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09/08/99

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-4705	RW01	57

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

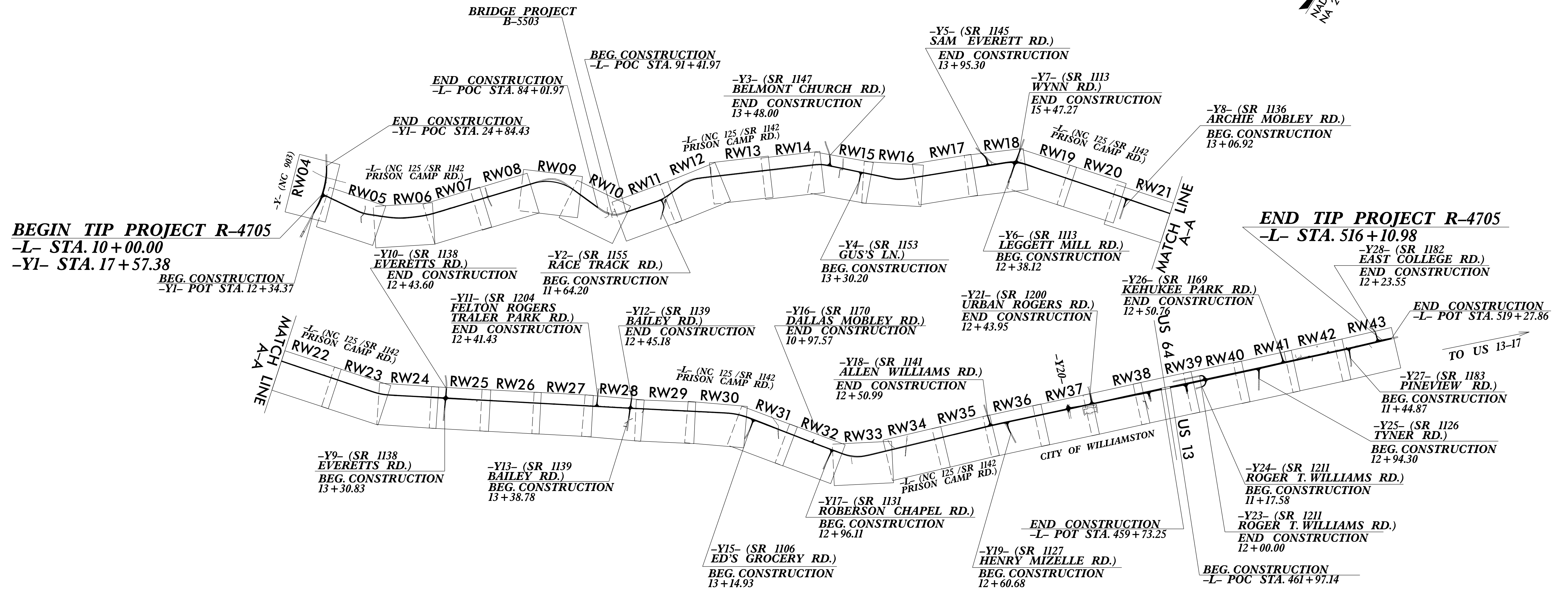
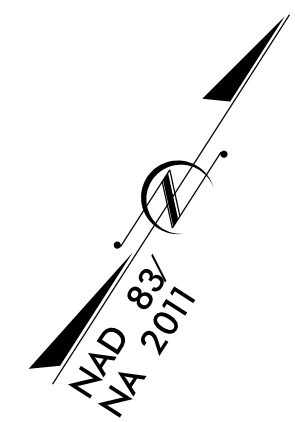
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SURVEY CONTROL, EXISTING CENTERLINES,  
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

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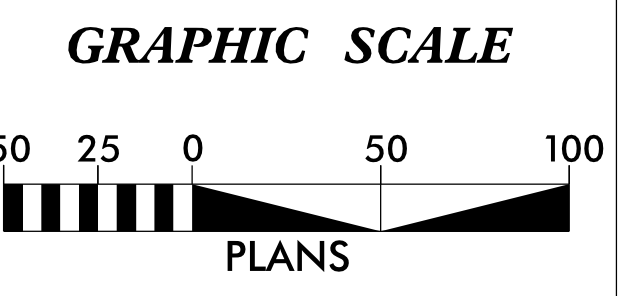
# MARTIN COUNTY

**TIP PROJECT: R-4705**



**BEGIN TIP PROJECT R-4705**  
-L- STA. 10+00.00  
-YI- STA. 17+57.38  
BEG. CONSTRUCTION  
-YI- POT STA. 12+34.37

**END TIP PROJECT R-4705**  
-L- STA. 516+10.98  
-Y28- (SR 1182 EAST COLLEGE RD.)  
END CONSTRUCTION  
12+23.55  
END CONSTRUCTION  
-L- POT STA. 519+27.86



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CASKEY" WITH NAD 83/2011 STATE PLANE GRID COORDINATES OF NORTHING: 770,400.000(ft) EASTING: 2,569,000.000(ft) ELEVATION: 70.00(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99992957

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R4705-3" TO -L- STATION 10+00.00 IS S 57°52'01.80" W 8635.11(ft)

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

Prepared in the Office of:

**V&M**  
Vaughn & Melton Consulting Engineers

- New Bern, North Carolina 28562 Phone: (252) 631-5115
- Middlesboro, Kentucky 40965 Phone: (606) 248-6600
- Asheville, North Carolina 28806 Phone: (828) 253-2796
- Charlotte, North Carolina 28217 Phone: (704) 357-0488

2018 STANDARD SPECIFICATIONS

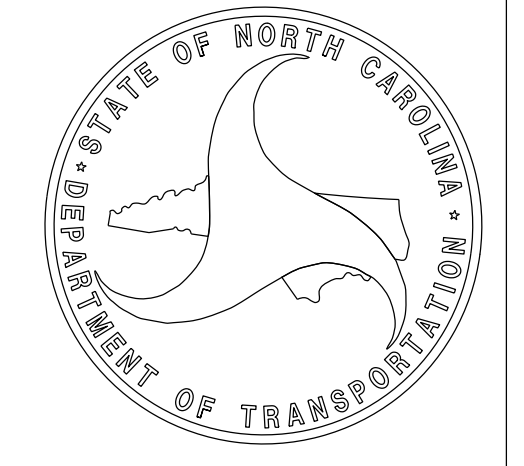
**RIGHT OF WAY DATE:** 12/05/2018  
**LETTING DATE:** 06/21/2022

**PROFESSIONAL LAND SURVEYOR**

Seal of Garry L. Moore, Professional Land Surveyor, License No. L-2717, State of North Carolina.

DocuSigned by: **GARRY MOORE** 3/11/2022

SIGNATURE: \_\_\_\_\_ Date: \_\_\_\_\_



10-MAR-2022 16:41  
C:\2016\1R4705\1R4705\_15\_CW01.dgn  
+Hemmons AT RVA15107L

# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

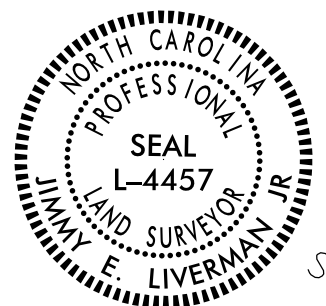
I, Jimmy E. Liverman, Jr., PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA  
Type of GPS field procedure: RTN  
Dates of survey: 01/2017 - 06/2017  
Datum/Epoch: NAD83/NA2011  
Published/Fixed-control use: N/A  
Localized around: CASKEY  
Northing: 770400.0000  
Easting: 2,569,000.000  
Combined grid factor: 0.99992957  
Geoid model: 09  
Units: US FT

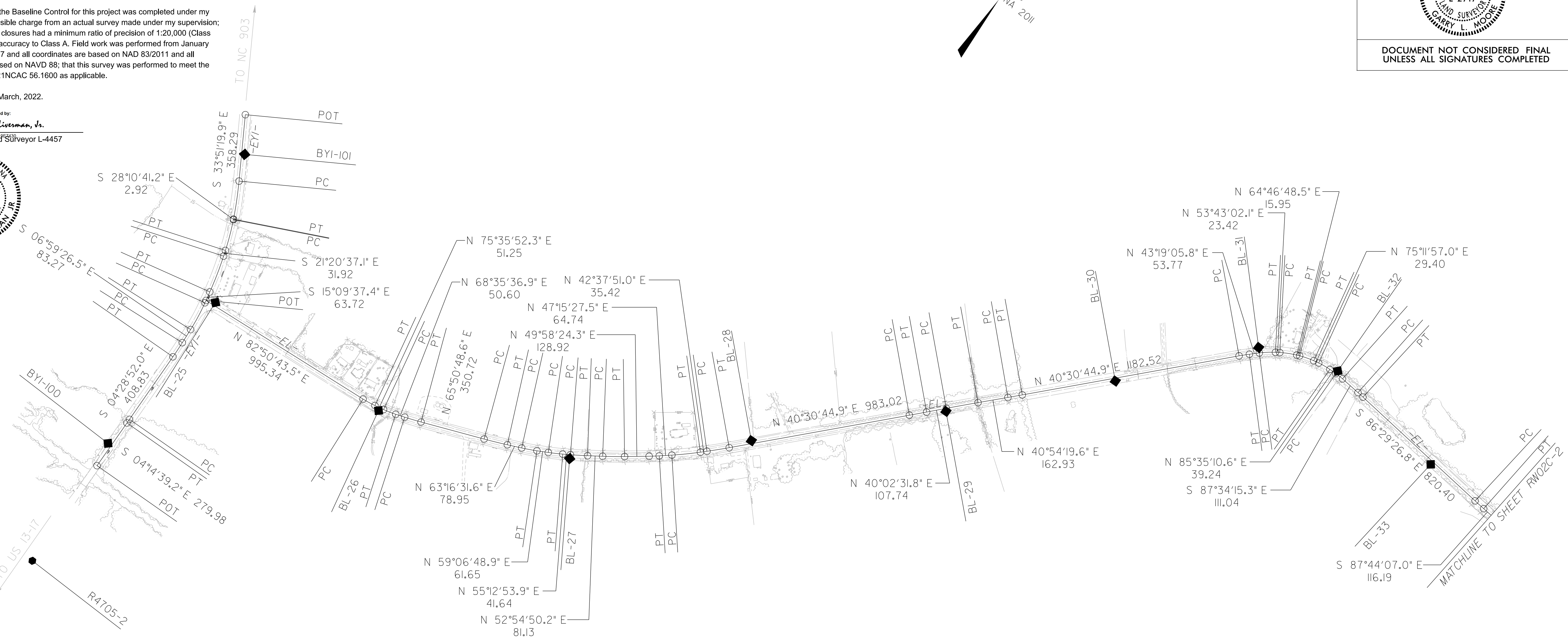
I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from January 2017 to June 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 17th day of March, 2022.

DocuSigned by:  
**Jimmy Liverman, Jr.**  
Professional Land Surveyor L-4457



PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW02C-1
Location and Surveys	
<ul style="list-style-type: none"> <li>New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>Middlesboro, Kentucky 40965 Phone: (606) 248-6600</li> <li>Asheville, North Carolina 28806 Phone: (828) 253-2788</li> <li>Charlotte, North Carolina 28217 Phone: (704) 357-3488</li> </ul>	
Vaughn & Melton Consulting Engineers	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SEE SHEET RW02C-8 FOR FURTHER ALIGNMENT DETAILS

### 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

I7-MAR-2022 13:44  
C:\2022\220011-001-R4705-Prison\_Comp\_Ro\CADD\Surveys\R4705-1s-rw02c-1.dgn  
tlemmons AT RVA19107L

# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

I, Jimmy E. Liverman, 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:


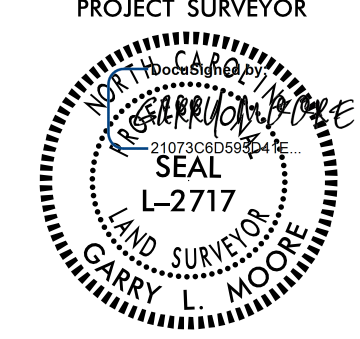
Class of survey: AA  
Type of GPS field procedure: RTN  
Dates of survey: 01/2017 - 06/2017  
Datum/Epoch: NAD83/NA2011  
Published/Fixed-control use: N/A  
Localized around: CASKEY  
Northing: 770400.0000  
Easting: 2,569,000.000  
Combined grid factor: 0.99992957  
Geoid model: 09  
Units: US FT

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 January 2017 to June 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.

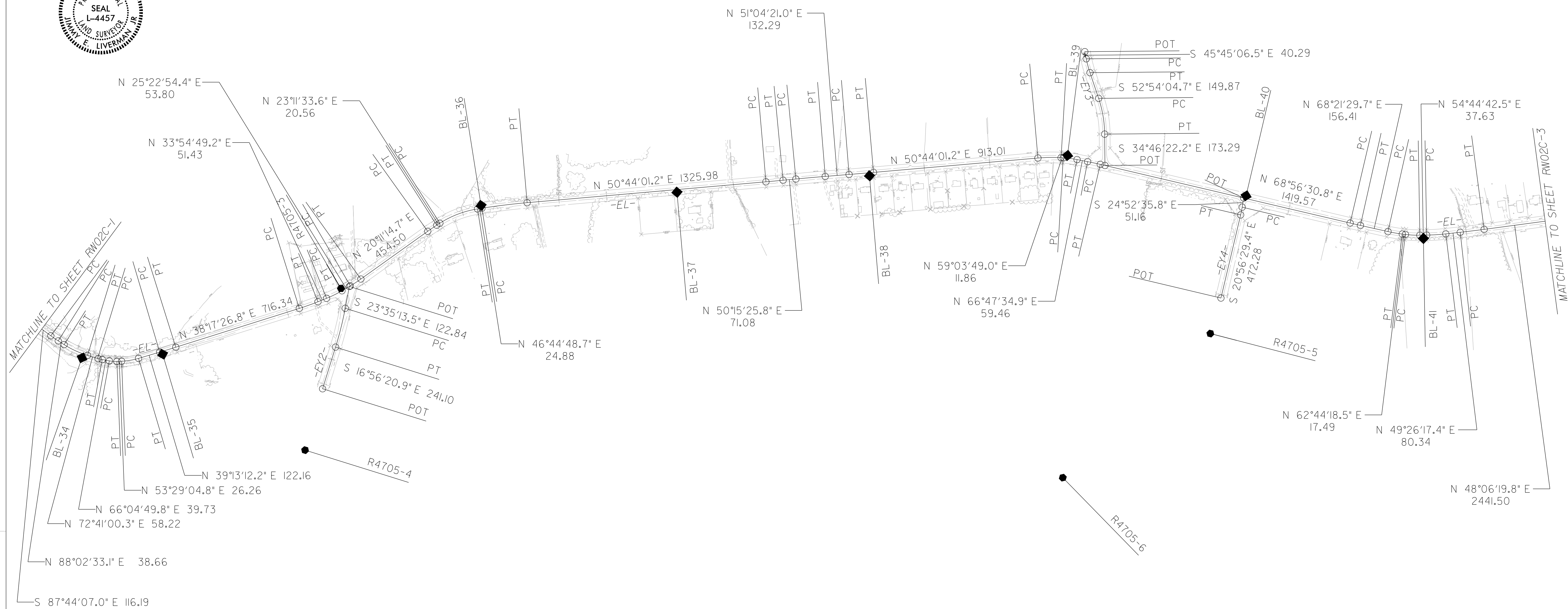
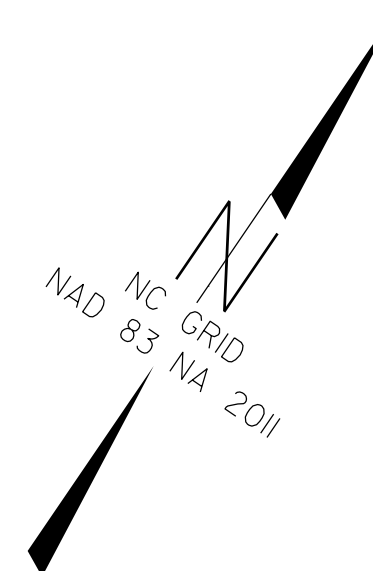
This 17th day of March, 2022.

DocuSigned by:  
**Jimmy Liverman, Jr.**  
Professional Land Surveyor L-4457



PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW02C-2
Location and Surveys	
<ul style="list-style-type: none"> <li>New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>Middlesboro, Kentucky 40965 Phone: (606) 248-6600</li> <li>Asheville, North Carolina 28806 Phone: (828) 253-2795</li> <li>Charlotte, North Carolina 28217 Phone: (704) 357-3488</li> </ul>	
 <b>Vaughn &amp; Melton</b> Consulting Engineers	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SEE SHEET RW02C-8  
FOR FURTHER  
ALIGNMENT DETAILS



### 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

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

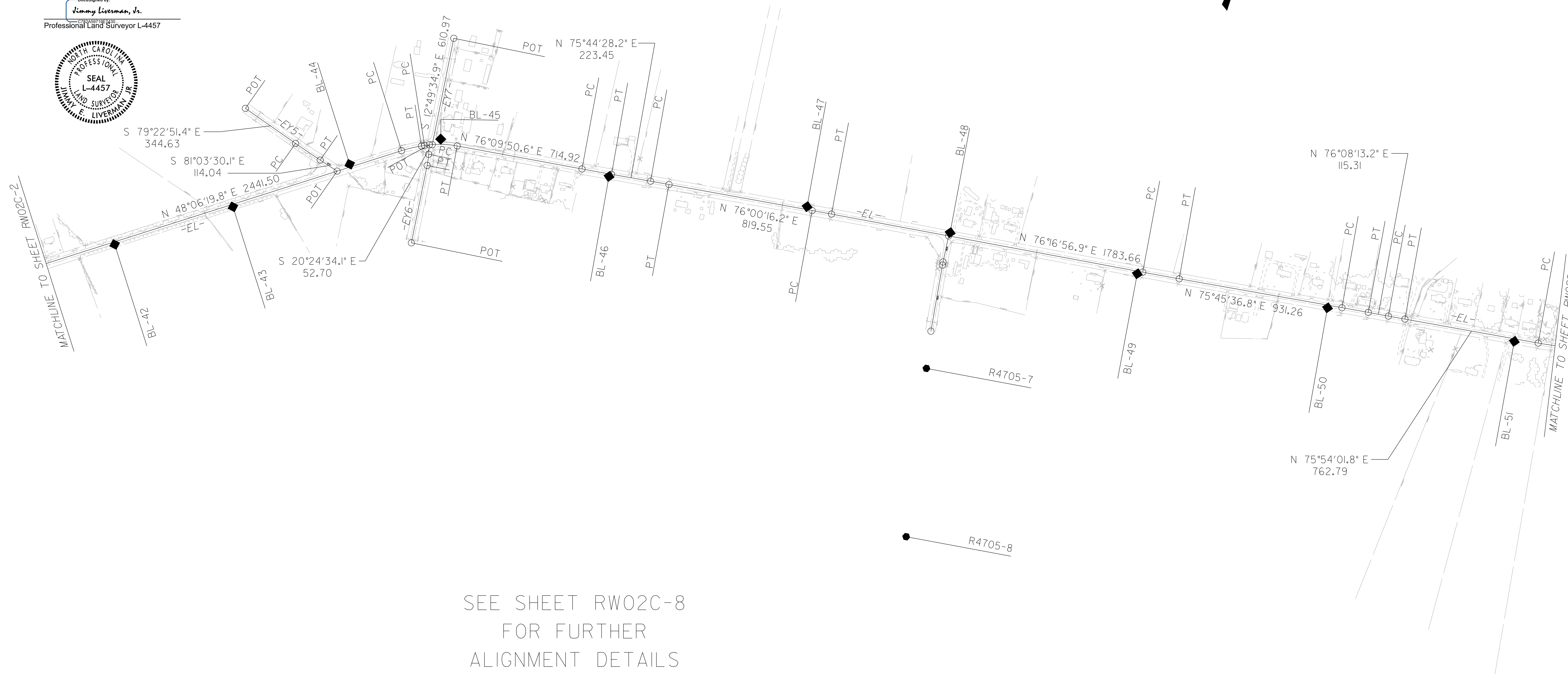
I, Jimmy E. Liverman, Jr., PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

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Type of GPS field procedure: RTN  
Dates of survey: 01/2017 - 06/2017  
Datum/Epoch: NAD83/NA2011  
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Localized around: CASKEY  
Northing: 770400.0000  
Easting: 2,569,000.000  
Combined grid factor: 0.99992957  
Geoid model: 09  
Units: US FT

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This 17th day of March, 2022.

DocuSigned by:  
**Jimmy Liverman, Jr.**  
Professional Land Surveyor L-4457

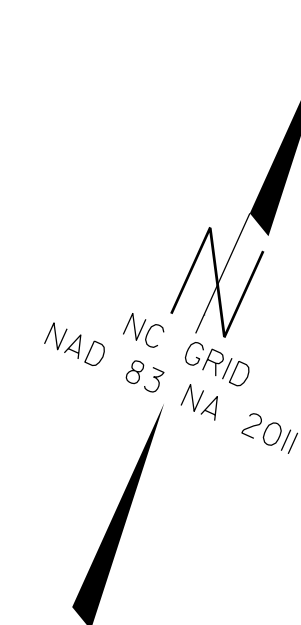


SEE SHEET RW02C-8  
FOR FURTHER  
ALIGNMENT DETAILS

### NOTES:

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PROJECT REFERENCE NO. R-4705	SHEET NO. RW02C-3
<b>Location and Surveys</b>	
<p>■ New Bern, North Carolina 28562 Phone: (252) 631-5115 □ Midway, Kentucky 40365 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 253-3785 □ Charlotte, North Carolina 28217 Phone: (704) 357-3488</p> <p><b>Vaughn &amp; Melton</b> Consulting Engineers</p>	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

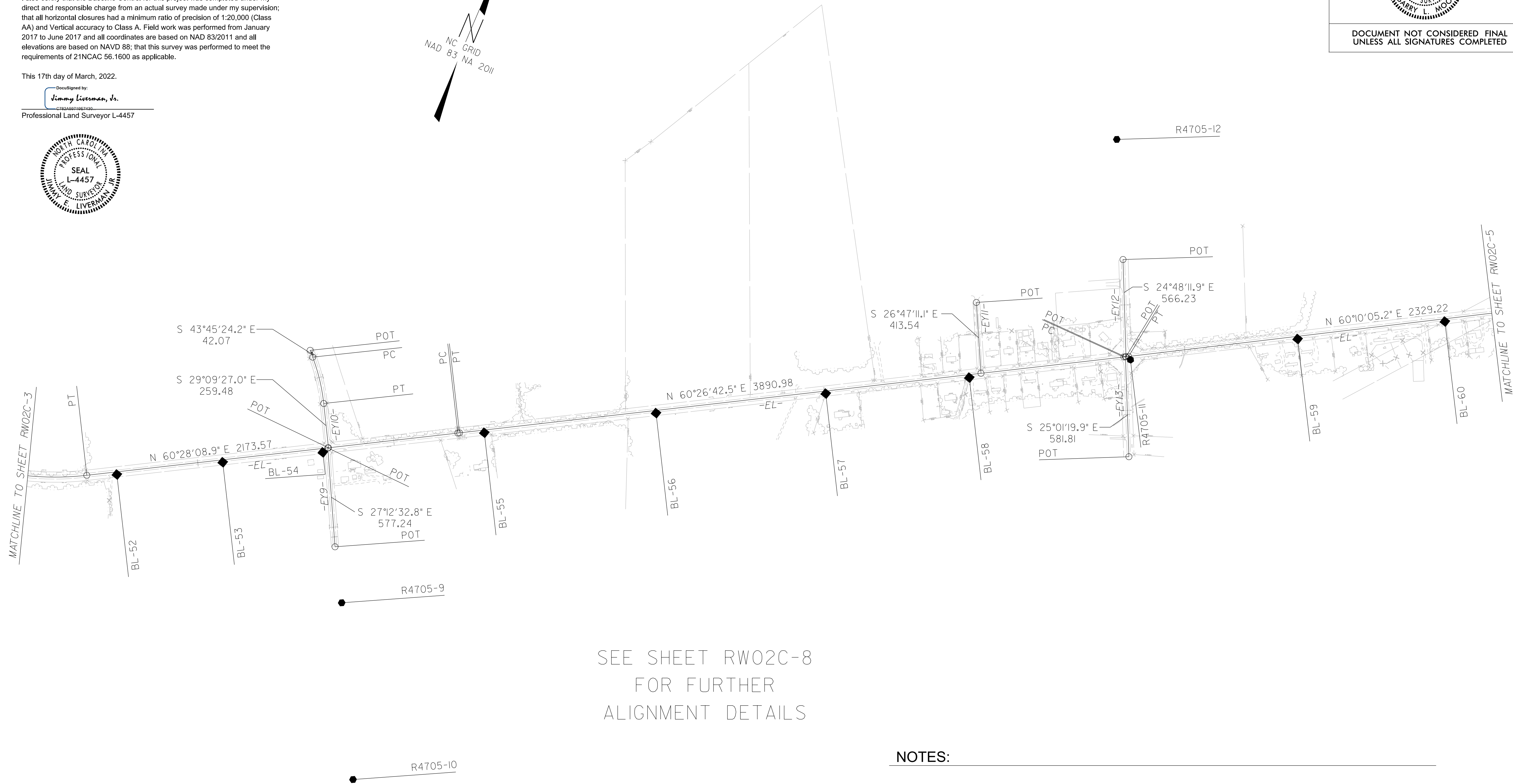
I, Jimmy E. Liverman, Jr., PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

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Type of GPS field procedure: RTN  
Dates of survey: 01/2017 - 06/2017  
Datum/Epoch: NAD83/NA2011  
Published/Fixed-control use: N/A  
Localized around: CASKEY  
Northing: 770400.0000  
Easting: 2,569,000.000  
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This 17th day of March, 2022.

