141F  
Professional Land Surveyor L-3281

L			
TYPE	STATION	NORTH	EAST
PC	10+00.00	720524.8438	1955833.5398
PT	18+89.96	721384.6186	1955877.0625
PC	30+96.25	722445.8013	1956450.6802
PT	45+32.70	723815.6765	1956406.0757
PC	48+31.86	724069.0439	1956246.9960
PT	53+99.25	724581.7305	1956007.3155
PC	61+99.21	725342.5870	1955760.2605
PT	77+88.39	726899.5749	1955809.3355
PC	80+89.72	727179.7422	1955920.2593
PT	87+86.66	727858.9597	1956059.8880
PC	90+40.07	728112.2621	1956067.1123
PT	96+46.12	728708.8223	1956163.5466
PC	107+12.24	729729.8079	1956470.4642
PT	124+25.31	731095.5540	1955747.8525
PC	134+32.29	731398.3983	1954787.4936
PT	144+21.54	732017.9929	1954048.9401
PC	149+03.57	732445.5093	1953826.2580
PT	155+34.93	732910.7659	1953409.2653
POT	165+32.78	733465.5198	1952579.8439

Y3			
TYPE	STATION	NORTH	EAST
POT	10+00.00	723947.4498	1955853.5131
POT	14+00.00	724144.5591	1956201.5762

Y4			
TYPE	STATION	NORTH	EAST
POT	10+00.00	724490.7881	1955552.2423
PC	13+60.47	724520.5335	1955911.4796
PT	14+34.40	724537.3628	1955983.1986
PC	17+67.12	724660.2682	1956292.3867
PT	18+39.32	724684.4926	1956360.3787
POT	19+00.00	724702.7824	1956418.2391

Y5			
TYPE	STATION	NORTH	EAST
POT	10+00.00	725654.2342	1955380.4365
POT	13+00.00	725669.1721	1955680.0644

Y6			
TYPE	STATION	NORTH	EAST
POT	10+00.00	726423.3256	1955245.8246
POT	19+00.00	726301.0866	1956137.4846

Y7			
TYPE	STATION	NORTH	EAST
PC	10+00.00	727510.0090	1955449.2453
PT	14+96.60	727533.3250	1955940.2083
POT	20+00.00	727432.8977	1956433.4855

Y8			
TYPE	STATION	NORTH	EAST
POT	10+00.00	728479.6754	1955498.0035
PC	13+24.21	728522.4049	1955819.3826
PT	15+73.75	728513.9171	1956067.6274
POT	16+19.30	728504.8425	1956112.2703

Y9			
TYPE	STATION	NORTH	EAST
POT	10+00.00	729592.3834	1956175.0889
POT	15+00.00	729499.9855	1956666.4775

Y10			
TYPE	STATION	NORTH	EAST
POT	10+00.00	731248.6229	1955262.4511
POT	14+00.00	731640.7815	1955341.2647

Y11			
TYPE	STATION	NORTH	EAST
PC	10+00.00	732313.7235	1951759.7845
PT	12+35.04	732508.6183	1951891.1397
PC	20+25.93	733170.9195	1952323.4194
PT	28+52.06	733696.6760	1952945.5499
PC	33+77.45	733906.4584	1953427.2369
PT	45+00.00	734581.1340	1954310.7756

Y1			
TYPE	STATION	NORTH	EAST
PC	10+00.00	722147.8766	1955843.7537
PT	19+00.00	721512.3693	1956480.7893

Y1LPA			
TYPE	STATION	NORTH	EAST
POT	10+00.00	722406.2320	1956429.2912
PC	12+21.72	722263.3670	1956598.8436
PT	15+00.00	722015.8259	1956700.8325

Y1LPD			
TYPE	STATION	NORTH	EAST
POT	10+00.00	721320.3635	1955845.2515
POT	13+30.00	721138.5330	1956120.6379

Y1RPA			
TYPE	STATION	NORTH	EAST
PC	10+00.00	722603.6177	1956117.0615
PT	12+76.07	722495.2207	1956366.7431
PC	16+13.61	722277.7201	1956624.8731
PT	18+00.00	722130.6750	1956736.9670

Y1RPD			
TYPE	STATION	NORTH	EAST
POT	10+00.00	721287.4776	1955831.1166
PC	13+11.03	721115.5568	1956090.3188
PT	15+30.00	721049.9254	1956296.2874

Y2			
TYPE	STATION	NORTH	EAST
PC	10+00.00	723196.5057	1955931.1276
PT	15+99.78	723464.1713	1956466.8845
PC	16+60.03	723485.9370	1956523.0656
PT	17+27.35	723508.1286	1956586.6178
PC	17+71.37	723521.2324	1956628.6383
PT	20+01.29	723537.7108	1956855.9384


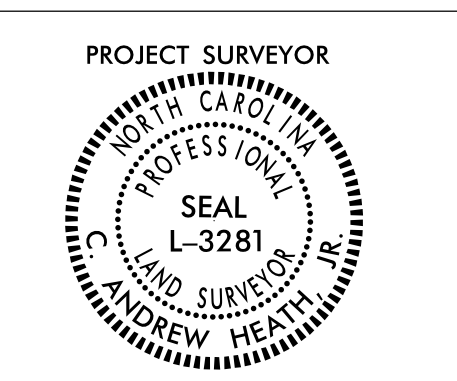
REVISIONS

**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.



# RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5930	RW03E-1
<b>Location and Surveys</b>	
 <small>NIV5 ENGINEERS &amp; CONSULTANTS, INC.        3300 REGENCY PARKWAY, SUITE 100        CARY, NC 27518        P: 919.851.1912 www.NIV5.com        NC License # F-3333        Formerly CIVIL Engineers &amp; Consultants</small>	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

ROW MARKER IRON PIN AND CAP -E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	41+49.69	103.00	723495.4552	1956660.6970
L	42+25.00	115.00	723576.6185	1956647.5741
L	42+42.41	-69.00	723531.8074	1956468.2416
L	42+50.00	60.00	723583.1438	1956586.8274
L	45+32.70	-69.00	723778.9864	1956347.6391
L	45+32.70	60.00	723847.5809	1956456.8901
L	46+15.00	-69.00	723848.6904	1956303.8746
L	48+31.86	-60.00	724037.1395	1956196.1815
L	48+31.86	60.00	724100.9484	1956297.8104
L	48+70.00	-60.00	724070.4510	1956175.6496
L	48+85.00	-100.00	724063.1644	1956133.3671
L	49+55.00	-100.00	724126.4656	1956096.9267
L	49+70.00	-60.00	724159.3705	1956124.4617
L	52+95.00	-60.00	724462.2466	1955985.5772
L	53+00.00	60.00	724509.0003	1956096.2075
L	53+31.00	-100.00	724483.4506	1955935.1987
L	53+36.00	105.00	724557.0128	1956126.6106
L	54+00.00	-100.00	724551.5638	1955911.9713
L	54+10.00	105.00	724624.3856	1956103.8617
L	54+25.00	-60.00	724587.6949	1955942.2950
L	54+30.00	60.00	724629.5105	1956054.8848
L	61+99.21	60.00	725361.1170	1955817.3275
L	61+99.21	-60.00	725324.0570	1955703.1936
L	64+95.00	-60.00	725617.9521	1955628.2550
L	65+20.00	-100.00	725636.2458	1955584.2718
L	65+70.00	-100.00	725687.7218	1955575.7732
L	65+95.00	-60.00	725719.1824	1955611.5421
L	67+30.00	60.00	725866.7791	1955715.5737
L	67+50.00	-60.00	725877.2661	1955594.3724
L	67+50.00	145.00	725892.5228	1955798.8039
L	67+84.00	-130.00	725907.8971	1955522.1580
L	68+64.00	167.00	725999.7413	1955815.4902
L	69+10.00	-160.00	726040.7849	1955487.8575
L	70+18.00	-130.00	726155.0069	1955519.9736
L	70+18.00	-130.00	726155.0069	1955519.9736
L	70+30.00	130.00	726155.3927	1955780.2492
L	70+50.00	-60.00	726184.8608	1955591.5196
L	70+50.00	60.00	726178.1511	1955711.3319
L	71+70.00	60.00	726294.6145	1955720.9069
L	71+70.00	-60.00	726307.5633	1955601.6075
L	71+90.00	100.00	726309.3077	1955762.8203
L	71+94.00	-100.00	726336.7622	1955564.6733
L	72+74.94	-100.00	726420.4356	1955576.1361
L	72+79.00	100.00	726393.6450	1955774.3752
L	73+00.00	-60.00	726439.6984	1955619.7404
L	73+00.00	60.00	726420.0309	1955738.1177
L	77+88.39	-60.00	726921.6619	1955753.5488
L	77+88.39	60.00	726877.4878	1955865.1223
L	80+89.72	-60.00	727201.8292	1955864.4725
L	80+89.72	60.00	727157.6551	1955976.0460
L	83+55.00	-60.00	727446.6531	1955943.0756
L	83+75.00	60.00	727437.6354	1956064.3947
L	83+83.43	-108.15	727484.4437	1955902.6754
L	84+05.00	100.00	727459.0399	1956110.3857
L	84+78.00	100.00	727534.1411	1956125.6951
L	84+99.79	-111.32	727592.8160	1955921.5286
L	85+05.00	60.00	727568.7939	1956091.2337
L	85+25.00	-60.00	727608.1567	1955976.1242
L	87+86.66	-60.00	727860.6702	1955999.9124
L	87+86.66	60.00	727857.2491	1956119.8636
L	90+40.07	-60.00	728113.9727	1956007.1367
L	90+40.07	60.00	728110.5516	1956127.0879
L	93+85.00	-60.00	728465.6794	1956043.6683
L	94+05.00	-100.00	728493.3025	1956008.0981
L	94+65.00	-100.00	728554.6587	1956020.5498
L	94+85.00	-60.00	728566.2302	1956064.0742
L	96+46.12	60.00	728691.5494	1956221.0066
L	96+46.12	-60.00	728726.0953	1956106.0867
L	104+97.75	-60.00	729507.1234	1956466.1756
L	105+02.81	107.46	729498.3028	1956513.0848
L	105+21.93	286.89	729464.9583	1956690.4169
L	105+58.09	60.00	729564.9086	1956483.5463
L	105+62.91	105.25	729556.4993	1956528.2683
L	105+81.59	280.53	729523.9250	1956701.5046
L	107+12.24	-60.00	729747.0809	1956413.0043
L	107+53.00	-60.00	729784.1805	1956423.4114
L	107+90.00	-115.00	729830.2473	1956378.0049
L	108+70.00	60.00	729874.7368	1956564.2481
L	108+75.00	-130.00	729907.2290	1956376.9849
L	109+20.00	140.00	729918.8054	1956650.4418
L	109+39.00	-60.00	729957.2812	1956453.1999
L	110+00.00	140.00	730008.7664	1956656.4585
L	110+15.00	60.00	730027.0131	1956576.8688
L	123+70.00	60.00	731133.8424	1955821.0635
L	123+82.00	120.00	731194.6528	1955829.4609
L	124+00.00	-60.00	731030.8719	1955752.5482
L	124+25.00	-125.00	730976.2572	1955710.5247
L	124+87.00	140.00	731247.6244	1955731.1267