DocuSigned by:  
**Jimmy Liverman, Jr.**  
Professional Land Surveyor L-4457



PROJECT REFERENCE NO. R-4705	SHEET NO. RW02C-4
<b>Location and Surveys</b>	
<p>■ New Bern, North Carolina 28562 Phone: (252) 631-5115 □ Independence, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 253-2795 □ Charlotte, North Carolina 28217 Phone: (704) 357-3488</p> <p>Vaughn &amp; Melton Consulting Engineers</p>	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

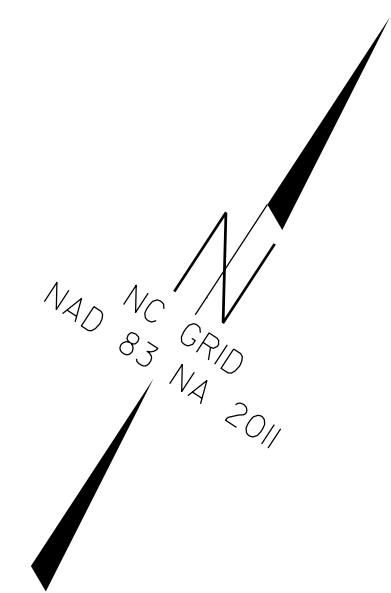
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Dates of survey: 01/2017 - 06/2017  
Datum/Epoch: NAD83/NA2011  
Published/Fixed-control use: N/A  
Localized around: CASKEY  
Northing: 770400.0000  
Easting: 2,569,000.000  
Combined grid factor: 0.99992957  
Geoid model: 09  
Units: US FT

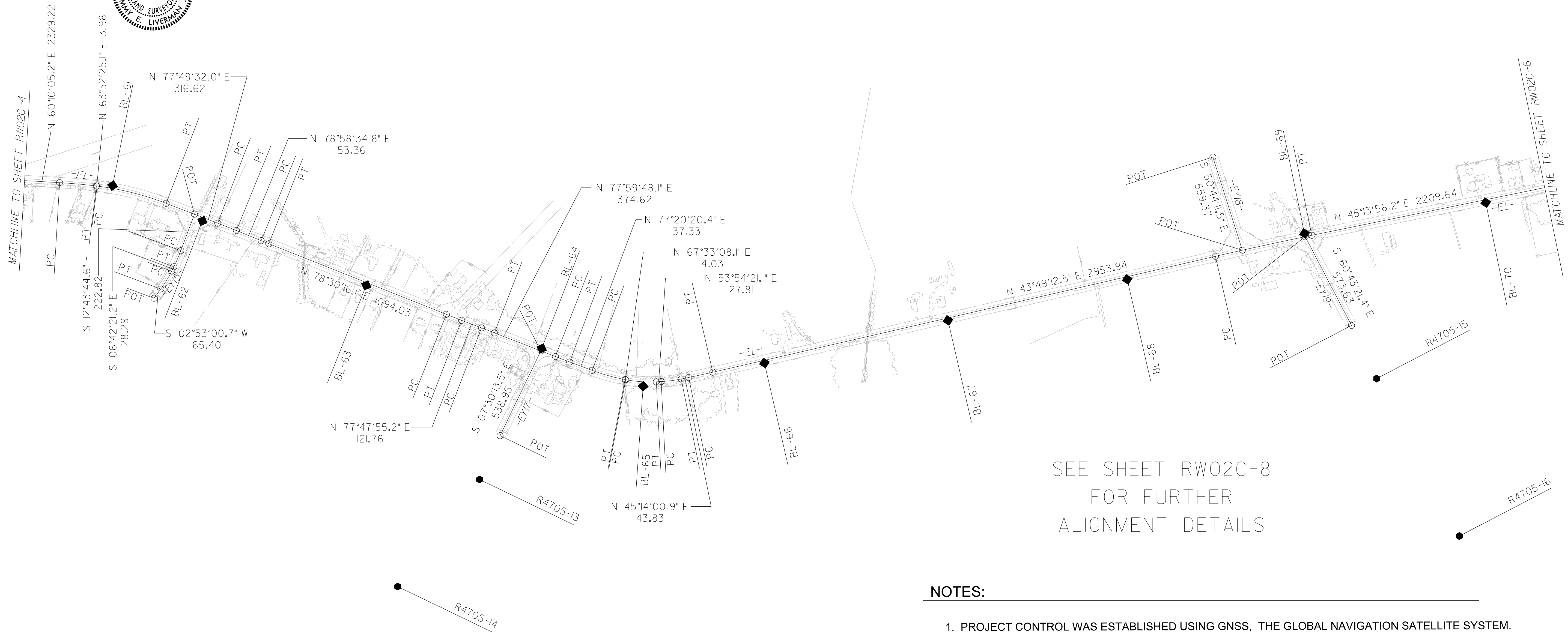
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This 17th day of March, 2022.

DocuSigned by:  
**Jimmy Liverman, Jr.**  
Professional Land Surveyor L-4457



PROJECT REFERENCE NO. R-4705	SHEET NO. RW02C-5
<b>Location and Surveys</b>	
<p>■ New Bern, North Carolina 28562 Phone: (252) 631-5115 □ Midway, Kentucky 40365 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 253-3795 □ Charlotte, North Carolina 28217 Phone: (704) 357-3488</p>	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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# SURVEY CONTROL SHEET

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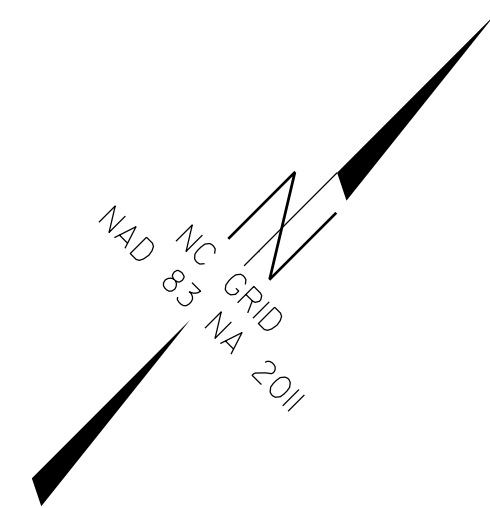
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Type of GPS field procedure: RTN  
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Datum/Epoch: NAD83/NA2011  
Published/Fixed-control use: N/A  
Localized around: CASKEY  
Northing: 770400.0000  
Easting: 2,569,000.0000  
Combined grid factor: 0.99992957  
Geoid model: 09  
Units: US FT

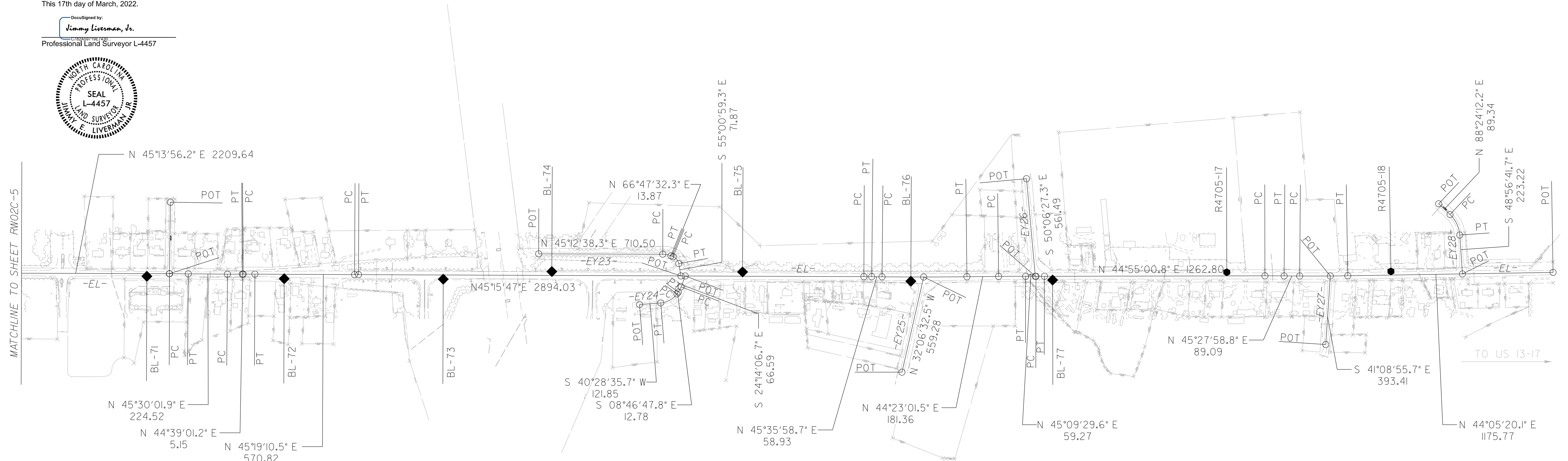
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This 17th day of March, 2022.

DocuSigned by:  
**Jimmy Liverman, Jr.**  
Professional Land Surveyor L-4457



PROJECT REFERENCE NO. R-4705	SHEET NO. RW02C-6
<b>Location and Surveys</b>	
<p>PROJECT SURVEYOR</p>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SEE SHEET RW02C-8  
FOR FURTHER  
ALIGNMENT DETAILS

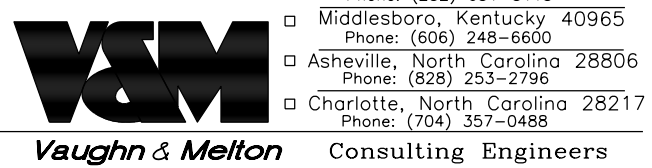
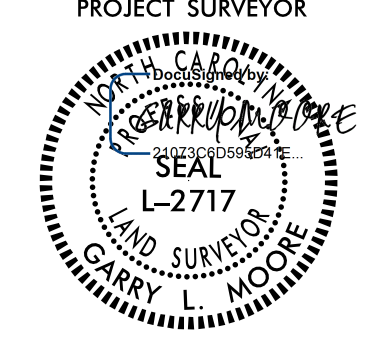
### NOTES:

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# SURVEY CONTROL SHEET

## W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW02C-7
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Midleboro, Kentucky 40965 Phone: (606) 248-6600</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2706</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 357-0488</li> </ul>	
	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
BL25	BL-25		737724.3440	2524590.6030	36.20
BL26	BL-26		737829.7940	2525635.8820	34.91
BL27	BL-27		738279.8850	2526593.2940	35.97
BL28	BL-28		738971.7800	2527287.9420	35.29
BL29	BL-29		739755.3880	2527996.8510	31.02
BL30	BL-30		740456.8810	2528597.5010	31.56
BL31	BL-31		741083.5440	2529079.3170	32.86
BL32	BL-32		741254.2550	2529488.0470	32.86
BL33	BL-33		741182.6730	2530191.7920	32.11
BL34	BL-34		741170.6510	2530889.5470	33.64
BL35	BL-35		741438.3040	2531247.0130	32.54
R47053	GPS MON (R4705-3)		742394.7830	2531899.1320	35.63
BL36	BL-36		743109.6610	2532239.2380	35.84
BL37	BL-37		743780.6130	2533093.5510	37.49
BL38	BL-38		744455.5210	2533922.2640	42.67
BL39	BL-39		745164.8520	2534764.2650	45.40
BL40	BL-40		745536.6880	2535706.0160	45.64
BL41	BL-41		745894.6020	2536649.3280	49.77
BL42	BL-42		746609.1440	2537459.8750	51.54
BL43	BL-43		747076.3760	2537980.2670	51.97
BL44	BL-44		747565.4490	2538481.3280	55.44
BL45	BL-45		747905.2280	2538890.3220	60.05
BL46	BL-46		748104.2020	2539840.8970	59.47
BL47	BL-47		748407.8520	2540928.0410	61.55
BL48	BL-48		748605.8000	2541723.0070	66.30
BL49	BL-49		748828.4390	2542779.4640	66.67
BL50	BL-50		749094.7550	2543835.0820	68.04
BL51	BL-51		749355.2900	2544872.2590	68.83
BL52	BL-52		749637.6190	2545566.1460	69.85
BL53	BL-53		749944.3280	2546105.1380	69.99
BL54	BL-54		750225.3090	2546618.3510	72.95
BL55	BL-55		750698.3120	2547438.6800	74.38
BL56	BL-56		751194.4530	2548313.5720	73.41
BL57	BL-57		751685.5570	2549178.0040	74.04
BL58	BL-58		752097.9750	2549910.3370	76.51
R470511	GPS MON (R4705-11)		752560.3690	2550732.7930	75.70
BL59	BL-59		753052.4820	2551580.6350	75.49
BL60	BL-60		753481.2520	2552329.2920	76.01
BL61	BL-61		753884.7110	2552999.2970	75.32
BL62	BL-62		753996.7210	2553540.3540	72.93
BL63	BL-63		754201.8480	2554527.5950	70.16
BL64	BL-64		754448.9260	2555566.5150	72.93
BL65	BL-65		754586.1980	2556171.0210	70.30
BL66	BL-66		755077.6110	2556679.4240	69.37
BL67	BL-67		755857.4340	2557425.3660	67.15
BL68	BL-68		756615.8550	2558155.9690	72.20
BL69	BL-69		757391.4960	2558861.5400	72.54
BL70	BL-70		758107.9700	2559633.4440	72.89
BL71	BL-71		758859.7300	2560389.4380	73.66
BL72	BL-72		759405.6130	2560955.7070	75.62
BL73	BL-73		760047.3340	2561602.0720	99.58
BL74	BL-74		760517.6140	2562011.3480	102.37
BL75	BL-75		761287.8040	2562785.8370	82.88
BL76	BL-76		761931.4320	2563505.3210	76.78
BL77	BL-77		762510.0600	2564074.7240	74.27
R470517	GPS MON (R4705-17)		763246.5240	2564748.8944	76.06
R470518	GPS MON (R4705-18)		763914.0218	2565410.8232	70.71

BY9	POINT	DESC.	NORTH	EAST	ELEVATION
E0BL54			750225.3090	2546618.3510	UNKNOWN
R47059	GPS MON (R4705-9)		749462.5910	2547062.4390	70.71
R470510	GPS MON (R4705-10)		748541.6880	2547525.6390	58.84
BY12					
R470512	GPS MON (R4705-12)		753709.5860	2550157.6780	79.32
EOR470511			752560.3690	2550732.7930	UNKNOWN
BY17					
E0BL64			754448.9260	2555566.5150	UNKNOWN
R470513	GPS MON (R4705-13)		753626.1100	2555679.5210	73.78
R470514	GPS MON (R4705-14)		752856.1380	2555622.9870	69.40
BY19					
E0BL69			757391.4960	2558861.5400	UNKNOWN
R470515	GPS MON (R4705-15)		756922.2521	2559662.6680	74.45
R470516	GPS MON (R4705-16)		756426.5699	2560552.7114	72.86
BM10	ELEVATION = 37.19				
N 738058	E 2524973				
EL STATION 14+69.00 300 LEFT					
RR SPIKE IN 30" GUM					
BM11	ELEVATION = 37.41				
N 738765	E 2526781				
EL STATION 36+13.00 243 LEFT					
RR SPIKE IN PP					
BM12	ELEVATION = 32.04				
N 740635	E 2528869				
EL STATION 64+25.00 106 RIGHT					
RR SPIKE IN PP					
BM13	ELEVATION = 32.06				
N 741133	E 2530859				
EL STATION 87+00.00 52 RIGHT					
RR SPIKE IN 30" PINE					
BM14	ELEVATION = 41.28				
N 744340	E 2533438				
EL STATION 128+48.00 200 LEFT					
RR SPIKE IN 30" GUM					
BM15	ELEVATION = 47.85				
N 745301	E 2535831				
EL STATION 154+35.00 250 RIGHT					
RR SPIKE IN PP					
BM16	ELEVATION = 61.09				
N 748021	E 2538792				
EL STATION 193+80.00 176 LEFT					
RR SPIKE IN 36" OAK					
BM17	ELEVATION = 63.79				
N 748205	E 2541948				
EL STATION 224+50.00 423 RIGHT					
RR SPIKE IN PP					
BM18	ELEVATION = 71.88				
N 749206	E 2544073				
EL STATION 247+52.00 35 LEFT					
RR SPIKE IN 18" PINE					

BM19	ELEVATION = 75.98				
N 750494	E 2546421				
EL STATION 274+79.00 309 LEFT					
RR SPIKE IN PP					
BM20	ELEVATION = 75.62				
N 751565	E 2549144				
EL STATION 303+76.00 103 RIGHT					
RR SPIKE IN 30" PINE					
BM21	ELEVATION = 76.70				
N 753374	E 2552305				
EL STATION 340+18.00 97 RIGHT					
RR SPIKE IN PP					
BM22	ELEVATION = 72.92				
N 754379	E 2554713				
EL STATION 366+50.00 122 LEFT					
RR SPIKE IN 24" PINE					
BM23	ELEVATION = 68.31				
N 755267	E 2557034				
EL STATION 392+02.00 140 RIGHT					
RR SPIKE IN 30" OAK					
BM24	ELEVATION = 73.70				
N 757279	E 2558370				
EL STATION 415+76.00 290 LEFT					
RRSPKPP					
BM25	ELEVATION = 76.75				
N 759020	E 2560450				
EL STATION 442+74.00 56 LEFT					
TOP NUT OF FIRE HYDRANT					
BM26	ELEVATION = 76.76				
N 762741	E 2563700				
EL STATION 492+03.00 407 LEFT					
RR SPIKE IN PP					
BM27	ELEVATION = 78.01				
N 763544	E 2564595				
EL STATION 504+04.00 340 LEFT					
RR SPIKE IN PP					

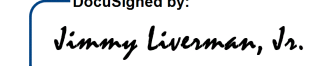
BY1	POINT	DESC.	NORTH	EAST	ELEVATION
BY1101	BY1-101		738439.5940	2524208.4420	43.81
E0BL25			737724.3440	2524590.6030	UNKNOWN
BY1100	BY1-100		736773.9150	2524622.7470	34.91
R47052	GPS MON (R4705-2)		736028.8152	2524707.7705	36.35
R47051	GPS MON (R4705-1)		735119.4750	2524742.2070	43.30
BY2					
EOR47053			742394.7830	2531899.1320	UNKNOWN
R47054	GPS MON (R4705-4)		741443.3820	2532196.7770	36.45
BY4					
E0BL40			745536.6880	2535706.0160	UNKNOWN
R47055	GPS MON (R4705-5)		744795.9620	2535971.7060	46.62
R47056	GPS MON (R4705-6)		743677.8410	2535746.0530	43.69
BY8					
E0BL48			748605.8000	2541723.0070	UNKNOWN
R47057	GPS MON (R4705-7)		747853.9470	2541915.7510	62.28
R47058	GPS MON (R4705-8)		746943.0420	2542201.6340	62.95

I, Jimmy E. Liverman, 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: 01/2017 - 06/2017  
 Datum/Epoch: NAD83/NA2011  
 Published/Fixed-control use: N/A  
 Localized around: CASKEY  
 Northing: 770400.0000  
 Easting: 2,569,000.000  
 Combined grid factor: 0.99992957  
 Geoid model: 09  
 Units: US FT

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 January 2017 to June 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 17th day of March, 2022.

DocuSigned by:  
  
 Jimmy Liverman, Jr.  
 Professional Land Surveyor L-4457



### 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

I7-MAR-2022 13:44 C:\2022\2206011\_001\_R4705\_P\1501\_Comp\_Ro\CADD\Surveys\R4705\15-rw02c-7.dgn tlemmons AT RVA19107L



# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

I, Jimmy E. Liverman, 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: 01/2017 - 06/2017  
Datum/Epoch: NAD83/NA2011  
Published/Fixed-control use: N/A  
Localized around: CASKEY  
Northing: 770400.0000  
Easting: 2,569,000.0000  
Combined grid factor: 0.99992957  
Geoid model: 09  
Units: US FT

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 January 2017 to June 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 17th day of March, 2022.  
Delegated by:  
*Jimmy Liverman, Jr.*  
Professional Land Surveyor L-4457



PROJECT REFERENCE NO. R-4705	SHEET NO. RW02C-9
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 248-6600</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2786</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 357-3488</li> </ul>	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	748849.193	2542803.798							
CURVE			N 76°01'16.8" E	208.90	00°31'20.1"(L.T)	00°15'00.0"	208.90	104.45	22918.31
PT	748899.655	2543006.512							
LINE			N 75°45'36.8" E	931.26					
PC	749128.726	2543909.155							
CURVE			N 75°56'55.0" E	150.71	00°22'36.4"(RT)	00°15'00.0"	150.71	75.36	22918.31
PT	749165.318	2544055.360							
LINE			N 76°08'13.2" E	115.31					
PC	749192.946	2544167.309							
CURVE			N 76°01'07.5" E	94.60	00°14'11.4"(L.T)	00°15'00.0"	94.60	47.30	22918.31
PT	749215.802	2544259.107							
LINE			N 75°54'01.8" E	762.79					
PC	749401.622	2544998.916							
CURVE			N 68°11'05.3" E	439.56	15°25'52.9"(L.T)	03°30'00.0"	440.90	221.79	1637.02
PT	749564.971	2545407.003							
LINE			N 60°28'08.9" E	2173.57					
PC	750636.307	2547298.204							
CURVE			N 60°27'25.7" E	9.60	00°01'26.4"(L.T)	00°15'00.0"	9.60	4.80	22918.31
PT	750641.040	2547306.556							
LINE			N 60°26'42.5" E	3890.98					
PC	752560.292	2550691.256							
CURVE			N 60°18'23.9" E	27.70	00°16'37.2"(L.T)	01°00'00.0"	27.70	13.85	5729.58
PT	752574.014	2550715.319							
LINE			N 60°10'05.2" E	2329.22					
PC	753732.701	2552735.893							
CURVE			N 62°01'15.2" E	211.71	03°42'19.9"(RT)	01°45'00.0"	211.74	105.91	3274.04
PT	753832.024	2552922.856							
LINE			N 63°52'25.1" E	3.98					
PC	753833.777	2552926.430							
CURVE			N 70°50'58.6" E	407.34	13°57'06.9"(RT)	03°25'00.0"	408.35	205.19	1676.95
PT	753967.404	2553311.229							
LINE			N 77°49'32.0" E	316.62					
PC	754034.176	2553620.729							
CURVE			N 78°24'03.4" E	115.08	01°09'02.8"(RT)	01°00'00.0"	115.08	57.54	5729.58
PT	754057.313	2553733.454							
LINE			N 78°58'34.8" E	153.36					
PC	754086.638	2553883.987							
CURVE			N 78°44'25.5" E	47.19	00°28'18.7"(L.T)	01°00'00.0"	47.19	23.59	5729.58
PT	754095.852	2553930.266							
LINE			N 78°30'16.1" E	1094.03					
PC	754313.882	2555002.348							
CURVE			N 78°09'05.7" E	94.11	00°42'20.9"(L.T)	00°45'00.0"	94.11	47.05	7639.44
PT	754333.204	2555094.448							
LINE			N 77°47'55.2" E	121.76					
PC	754358.939	2555213.460							
CURVE			N 77°53'51.7" E	79.20	00°11'52.8"(RT)	00°15'00.0"	79.20	39.60	22918.31
PT	754375.544	2555290.903							
LINE			N 77°59'48.1" E	374.62					
PC	754453.453	2555657.329							
CURVE			N 77°40'04.2" E	87.69	00°39'27.7"(L.T)	00°45'00.0"	87.69	43.85	7639.44
PT	754472.182	2555742.998							
LINE			N 77°20'20.4" E	137.33					
PC	754502.282	2555876.990							
CURVE			N 72°26'44.2" E	195.50	09°47'12.3"(L.T)	05°00'00.0"	195.73	98.11	1145.92
PT	754561.246	2556063.383							
LINE			N 67°33'08.1" E	4.03					
PC	754562.786	2556067.109							
CURVE			N 60°43'44.6" E	175.67	13°38'47.0"(L.T)	07°45'00.0"	176.08	88.46	739.30
PT	754648.677	2556220.347							
LINE			N 53°54'21.1" E	27.81					
PC	754665.061	2556242.820							
CURVE			N 49°34'11.0" E	115.52	08°40'20.1"(L.T)	07°30'00.0"	115.63	57.93	763.94
PT	754739.978	2556330.754							
LINE			N 45°14'00.9" E	43.83					
PC	754770.848	2556361.876							
CURVE			N 44°31'36.7" E	141.34	01°24'48.5"(L.T)	01°00'00.0"	141.35	70.68	5729.58
PT	754871.614	2556460.991							
LINE			N 43°49'12.5" E	2953.94					
PC	757002.931	2558506.289							
CURVE			N 44°31'34.4" E	564.85	01°24'43.8"(RT)	00°15'00.0"	564.86	282.45	22918.31
PT	757405.627	2558902.380							
LINE			N 45°13'56.2" E	2209.64					
PC	758961.729	2560471.151							
CURVE			N 45°21'59.1" E	107.29	00°16'05.6"(RT)	00°15'00.0"	107.29	53.65	22918.31
PT	759037.111	2560547.503							
LINE			N 45°30'01.9" E	224.52					
PC	759194.477	2560707.643							
CURVE			N 45°04'31.5" E	85.02	00°51'00.7"(L.T)	01°00'00.0"	85.02	42.51	5729.58
PT	759254.516	2560767.840							
LINE			N 44°39'01.2" E	5.15					
PC	759258.177	2560771.457							
CURVE			N 44°59'05.8" E	66.93	00°40'09.4"(RT)	01°00'00.0"	66.93	33.46	5729.58
PT	759305.514	2560818.768							
LINE			N 45°19'10.5" E	570.82					
PC	759706.889	2561224.647							
CURVE			N 45°17'28.6" E	22.65	00°03'23.9"(L.T)	00°15'00.0"	22.65	11.33	22918.31
PT	759722.824	2561240.744							
LINE			N 45°15'46.7" E	2894.03					
PC	761759.800	2563296.504							
CURVE			N 45°25'52.7" E	44.89	00°20'12.0"(RT)	00°45'00.0"	44.89	22.44	7639.44
PT	761791.302	2563328.484							
LINE			N 45°35'58.7" E	58.93					
PC	761832.535	2563370.590							
CURVE			N 44°59'30.1" E	486.34	01°12'57.2"(L.T)	00°15'00.0"	486.35	243.19	22918.31
PT	762176.482	2563714.436							
LINE			N 44°23'01.5" E	181.36					
PC	762306.094	2563841.290							
CURVE			N 44°46'15.6" E	154.89	00°46'28.1"(RT)	00°30'00.0"	154.90	77.45	11459.16
PT	762416.058	2563950.379							
LINE			N 45°09'29.6" E	59.27					
PC	762457.854	2563992.406							
CURVE			N 45°02'15.2" E	48.27	00°14'28.9"(L.T)	00°30'00.0"	48.27	24.13	11459.16
PT	762491.964	2564026.560							
LINE			N 44°55'00.8" E	1262.80					
PC	763386.193	2564918.199							
CURVE			N 45°11'29.8" E	109.89	00°32'58.1"(RT)	00°30'00.0"	109.89	54.95	11459.16
PT	763463.638	2564996.164							
LINE			N 45°27'58.8" E	89.09					
PC	763526.117	2565059.668							
CURVE			N 44°46'39.5" E	275.48	01°22'38.7"(L.T)	00°30'00.0"	275.48	137.75	11459.16
PT	763721.663	2565253.702							
LINE			N 44°05'20.1" E	1175.77					
POT	764566.175	2566071.774							

EY1 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	738607.026	2524076.489							
LINE			S 33°51'19.9" E	358.29					
PC	738309.488	2524276.091							
CURVE			S 31°01'00.6" E	206.37	05°40'38.7"(RT)	02°45'00.0"	206.45	103.31	2083.48
PT	738132.628	2524382.430							
LINE			S 28°10'41.2" E	2.92					
PC	738130.053	2524383.809							
CURVE			S 24°45'39.2" E	170.76	06°50'04.1"(RT)	04°00'00.0"	170.86	85.53	1432.39
PT	737974.992	2524455.329							
LINE			S 21°20'37.1" E	31.92					
PC	737945.259	2524466.947							
CURVE			S 18°15'07.3" E	206.01	06°10'59.7"(RT)	03°00'00.0"	206.11	103.15	1909.86
PT	737749.616	2524531.469							
LINE			S 15°09'37.4" E	63.72					
PC	737688.114	2524548.133							
CURVE			S 11°04'32.0" E	163.26	08°10'10.9"(RT)	05°00'00.0"	163.39	81.84	1145.92
PT	737527.899	2524579.495							
LINE			S 06°59'26.5" E	83.27					
PC	737445.248	2524589.629							
CURVE			S 05°44'09.2" E	91.25	02°30'34.5"(RT)	02°45'00.0"	91.26	45.64	2083.48
PT	737354.454	2524598.749							
LINE			S 04°28'52.0" E	408.83					
PC	736946.874	2524630.691							
CURVE			S 04°21'45.6" E	23.69	00°14'12.7"(RT)	01°00'00.0"	23.69	11.84	5729.58

# SURVEY CONTROL SHEET

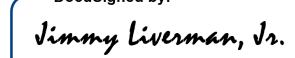
## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

I, Jimmy E. Liverman, 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:

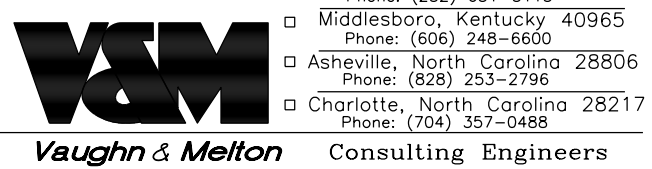
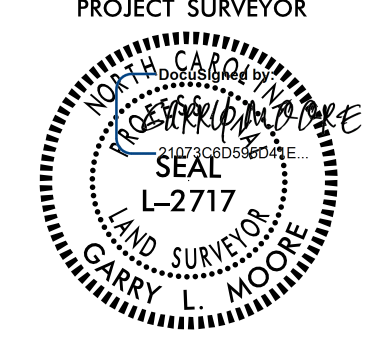
Class of survey: AA  
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This 17th day of March, 2022.

DocuSigned by:  
  
 Jimmy E. Liverman, Jr.  
 Professional Land Surveyor L-4457



PROJECT REFERENCE NO. R-4705	SHEET NO. RW02C-10
<b>Location and Surveys</b>	
	
■ New Bern, North Carolina 28562 Phone: (252) 631-5115 ■ Middletown, Kentucky 40965 Phone: (606) 248-6600 ■ Asheville, North Carolina 28806 Phone: (828) 253-2786 ■ Charlotte, North Carolina 28217 Phone: (704) 357-3488	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EY6									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	747849.337	2538845.053							
LINE			S 20°24'34.1" E	52.70					
PC	747799.945	2538863.431							
CURVE			S 16°35'04.1" E	63.70	07°38'59.9"(RT)	12°00'00.0"	63.75	31.92	477.46
PT	747738.892	2538881.614							
LINE			S 12°45'34.2" E	444.89					
POT	747304.985	2538979.872							

EY7				
POINT	N	E	BEARING	DIST
POT	748453.295	2538723.941		
LINE			S 12°49'34.9" E	610.97
POT	747857.568	2538859.575		

EY8									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	748585.399	2541723.110							
LINE			S 12°12'25.4" E	149.86					
PC	748438.926	2541754.797							
CURVE			S 13°16'41.5" E	17.85	02°08'32.0"(LT)	12°00'00.0"	17.85	8.93	477.46
PT	748421.552	2541758.897							
LINE			S 14°20'57.5" E	377.83					
POT	748055.512	2541852.535							

EY9				
POINT	N	E	BEARING	DIST
POT	750260.670	2546635.103		
LINE			S 27°12'32.8" E	577.24
POT	749747.307	2546899.039		

EY10									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	750742.671	2546318.243							
LINE			S 43°45'24.2" E	42.07					
PC	750712.281	2546347.341							
CURVE			S 36°27'25.6" E	277.33	14°35'57.2"(RT)	05°15'00.0"	278.08	139.80	1091.35
PT	750489.225	2546512.135							
LINE			S 29°09'27.0" E	259.48					
POT	750262.627	2546638.556							

EY11				
POINT	N	E	BEARING	DIST
POT	752516.640	2549776.858		
LINE			S 26°47'11.1" E	413.54
POT	752147.473	2549963.228		

EY12				
POINT	N	E	BEARING	DIST
POT	753080.441	2550464.537		
LINE			S 24°48'11.9" E	566.23
POT	752566.442	2550702.074		

EY13				
POINT	N	E	BEARING	DIST
POT	752564.884	2550699.339		
LINE			S 25°01'19.9" E	581.81
POT	752037.684	2550945.425		

EY15									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	754004.080	2553481.228							
LINE			S 12°43'44.6" E	222.82					
PC	753786.735	2553530.325							
CURVE			S 09°43'02.9" E	100.34	06°01'23.4"(RT)	06°00'00.0"	100.39	50.24	954.93
PT	753687.835	2553547.261							
LINE			S 06°42'21.2" E	28.29					
PC	753659.738	2553550.565							
CURVE			S 01°54'40.3" E	119.73	09°35'22.0"(RT)	08°00'00.0"	119.87	60.07	716.20
PT	753540.076	2553554.558							
LINE			S 02°53'00.7" W	65.40					
POT	753474.759	2553551.268							

EY17				
POINT	N	E	BEARING	DIST
POT	754434.905	2555570.094		
LINE			S 07°30'13.5" E	538.95
POT	753900.569	2555640.476		

EY18				
POINT	N	E	BEARING	DIST
POT	757470.645	2558183.069		
LINE			S 50°44'11.5" E	559.37
POT	757116.629	2558616.154		

EY19				
POINT	N	E	BEARING	DIST
POT	757378.535	2558875.113		
LINE			S 60°43'21.4" E	573.63
POT	757098.010	2559375.464		

EY21				
POINT	N	E	BEARING	DIST
POT	759255.104	2560185.286		
LINE			S 44°07'32.0" E	409.63
POT	758961.066	2560470.482		

EY23									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	760536.092	2561886.469							
LINE			N 45°12'38.3" E	710.50					
PC	761036.641	2562390.713							
CURVE			N 56°00'05.3" E	47.68	21°34'54.0"(RT)	45°00'00.0"	47.96	24.27	127.32
PT	761063.300	2562430.239							
LINE			N 66°47'32.3" E	13.87					
PC	761068.767	2562442.989							
CURVE			S 84°06'43.5" E	50.66	58°11'28.4"(RT)	110°00'00.0"	52.90	28.99	52.09
PT	761063.571	2562493.379							
LINE			S 55°00'59.3" E	71.87					
POT	761022.362	2562552.266							

EY24									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	761039.575	2562569.638							
LINE			S 24°14'06.7" E	66.59					
PC	760978.853	2562596.972							
CURVE			S 16°30'27.3" E	34.24	15°27'18.9"(RT)	45°00'00.0"	34.35	17.28	127.32
PT	760946.023	2562606.702							
LINE			S 08°46'47.8" E	12.78					
PC	760933.394	2562608.652							
CURVE			S 15°50'53.9" W	106.12	49°15'23.5"(RT)	45°00'00.0"	109.46	58.37	127.32
PT	760831.308	2562579.672							
LINE			S 40°28'35.7" W	121.85					
POT	760738.622	2562500.576							

EY25				
POINT	N	E	BEARING	DIST
POT	761526.713	2563837.549		
LINE			N 32°06'32.5" W	559.28
POT	762000.444	2563540.273		

EY26				
POINT	N	E	BEARING	DIST
POT	762815.129	2563558.748		
LINE			S 50°06'27.3" E	561.49
POT	762455.017	2563989.553		

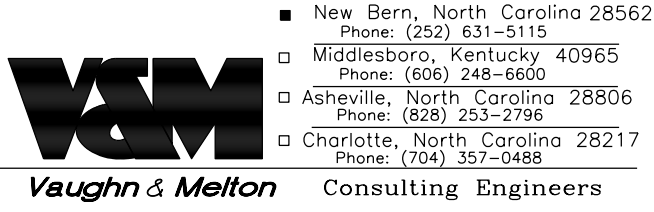

EY27				
POINT	N	E	BEARING	DIST
POT	763650.105	2565183.776		
LINE			S 41°08'55.7" E	393.41
POT	763353.864	2565442.649		

EY28									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	764381.450	2565330.423							
LINE			N 88°24'12.2" E	89.34					
PC	764383.940	2565419.724							
CURVE			S 70°16'14.8" E	130.23	42°39'06.1"(RT)	32°00'00.0"	133.29	69.90	179.05
PT	764339.977	2565542.309							
LINE			S 48°56'41.7" E	223.22					
POT	764193.367	2565710.638							

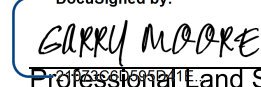
**NOTES:**

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.

# PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW02D-1
<b>Location and Surveys</b>	
	
<p>■ New Bern, North Carolina 28562 Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 245-6660 □ Asheville, North Carolina 28806 Phone: (828) 253-2766 □ Charlotte, North Carolina 28217 Phone: (704) 397-0488</p>	
	
<p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>	

I, Garry L. Moore, 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 March, 2022.  
 Documented by:  
  
 GARRY L. MOORE  
 Professional Land Surveyor L-2717

L				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	737697.5368	2524539.3016	
PC	19+74.21	737817.7635	2525506.0632	
PT	23+09.92	737908.9967	2525827.7875	
PC	27+56.00	738094.5161	2526233.4619	
PT	33+27.87	738395.2677	2526718.0674	
PC	34+85.84	738494.8391	2526840.7068	
PT	40+08.88	738859.5897	2527214.5577	
PC	65+63.10	740802.2714	2528872.8892	
PT	76+73.64	741220.9216	2529859.0305	
PC	83+31.41	741180.6599	2530515.5673	
PT	92+27.69	741532.6392	2531302.4267	
PC	99+48.82	742098.6351	2531749.2753	
PT	103+04.28	742407.5160	2531922.1797	
PC	106+47.21	742729.3834	2532040.5235	
PT	112+86.76	743244.1971	2532407.1350	
PC	141+34.01	745046.6746	2534611.1997	
PT	144+44.03	745201.8100	2534878.1008	
PC	160+85.09	745791.4671	2536409.5657	
PT	165+21.49	746018.0762	2536779.7015	
PC	190+04.66	747676.2402	2538628.1122	
PT	195+93.46	747948.4442	2539143.5669	
PC	201+97.03	748092.2254	2539729.7674	
PT	202+85.76	748113.5273	2539815.8973	
PC	216+04.86	748432.6975	2541095.8034	
PT	217+13.70	748458.7820	2541201.4690	
PC	234+87.18	748879.7464	2542924.2646	
PT	236+58.59	748921.0523	2543090.6182	
PC	256+33.48	749404.1096	2545005.5247	
PT	260+67.00	749564.9613	2545406.7025	
PC	315+34.79	752260.6135	2550163.8164	
PT	316+35.67	752310.5389	2550251.4728	
PC	345+80.09	753773.3809	2552806.8076	
PT	351+77.82	753983.1098	2553363.8195	
PC	368+58.25	754317.4318	2555010.6582	
PT	371+88.15	754385.3802	2555333.4746	
PC	376+91.61	754492.6099	2555825.3829	
PT	384+01.55	754834.4259	2556435.8370	
PC	400+30.45	756009.9986	2557563.3757	
PRC	403+33.77	756231.6485	2557770.4265	
PT	406+37.10	756453.2984	2557977.4774	
PC	413+62.14	756976.5687	2558479.3571	
PT	420+35.04	757456.1620	2558951.3322	
PC	483+83.77	761923.6965	2563462.1476	
PT	486+52.94	762114.2254	2563652.2840	
PC	490+78.51	762417.2097	2563951.1262	
PT	492+31.44	762525.7353	2564058.8822	
PC	507+43.65	763595.2760	2565127.9241	
PT	511+08.27	763855.1913	2565383.6320	
POT	521+72.04	764619.3977	2566123.6393	

LPA				
TYPE	STATION	NORTH	EAST	
PC	10+00.00	760305.7252	2562379.0870	
CS	11+33.22	760436.5242	2562376.9160	
ST	13+08.22	760576.2039	2562273.9236	
POT	14+29.48	760662.4522	2562188.6845	

LPD				
TYPE	STATION	NORTH	EAST	
PC	10+00.00	759768.8428	2561761.5693	
PT	11+24.32	759845.0499	2561663.7725	
POT	13+35.71	759995.0164	2561514.7826	

RPA				
TYPE	STATION	NORTH	EAST	
PC	10+00.00	760350.9492	2562481.4139	
PT	12+38.60	760535.7516	2562331.0833	
POT	14+28.83	760670.9457	2562197.2603	

RPD				
TYPE	STATION	NORTH	EAST	
PC	10+00.00	759644.7151	2561875.9812	
PT	12+29.38	759790.0486	2561699.0271	
POT	15+04.66	759985.3336	2561505.0060	

Y1				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	736946.8774	2524630.6908	
PC	13+84.46	737330.1559	2524600.5512	
PT	24+86.16	738359.3748	2524242.6245	
POT	27+84.37	738607.0261	2524076.4886	

Y2				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	741778.4000	2532085.5910	
PC	12+36.90	742005.0179	2532016.5701	
PT	14+55.10	742173.7100	2531885.8335	
POT	15+24.41	742209.8149	2531826.6603	

Y3				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	745235.8157	2534966.4208	
PC	11+73.29	745378.1525	2534867.5870	
PT	13+74.69	745522.8213	2534728.6701	
POT	15+24.58	745613.2411	2534609.1253	

Y4				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	744991.3811	2535909.6156	
POT	15+67.02	745520.9427	2535706.9561	

Y5				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	747395.6363	2538315.3137	
PC	10+95.32	747466.4463	2538251.4961	
PT	12+90.91	747560.4652	2538083.9300	
POT	15+63.46	747610.6906	2537816.0458	

Y6				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	747304.9890	2538979.8716	
POT	15+47.27	747838.7417	2538958.9984	

Y7				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	747841.0715	2538863.3317	
POT	16+27.89	748453.2948	2538723.9412	

Y8				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	748055.5132	2541852.5349	
PC	13+21.40	748366.8887	2541772.8809	
PT	14+52.46	748494.4377	2541742.7847	
POT	15+46.35	748586.2027	2541722.9379	

Y9				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	749747.3054	2546899.0396	
POT	15+77.56	750260.9605	2546634.9572	

Y10				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	750262.9079	2546638.3939	
PC	12+59.11	750489.1914	2546512.1569	
PT	15+37.22	750712.2742	2546347.3474	
POT	15+79.31	750742.6705	2546318.2425	

Y11				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	752147.0644	2549963.4322	
POT	14+14.00	752516.6405	2549776.8578	

Y12				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	752568.0657	2550701.3281	
POT	15+64.45	753080.4411	2550464.5369	

Y13				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	752037.6807	2550945.4267	
POT	15+83.59	752566.4958	2550698.5857	

Y15				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	753474.7551	2553551.2675	
PC	10+42.42	753517.1241	2553553.4016	
PT	13+14.93	753787.7879	2553530.0869	
POT	15+39.48	754006.8184	2553480.6055	

Y16				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	754324.1079	2555043.4220	
PC	10+35.02	754358.4128	2555036.4059	
PT	10+54.98	754378.2463	2555036.3646	
POT	15+00.00	754814.6090	2555123.7207	

Y17				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	753900.5685	2555640.4760	
POT	15+40.97	754436.9023	2555569.8284	

Y18				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	757117.2906	2558615.3511	
POT	15+58.32	757470.6445	2558183.0690	

Y19				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	757098.0077	2559375.4683	
PC	12+60.68	757225.4927	2559148.0827	
PT	15+34.81	757390.7368	2558930.4590	
POT	15+66.54	757413.2262	2558908.0811	

Y20				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	758311.1153	2560255.7540	
POT	15+04.53	758669.5887	2559900.7201	

Y21				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	758960.8947	2560470.6426	
POT	14+09.86	759255.1043	2560185.2856	

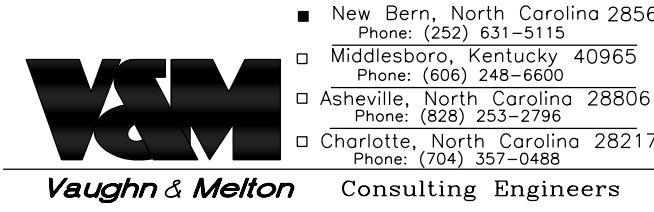

Y23				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	761022.4529	2562552.1729	
PC	10+58.97	761056.2573	2562503.8501	
PT	11+70.34	761047.4811	2562401.6326	
POT	18+96.23	760536.0916	2561886.4690	

Y24				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	760738.6239	2562500.5775	
PC	11+17.58	760828.0652	2562576.9044	
PT	12+75.71	760976.4207	2562598.0680	
POT	13+45.10	761039.6933	2562569.5803	

Y25				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	761526.7125	2563837.5491	
POT	15+60.01	762001.0559	2563539.8849	

Y26				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	762455.4986	2563988.9801	
POT	15+60.74	762815.1286	2563558.7476	

# RIGHT OF WAY CONTROL SHEET

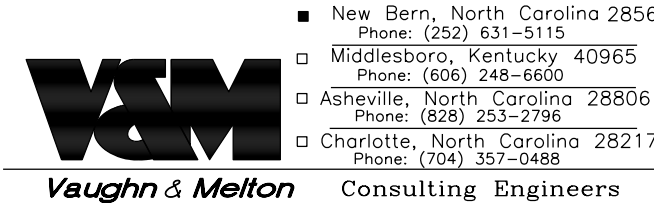

PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW03E-1
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>Middlesboro, Kentucky 40965 Phone: (606) 245-6660</li> <li>Asheville, North Carolina 28806 Phone: (828) 253-2786</li> <li>Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

ROW MARKER IRON PIN AND CAP-E					
ALIGN	STATION	OFFSET	NORTH	EAST	
L	10+80.00	-50.00	737757.0274	2524612.5196	
L	11+12.00	55.00	737656.7791	2524657.2330	
L	19+74.21	-50.00	737867.3815	2525499.8941	
L	19+74.21	55.00	737763.1869	2525512.8502	
L	21+49.00	62.00	737793.4558	2525694.3697	
L	23+09.92	-50.00	737954.4675	2525806.9932	
L	23+09.92	50.00	737863.5259	2525848.5819	
L	27+56.00	50.00	738049.0453	2526254.2562	
L	27+56.00	-50.00	738139.9869	2526212.6676	
L	33+27.87	-50.00	738434.0848	2526686.5517	
L	33+27.87	50.00	738356.4507	2526749.5831	
L	34+85.84	50.00	738456.0220	2526872.2225	
L	34+85.84	-50.00	738533.6561	2526809.1911	
L	40+08.88	-50.00	738892.0522	2527176.5290	
L	40+08.88	50.00	738827.1272	2527252.5865	
L	65+63.10	50.00	740769.8089	2528910.9179	
L	65+63.10	-50.00	740834.7314	2528834.8582	
L	67+78.00	-50.03	740991.1276	2528994.6030	
L	74+55.00	-50.12	741264.1590	2529634.7440	
L	76+73.64	-50.00	741270.8278	2529862.0910	
L	76+73.64	50.00	741171.0153	2529855.9701	
L	83+11.97	-30.00	741211.7936	2530498.0006	
L	83+11.97	-50.00	741231.7561	2530499.2248	
L	83+31.41	-50.00	741230.5661	2530518.6289	
L	83+31.41	50.00	741130.7536	2530512.5080	
L	83+31.41	30.00	741150.7161	2530513.7322	
L	92+27.69	-50.00	741563.6218	2531263.1829	
L	92+27.69	-22.00	741546.2716	2531285.1594	
L	93+51.97	50.00	741599.2001	2531418.6803	
L	93+51.97	30.00	741611.5931	2531402.9827	
L	99+48.82	50.00	742067.6524	2531788.5191	
L	99+48.82	-50.00	742129.6191	2531710.0327	
L	100+12.00	50.00	742120.5671	2531827.9344	
L	102+32.00	47.26	742321.4023	2531938.2971	
L	103+04.28	50.00	742390.2614	2531969.1081	
L	103+04.28	-50.00	742424.7706	2531875.2512	
L	106+47.21	-50.00	742746.6380	2531993.5950	
L	106+47.21	50.00	742712.1288	2532087.4519	
L	108+81.00	-45.10	742963.0566	2532103.4808	
L	109+90.00	-44.08	743056.2292	2532167.4459	
L	109+90.00	-48.00	743058.5635	2532164.2976	
L	112+86.76	50.00	743205.4920	2532438.7880	
L	112+86.76	-45.00	743279.0318	2532378.6473	
L	141+34.01	50.00	745007.9675	2534642.8503	
L	141+34.01	-45.00	745081.5093	2534582.7120	
L	144+11.00	-45.00	745230.8453	2534829.9017	
L	144+44.03	50.00	745155.1492	2534896.0665	
L	146+09.00	-49.68	745307.4493	2535014.2029	
L	148+75.00	50.00	745310.0032	2535298.2553	
L	148+75.00	66.00	745295.0717	2535304.0043	
L	152+75.00	71.09	745434.0439	2535679.1212	
L	154+27.00	49.56	745508.7515	2535813.2342	
L	160+85.09	50.00	745744.8063	2536427.5312	
L	160+85.09	-50.00	745838.1280	2536391.5999	
L	165+21.49	-50.00	746055.2949	2536746.3134	
L	165+21.49	50.00	745980.8574	2536813.0895	
L	166+40.00	-30.15	746119.6591	2536847.7857	
L	166+40.00	-50.00	746134.4336	2536834.5319	
L	167+28.89	-50.00	746193.7939	2536908.7027	
L	167+30.76	-30.00	746180.1541	2536915.4489	
L	167+38.89	-50.00	746200.4783	2536908.1377	
L	185+08.00	-50.00	747381.8114	2538225.0256	
L	187+31.00	-61.22	747539.0738	2538383.5293	
L	188+37.00	-50.00	747601.5048	2538469.9252	
L	190+04.66	50.00	747639.0241	2538661.5033	
L	190+04.66	-50.00	747713.4590	2538594.7242	
L	191+90.00	50.00	747746.9685	2538802.3338	
L	191+97.00	-50.00	747834.7512	2538753.9278	
L	193+53.00	50.00	747823.0075	2538938.6483	
L	193+79.00	-50.00	747924.7358	2538920.5884	
L	195+93.46	50.00	747899.8836	2539155.4777	
L	195+93.46	-50.00	747997.0048	2539131.6562	
L	196+59.80	50.00	747915.686	2539219.9045	
L	196+59.80	50.00	747918.0681	2539229.6166	
L	196+71.82	32.07	747935.9602	2539227.3123	
L	201+97.03	-50.00	748140.7860	2539717.8566	
L	202+85.76	-50.00	748162.0416	2539803.7993	
L	216+04.86	-50.00	748481.2118	2541083.7054	
L	217+13.70	-50.00	748507.3530	2541189.6007	
L	223+24.00	50.00	748555.0757	2541806.1959	
L	234+87.18	-50.00	748928.3174	2542912.3963	
L	234+87.18	50.00	748831.1754	2542936.1329	
L	236+58.59	-50.00	748969.5335	2543078.3882	
L	236+58.59	50.00	748872.5711	2543102.8481	
L	245+74.00	-31.14	749175.1592	2543970.6084	
L	245+74.00	-50.00	749193.4429	2543965.9961	
L	246+85.00	-50.00	749220.5934	2544073.6244	
L	246+85.00	-30.71	749201.8902	2544078.3425	
L	256+33.48	50.00	749355.6284	2545017.7547	
L	256+33.48	-50.00	749452.5908	2544993.2948	
L	260+67.00	-50.00	749608.4626	2545382.0522	