ROW MARKER IRON PIN AND CAP -E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	125+25.00	60.00	731182.7564	1955670.8263
L	125+42.00	-135.00	731001.8967	1955595.9679
L	125+70.00	-60.00	731081.8454	1955591.8201
L	126+90.00	-60.00	731117.9349	1955477.3756
L	128+58.00	-120.00	731111.2380	1955299.1085
L	128+80.00	60.00	731289.5212	1955332.2613
L	129+00.00	100.00	731333.6843	1955325.2170
L	129+45.00	-120.00	731137.4029	1955216.1362
L	129+75.00	-60.00	731203.6475	1955205.5699
L	129+90.00	100.00	731360.7514	1955239.3836
L	130+85.00	60.00	731327.1144	1955213.0482
L	134+32.29	-60.00	731341.1761	1954769.4488
L	134+32.29	60.00	731455.6206	1954805.5383
L	144+21.54	60.00	732045.7106	1954102.1541
L	148+30.00	-60.00	732352.5412	1953807.0313
L	148+45.00	60.00	732421.2802	1953906.5297
L	148+85.00	-105.00	732380.5324	1953741.7128
L	149+60.00	105.00	732547.5821	1953889.9378
L	149+60.00	-60.00	732464.8832	1953747.1586
L	150+34.00	60.00	732590.9322	1953810.1956
L	155+34.93	60.00	732960.6387	1953442.6224
L	155+34.93	-60.00	732860.8931	1953375.9081
L	163+50.00	60.00	733413.7775	1952765.1274
L	164+00.00	-60.00	733341.8294	1952656.8524

ROW MARKER IRON PIN AND CAP -E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y11	12+05.00	105.00	732425.7744	1951962.3858
Y11	13+40.00	105.00	732539.1257	1952036.4381
Y11	14+80.00	81.92	732668.9775	1952093.6320
Y11	23+00.00	81.67	733327.6715	1952552.9283
Y11	25+45.00	81.29	733478.8687	1952727.1163
Y11	37+75.00	-82.69	734164.5980	1953730.9723
Y11	39+15.00	-102.00	734257.6049	1953829.9206
Y11	40+80.00	-102.00	734356.4680	1953952.8201

I, C. Andrew Heath, Jr., PLS, 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 12/19/2022 to 02/08/2023, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 58.1600 as applicable.

This 23rd day of February, 2023.  
 Documented by:  
  
 Professional Land Surveyor L-3281

### 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 12/19/2022 TO 02/08/2023 .

REVISIONS

23-FEB-2023 14:30  
 C:\3-2023\2022\014\_95\SUR\ROW\_Sheets\5930\_1s\_rw03e-1.dgn  
 Study:Heath  
 At NCCAR-CRANSTON



# RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5930	RW03E-2
<b>Location and Surveys</b>	
 <small>NVS ENGINEERS &amp; CONSULTANTS, INC.        3300 RESENY PARKWAY, SUITE 100        CARY, NC 27518        P: 919.851.1512        www.NVS.com</small>	
	
<b>DOCUMENT NOT CONSIDERED FINAL        UNLESS ALL SIGNATURES COMPLETED</b>	

ROW MARKER PERMANENT EASEMENT - E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	42+10.69	-108.00	723490.9596	1956441.1859
L	43+65.00	60.00	723693.9350	1956540.6282
L	43+65.00	130.00	723723.5828	1956604.0397
L	43+85.00	60.00	723712.7862	1956531.6450
L	43+85.00	130.00	723743.3632	1956594.6136
L	44+50.00	-132.00	723681.0808	1956332.0422
L	46+37.00	-156.00	723821.0609	1956218.4954
L	47+55.00	130.00	724073.0738	1956397.9654
L	47+55.00	60.00	724035.8520	1956338.6819
L	47+90.00	60.00	724065.4937	1956320.0710
L	47+90.00	130.00	724102.7156	1956379.3545
L	48+49.00	-152.00	724003.7274	1956108.6095
L	49+00.00	-192.00	724030.0443	1956046.0662
L	50+00.00	-152.00	724143.3728	1956028.5838
L	50+60.00	-152.00	724200.2694	1955999.3588
L	53+16.00	-131.00	724458.0963	1955911.4014
L	55+00.00	-95.00	724648.2194	1955885.8435
L	56+60.00	120.00	724866.7972	1956040.9201
L	56+60.00	60.00	724848.2672	1955983.8531
L	56+85.00	120.00	724890.5751	1956033.1992
L	56+85.00	60.00	724872.0451	1955976.1323
L	57+40.00	-95.00	724876.4873	1955811.7234
L	57+40.00	-60.00	724887.2964	1955845.0125
L	71+45.00	105.00	726266.0258	1955763.1986
L	73+03.00	133.00	726410.8545	1955810.5957
L	73+18.00	114.00	726428.0459	1955794.2574
L	73+18.00	60.00	726437.3129	1955741.0585
L	78+05.00	-110.00	726955.5080	1955713.1729
L	78+05.00	-60.00	726937.1021	1955759.6618
L	78+25.00	-60.00	726955.6977	1955767.0242
L	78+25.00	-110.00	726974.1036	1955720.5352
L	80+65.00	122.00	727111.8472	1956024.5923
L	80+65.00	60.00	727134.6705	1955966.9460
L	83+34.00	126.00	727380.0248	1956118.0367
L	83+65.00	-109.00	727467.6870	1955897.7955
L	83+75.00	100.00	727428.3472	1956103.3013
L	84+60.61	-110.97	727556.3635	1955915.1871
L	84+62.53	-291.93	727592.4231	1955737.8449
L	84+86.06	-281.77	727610.3716	1955751.5361
L	85+76.04	-354.17	727696.3816	1955691.8104
L	85+86.85	-337.07	727703.0155	1955709.9426
L	86+58.00	145.00	727717.1132	1956196.4626
L	87+66.00	140.00	727832.8723	1956199.0866
L	89+50.00	105.00	728019.2375	1956169.5019
L	90+00.00	75.00	728070.0724	1956140.9396
L	90+45.00	105.00	728113.9737	1956172.2089
L	90+92.00	-60.00	728167.2163	1956009.2571
L	91+12.00	-155.00	728193.3829	1955915.5640
L	91+17.00	-60.00	728192.8274	1956010.7063
L	91+35.00	-150.00	728217.5326	1955922.1412
L	91+50.00	118.00	728213.0371	1956190.5274
L	92+27.00	90.00	728288.8352	1956169.4830
L	93+50.00	115.00	728401.8449	1956210.2343
L	96+40.00	-120.00	728737.1952	1956046.7800
L	96+80.00	-60.00	728758.5373	1956115.8391
L	96+80.00	-92.00	728767.7495	1956085.1938
L	97+13.67	110.95	728741.5682	1956289.2407
L	97+60.00	-155.00	728862.4994	1956047.8915
L	97+60.00	-110.00	728849.5447	1956090.9864
L	98+50.00	135.00	728865.2032	1956351.5240
L	99+43.00	-60.00	729010.4033	1956191.5523
L	99+75.00	-60.00	729041.0486	1956200.7645
L	99+83.00	-121.00	729066.2708	1956144.6500
L	100+05.00	-110.00	729084.1727	1956161.5178
L	100+13.00	60.00	729042.8940	1956326.6240
L	100+13.00	88.00	729034.8332	1956353.4386
L	104+74.41	171.27	729452.7366	1956566.0158
L	104+76.20	140.91	729463.1944	1956537.4564
L	104+93.00	60.00	729502.5734	1956464.8078
L	104+94.04	176.22	729470.1158	1956576.4063
L	105+07.09	147.67	729490.8297	1956552.8281
L	105+11.00	-97.00	729565.0090	1956319.6362
L	105+19.00	-60.00	729562.0187	1956357.3729
L	105+38.00	-129.00	729600.0783	1956296.7638
L	105+55.00	-86.00	729603.9796	1956342.8374
L	105+61.00	-60.00	729602.2407	1956369.4640
L	105+67.00	-123.00	729626.1233	1956310.8584
L	106+50.00	99.36	729641.5964	1956547.6975
L	106+98.00	110.00	729684.5007	1956571.7071
L	107+50.00	98.00	729741.1707	1956575.4753
L	107+92.00	-199.00	729850.2859	1956296.4121
L	108+02.00	-170.00	729852.2311	1956326.5197
L	108+98.00	-106.34	729924.4235	1956403.1671
L	109+03.00	111.31	729903.1546	1956619.8304
L	110+00.00	-102.00	730016.1265	1956414.5704
L	110+04.26	116.17	730014.1974	1956632.7691
L	111+00.00	-120.00	730105.7241	1956395.2397
L	111+50.00	129.00	730176.4426	1956639.1411
L	111+55.00	-120.00	730154.5400	1956391.0562
L	112+50.00	95.00	730280.2039	1956588.9527