ROW MARKER IRON PIN AND CAP-E					
ALIGN	STATION	OFFSET	NORTH	EAST	
L	260+67.00	50.00	749521.4600	2545431.3529	
L	274+03.00	-50.00	750267.1166	2546544.4025	
L	274+06.00	50.00	750181.5930	2546596.3132	
L	275+52.00	50.00	750253.5720	2546723.3369	
L	275+63.00	-50.00	750345.9976	2546683.6066	
L	312+27.00	-50.00	752152.3725	2549871.3810	
L	313+19.22	50.00	752110.8359	2550000.9169	
L	313+29.18	29.11	752133.9240	2549999.2810	
L	313+29.22	50.00	752115.7659	2550009.6172	
L	313+67.00	-50.00	752221.3934	2549993.1846	
L	315+29.56	50.00	752214.5363	2550183.9208	
L	315+29.57	29.32	752232.5330	2550173.7260	
L	315+34.79	-50.00	752304.1148	2550139.1660	
L	315+34.79	50.00	752217.1123	2550188.4667	
L	316+35.67	-50.00	752353.9317	2550226.6319	
L	316+35.67	50.00	752267.1462	2550276.3136	
L	320+60.00	-50.00	752564.7477	2550594.8915	
L	320+72.25	50.00	752484.0502	2550655.2078	
L	322+26.00	50.25	752560.2154	2550788.7622	
L	323+87.24	-28.37	752708.5551	2550889.6315	
L	323+89.06	-49.30	752727.6225	2550880.8143	
L	323+99.06	-49.30	752732.5935	2550889.4913	
L	328+71.98	50.00	752881.3701	2551349.2578	
L	328+77.78	40.00	752892.9291	2551349.3214	
L	328+81.98	50.00	752886.3382	2551357.9363	
L	328+87.78	40.00	752897.8973	2551358.0000	
L	331+46.04	40.00	753026.2034	2551582.1288	
L	331+56.04	40.00	753031.1716	2551590.8073	
L	331+56.05	50.00	753022.4967	2551595.7819	
L	331+66.05	50.00	753027.4649	2551604.4605	
L	345+80.09	50.00	753729.9881	2552831.6485	
L	345+80.09	-50.00	753816.7736	2552781.9667	
L	351+77.82	50.00	753934.1094	2553373.7670	
L	351+77.82	-50.00	754032.1103	2553353.8720	
L	352+18.62	50.00	753942.2265	2553413.7511	
L	353+73.00	52.23	753970.7546	2553565.4872	
L	355+00.00	-29.35	754075.9719	2553673.7178	
L	355+00.00	-50.00	754096.2077	2553669.6097	
L	355+01.97	51.06	753997.5600	2553691.6493	
L	357+00.00	-50.00	754135.9977	2553865.6117	
L	357+00.00	-28.04	754114.4739	2553869.9812	
L	359+13.32	-97.00	754224.4978	2554065.3149	
L	359+23.32	-97.00	754226.4873	2554075.1150	
L	359+44.76	-77.01	754211.1645	2554100.1033	
L	359+50.07	-69.57	754204.9316	2554106.7883	
L	359+57.15	-50.00	754187.1573	2554117.6192	
L	360+31.32	-97.30	754248.2656	2554180.8989	
L	360+33.42	-50.00	754202.3319	2554192.3679	
L	360+43.42	-50.00	754204.3214	2554202.1680	
L	368+21.73	-50.00	754359.1652	2554964.9141	
L	368+58.25	50.00	754268.4313	2555020.6058	
L	369+00.00	50.00	754276.7921	2555061.5996	
L	369+00.00	35.00	754291.4868	2555058.5987	
L	369+54.00	-49.75	754385.3850	2555094.3517	
L	371+88.15	35.00	754351.1833	2555340.9291	
L	371+88.15	-50.00	754434.2330	2555322.8253	
L	373+43.00	38.11	754381.1299	2555492.8918	
L	375+06.00	49.99	754404.2339	2555654.6833	
L	376+91.61	-50.00	754541.4627	2555801.7336	
L	376+91.61	50.00	754443.7572	2555836.0321	
L	384+01.55	50.00	754799.8155	2556471.9219	
L	384+01.55	-50.00	754869.0363	2556399.7522	
L	384+96.00	50.00	754867.9785	2556537.2998	
L	384+96.00	43.00	754872.8240	2556532.2479	
L	385+55.00	50.00	754910.5586	2556578.1401	
L	385+55.00	43.00	754915.4041	2556573.8882	
L	393+28.00	49.18	755468.9987	2557112.6253	
L	393+38.00	49.17	755476.2230	2557119.5397	
L	393+46.16	22.65	755500.4704	2557106.0463	
L	393+56.70	-50.00	755558.3663	2557060.9160	
L	393+61.99	-37.35	755553.4239	2557073.7046	
L	393+66.70	-50.00	755565.5833	2557067.8381	



# PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW03E-3
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 245-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2766</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
	
	
<p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>	

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	13+98.00	55.00	737692.0743	2524941.0468
L	14+22.00	75.00	737675.1890	2524967.3315
L	14+23.00	69.00	737681.2665	2524967.5834
L	14+33.00	77.00	737674.5618	2524978.4942
L	14+34.00	71.00	737680.6393	2524978.7461
L	19+25.00	74.00	737738.2564	2525466.3631
L	19+25.00	80.00	737732.3023	2525467.1035
L	19+36.00	80.00	737733.6598	2525478.0194
L	19+36.00	75.00	737738.6215	2525477.4024
L	20+62.00	85.00	737748.8156	2525609.8402
L	20+62.00	79.00	737754.6918	2525608.6274
L	20+73.00	79.00	737757.1326	2525620.1619
L	20+73.00	85.00	737751.2689	2525621.4334
L	23+06.00	94.00	737821.7488	2525863.0082
L	23+06.00	100.00	737816.2835	2525865.4841
L	23+16.00	95.00	737825.1307	2525872.8260
L	23+16.00	100.00	737820.5836	2525874.9055
L	23+29.00	50.00	737871.4610	2525865.9336
L	23+29.00	66.00	737856.9103	2525872.5877
L	26+47.00	134.00	737927.3218	2526190.0625
L	26+51.00	103.00	737957.1773	2526180.8077
L	32+54.00	-50.00	738389.4770	2526629.7366
L	32+73.00	-67.00	738414.2265	2526634.0966
L	32+75.00	-63.00	738412.2500	2526638.0799
L	32+83.00	-72.00	738424.1185	2526638.6891
L	32+93.00	-50.00	738412.7959	2526659.9134
L	53+50.00	55.00	739843.9063	2528127.1137
L	53+50.00	50.07	739847.1067	2528123.3645
L	54+00.00	50.06	739885.1451	2528155.8158
L	54+00.00	55.00	739881.9351	2528159.5762
L	113+54.00	81.00	743224.0591	2532510.4603
L	113+59.00	111.00	743204.0013	2532533.3226
L	113+70.57	78.10	743236.7982	2532521.4524
L	113+74.42	108.29	743215.8582	2532543.5407
L	113+80.49	76.84	743244.0529	2532528.3350
L	113+84.33	107.02	743223.1226	2532550.4131
L	115+92.00	50.00	743398.7244	2532675.0720
L	117+04.00	66.00	743457.2414	2532771.9005
L	117+46.00	50.00	743496.2155	2532794.2839
L	123+22.00	-124.00	743995.5517	2533130.0151
L	123+46.00	-144.00	744026.2272	2533135.9324
L	123+92.00	-45.00	743978.7117	2533234.2140
L	124+33.00	-45.00	744004.6671	2533265.9522
L	127+90.00	-233.00	744376.2007	2533423.2919
L	128+10.00	-256.00	744406.6663	2533424.2136
L	130+12.00	-45.00	744371.2084	2533714.1580
L	130+59.00	-45.00	744400.9622	2533750.5409
L	131+24.00	50.00	744368.5713	2533860.9982
L	131+43.00	66.00	744368.2138	2533885.8351
L	133+48.59	50.00	744510.7532	2534034.8579
L	133+48.59	66.00	744498.3634	2534044.9817
L	133+38.59	66.00	744492.0328	2534037.2407
L	141+51.20	148.09	744941.1616	2534716.3131
L	141+51.84	178.20	744917.8520	2534735.3690
L	144+95.00	50.00	745173.4636	2534943.6330
L	144+98.00	58.00	745167.0758	2534949.3072
L	145+22.00	81.00	745154.2354	2534979.9686
L	152+85.99	81.55	745428.2374	2535693.1346
L	154+10.00	81.00	745473.3068	2535808.6648
L	158+31.00	-79.00	745773.8929	2536144.0586
L	158+31.00	-50.00	745746.8296	2536154.4788
L	158+66.00	81.00	745637.1543	2536234.2116
L	158+66.00	50.00	745666.0840	2536223.0728
L	160+10.00	82.00	745687.9624	2536368.9540
L	160+10.00	50.00	745717.8253	2536357.4560
L	160+41.00	82.00	745699.1011	2536397.8838
L	160+41.00	50.00	745728.9640	2536386.3857
L	160+85.09	-79.00	745865.1912	2536381.1796
L	161+17.00	50.00	745757.1607	2536458.3885
L	161+17.00	84.00	745725.7674	2536471.4445
L	163+77.00	82.00	745861.1198	2536713.6357
L	165+74.00	-79.00	746111.9483	2536766.0381
L	165+79.00	-50.00	746093.7002	2536789.1250
L	166+02.00	-80.00	746131.3899	2536786.2128
L	166+08.00	-50.00	746113.0652	2536810.7119
L	166+18.00	82.00	746021.4853	2536906.3001
L	170+22.00	-50.00	746389.5184	2537118.8834
L	170+22.00	-59.86	746396.8579	2537112.2993
L	170+43.00	-50.00	746403.5413	2537134.5153
L	170+43.00	-59.86	746410.8809	2537127.9312
L	171+20.00	-62.00	746463.8915	2537183.8191

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	171+20.00	-50.00	746454.9589	2537191.8322
L	171+42.00	-50.00	746469.6497	2537208.2085
L	171+42.00	-62.00	746478.5822	2537200.1953
L	188+64.00	50.00	747545.0968	2538556.7994
L	188+64.00	82.00	747521.2768	2538578.1678
L	192+01.00	58.10	747745.8479	2538815.5500
L	192+27.00	-69.60	747868.0589	2538770.2543
L	194+11.00	84.00	747814.0911	2539002.4768
L	194+11.00	50.00	747845.5046	2538989.4694
L	195+00.00	50.00	747875.1839	2539069.4098
L	195+00.00	84.00	747842.8929	2539080.0538
L	195+48.00	-50.00	747984.8564	2539085.8912
L	195+48.00	-80.00	748013.7012	2539077.6464
L	195+93.46	-80.00	748026.1412	2539124.5097
L	197+64.00	78.00	747913.3153	2539327.7796
L	197+64.00	31.99	747958.0045	2539316.8184
L	197+96.00	31.96	747965.6571	2539347.8899
L	197+96.00	78.00	747920.9381	2539358.8584
L	200+42.00	54.00	748002.8483	2539592.0594
L	200+42.00	31.72	748024.4862	2539586.7522
L	200+74.00	31.69	748032.1387	2539617.8237
L	200+74.00	54.00	748010.4712	2539623.1382
L	201+97.03	-80.00	748169.9224	2539710.7101
L	202+85.76	-80.00	748191.1502	2539796.5405
L	206+06.00	58.00	748134.7361	2540140.6557
L	206+06.00	29.94	748161.9646	2540133.8657
L	206+38.00	29.90	748169.7396	2540164.9068
L	206+38.00	58.00	748142.4788	2540171.7048
L	211+04.00	29.96	748282.4421	2540617.0729
L	211+04.00	67.00	748246.4998	2540626.0358
L	211+39.00	67.00	748254.9684	2540659.9958
L	211+39.00	29.96	748290.9067	2540651.0339
L	216+04.86	-80.00	748510.3204	2541076.4466
L	217+13.70	-80.00	748536.4956	2541182.4797
L	222+65.00	-50.00	748638.2132	2541725.1455
L	222+65.00	-80.00	748667.3558	2541718.0245
L	223+24.00	82.00	748523.9903	2541813.7916
L	223+93.00	-80.00	748697.7386	2541842.3663
L	223+93.00	-50.00	748668.5960	2541849.4873
L	224+00.00	82.00	748542.0301	2541887.6196
L	224+24.00	-80.00	748705.0970	2541872.4804
L	224+24.00	-50.00	748675.9544	2541879.6013
L	224+74.00	50.00	748590.6807	2541951.9090
L	225+85.00	-50.00	748714.1703	2542036.0000
L	227+00.00	-80.00	748770.6100	2542140.5923
L	230+18.00	78.00	748692.6081	2542487.0078
L	230+18.00	50.00	748719.8079	2542480.3616
L	230+48.00	50.00	748726.9288	2542509.5042
L	230+48.00	78.00	748699.7291	2542516.1504
L	234+87.18	-80.00	748957.4600	2542905.2753
L	236+58.59	-80.00	748998.6223	2543071.0502
L	238+04.00	50.00	748908.1393	2543243.8452
L	238+04.00	77.00	748881.9594	2543250.4494
L	238+35.00	50.00	748915.7218	2543273.9036
L	238+35.00	77.00	748889.5420	2543280.5078
L	240+24.00	-50.00	749058.9135	2543432.7027
L	240+24.00	-80.00	749088.0022	2543425.3647
L	241+00.00	78.00	748953.3911	2543537.7028
L	241+00.00	50.00	748980.5405	2543530.8540
L	242+39.00	-79.00	749139.6213	2543634.0786
L	242+39.00	-50.00	749111.5022	2543641.1719
L	242+72.00	-79.00	749147.6931	2543666.0762
L	242+72.00	-50.00	749119.5740	2543673.1695
L	244+34.00	-79.00	749187.3181	2543823.1553
L	244+34.00	-50.00	749159.1990	2543830.2487
L	244+65.00	-50.00	749166.7816	2543860.3070
L	244+65.00	-79.00	749194.9007	2543853.2137
L	248+78.00	-79.00	749295.9201	2544253.6685
L	248+78.00	-50.00	749267.8010	2544260.7619
L	249+26.00	86.00	749147.6728	2544340.5693
L	249+26.00	50.00	749182.5793	2544331.7638
L	249+88.00	-79.00	749322.8259	2544360.3272
L	249+88.00	-50.00	749294.7068	2544367.4206
L	250+84.00	50.00	749221.2259	2544484.9644
L	250+84.00	83.00	749189.2283	2544493.0362
L	251+20.00	-65.00	749341.5383	2544491.7420
L	251+20.00	-50.00	749326.9939	2544495.4110
L	251+52.00	-65.00	749349.3654	2544522.7700
L	251+52.00	-50.00	749334.8211	2544526.4390
L	253+75.00	-50.00	749389.3666	2544742.6652
L	253+75.00	-79.00	749417.4857	2544735.5718

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	254+07.00	-50.00	749397.1938	2544773.6932
L	254+07.00	-79.00	749425.3129	2544766.5998
L	255+87.00	-50.00	749441.2216	2544948.2255
L	255+87.00	-64.00	749454.7963	2544944.8012
L	256+18.00	-50.00	749448.8042	2544978.2839
L	256+18.00	-64.00	749462.3789	2544974.8595
L	256+33.48	83.00	749323.6308	2545025.8264
L	260+67.00	83.00	749492.7492	2545447.6221



REVISIONS

# PERMANENT EASEMENT CONTROL SHEET

<b>PROJECT REFERENCE NO.</b>	<b>SHEET NO.</b>
R-4705	RW03E-4
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 245-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2766</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
<b>PROJECT SURVEYOR</b> 	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	330-79.00	64.00	752972.0692	2551535.8730
L	331-06.00	40.00	753006.3118	2551547.3815
L	331-06.00	64.00	752985.4832	2551559.3051
L	332-15.00	58.00	753044.8435	2551650.9204
L	332-15.00	50.00	753051.7863	2551646.9458
L	333-69.00	58.00	753121.3534	2551784.5701
L	333-69.00	50.00	753128.2962	2551780.5955
L	335-31.00	60.00	753200.1021	2551926.1562
L	335-31.00	50.00	753208.7806	2551921.1881
L	335-43.82	60.00	753206.4718	2551937.2830
L	335-53.81	50.00	753220.1119	2551940.9819
L	335-53.82	60.00	753211.4399	2551945.9616
L	343-47.00	-79.00	753726.1369	2552565.2684
L	343-59.55	-66.00	753721.0907	2552582.6201
L	345-66.52	-66.00	753823.9142	2552762.2351
L	345-80.09	-80.00	753842.8093	2552767.0622
L	345-87.00	72.00	753714.1842	2552848.3483
L	345-87.00	50.00	753733.3173	2552837.4889
L	346-13.00	50.00	753745.6545	2552859.5822
L	346-13.00	72.00	753726.3723	2552870.1746
L	349-50.00	50.00	753876.8848	2553159.6901
L	349-50.00	71.00	753856.9649	2553166.3382
L	349-76.00	50.00	753884.7286	2553183.7484
L	349-76.00	71.00	753864.7181	2553190.1189
L	351-77.82	-80.00	754061.5106	2553347.9035
L	355-19.00	-80.00	754129.3880	2553682.2614
L	355-52.00	-29.20	754086.1725	2553724.7077
L	355-68.00	50.00	754011.7353	2553756.1454
L	355-68.00	80.00	753982.3351	2553762.1139
L	356-61.00	80.00	754000.8374	2553853.2548
L	356-61.00	50.00	754030.2377	2553847.2863
L	356-65.00	-28.31	754107.7812	2553835.6259
L	357-14.00	-80.00	754168.1833	2553873.3633
L	359-22.00	-80.00	754209.5649	2554077.2053
L	359-46.30	-63.05	754197.7861	2554104.3895
L	359-54.50	-57.33	754193.8103	2554113.5651
L	360-58.00	80.00	754079.8206	2554242.3186
L	360-58.00	50.00	754109.2209	2554236.3501
L	362-27.00	66.00	754127.1633	2554405.1549
L	362-27.00	80.00	754113.4432	2554407.9402
L	368-58.25	66.00	754252.7511	2555023.7890
L	368-88.00	66.00	754258.7052	2555053.0211
L	368-88.00	50.00	754274.3812	2555049.8176
L	370-36.00	-50.00	754402.3894	2555174.3878
L	370-36.00	-80.00	754431.7427	2555168.1922
L	376-60.00	-78.00	754562.0887	2555777.8894
L	379-29.00	-80.00	754639.0016	2556018.7662
L	381-94.00	-80.00	754762.2623	2556232.6175
L	384-67.00	-80.00	754937.0364	2556423.4051
L	387-53.00	80.00	755032.6885	2556736.8483
L	387-53.00	50.00	755053.4547	2556715.1974
L	387-92.00	-50.00	755150.8218	2556670.0238
L	387-92.00	-80.00	755171.5880	2556648.3729
L	398-48.00	-71.00	755927.4706	2557385.8406
L	398-50.00	-37.22	755905.5327	2557411.6023
L	398-78.00	-73.00	755950.5059	2557405.1634
L	398-80.00	-37.21	755927.1782	2557432.3742
L	399-05.45	22.79	755904.0062	2557493.2955
L	400-30.45	80.00	755954.6219	2557621.1114
L	403-33.77	80.00	756177.8137	2557829.6027
L	406-37.10	80.00	756397.9217	2558035.2132
L	406-39.65	-88.00	756516.0558	2557915.7357
L	406-49.65	-88.00	756523.2728	2557922.6578
L	406-80.00	80.00	756428.8861	2558064.9123
L	406-80.00	30.99	756462.8085	2558029.5448
L	413-62.14	-88.00	757037.4731	2558415.8478
L	414-65.00	-88.00	757111.8185	2558487.4361
L	416-35.78	-65.00	757218.5327	2558623.3628
L	417-36.00	-65.00	757290.1785	2558693.8007
L	417-80.00	-39.33	757303.4834	2558743.0527
L	423-84.00	66.00	757654.8255	2559245.7116
L	426-21.00	95.00	757800.9953	2559434.5088
L	427-57.00	60.00	757921.5649	2559506.5087
L	427-57.00	50.00	757928.6700	2559499.4718
L	427-77.00	60.00	757935.6387	2559520.7188
L	427-77.00	50.00	757942.7438	2559513.6819
L	433-17.00	-40.41	758386.9718	2559833.7367
L	433-17.00	-70.00	758407.9972	2559812.9130
L	433-50.00	-70.00	758431.2190	2559836.3597
L	433-50.00	-40.29	758410.1125	2559857.2637
L	436-49.00	-48.99	758626.6957	2560063.5848

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	436-75.00	75.00	758556.8947	2560169.3096
L	436-89.00	-63.00	758664.7963	2560082.1475
L	438-40.00	67.00	758678.6876	2560200.9138
L	438-62.00	36.13	758716.1030	2560274.8211
L	438-70.00	58.00	758706.1928	2560295.8958
L	439-49.00	-52.00	758839.9401	2560274.6200
L	440-87.00	-50.57	758936.0365	2560373.6731
L	442-29.00	-70.00	759049.7624	2560460.8956
L	442-51.00	-56.00	759055.2965	2560486.3784
L	443-81.00	65.00	759060.8048	2560663.8908
L	444-29.00	65.00	759094.5820	2560697.9952
L	448-79.00	-55.00	759496.5033	2560933.2806
L	448-79.00	-60.00	759500.0558	2560929.7622
L	449-39.00	-56.00	759539.4352	2560975.2073
L	450-36.00	-67.34	759615.7517	2561036.1453
L	451-00.00	-66.61	759660.2676	2561082.1330
L	451-12.24	-126.25	759711.2574	2561048.8589
L	451-18.99	-95.94	759694.4716	2561074.9850
L	451-22.23	-126.74	759718.6288	2561055.6163
L	456-04.00	-150.00	760074.1767	2561381.5478
L	471-65.63	-95.00	761134.0038	2562529.8018
L	488-64.00	-96.00	762331.9028	2563732.1458
L	488-81.00	-65.00	762322.2371	2563766.1542
L	489-16.00	65.22	762255.7087	2563883.4465
L	489-16.00	78.00	762246.7376	2563892.5419
L	490-43.96	-101.99	762464.2293	2563864.2502
L	490-78.51	78.00	762362.4363	2564006.6588
L	491-22.00	78.00	762393.2669	2564037.1255
L	491-71.63	-102.00	762555.2967	2563944.3241
L	493-18.00	-94.00	762653.4068	2564053.5891
L	493-18.04	-50.00	762622.3270	2564084.7349
L	494-85.00	45.00	762673.2563	2564269.9592
L	495-21.00	61.00	762687.4070	2564306.7254
L	496-02.00	-54.00	762025.9943	2564282.6515
L	496-02.00	-34.49	762812.2046	2564296.4476
L	498-85.00	61.00	762944.8539	2564564.0522
L	499-13.00	45.00	762975.9686	2564572.5303
L	500-15.87	60.71	763037.6203	2564656.3627
L	500-16.79	45.00	763049.3760	2564645.9034
L	501-04.00	67.00	763095.5047	2564723.1161
L	501-04.00	61.00	763099.7464	2564718.8725
L	501-14.00	67.00	763102.5775	2564730.1856
L	501-14.00	61.00	763106.8191	2564725.9419
L	503-25.46	-54.00	763337.6779	2564794.0964
L	503-35.00	-54.00	763344.4245	2564800.8398
L	506-88.00	45.00	763524.1041	2565120.4102
L	506-88.00	61.00	763512.7931	2565131.7265
L	510-54.00	55.00	763777.8986	2565385.2567
L	510-54.00	71.00	763766.7408	2565396.7251
L	510-76.00	71.00	763782.5652	2565412.1062
L	510-76.00	55.00	763793.7119	2565400.6273
L	512-22.00	71.00	763887.5058	2565513.7554
L	512-22.00	55.00	763898.6361	2565502.2612
L	512-47.00	55.00	763916.5958	2565519.6522
L	512-47.00	71.00	763905.4656	2565531.1465
L	514-50.00	-58.00	764141.0363	2565579.6894
L	514-50.00	-50.00	764135.4712	2565585.4365
L	514-96.00	55.23	764095.3129	2565693.0340
L	514-96.00	76.00	764080.8663	2565707.9531
L	515-11.78	55.00	764106.8145	2565703.8475
L	515-14.98	76.00	764094.5027	2565721.1576