ROW MARKER PERMANENT EASEMENT - E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	112+50.00	60.00	730273.3584	1956554.6286
L	113+15.00	-60.00	730309.7657	1956423.1535
L	113+15.00	-75.00	730305.9683	1956408.6421
L	122+70.00	60.00	731092.6727	1955918.1102
L	122+70.00	105.00	731133.2578	1955937.5486
L	123+80.00	109.56	731184.0845	1955828.0015
L	125+04.00	104.21	731218.6045	1955704.1502
L	127+00.00	100.00	731273.5351	1955515.9579
L	127+75.00	86.00	731282.7392	1955440.2196
L	127+75.00	60.00	731257.9429	1955432.4002
L	130+05.00	76.00	731342.3737	1955217.8602
L	130+25.00	76.00	731348.3886	1955198.7861
L	130+25.00	60.00	731333.1293	1955193.9742
L	133+40.00	60.00	731427.8643	1954893.5573
L	133+40.00	75.00	731442.1698	1954898.0685
L	135+81.00	-60.00	731396.6780	1954623.9779
L	135+89.00	-132.00	731334.6963	1954586.3437
L	136+07.00	-60.00	731408.1270	1954599.2633
L	136+12.00	-130.00	731347.2980	1954564.2101
L	137+15.00	60.00	731564.6041	1954559.9525
L	137+15.00	80.00	731581.8618	1954570.0605
L	138+85.00	75.00	731667.3990	1954435.4356
L	138+85.00	60.00	731655.5931	1954426.1825
L	140+11.00	-89.00	731626.7033	1954232.4278
L	140+11.00	-60.00	731647.6280	1954252.5055
L	140+25.18	-93.09	731634.3600	1954218.6662
L	140+51.99	-101.23	731649.0506	1954192.5092
L	140+66.00	-106.00	731656.6466	1954178.5486
L	140+68.67	110.30	731807.7988	1954333.2955
L	140+71.00	-60.00	731692.2116	1954208.2054
L	140+71.00	-86.00	731674.3296	1954189.3312
L	140+75.23	129.40	731825.2368	1954343.0892
L	140+84.30	105.80	731815.1362	1954320.2311
L	140+91.14	124.81	731832.5899	1954329.9967
L	141+15.25	96.26	731829.8346	1954294.0600
L	141+22.51	115.12	731847.2805	1954303.8397
L	141+30.51	91.23	731837.1799	1954280.9815
L	141+34.99	-105.04	731712.7463	1954129.1259
L	141+35.00	-60.00	731742.0334	1954163.3479
L	141+38.00	110.00	731854.6204	1954200.7558
L	141+60.00	-105.00	731733.5366	1954111.7523
L	141+60.00	-60.00	731762.1035	1954146.5220
L	142+50.00	97.00	731927.7843	1954217.4304
L	143+60.00	60.00	731994.4146	1954130.4862
L	143+60.00	80.00	732004.5087	1954147.7519
L	143+85.00	-60.00	731956.5890	1954013.8900
L	143+85.00	-95.00	731939.5272	1953983.3384
L	144+10.00	-60.00	731979.5799	1954001.3545
L	144+10.00	-95.00	731963.1297	1953970.4662
L	147+30.00	75.00	732326.2162	1953972.9589
L	147+30.00	60.00	732319.2668	1953959.6554
L	148+87.00	75.31	732465.6034	1953900.7071
L	150+20.00	67.94	732582.9491	1953824.8805
L	150+45.00	90.00	732617.2719	1953828.6898
L	150+71.00	60.00	732622.9575	1953788.3609
L	153+35.00	75.00	732841.8904	1953616.9789
L	153+35.00	60.00	732830.8965	1953606.7742
L	153+85.00	-85.00	732755.6570	1953473.3349
L	154+00.00	-98.00	732754.7242	1953454.3183
L	154+13.00	-60.00	732791.7660	1953469.1622
L	154+50.00	110.00	732948.3112	1953545.3930
L	154+55.00	-95.00	732788.7918	1953416.5377
L	156+20.00	60.00	733007.9320	1953371.9136
L	156+20.00	75.00	733020.4002	1953380.2529
L	156+70.00	-85.00	732915.2036	1953249.7397
L	156+70.00	-60.00	732935.9839	1953263.6386
L	159+30.00	95.00	733209.3698	1953133.6956
L	159+30.00	60.00	733180.2773	1953114.2373
L	160+45.00	138.00	733309.0466	1953062.0120
L	161+54.00	150.00	733379.6200	1952978.0811
L	163+10.00	140.00	733458.0365	1952842.8522
L	163+10.00	60.00	733391.5394	1952798.3760
L	164+00.00	-100.00	733308.5809	1952634.6143
L	164+00.77	84.70	733462.5347	1952736.6548
L	164+45.16	-100.00	733333.6863	1952597.0788

ROW MARKER PERMANENT EASEMENT - E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y11	16+94.48	81.92	732848.5840	1952210.8600
Y11	17+07.00	136.98	732828.9788	1952263.8070
Y11	18+09.39	81.98	732944.7774	1952273.7159
Y11	20+20.00	97.00	733112.9381	1952401.4084
Y11	20+20.00	88.06	733117.8258	1952393.9199
Y11	21+44.00	102.00	733204.3474	1952472.4792
Y11	21+44.00	119.00	733193.9054	1952485.8943
Y11</				

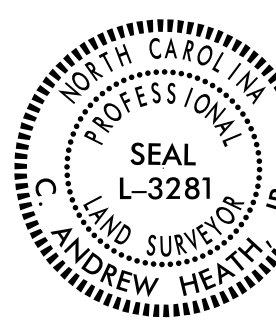


Location and Surveys

NV5

NVS ENGINEERS & CONSULTANTS, INC.  
3300 REGENCY PARKWAY, SUITE 100  
CARY, NC 27518  
P: 919.851.1912 www.NV5.com  
NC License # 3239 Formerly C&H Engineers & Consultants