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y3	11-13.00	-64.88	745291.6289	2534848.6778
Y3	13-48.00	-47.00	745470.0141	2534719.7189
Y3	13-48.00	-30.00	745483.1390	2534730.5385

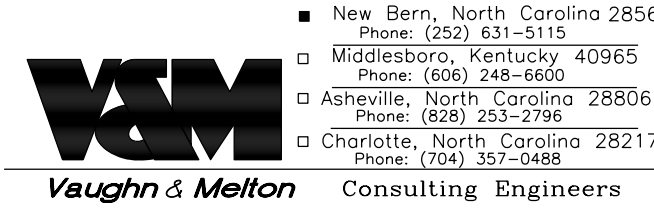
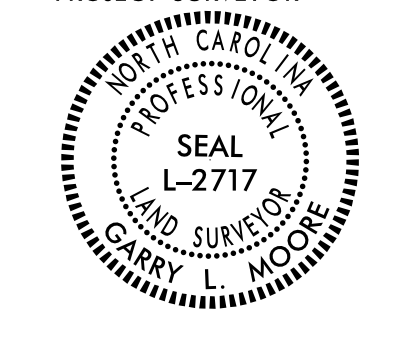
ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y4	14-26.00	30.00	745399.9645	2535785.3754

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y6	13-44.00	42.89	747649.9660	2538945.7220
Y6	13-44.00	64.00	747654.6290	2538966.3130
Y6	13-55.87	-40.00	747643.2340	2538862.2600
Y6	13-56.31	-53.35	747640.7126	2538849.1393
Y6	13-65.00	64.00	747675.1104	2538961.6748
Y6	13-65.00	44.01	747670.6954	2538942.1791
Y6	13-66.27	-54.22	747650.2383	2538846.096

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y7	12-36.00	-50.00	748060.0828	2538762.1879

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y11	10-79.86	36.77	752234.9258	2549960.2713
Y11	12-17.35	-46.53	752320.1214	2549823.9414
Y11	12-27.34	-46.03	752329.2622	2549819.8862
Y11	11-28.00			

# PERMANENT EASEMENT CONTROL SHEET

<b>PROJECT REFERENCE NO.</b> R-4705	<b>SHEET NO.</b> RW03E-5
<b>Location and Surveys</b>	
	
<p> <input type="checkbox"/> New Bern, North Carolina 28562                  Phone: (252) 631-5115  <input type="checkbox"/> Middlesboro, Kentucky 40965                  Phone: (606) 248-6660  <input type="checkbox"/> Asheville, North Carolina 28806                  Phone: (828) 253-2766  <input type="checkbox"/> Charlotte, North Carolina 28217                  Phone: (704) 397-0488             </p>	
<p><b>PROJECT SURVEYOR</b></p> 	
<p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>	

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y19	12+60.68	87.00	757301.3770	2559190.6333
Y19	14+66.00	106.00	757423.4902	2559050.4148

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y20	12+28.00	35.35	758497.9879	2560120.4306

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y21	10+71.00	46.68	759044.3627	2560454.7214

ROW MARKER PERMANENT EASEMENT-E

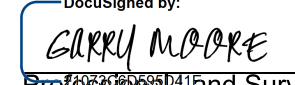
ALIGN	STATION	OFFSET	NORTH	EAST
Y26	13+40.16	-29.63	762650.9230	2563708.9931
Y26	13+42.78	-50.38	762636.6815	2563693.6708

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y27	11+44.00	45.00	763491.9088	2565381.7766
Y27	13+15.83	55.86	763628.4426	2565276.8902

REVISIONS

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
  
 GARRY L. MOORE  
 Professional Land Surveyor L-2717

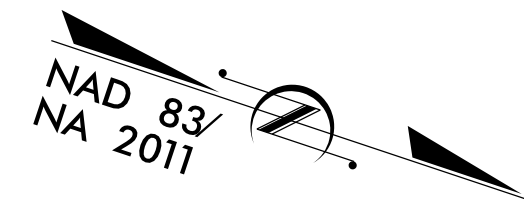
**NOTES:**

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 DEC. 2021 TO JAN. 2022.

6/2/19

-Y1-

PI Sta 18+61.44  
 $\Delta = 29^{\circ} 21' 33.3" (RT)$   
 $D = 2^{\circ} 39' 53.7"$   
 $L = 1,101.69'$   
 $T = 563.22'$   
 $R = 2,150.00'$   
 $DS = 60 \text{ MPH}$   
 $SE = 0.06 \text{ FT/FT}$



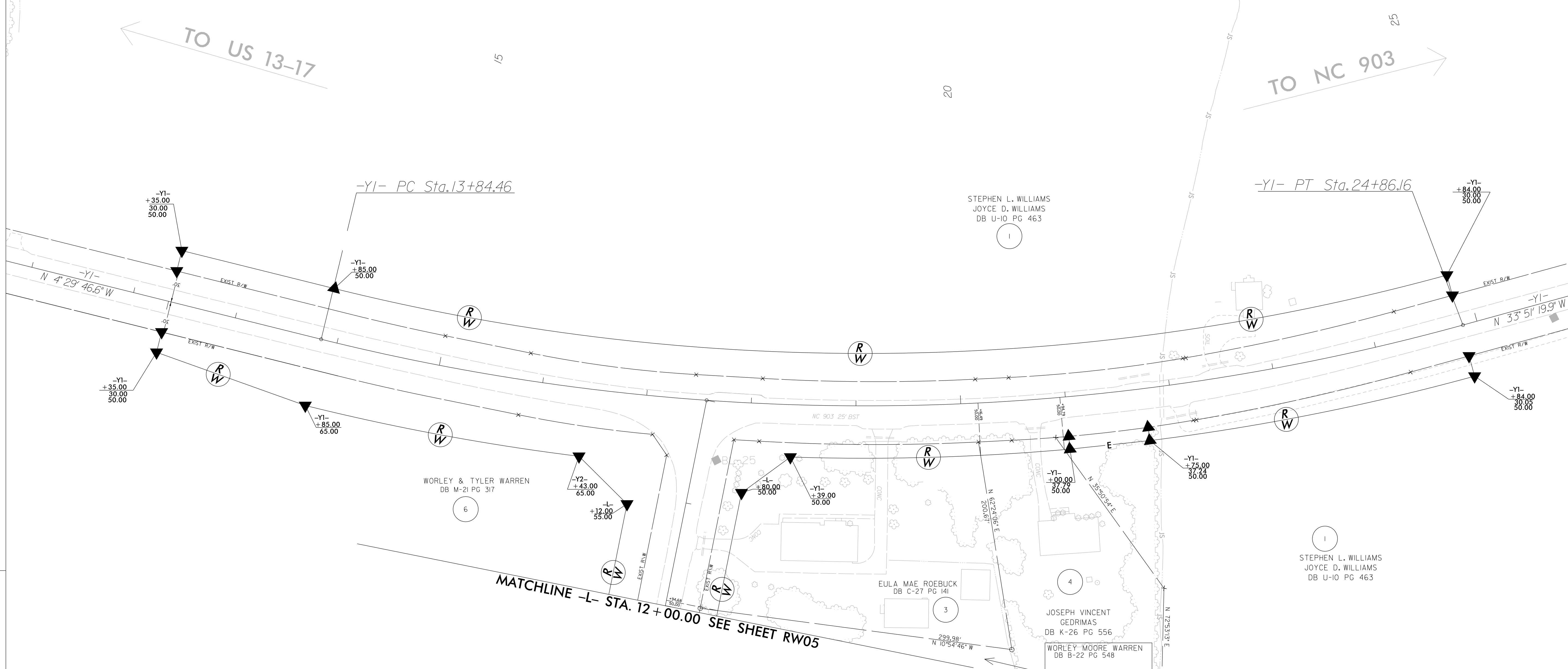
I, Garry L. Moore, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from JAN. 2022 to FEB. 2022, 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 March, 2022.

**GARRY MOORE**  
 Professional Land Surveyor L-2717

PROJECT REFERENCE NO. R-4705	SHEET NO. RW04
<b>Location and Surveys</b>	
<p>■ New Bern, North Carolina 28562          Phone: (252) 631-5115</p> <p>□ Middleboro, Kentucky 40965          Phone: (606) 248-6660</p> <p>□ Asheville, North Carolina 28806          Phone: (828) 253-2788</p> <p>□ Charlotte, North Carolina 28217          Phone: (704) 397-0488</p>	
<p>PROJECT SURVEYOR</p>	
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	

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 JAN. 2022 TO FEB. 2022.

DE: MAY 2022 16:28  
 C:\2022\200001\Prison\_Camp\_Ro\CADD\Surveys\R4705\GNNA-4705\_1.s\_r.w04.dgn  
 AT: RVA131071  
 J. Lemmons

### Location and Surveys

■ New Bern, North Carolina 28562  
 Phone: (252) 631-5115  
 □ Middleboro, Kentucky 40965  
 Phone: (606) 248-6660  
 □ Asheville, North Carolina 28806  
 Phone: (828) 253-2786  
 □ Charlotte, North Carolina 28217  
 Phone: (704) 397-0488

**V&M**  
Vaughn & Melton Consulting Engineers

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

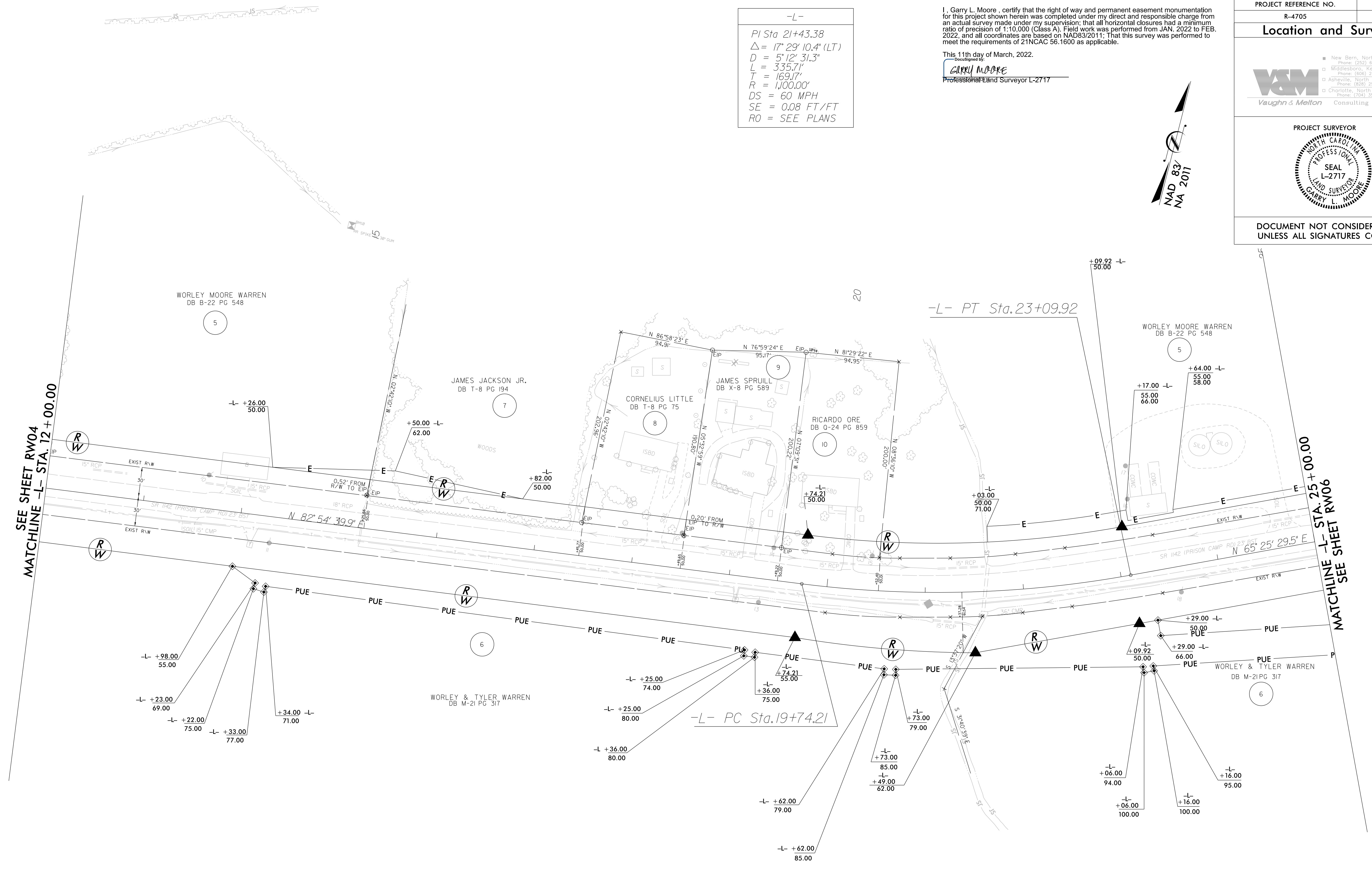
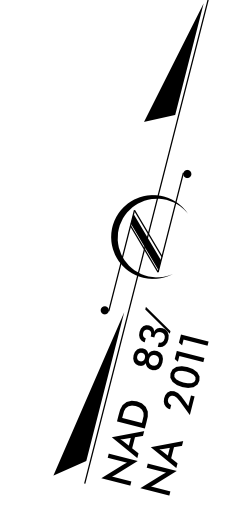
I, Garry L. Moore, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from JAN. 2022 to FEB. 2022, 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 March, 2022.

*GARRY MOORE*  
Professional Land Surveyor L-2717

-L-

PI Sta 21+43.38  
 $\Delta = 17' 29" 10.4" (LT)$   
 $D = 5' 12" 31.3"$   
 $L = 335.71'$   
 $T = 169.17'$   
 $R = 1,100.00'$   
 $DS = 60 MPH$   
 $SE = 0.08 FT/FT$   
 $RO = SEE PLANS$



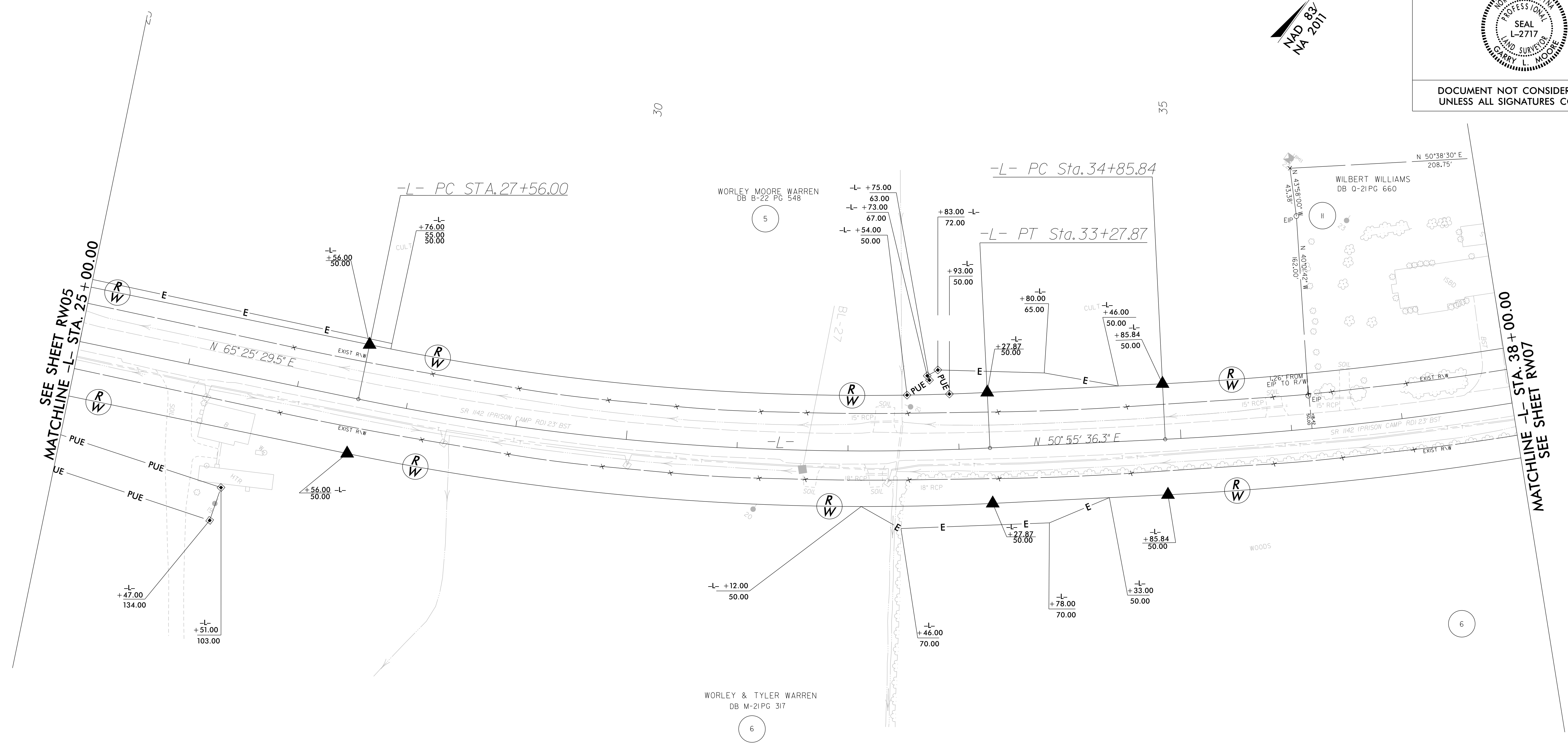
REVISIONS

### 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 JAN. 2022 TO FEB. 2022.

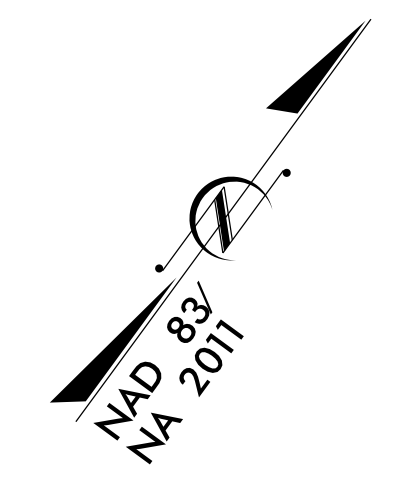
05 MAY 2022 16:28  
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 AT: RVA191071

REVISIONS



I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
 GARRY L. MOORE  
 Professional Land Surveyor L-2717



PROJECT REFERENCE NO. R-4705	SHEET NO. RW06
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2786</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
<b>PROJECT SURVEYOR</b> 	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

**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 JAN. 2022 TO FEB. 2022.

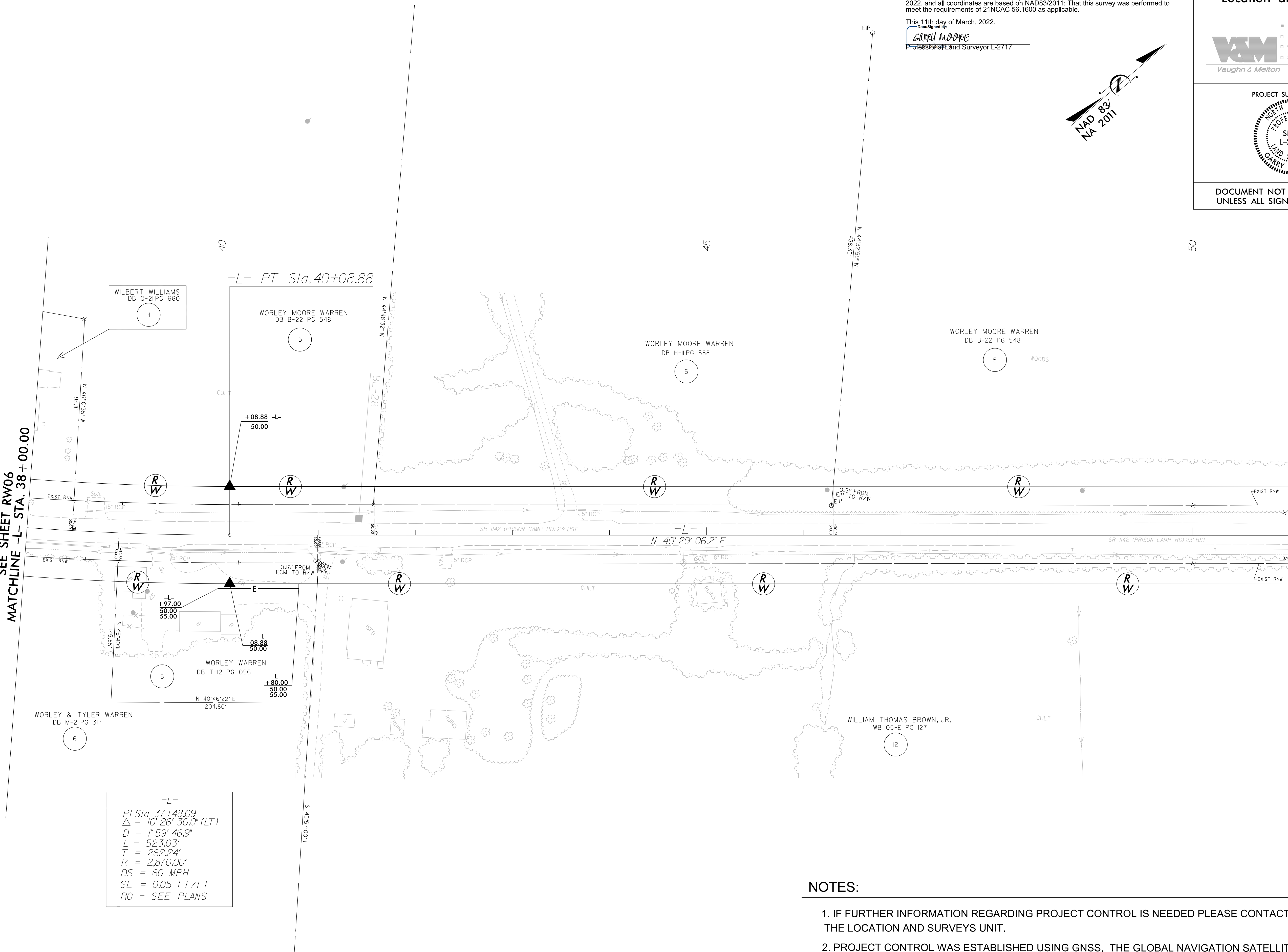
-L-	
PI Sta 30+43.47	PI Sta 37+48.09
$\Delta = 14^{\circ} 29' 53.2''$ (LT)	$\Delta = 10^{\circ} 26' 30.0''$ (LT)
$D = 2^{\circ} 32' 06.8''$	$D = 1^{\circ} 59' 46.9''$
$L = 571.87'$	$L = 523.03'$
$T = 287.47'$	$T = 262.24'$
$R = 2,260.00'$	$R = 2,870.00'$
$DS = 60$ MPH	$DS = 60$ MPH
$SE = 0.06$ FT/FT	$SE = 0.05$ FT/FT
$RO =$ SEE PLANS	$RO =$ SEE PLANS

REVISIONS

05-MAY-2022 16:28  
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jlemmons AT RVA191071

SEE SHEET RW06  
MATCHLINE -L- STA. 38 + 00.00

MATCHLINE -L- STA. 51 + 00.00  
SEE SHEET RW08



-L-
PI Sta 37+48.09
$\Delta = 10' 26' 30.0''$ (LT)
D = 1' 59' 46.9"
L = 523.03'
T = 262.24'
R = 2,870.00'
DS = 60 MPH
SE = 0.05 FT/FT
RO = SEE PLANS

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
 GARRY L. MOORE  
 Professional Land Surveyor L-2717



PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW07
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middlesboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2786</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
<b>V&amp;M</b> Vaughn & Melton Consulting Engineers	

PROJECT SURVEYOR

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



**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 JAN. 2022 TO FEB. 2022.

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
GARRY MOORE  
Professional Land Surveyor L-2717