PROJECT SURVEYOR

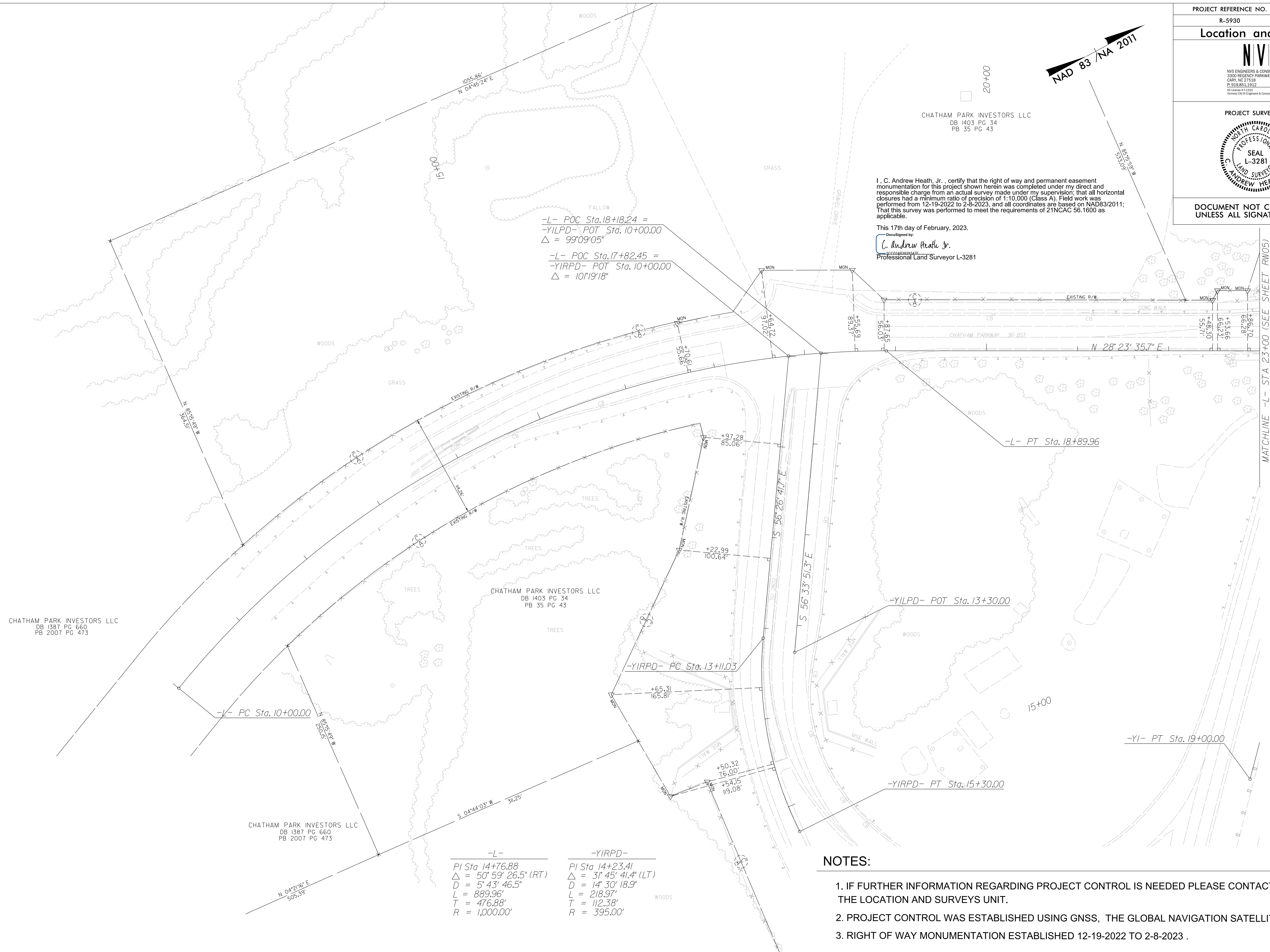
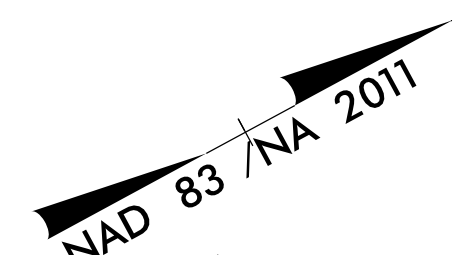


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. Andrew Heath, Jr., 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 12-19-2022 to 2-8-2023, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 17th day of February, 2023.

Designed by  
**C. Andrew Heath, Jr.**  
Professional Land Surveyor L-3281



-L- POC Sta. 18+18.24 =  
-YILPD- POT Sta. 10+00.00  
Δ = 99°09'05"  
  
-L- POC Sta. 17+82.45 =  
-YIRPD- POT Sta. 10+00.00  
Δ = 10°19'18"

-L-  
PI Sta 14+76.88  
Δ = 50° 59' 26.5" (RT)  
D = 5' 43' 46.5"  
L = 889.96'  
T = 476.88'  
R = 1,000.00'  
  
-YIRPD-  
PI Sta 14+23.41  
Δ = 31° 45' 41.4" (LT)  
D = 14' 30' 18.9"  
L = 218.97'  
T = 112.38'  
R = 395.00'

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 12-19-2022 TO 2-8-2023 .

REVISIONS

17-FEB-2023 14:10  
C:\F\603\6032022\2022014\_95\SUR\RDW Sheets\5930\_1s.rw04.dgn  
AT NCCAR-CRANSTON  
andy.heath

CHATHAM PARK INVESTORS LLC  
DB 1387 PG 660  
PB 2007 PG 473


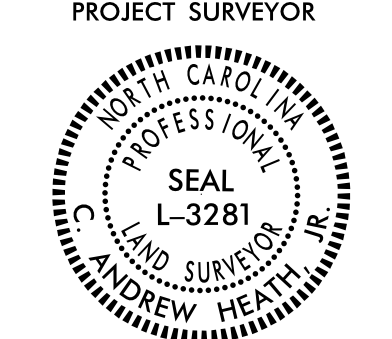
CHATHAM PARK INVESTORS LLC  
DB 1387 PG 660  
PB 2007 PG 473

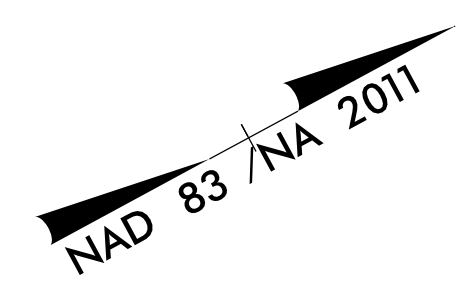
CHATHAM PARK INVESTORS LLC  
DB 1403 PG 34  
PB 35 PG 43

CHATHAM PARK INVESTORS LLC  
DB 1403 PG 34  
PB 35 PG 43

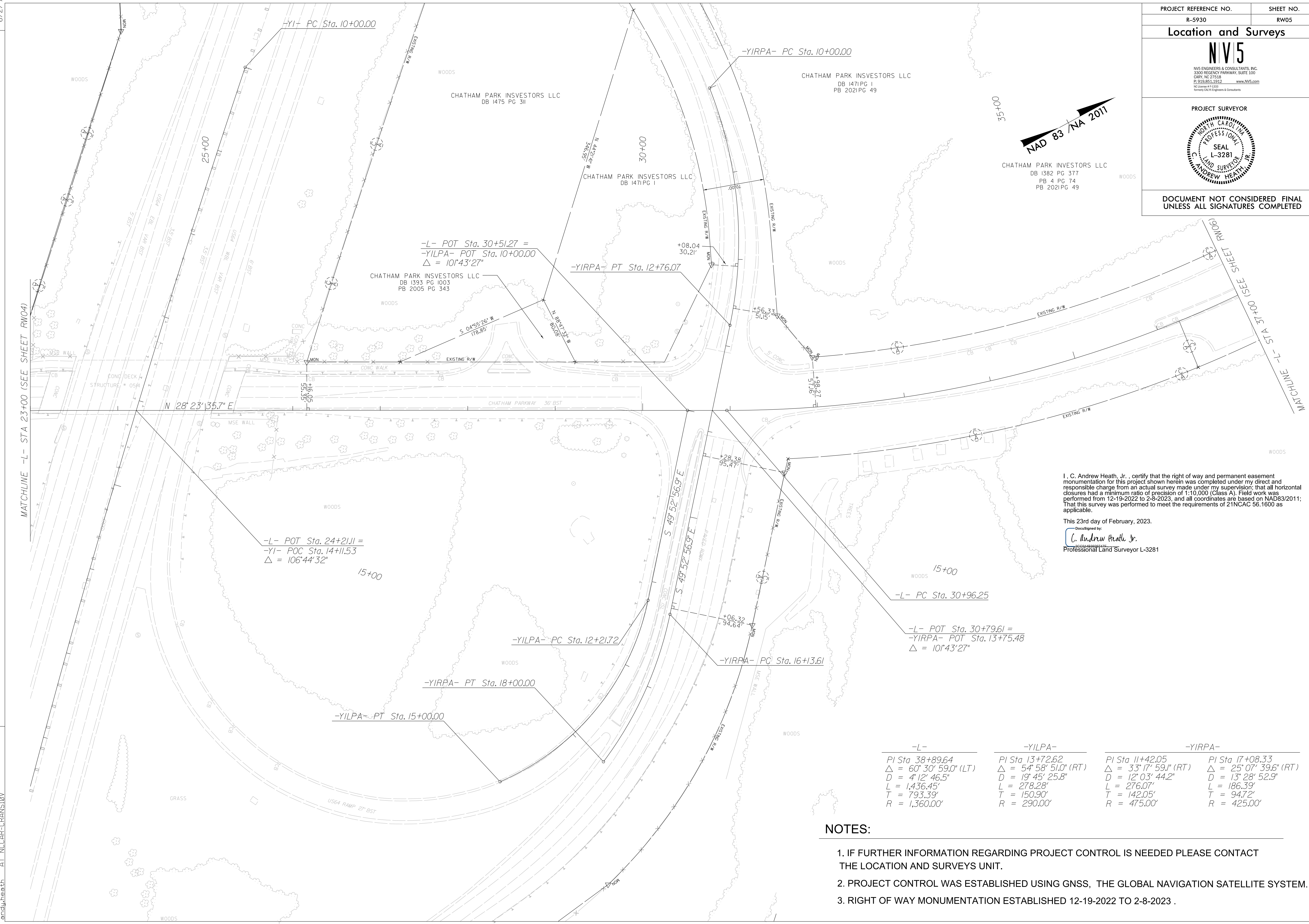
MATCHLINE -L- STA 23+00 (SEE SHEET RW05)



PROJECT REFERENCE NO. R-5930	SHEET NO. RW05
<b>Location and Surveys</b>	
 <small>NV5 ENGINEERS &amp; CONSULTANTS, INC. 3300 RESEDA PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.nv5.com NC License # 12339 Formerly CAH Engineers &amp; Consultants</small>	
<b>PROJECT SURVEYOR</b>  <small>CHATHAM PARK INVESTORS LLC DB 1382 PG 377 PB 4 PG 74 PB 2021 PG 49</small>	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



REVISIONS



I, C. Andrew Heath, Jr., 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 12-19-2022 to 2-8-2023, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23rd day of February, 2023.  
 Designed by:  
  
 C. Andrew Heath, Jr.  
 Professional Land Surveyor L-3281

-L-	-YILPA-	-YIRPA-
PI Sta. 38+89.64	PI Sta. 13+72.62	PI Sta. 11+42.05
Δ = 60° 30' 59.0" (LT)	Δ = 54° 58' 51.0" (RT)	Δ = 33° 17' 59.1" (RT)
D = 4' 12" 46.5"	D = 19' 45" 25.8"	D = 12' 03" 44.2"
L = 1,436.45'	L = 278.28'	L = 276.07'
T = 793.39'	T = 150.90'	T = 142.05'
R = 1,360.00'	R = 290.00'	R = 475.00'


**NOTES:**

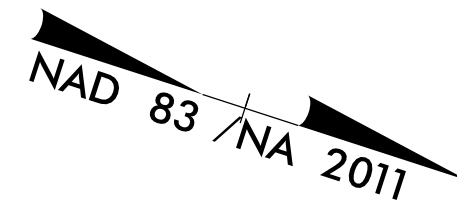
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 12-19-2022 TO 2-8-2023 .







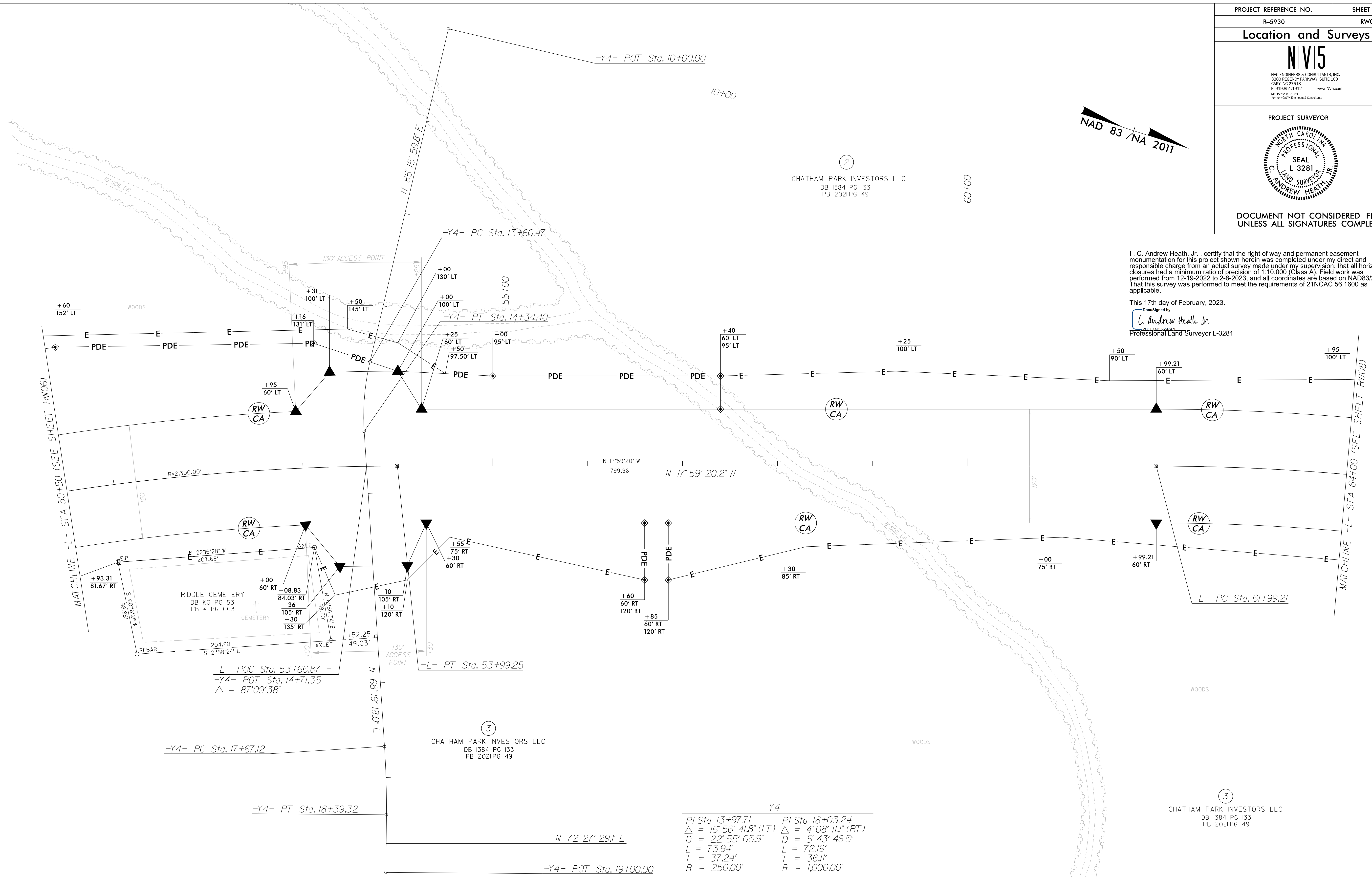
PROJECT REFERENCE NO.	SHEET NO.
R-5930	RW07
<b>Location and Surveys</b>	
<b>NV5</b>	
<small>NVS ENGINEERS &amp; CONSULTANTS, INC.          3300 REGENCY PARKWAY, SUITE 100          CARY, NC 27518          P: 919.851.1912 www.NV5.com          NC License # 1328          Formerly CA/VA Engineers &amp; Consultants</small>	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I, C. Andrew Heath, Jr., 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 12-19-2022 to 2-8-2023, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 17th day of February, 2023.  
 Decided by:  
*C. Andrew Heath, Jr.*  
 Professional Land Surveyor L-3281

REVISIONS



-Y4-	
PI Sta 13+97.71	PI Sta 18+03.24
Δ = 16° 56' 41.8" (LT)	Δ = 4° 08' 11.1" (RT)
D = 22° 55' 05.9"	D = 5° 43' 46.5"
L = 73.94'	L = 72.19'
T = 37.24'	T = 36.11'
R = 250.00'	R = 1,000.00'

-L-	
PI Sta 51+17.00	PI Sta 70+27.00
Δ = 14° 08' 03.1" (RT)	Δ = 39° 35' 18.7" (RT)
D = 2° 29' 28.0"	D = 2° 29' 28.0"
L = 567.38'	L = 1,589.19'
T = 285.14'	T = 827.79'
R = 2,300.00'	R = 2,300.00'
SE = 0.03	SE = 0.03
RO = 144	RO = 144

**NOTES:**

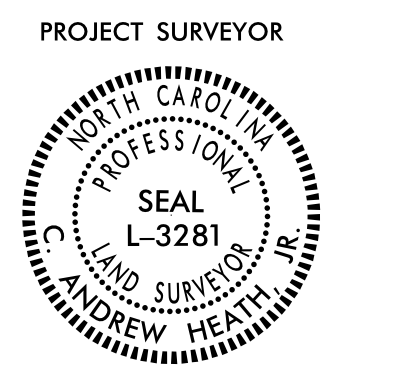
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 12-19-2022 TO 2-8-2023 .