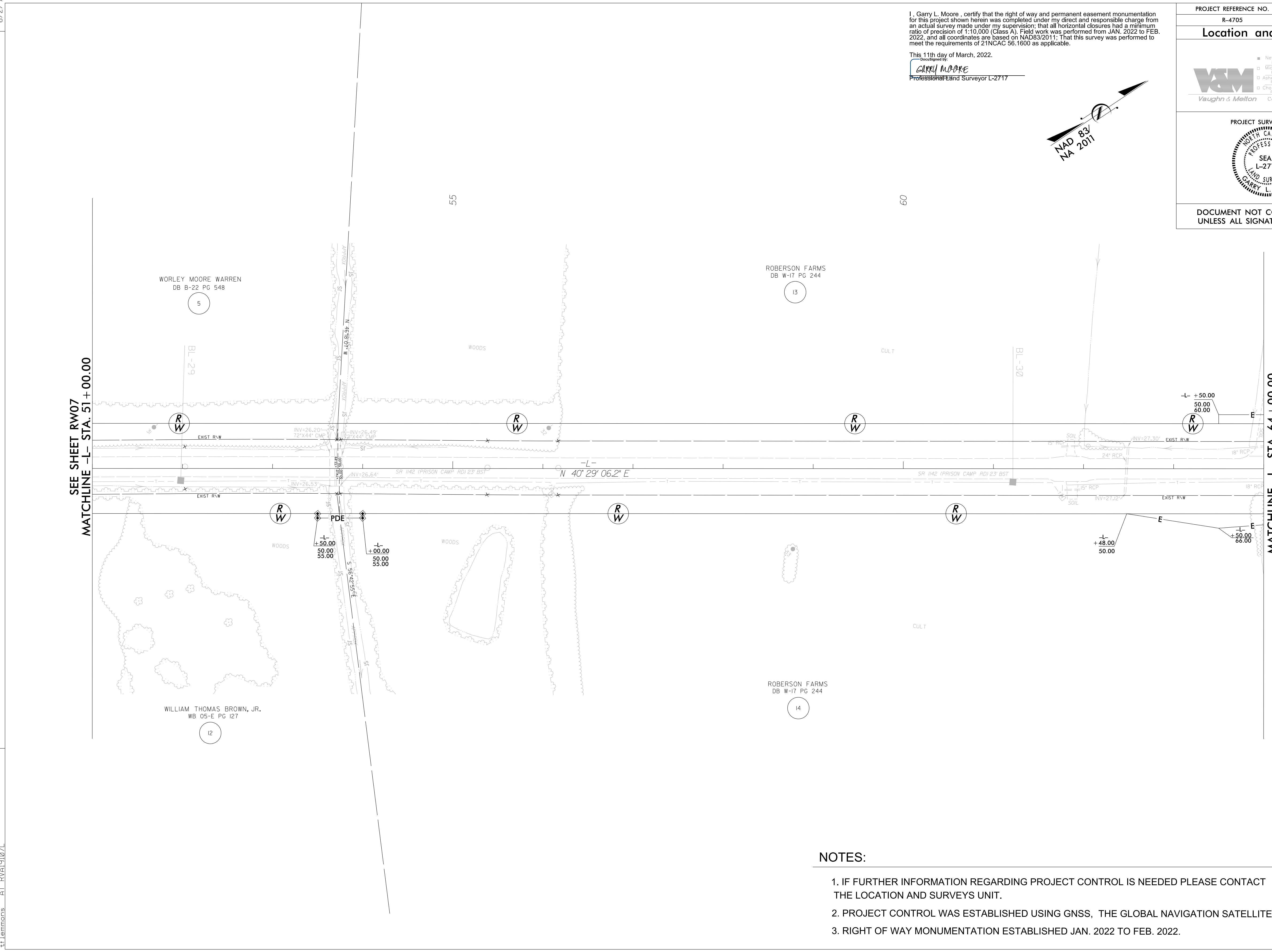


PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW08
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2788</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

SEE SHEET RW07  
MATCHLINE -L- STA. 51 + 00.00


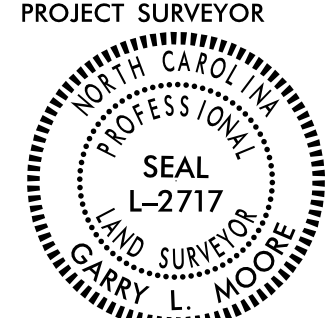
MATCHLINE -L- STA. 64 + 00.00  
SEE SHEET RW09



**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 JAN. 2022 TO FEB. 2022.

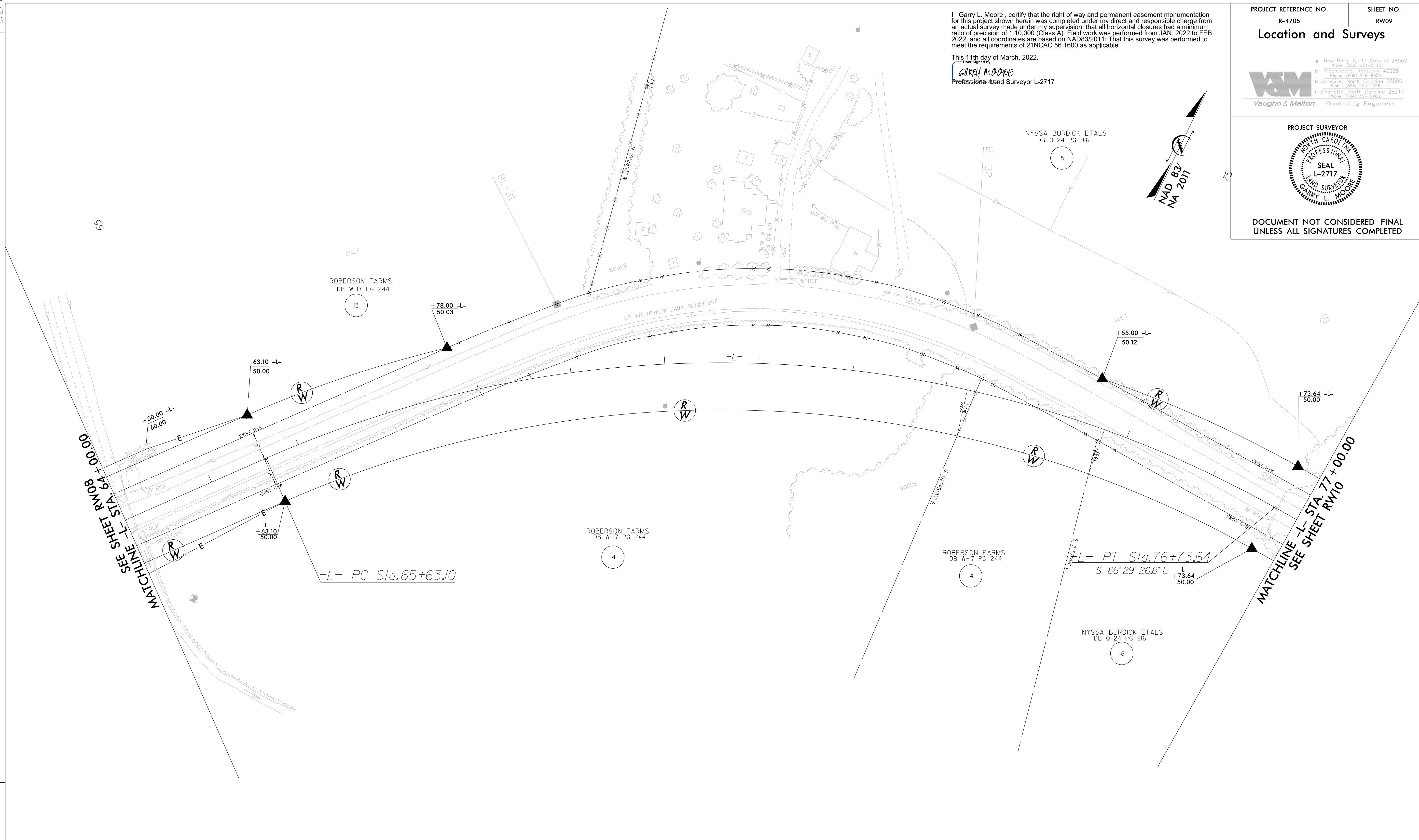
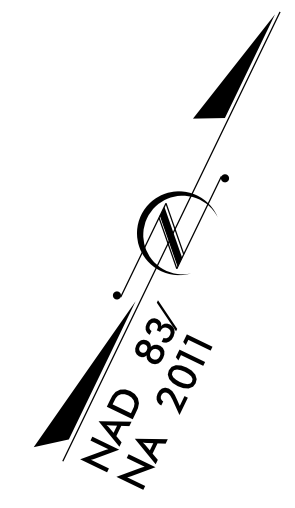
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Garry.L.Moore

PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW09
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2788</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
	
<b>PROJECT SURVEYOR</b> 	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.

GARRY MOORE  
Professional Land Surveyor L-2717



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 JAN. 2022 TO FEB. 2022.

-L-
PI Sta 71+61.72 $\Delta = 53^{\circ} 01' 27.0''$ (RT) $D = 4' 46' 28.7''$ $L = 1,110.54'$ $T = 598.61'$ $R = 1,200.00'$ $DS = 60$ MPH $SE = 0.08$ FT/FT $RO =$ SEE PLANS

05-MAY-2022 16:28  
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 Garry.L.Moore





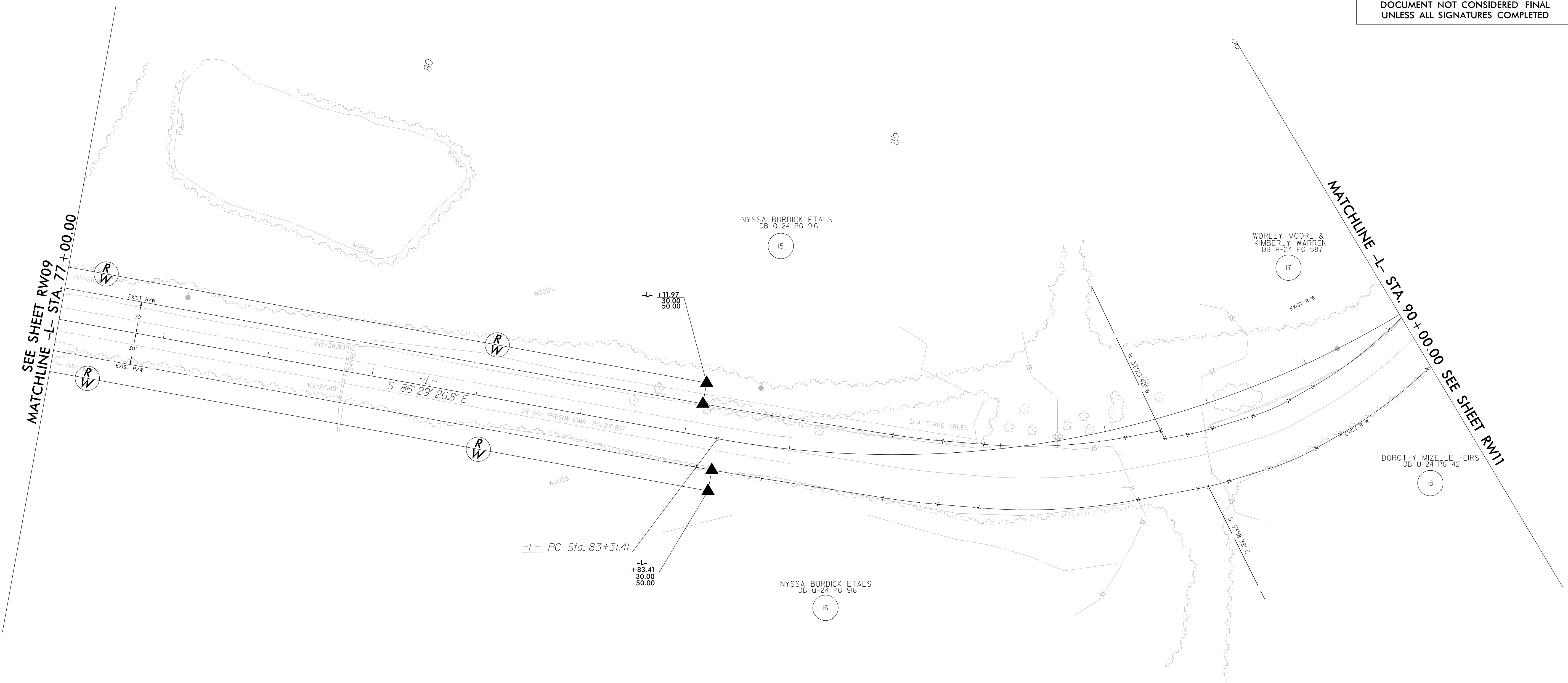
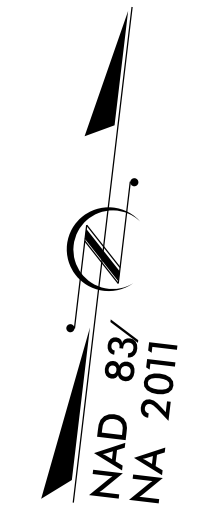
REVISIONS

05-MAY-2022 16:26  
C:\Users\jlemmons\OneDrive\Documents\Projects\4705\Drawings\4705-RW1.dgn  
jlemmons

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
GARRY MOORE  
Professional Land Surveyor L-2717


PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW10
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2786</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**NOTES:**

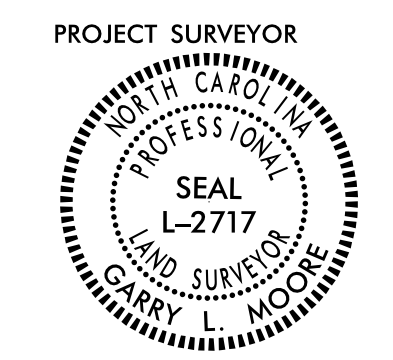
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED JAN. 2022 TO FEB. 2022.

-L-
PI Sta 88+17.79
$\Delta = 55^{\circ} 13' 06.4''$ (LT)
D = 6' 09" 39.0"
L = 896.28'
T = 486.38'
R = 930.00'
DS = 50 MPH
SE = 0.08 FT/FT
RO = SEE PLANS

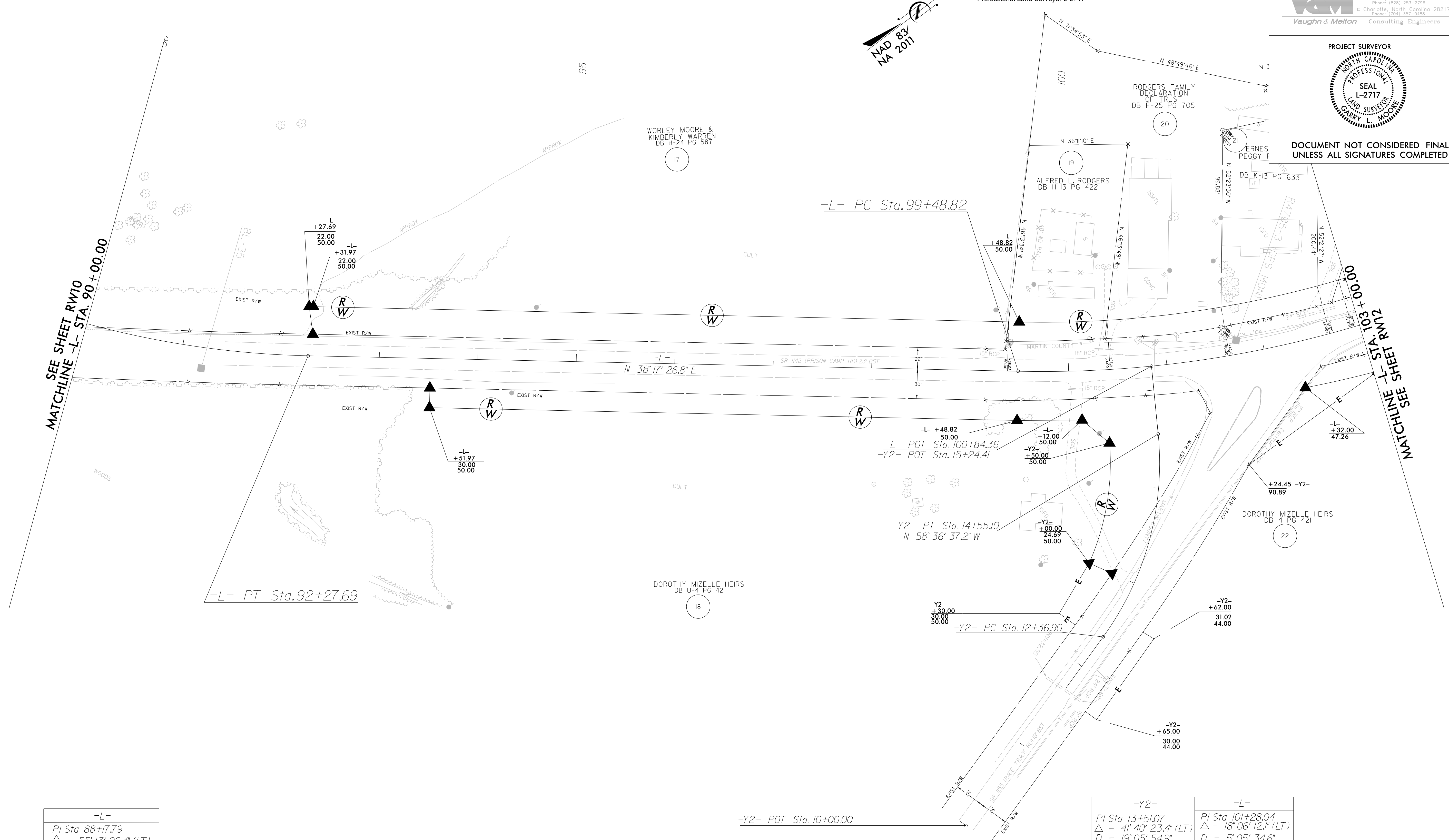
PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW11
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2788</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
	

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
 GARRY L. MOORE  
 Professional Land Surveyor L-2717



DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED



SEE SHEET RW10  
MATCHLINE -L- STA. 90+00.00

MATCHLINE SHEET RW12  
-L- STA. 103+10.00

-L-
PI Sta 88+17.79
$\Delta = 55^{\circ}13'06.4''$ (LT)
$D = 6^{\circ}09'39.0''$
$L = 896.28'$
$T = 486.38'$
$R = 930.00'$
DS = 50 MPH
SE = 0.08 FT/FT
RO = SEE PLANS


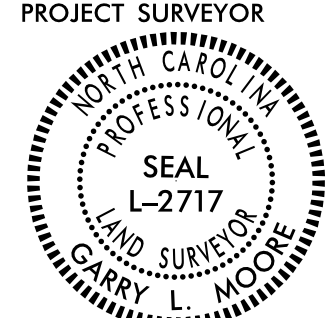
-Y2-	-L-
PI Sta 13+51.07	PI Sta 101+28.04
$\Delta = 41^{\circ}40'23.4''$ (LT)	$\Delta = 18^{\circ}06'12.1''$ (LT)
$D = 19^{\circ}05'54.9''$	$D = 5^{\circ}05'34.6''$
$L = 218.20'$	$L = 355.46'$
$T = 114.18'$	$T = 179.22'$
$R = 300.00'$	$R = 1,125.00'$
DS = 60 MPH	DS = 55 MPH
SE = 0.08 FT/FT	SE = 0.08 FT/FT
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 JAN. 2022 TO FEB. 2022.

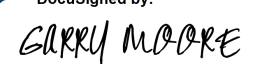
REVISIONS

05-MAY-2022 16:51:26  
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 jlemmons  
 AT - RVA131071

PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW12
<b>Location and Surveys</b>	
<p> <input type="checkbox"/> New Bern, North Carolina 28562          Phone: (252) 631-5115  <input type="checkbox"/> Middleboro, Kentucky 40965          Phone: (606) 248-6660  <input type="checkbox"/> Asheville, North Carolina 28806          Phone: (828) 253-2798  <input type="checkbox"/> Charlotte, North Carolina 28217          Phone: (704) 397-0488       </p>	
	
<p>PROJECT SURVEYOR</p> 	
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	

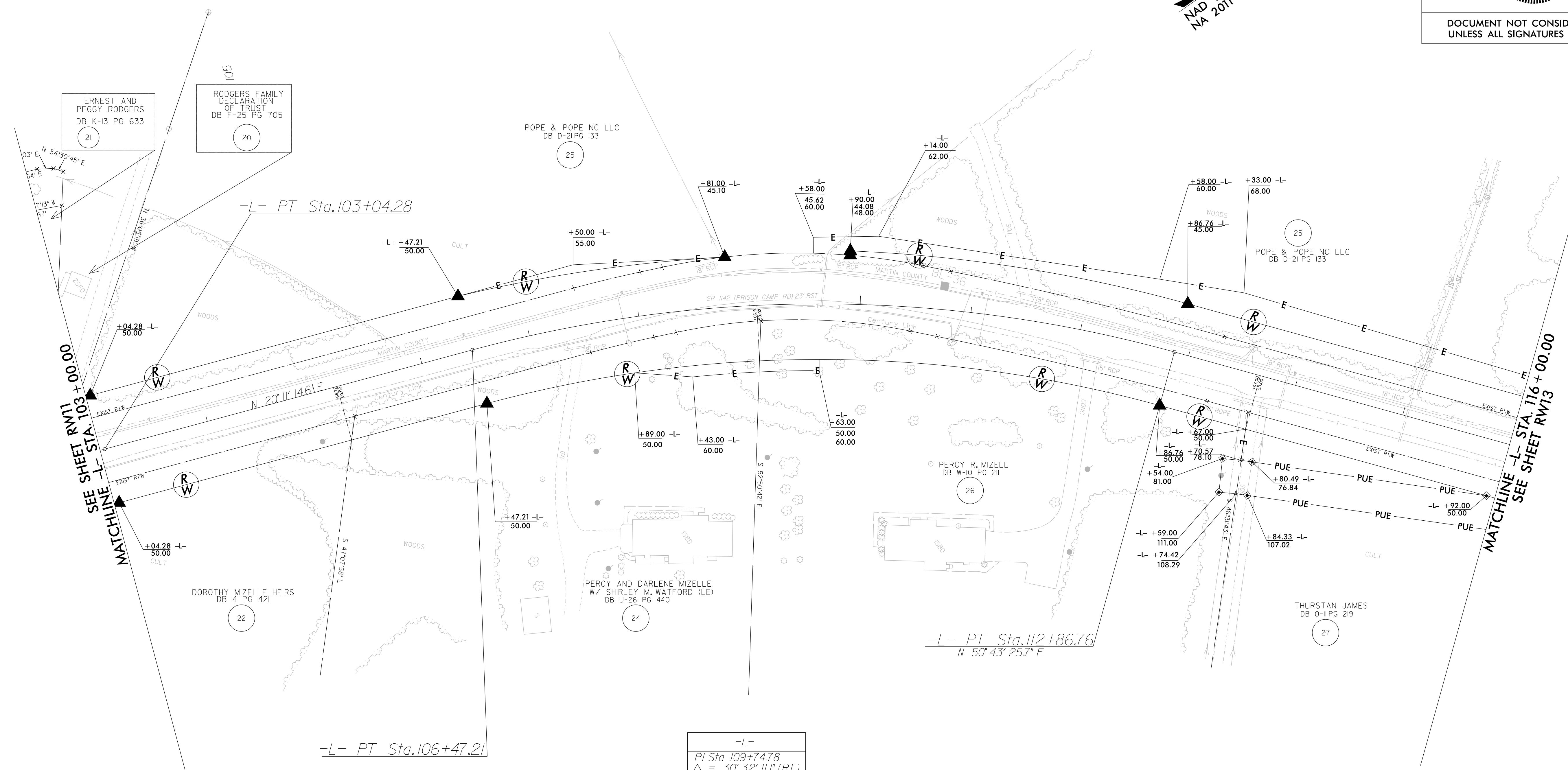
I, Garry L. Moore, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from JAN. 2022 to FEB. 2022, 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 March, 2022.

  
 GARRY L. MOORE  
 Professional Land Surveyor L-2717



REVISIONS



-L-
PI Sta 109+74.78
$\Delta = 30^{\circ} 32' 11.1''$ (RT)
$D = 4^{\circ} 46' 28.7''$
$L = 639.55'$
$T = 327.57'$
$R = 1,200.00'$
$DS = 60$ MPH
$SE = 0.08$ FT/FT
$RO =$ SEE PLANS


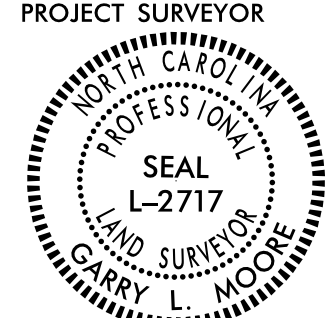
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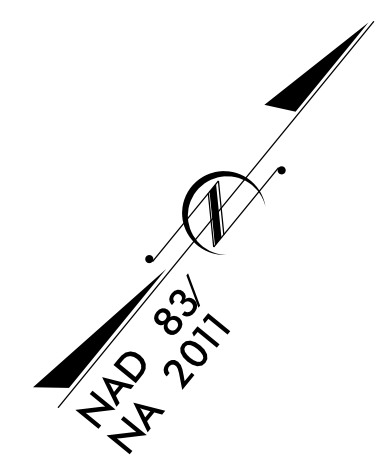
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED JAN. 2022 TO FEB. 2022.