17-FEB-2023 10:14  
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 AT NCCAR-CRANSTON  
 andy.heath

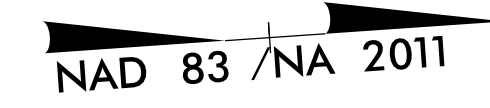


6/2/2019

### Location and Surveys



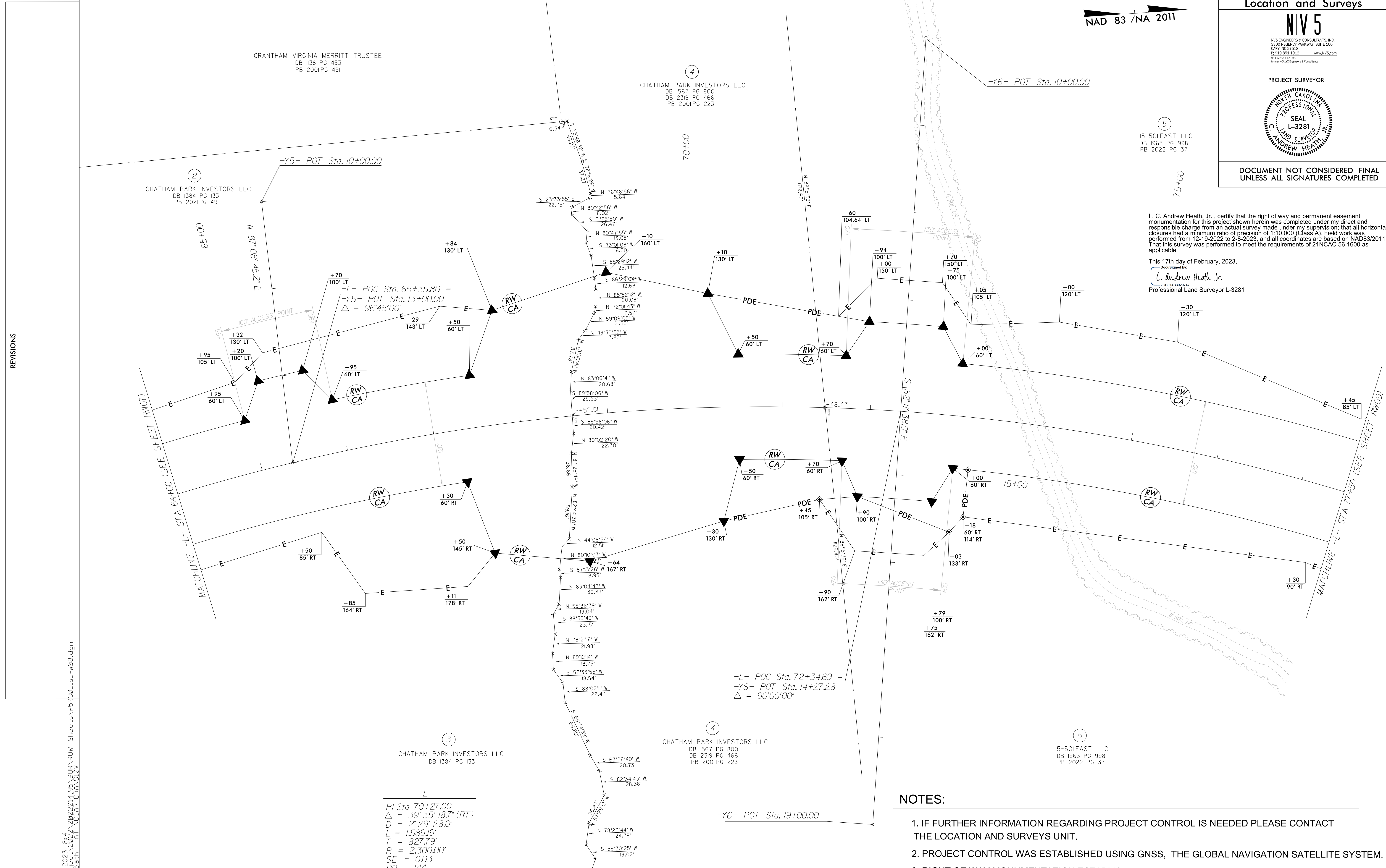
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



⑤  
15-501 EAST LLC  
DB 1963 PG 99B  
PB 2022 PG 37

I, C. Andrew Heath, Jr., 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 12-19-2022 to 2-8-2023, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 17th day of February, 2023.  
DocuSigned by:  
*C. Andrew Heath, Jr.*  
20001483929741F  
Professional Land Surveyor L-3281



REVISIONS

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 AT NCCAR-CRANSTON  
 andy.heath

②  
CHATHAM PARK INVESTORS LLC  
DB 1384 PG 133  
PB 2021 PG 49

④  
CHATHAM PARK INVESTORS LLC  
DB 1567 PG 800  
DB 2319 PG 466  
PB 2001 PG 223

③  
CHATHAM PARK INVESTORS LLC  
DB 1384 PG 133

④  
CHATHAM PARK INVESTORS LLC  
DB 1567 PG 800  
DB 2319 PG 466  
PB 2001 PG 223

⑤  
15-501 EAST LLC  
DB 1963 PG 99B  
PB 2022 PG 37

-L-  
PI Sta 70+27.00  
Δ = 39° 35' 18.7" (RT)  
D = 2' 29' 28.0"  
L = 1,589.19'  
T = 827.79'  
R = 2,300.00'  
SE = 0.03  
RO = 144

-L- POC Sta. 72+34.69 =  
-Y6- POT Sta. 14+27.28  
Δ = 90°00'00"

### 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 12-19-2022 TO 2-8-2023 .



Location and Surveys

NV5

NVS ENGINEERS & CONSULTANTS, INC.  
3300 REGENCY PARKWAY, SUITE 100  
CARY, NC 27518  
P: 919.851.1912 www.NV5.com  
NC License # 4389  
Formerly C.A.V. Engineers & Consultants

PROJECT SURVEYOR

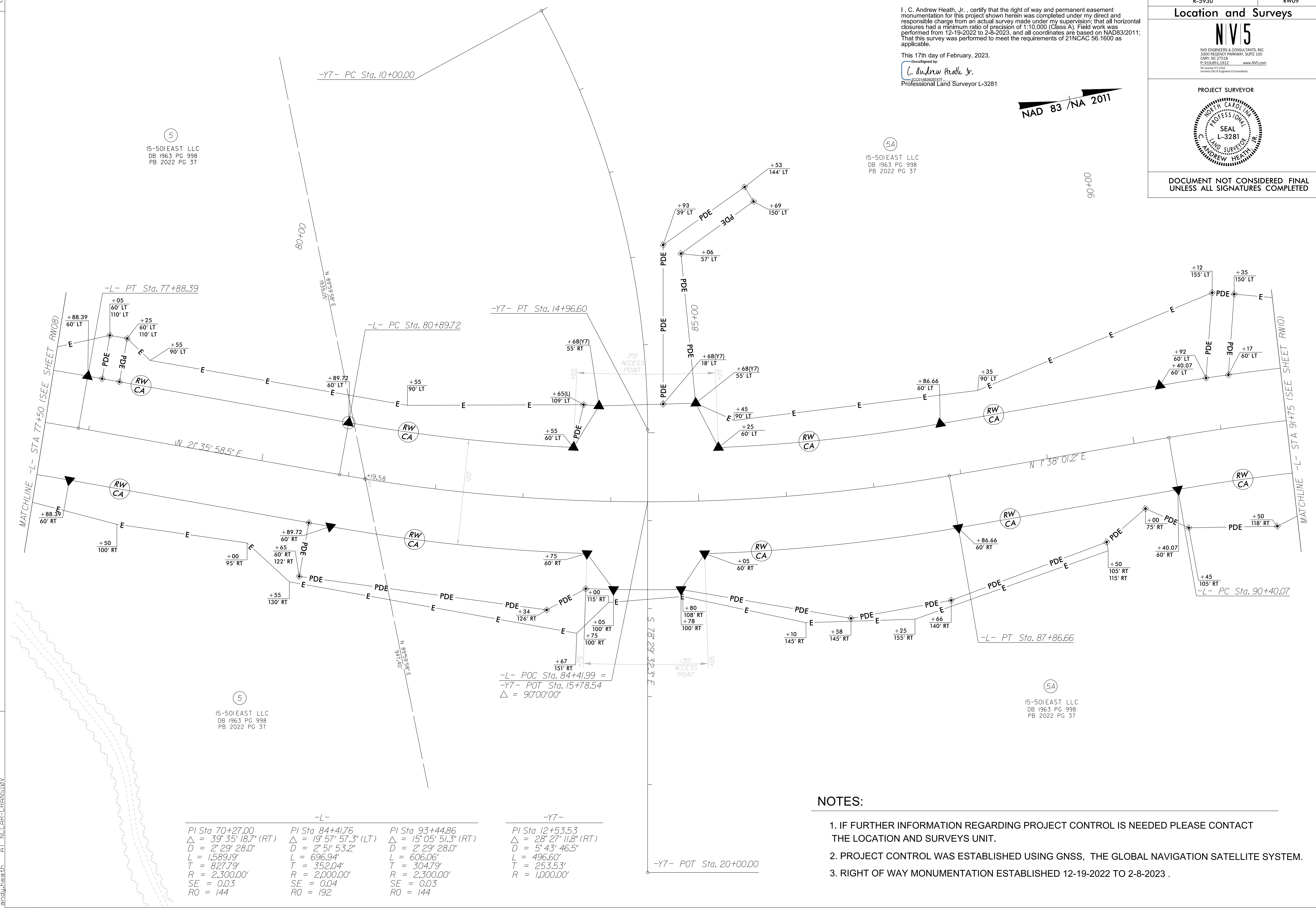
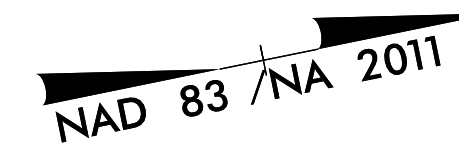


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. Andrew Heath, Jr., 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 12-19-2022 to 2-8-2023, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 17th day of February, 2023.