05-MAY-2022 16:26  
 C:\Users\jlemmons\OneDrive\Documents\Projects\Prison\_Camp\_R4705\Prison\_Camp\_R4705.DGN~4705\_1\_s\_rw12.dgn  
 jlemmons AT RVA131071

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
GARRY MOORE  
Professional Land Surveyor L-2717

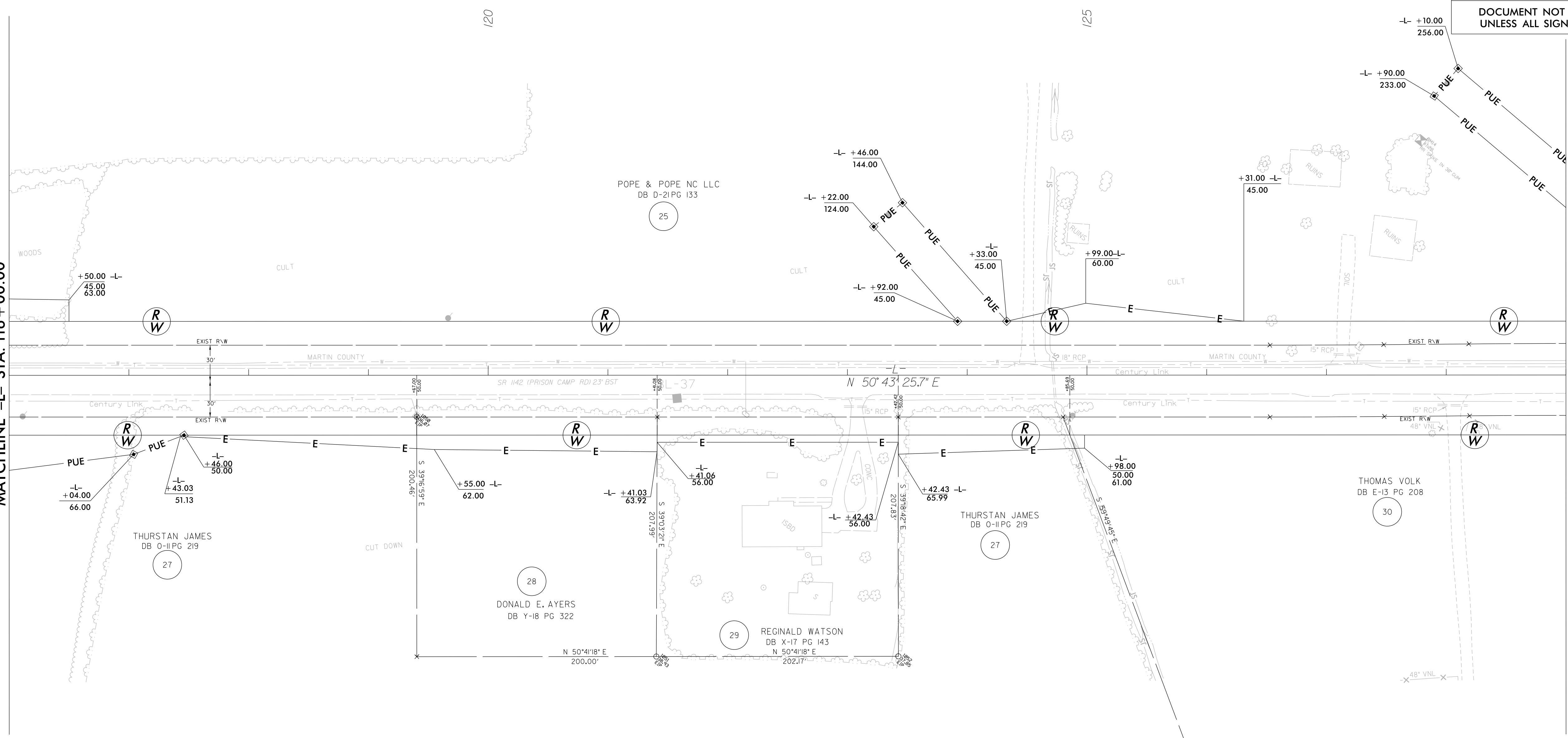
PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW13
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middlesboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2786</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
	
PROJECT SURVEYOR 	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



REVISIONS

SEE SHEET RW12  
MATCHLINE -L- STA. 116 + 00.00

MATCHLINE -L- STA. 129 + 00.00  
SEE SHEET RW14




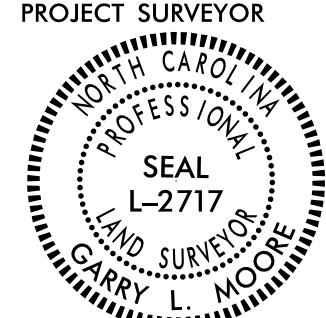
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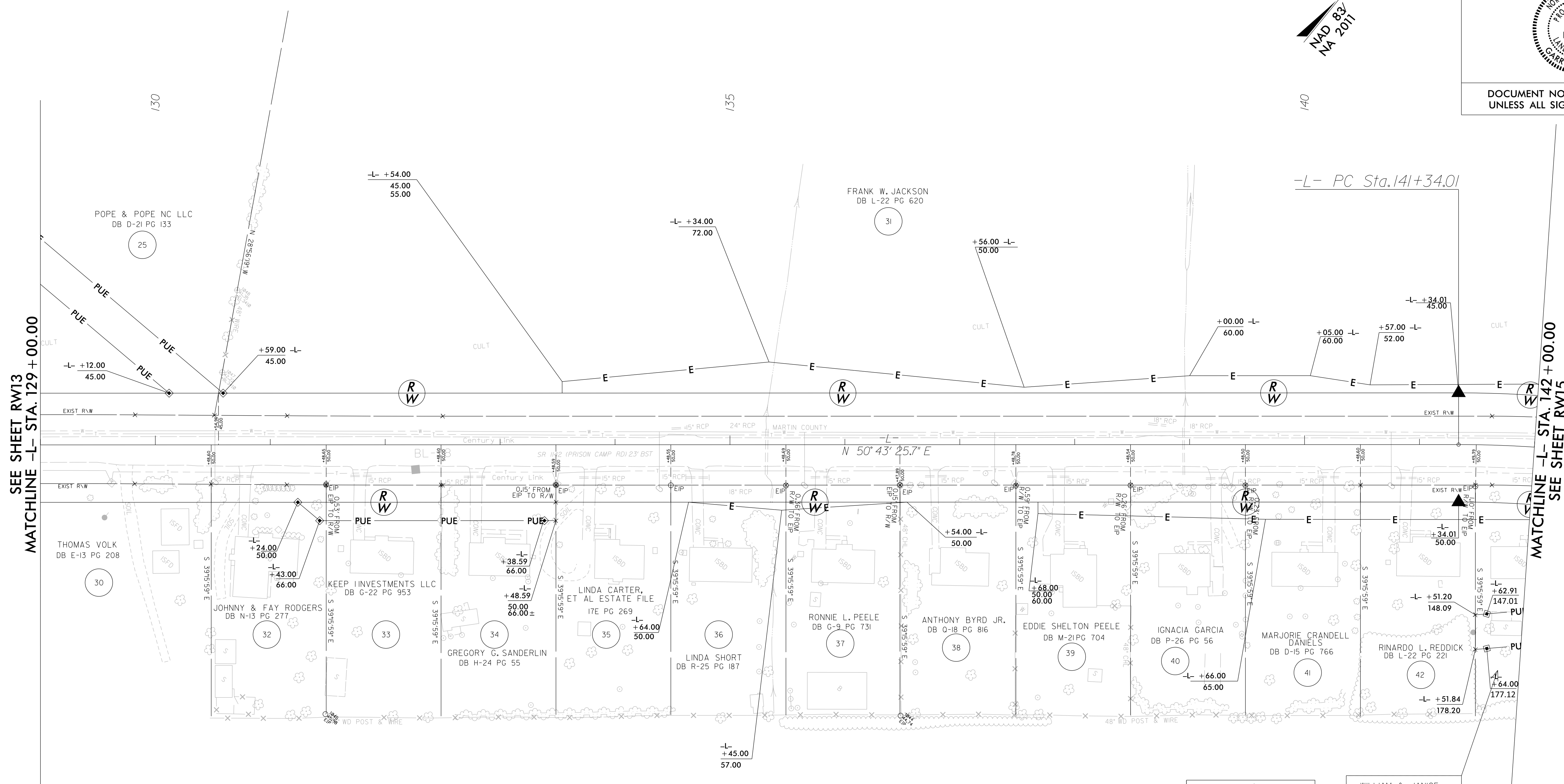
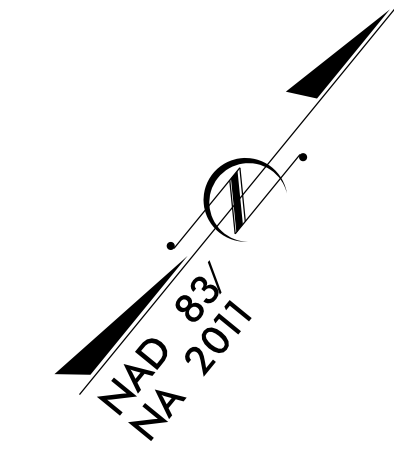
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED JAN. 2022 TO FEB. 2022.

05 MAY 2022 16:26  
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AT - RVA131071  
lemmons

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
GARRY MOORE  
Professional Land Surveyor L-2717

PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW14
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2786</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-L-

$PI\ Sta\ 142+90.34$   
 $\Delta = 18' 13' 05.1'' (RT)$   
 $D = 5' 52' 35.4''$   
 $L = 310.02'$   
 $T = 156.33'$   
 $R = 975.00'$   
 $DS = 55\ MPH$   
 $SE = 0.08\ FT/FT$   
 $RO = SEE\ PLANS$

WILLIAM & JANICE  
G. SWAIN  
DB E-26 PG 141  
43

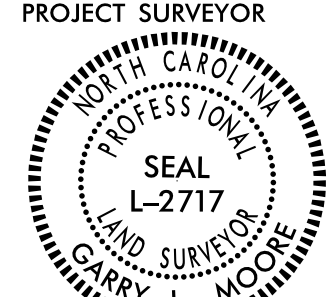
**NOTES:**

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 JAN. 2022 TO FEB. 2022.

REVISIONS

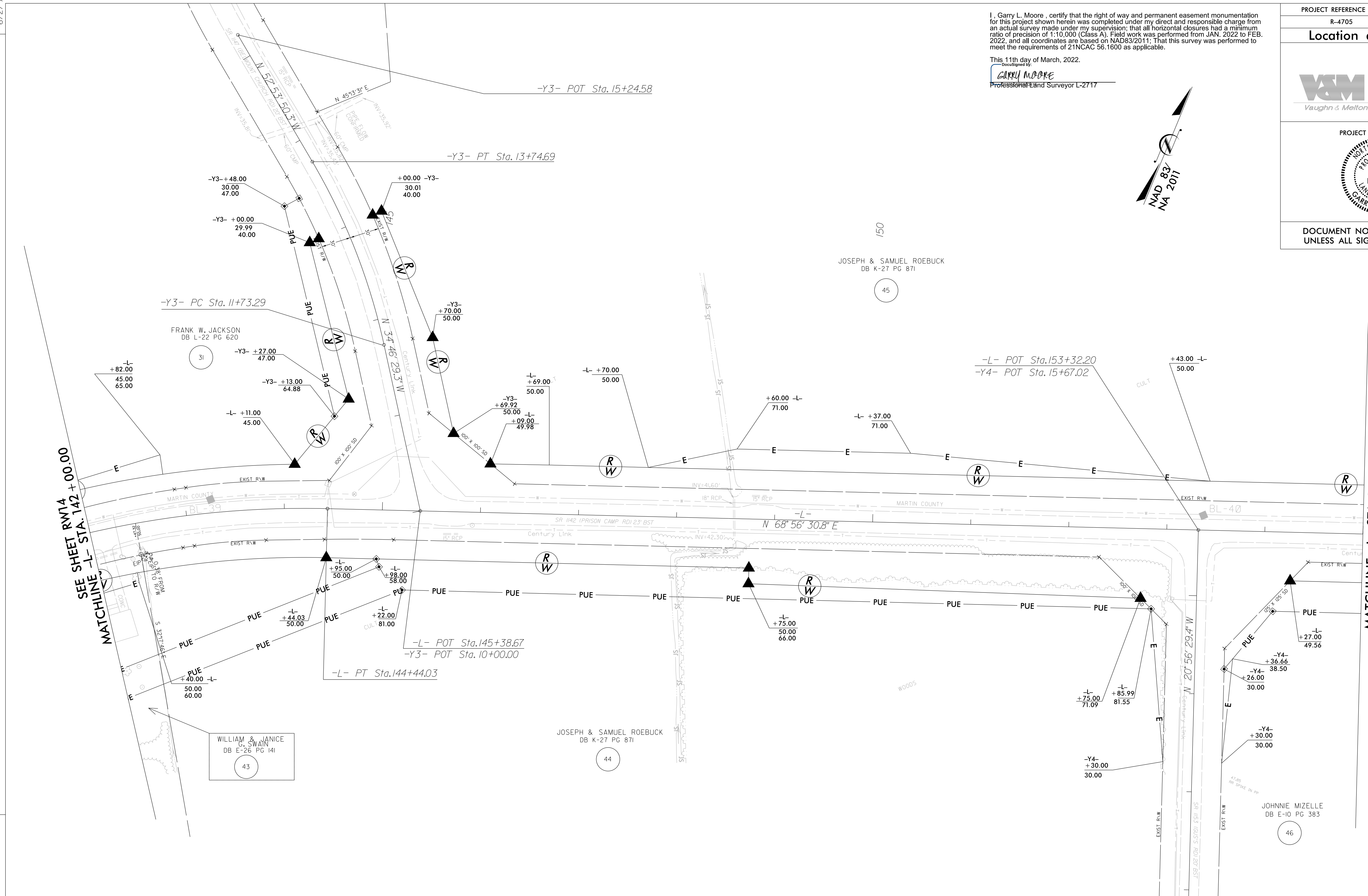
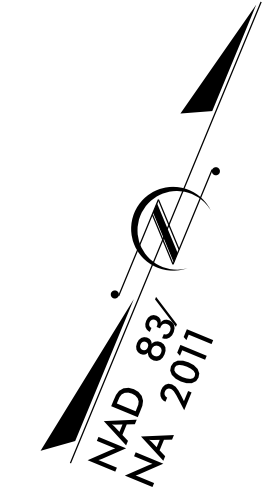
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6/2/19

PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW15
<b>Location and Surveys</b>	
<p>■ New Bern, North Carolina 28562                  Phone: (252) 631-5115                  □ Middleboro, Kentucky 40965                  Phone: (606) 248-6660                  □ Asheville, North Carolina 28806                  Phone: (828) 253-2788                  □ Charlotte, North Carolina 28217                  Phone: (704) 397-0488</p> <p><b>V&amp;M</b>                  Vaughn &amp; Melton                  Consulting Engineers</p>	
PROJECT SURVEYOR  GARRY L. MOORE Professional Land Surveyor L-2717	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
 GARRY MOORE  
 Professional Land Surveyor L-2717



REVISIONS

MATCHLINE -L- STA. 142 + 00.00  
SEE SHEET RW14

MATCHLINE -L- STA. 155 + 00.00  
SEE SHEET RW16

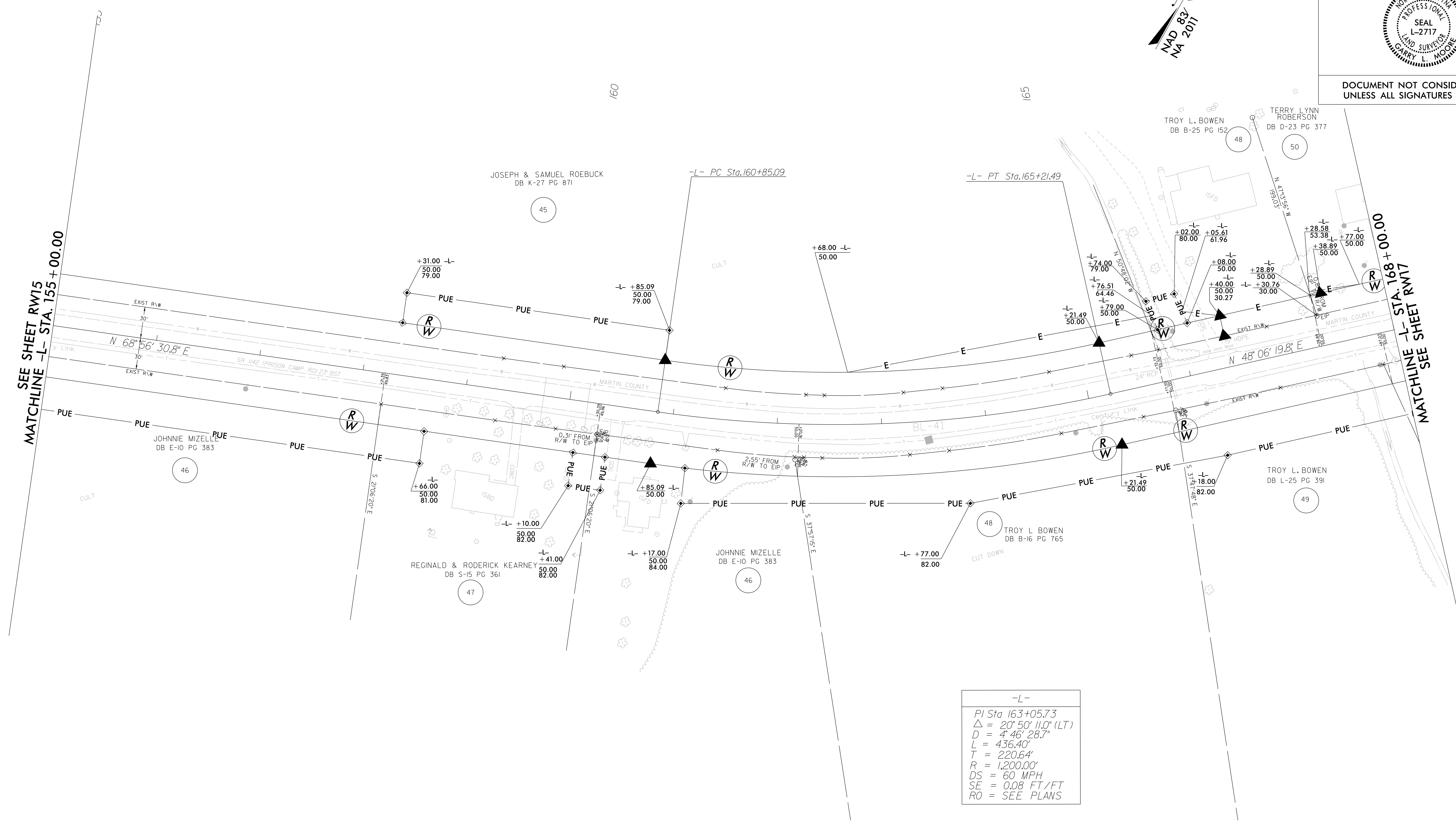
-Y3-	-L-
PI Sta 12+74.84	PI Sta 142+90.34
$\Delta = 18^{\circ} 07' 35.4''$ (LT)	$\Delta = 18^{\circ} 13' 05.1''$ (RT)
$D = 9^{\circ} 00' 00.0''$	$D = 5^{\circ} 52' 35.4''$
$L = 201.41'$	$L = 310.02'$
$T = 101.55'$	$T = 156.33'$
$R = 636.62'$	$R = 975.00'$
$DS = 60\text{MPH}$	$DS = 55\text{ MPH}$
$SE = 0.08\text{ FT/FT}$	$SE = 0.08\text{ FT/FT}$
$RO = \text{SEE PLANS}$	$RO = \text{SEE PLANS}$

**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 JAN. 2022 TO FEB. 2022.

DE: MAY 2022 16:26  
 OS: 2022 05 22 00:01  
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 T: Lemmons AT: RVA131071

REVISIONS

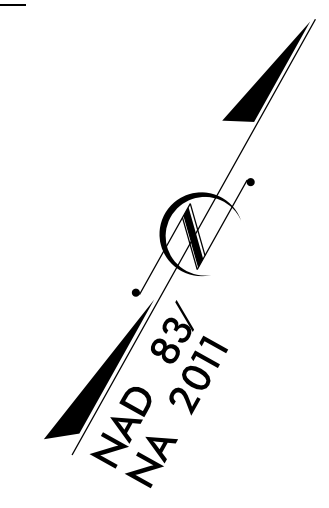



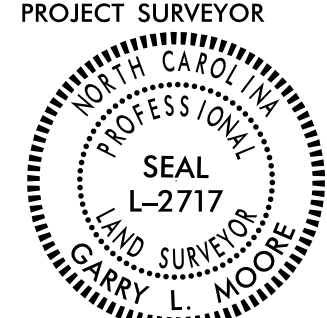
-L-

PI Sta 163+05.73  
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 $D = 4' 46' 28.7''$   
 $L = 436.40'$   
 $T = 220.64'$   
 $R = 1,200.00'$   
 $DS = 60$  MPH  
 $SE = 0.08$  FT/FT  
 $RO =$  SEE PLANS

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
 GARRY MOORE  
 Professional Land Surveyor L-2717



PROJECT REFERENCE NO. R-4705	SHEET NO. RW16
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2788</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

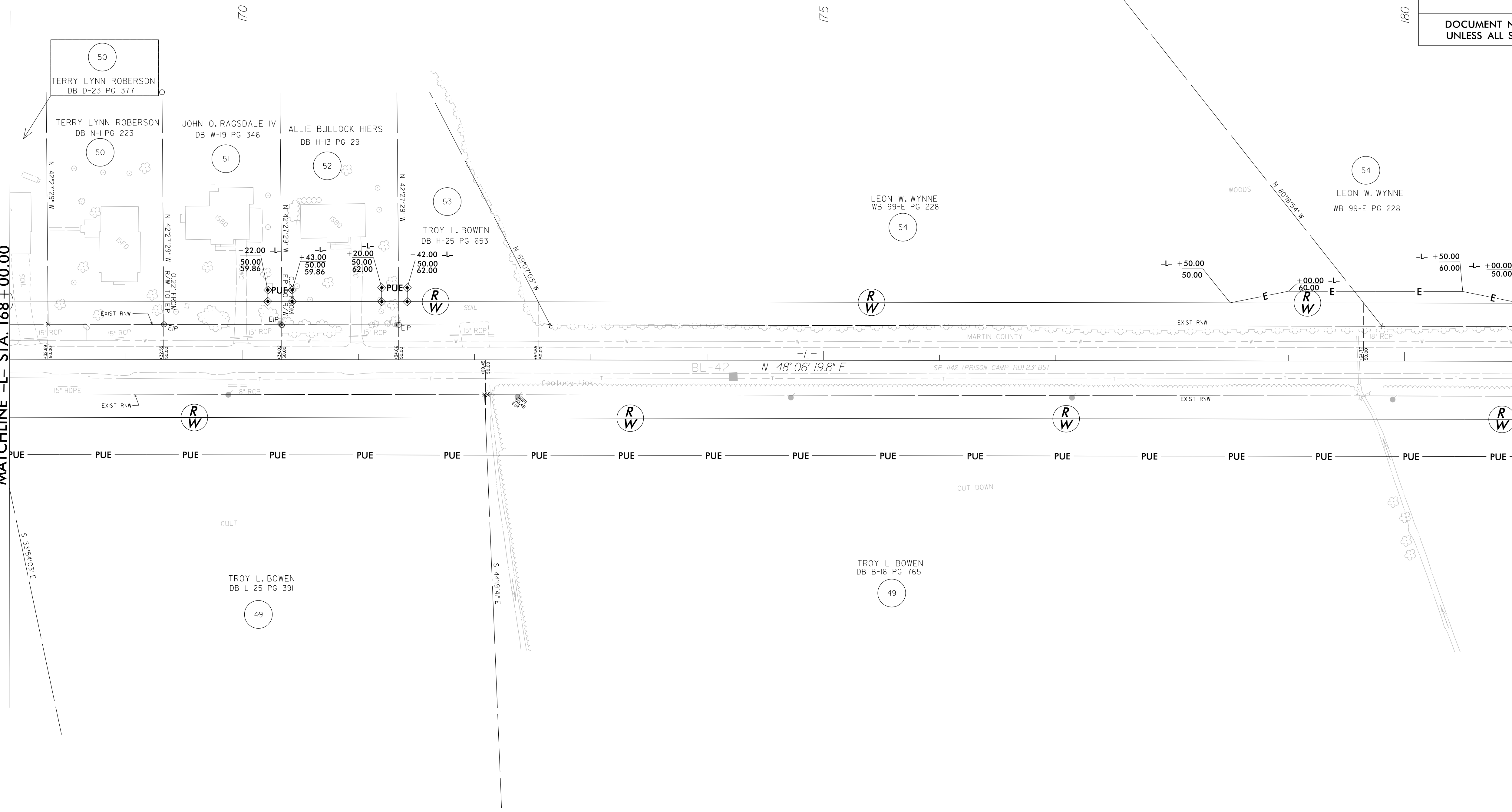
**NOTES:**

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 JAN. 2022 TO FEB. 2022.