C. Andrew Heath Jr.  
Professional Land Surveyor L-3281



5  
15-501 EAST LLC  
DB 1963 PG 998  
PB 2022 PG 37

5A  
15-501 EAST LLC  
DB 1963 PG 998  
PB 2022 PG 37

5A  
15-501 EAST LLC  
DB 1963 PG 998  
PB 2022 PG 37

-L-			-Y7-		
PI Sta 70+27.00	PI Sta 84+41.76	PI Sta 93+44.86	PI Sta 12+53.53		
$\Delta = 39^{\circ} 35' 18.7''$ (RT)	$\Delta = 19^{\circ} 57' 57.3''$ (LT)	$\Delta = 15^{\circ} 05' 51.3''$ (RT)	$\Delta = 28^{\circ} 27' 11.8''$ (RT)		
D = 2' 29' 28.0"	D = 2' 51' 53.2"	D = 2' 29' 28.0"	D = 5' 43' 46.5"		
L = 1,589.19'	L = 696.94'	L = 606.06'	L = 496.60'		
T = 827.79'	T = 352.04'	T = 304.79'	T = 253.53'		
R = 2,300.00'	R = 2,000.00'	R = 2,300.00'	R = 1,000.00'		
SE = 0.03	SE = 0.04	SE = 0.03			
RO = 144	RO = 192	RO = 144			

-L- POC Sta. 84+41.99 =  
-Y7- POT Sta. 15+78.54  
 $\Delta = 90^{\circ} 00' 00''$

-Y7- POT Sta. 20+00.00

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 12-19-2022 TO 2-8-2023 .

REVISIONS

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andheath



Location and Surveys

NV5

NVS ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.NV5.com

PROJECT SURVEYOR

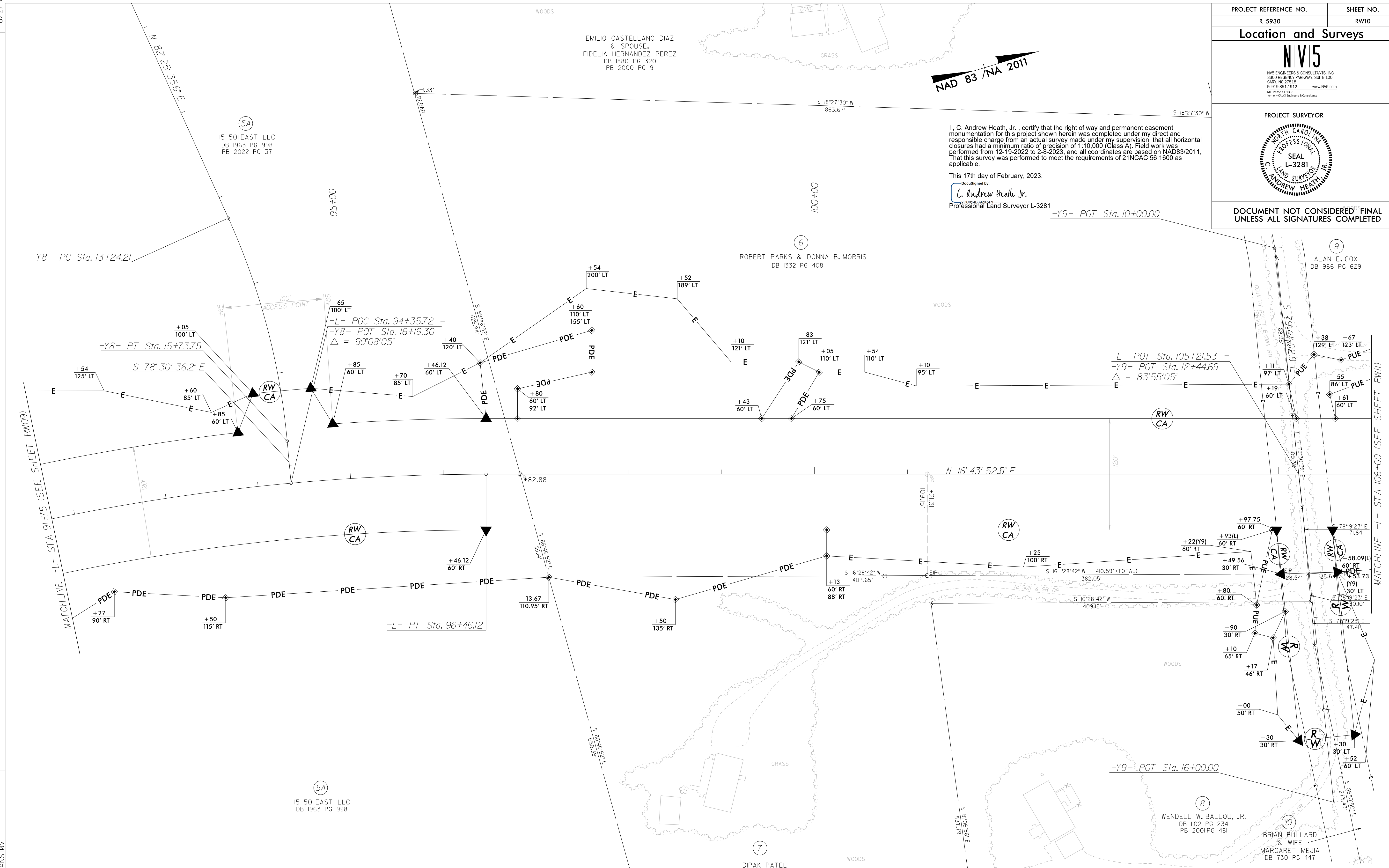


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83 /NA 2011

I, C. Andrew Heath, Jr., 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 12-19-2022 to 2-8-2023, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 17th day of February, 2023. C. Andrew Heath, Jr. Professional Land Surveyor L-3281



-L-	-Y8-
PI Sta 93+44.86	PI Sta 14+50.14
$\Delta = 15^{\circ} 05' 51.3" (RT)$	$\Delta = 19^{\circ} 03' 48.2" (RT)$
$D = 2^{\circ} 29' 28.0"$	$D = 7^{\circ} 38' 22.0"$
$L = 606.06'$	$L = 249.54'$
$T = 304.79'$	$T = 125.93'$
$R = 2,300.00'$	$R = 750.00'$
$SE = 0.03$	
$RO = 144$	

- 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 12-19-2022 TO 2-8-2023 .

REVISIONS

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NCCAR-CRANSTON

MATCHLINE -L- STA 91+75 (SEE SHEET RW09)

MATCHLINE -L- STA 106+00 (SEE SHEET RW11)

-Y8- PC Sta. 13+24.21

-Y8- PT Sta. 15+73.75

-L- POC Sta. 94+35.72 =  
-Y8- POT Sta. 16+19.30  
 $\Delta = 90^{\circ} 08' 05"$

-L- POT Sta. 105+21.53 =  
-Y9- POT Sta. 12+44.69  
 $\Delta = 83^{\circ} 55' 05"$

-L- PT Sta. 96+46.12

-Y9- L.POT Sta. 16+00.00

5A  
15-501EAST LLC  
DB 1963 PG 998  
PB 2022 PG 37

5A  
15-501EAST LLC  
DB 1963 PG 998

EMILIO CASTELLANO DIAZ & SPOUSE,  
FIDELIA HERNANDEZ PEREZ  
DB 1880 PG 320  
PB 2000 PG 9

6  
ROBERT PARKS & DONNA B. MORRIS  
DB 1332 PG 408

7  
DIPAK PATEL AND WIFE,  
BIJAL PATEL  
DB 2258 PG 1080  
PB 2001 PG 481

9  
ALAN E. COX  
DB 966 PG 629

8  
WENDELL W. BALLOU, JR.  
DB 1102 PG 234  
PB 2001 PG 481

10  
BRIAN BULLARD & WIFE,  
MARGARET MEJIA  
DB 730 PG 447







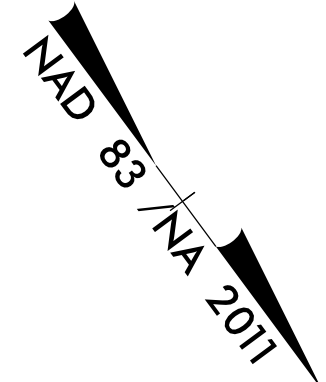




15  
LEE M. PAVAO &  
MARK H. PAVAO & WIFE,  
JENNIFER H. PAVAO  
DB 723 PG 944  
PB 97 PG 241  
PB 30 PG 8

16  
RODNEY MORRIS, TRUSTEE  
DB 644 PG 605  
PB 94 PG 230

16  
RODNEY MORRIS, TRUSTEE  
DB 644 PG 605  
PB 94 PG 230

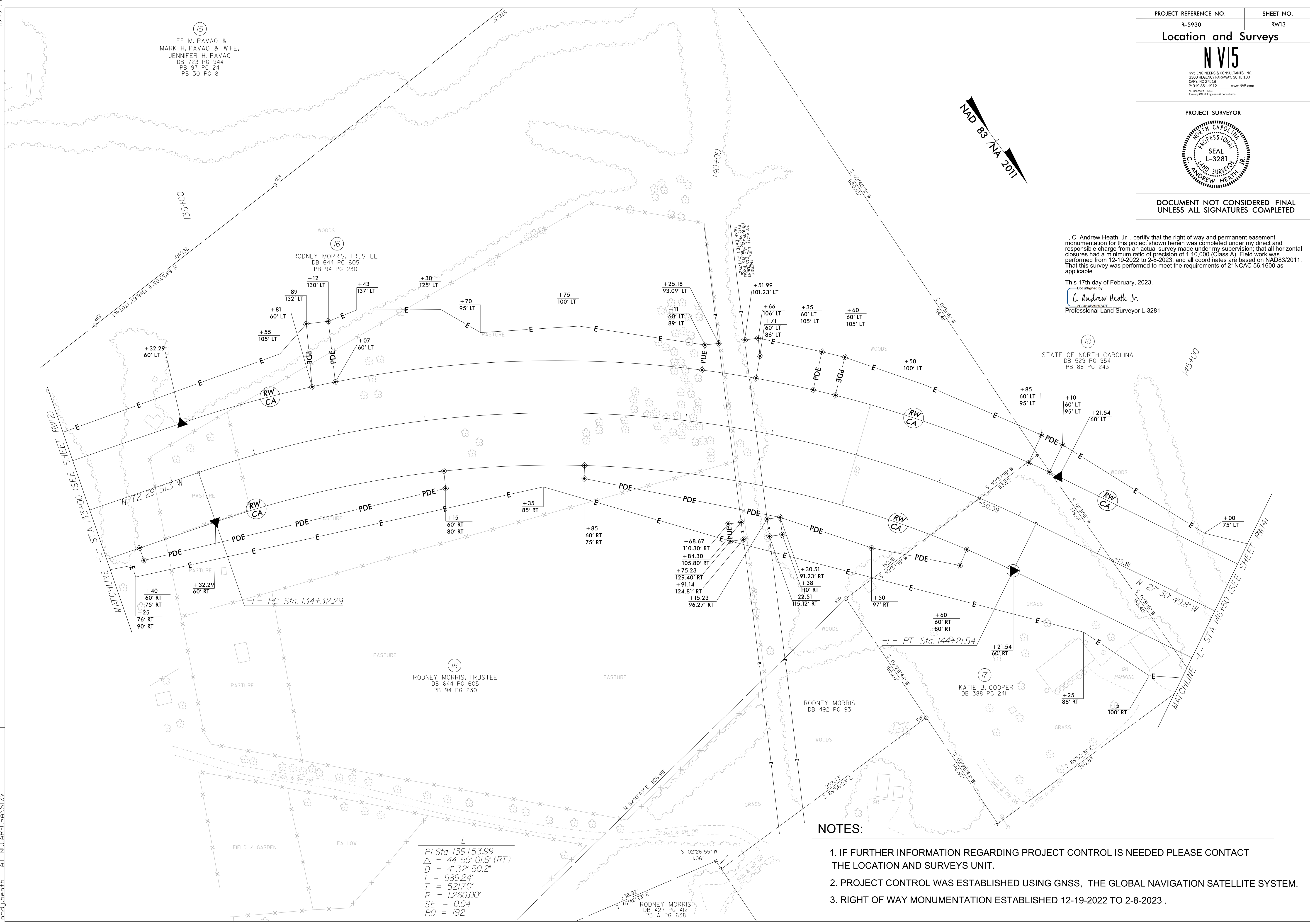


PROJECT REFERENCE NO. R-5930	SHEET NO. RW13
<b>Location and Surveys</b>	
 <b>NIV5</b> NIV5 ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.NIV5.com NC License # 1281 Formerly CAUV Engineers & Consultants	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, C. Andrew Heath, Jr., 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 12-19-2022 to 2-8-2023, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 17th day of February, 2023.  
Designed by:  
*C. Andrew Heath, Jr.*  
Professional Land Surveyor L-3281

REVISIONS



**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 12-19-2022 TO 2-8-2023 .

-L-  
 PI Sta 139+53.99  
 $\Delta = 44^{\circ} 59' 01.6''$  (RT)  
 $D = 4' 32'' 50.2''$   
 $L = 989.24'$   
 $T = 521.70'$   
 $R = 1,260.00'$   
 $SE = 0.04$   
 $RO = 192$

238.92°  
 S 76°46'23" E  
 RODNEY MORRIS  
 DB 427 PG 412  
 PB A PG 638

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 at NCCAR-CRANSTON  
 andy.heath

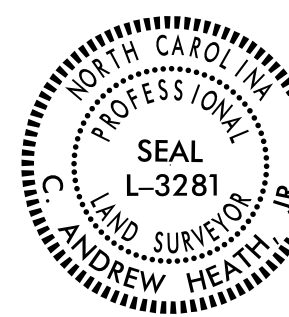


Location and Surveys

# NVI5

NVI5 ENGINEERS & CONSULTANTS, INC.  
 3300 REGENCY PARKWAY, SUITE 100  
 CARY, NC 27518  
 P: 919.851.1912 www.nvi5.com  
 NC License # 12013 formerly CIVIL Engineers & Consultants

PROJECT SURVEYOR



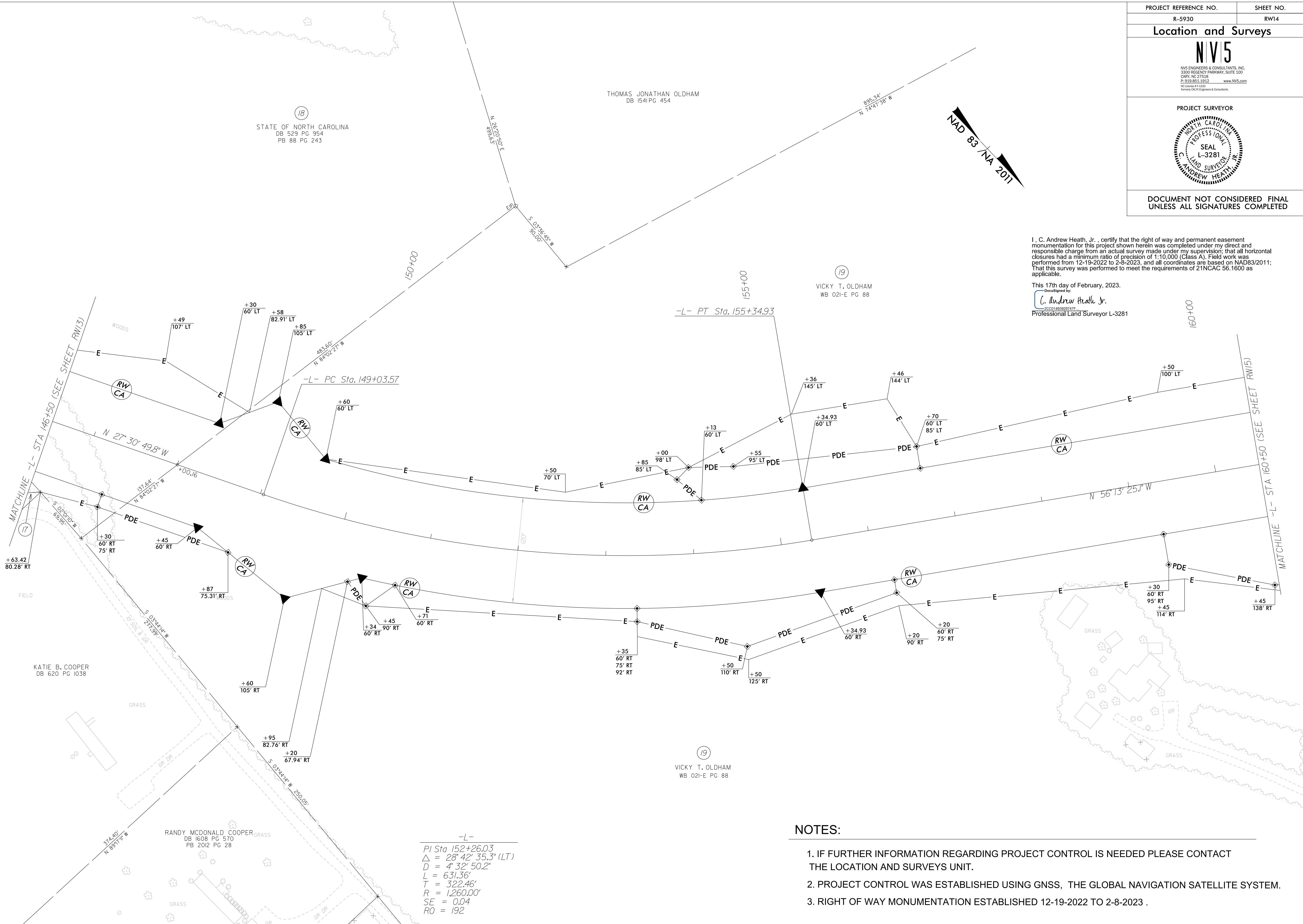
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. Andrew Heath, Jr., 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 12-19-2022 to 2-8-2023, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 17th day of February, 2023.

DocuSigned by:  
 C. Andrew Heath, Jr.  
 20001483929747...  
 Professional Land Surveyor L-3281

REVISIONS



-L-  
 PI Sta 152+26.03  
 $\Delta = 28^{\circ} 42' 35.3''$  (LT)  
 $D = 4' 32'' 50.2''$   
 $L = 631.36'$   
 $T = 322.46'$   
 $R = 1,260.00'$   
 $SE = 0.04$   
 $RO = 192$

### 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 12-19-2022 TO 2-8-2023 .