REVISIONS

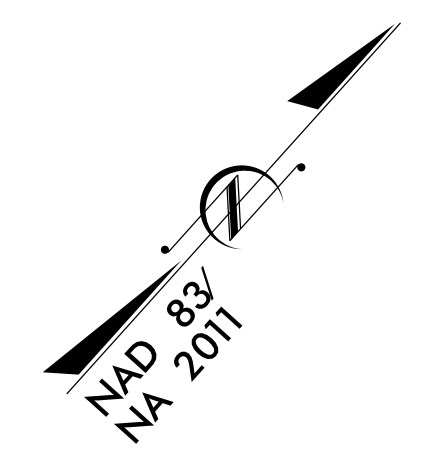
SEE SHEET RW16  
MATCHLINE -L- STA. 168 + 00.00

MATCHLINE -L- STA. 181 + 00.00  
SEE SHEET RW18



I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
**GARRY L. MOORE**  
 Professional Land Surveyor L-2717



PROJECT REFERENCE NO. R-4705	SHEET NO. RW17
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2786</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
<b>PROJECT SURVEYOR</b> 	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

**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 JAN. 2022 TO FEB. 2022.



### Location and Surveys

■ New Bern, North Carolina 28562  
 Phone: (252) 631-5115  
 □ Middleboro, Kentucky 40965  
 Phone: (606) 248-6660  
 □ Asheville, North Carolina 28806  
 Phone: (828) 253-2786  
 □ Charlotte, North Carolina 28217  
 Phone: (704) 397-0488

**V&M**  
Vaughn & Melton  
Consulting Engineers

PROJECT SURVEYOR

**GARRY L. MOORE**  
PROFESSIONAL LAND SURVEYOR  
SEAL L-2717  
NORTH CAROLINA

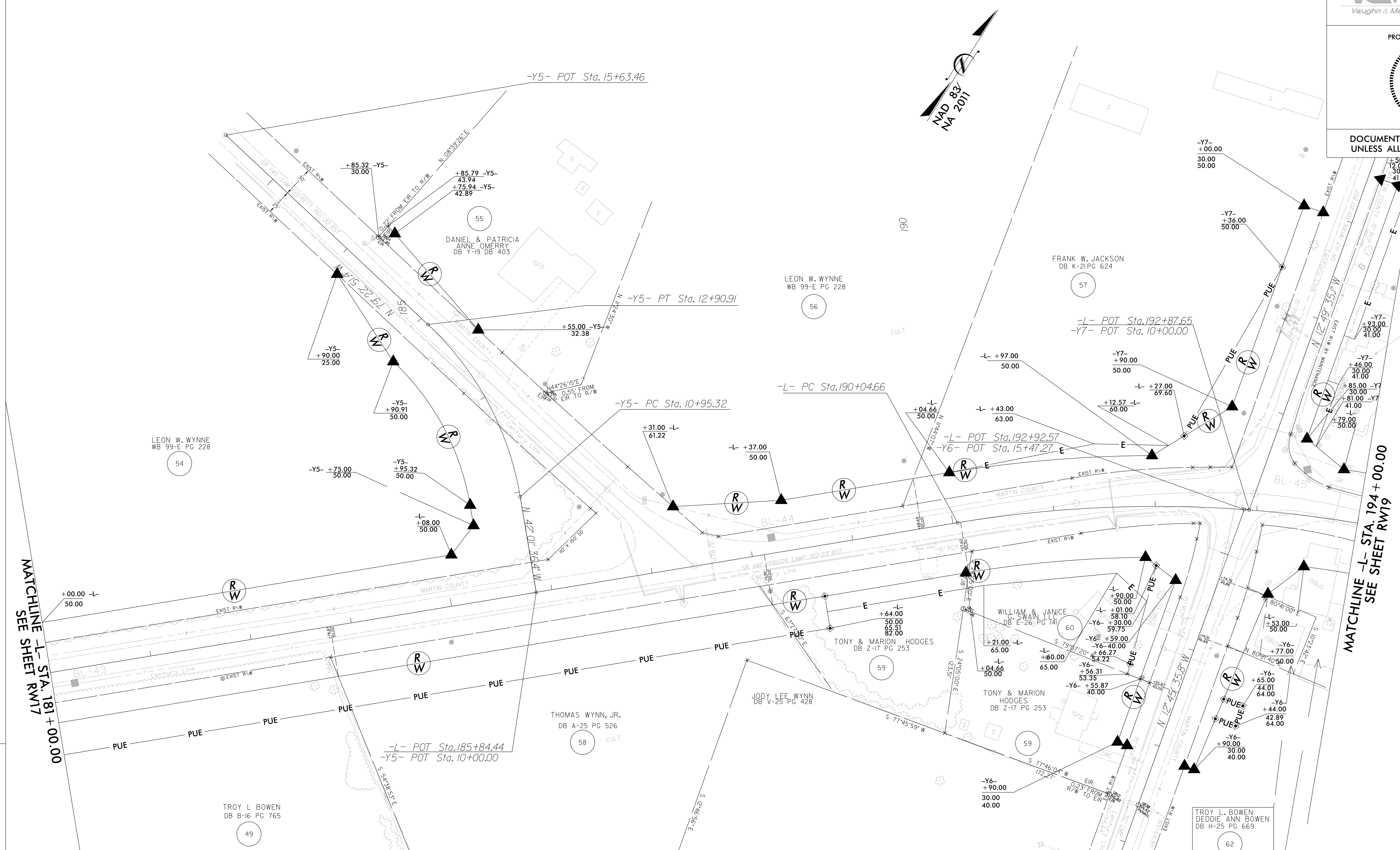
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NAC 56.1600 as applicable.

This 11th day of March, 2022.

**GARRY MOORE**  
Professional Land Surveyor L-2717

REVISIONS




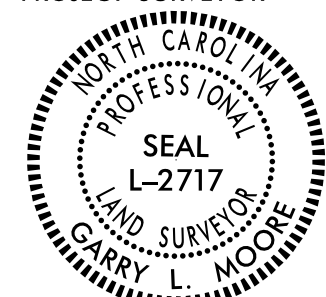
-Y5-	-L-
PI Sta 11+96.74	PI Sta 193+05.11
$\Delta = 37^{\circ} 21' 15.0''$ (LT)	$\Delta = 28^{\circ} 06' 47.7''$ (RT)
D = 19' 05" 54.9"	D = 4' 46" 28.7"
L = 195.59'	L = 588.80'
T = 101.41'	T = 300.45'
R = 300.00'	R = 1200.00'
DS = 60 MPH	DS = 60 MPH
SE = 0.08 FT/FT	SE = 0.08 FT/FT
RO = SEE PLANS	RO = 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 JAN. 2022 TO FEB. 2022.

05-MAY-2022 16:12:00  
 C:\Users\Garry.L.Moore\OneDrive\Documents\Projects\R4705\Prison\_Camp\_Ro\CAD\Drawings\R4705\DWG\N-4705.rvt  
 Garry.L.Moore

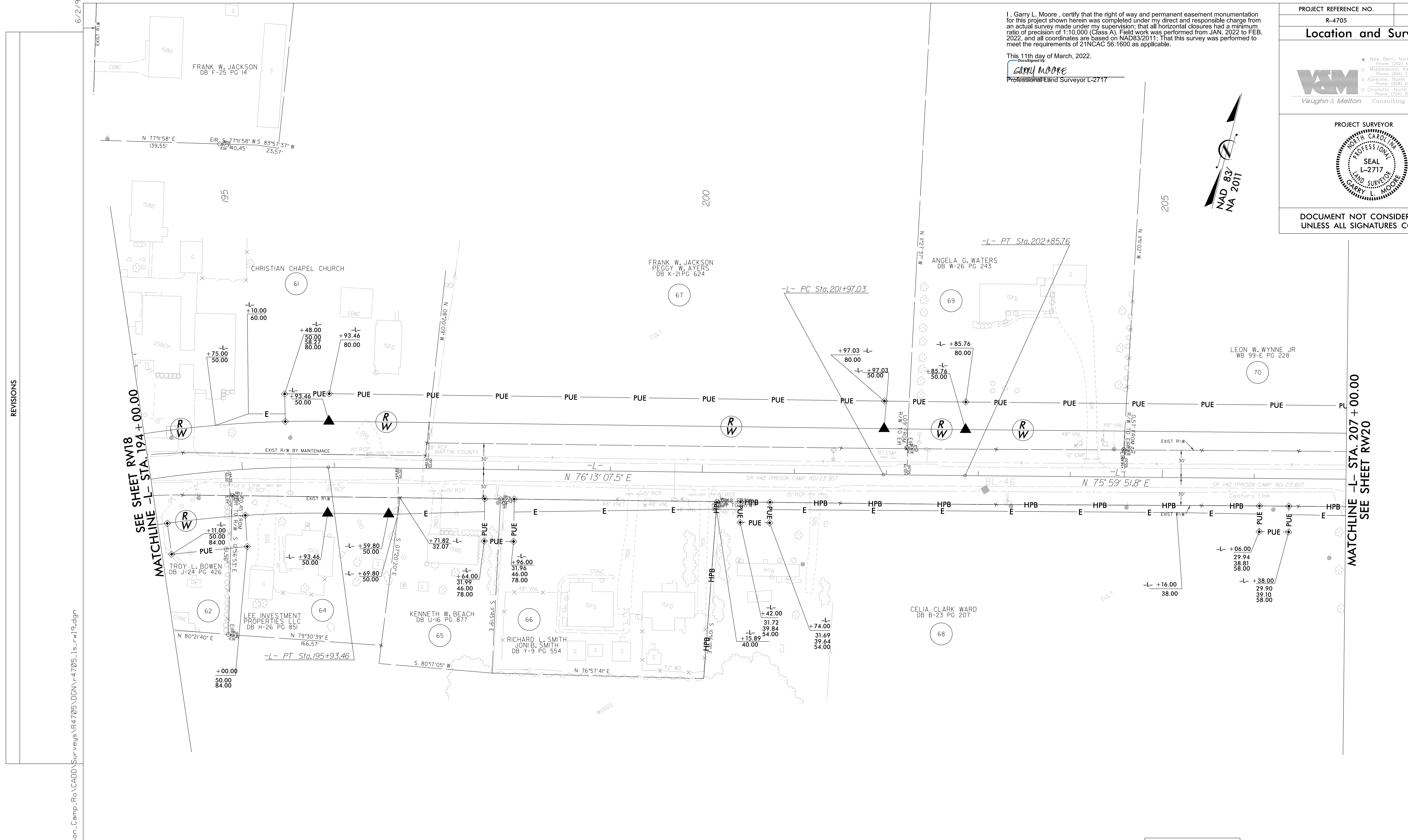
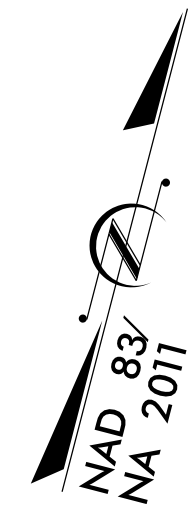
6/2/19

PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW19
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2788</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.

GARRY L. MOORE  
Professional Land Surveyor L-2717



REVISIONS

SEE SHEET RW18  
MATCHLINE -L- STA. 194+00.00

MATCHLINE -L- STA. 207+00.00  
SEE SHEET RW20

**NOTES:**


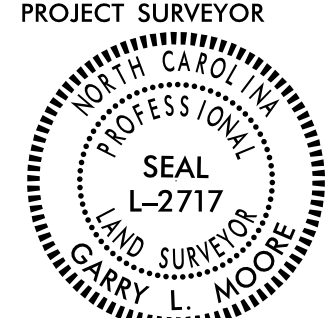
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED JAN. 2022 TO FEB. 2022.

-L-

PI Sta 202+41.40  
 $\Delta = 0^{\circ} 13' 15.7''$  (LT)  
 $D = 0^{\circ} 14' 56.8''$   
 $L = 88.73'$   
 $T = 44.36'$   
 $R = 23,000.00'$   
 $DS = 60$  MPH  
 $SE = NC$   
 $RO = SEE PLANS$

05-MAY-2022 16:26  
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 T:\lemmons

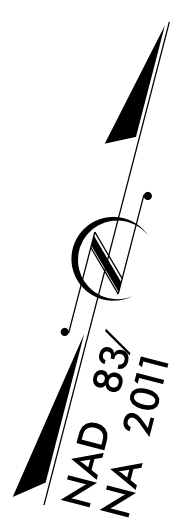


PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW21
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2786</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
	
<b>PROJECT SURVEYOR</b> 	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

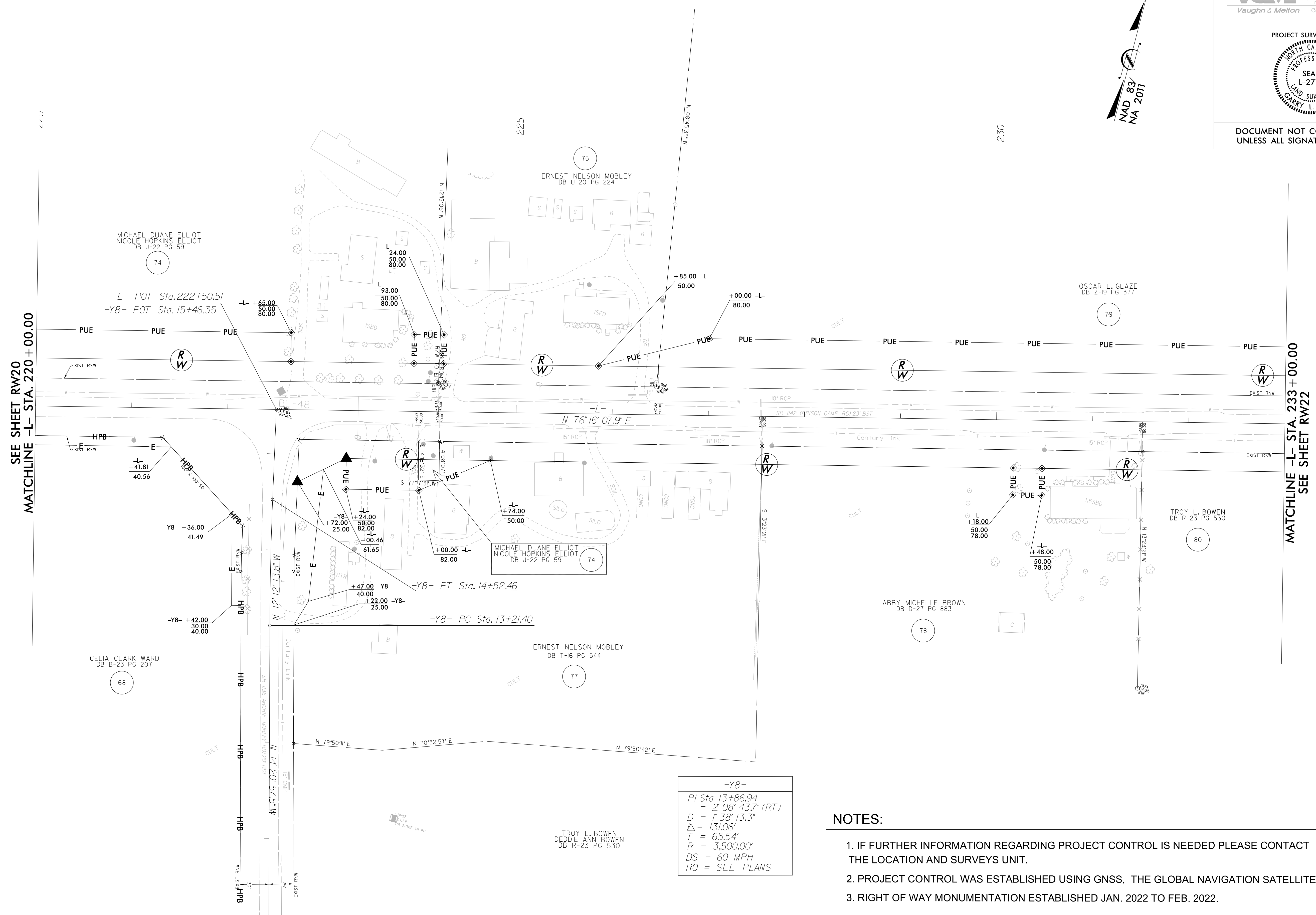
I, Garry L. Moore, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from JAN. 2022 to FEB. 2022, 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 March, 2022.

*GARRY MOORE*  
 Professional Land Surveyor L-2717



REVISIONS



SEE SHEET RW20  
MATCHLINE -L- STA. 220+00.00

MATCHLINE -L- STA. 233+00.00  
SEE SHEET RW22

-Y8-
PI Sta. 13+86.94
= 2' 08" 43.7" (RT)
D = 1' 38" 13.3"
Δ = 131.06'
T = 65.54'
R = 3,500.00'
DS = 60 MPH
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 JAN. 2022 TO FEB. 2022.

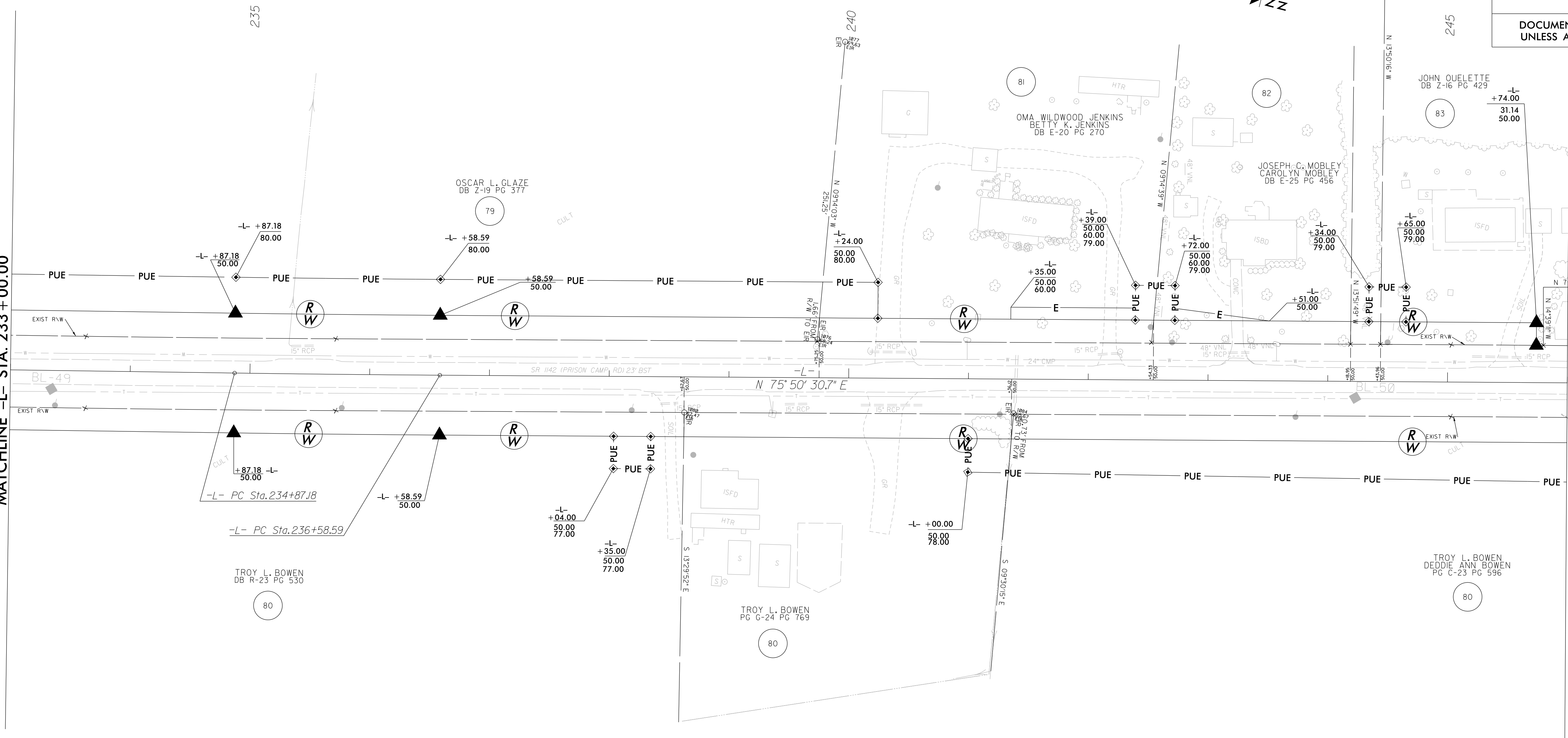
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 AT: RVA191071

05-MAY-2022 16:28  
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TJ Lemmons AT-RVA191071

REVISIONS

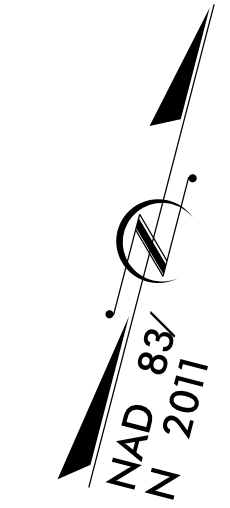
SEE SHEET RW21  
MATCHLINE -L- STA. 233 + 00.00

MATCHLINE -L- STA. 246 + 00.00  
SEE SHEET RW23



I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
 GARRY L. MOORE  
 Professional Land Surveyor L-2717



PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW22
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2788</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	

PROJECT SURVEYOR

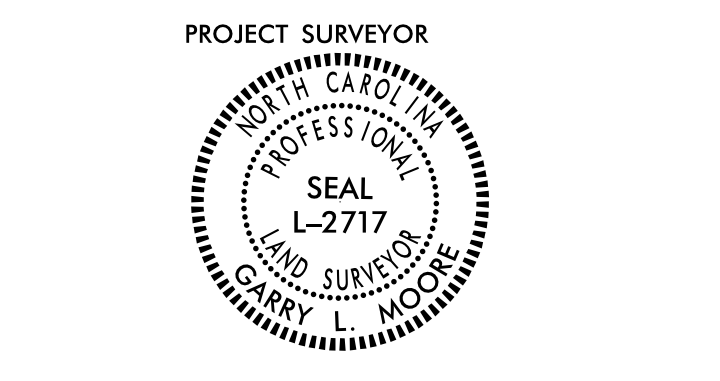
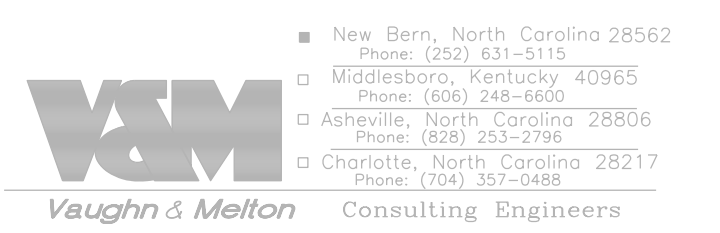
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**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 JAN. 2022 TO FEB. 2022.

-L-
PI Sta 235+72.88
Δ = 0° 25' 37.2" (LT)
D = 0° 14' 56.8"
L = 171.41'
T = 85.70'
R = 23,000.00'
DS = 60 MPH
SE = NC
RO = SEE PLANS

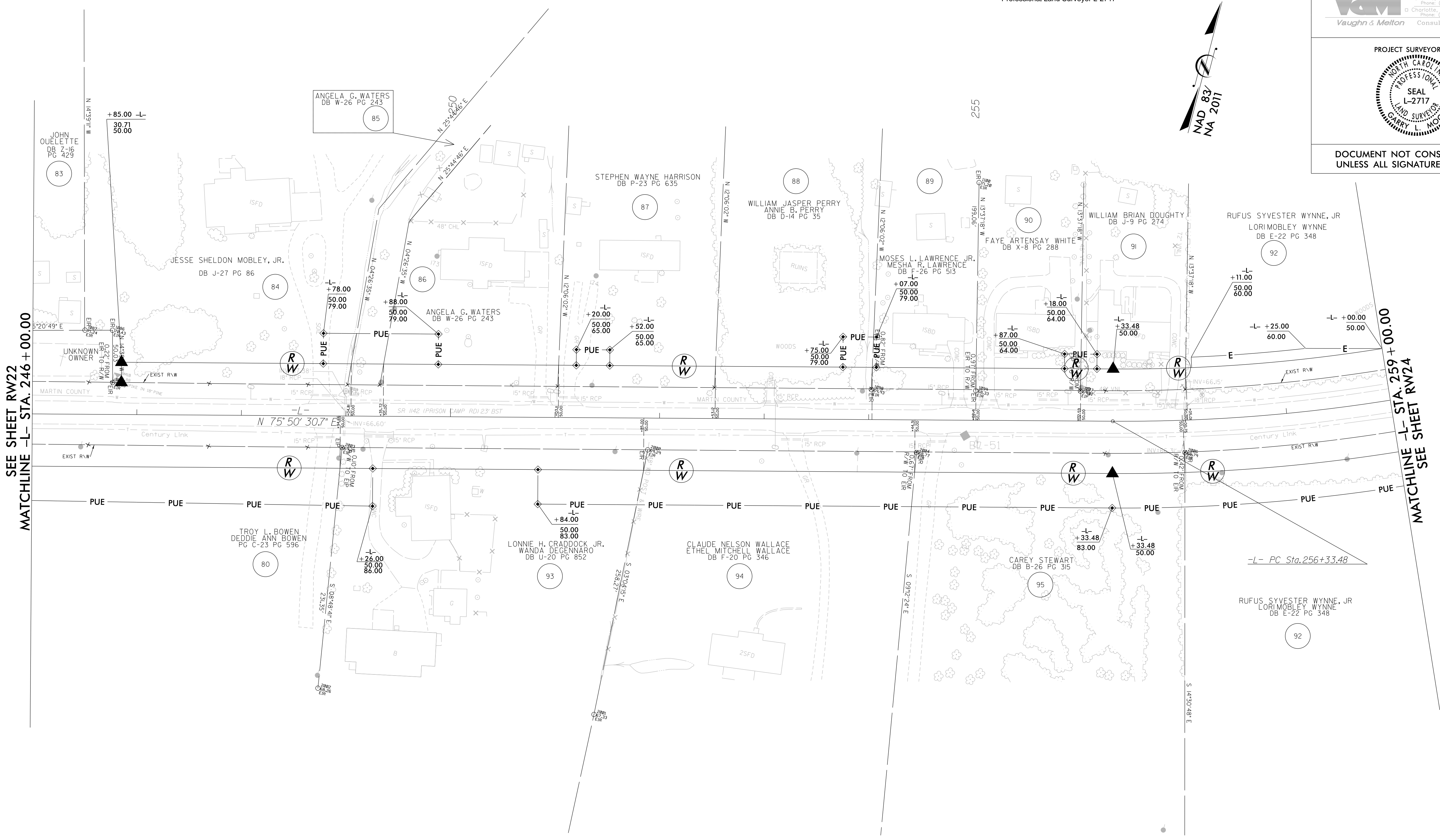
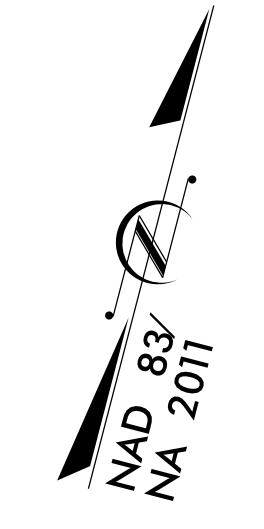
### Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
 GARRY MOORE  
 Professional Land Surveyor L-2717



REVISIONS

SEE SHEET RW22  
MATCHLINE -L- STA. 246+00.00

MATCHLINE -L- STA. 259+00.00  
SEE SHEET RW24

### NOTES:

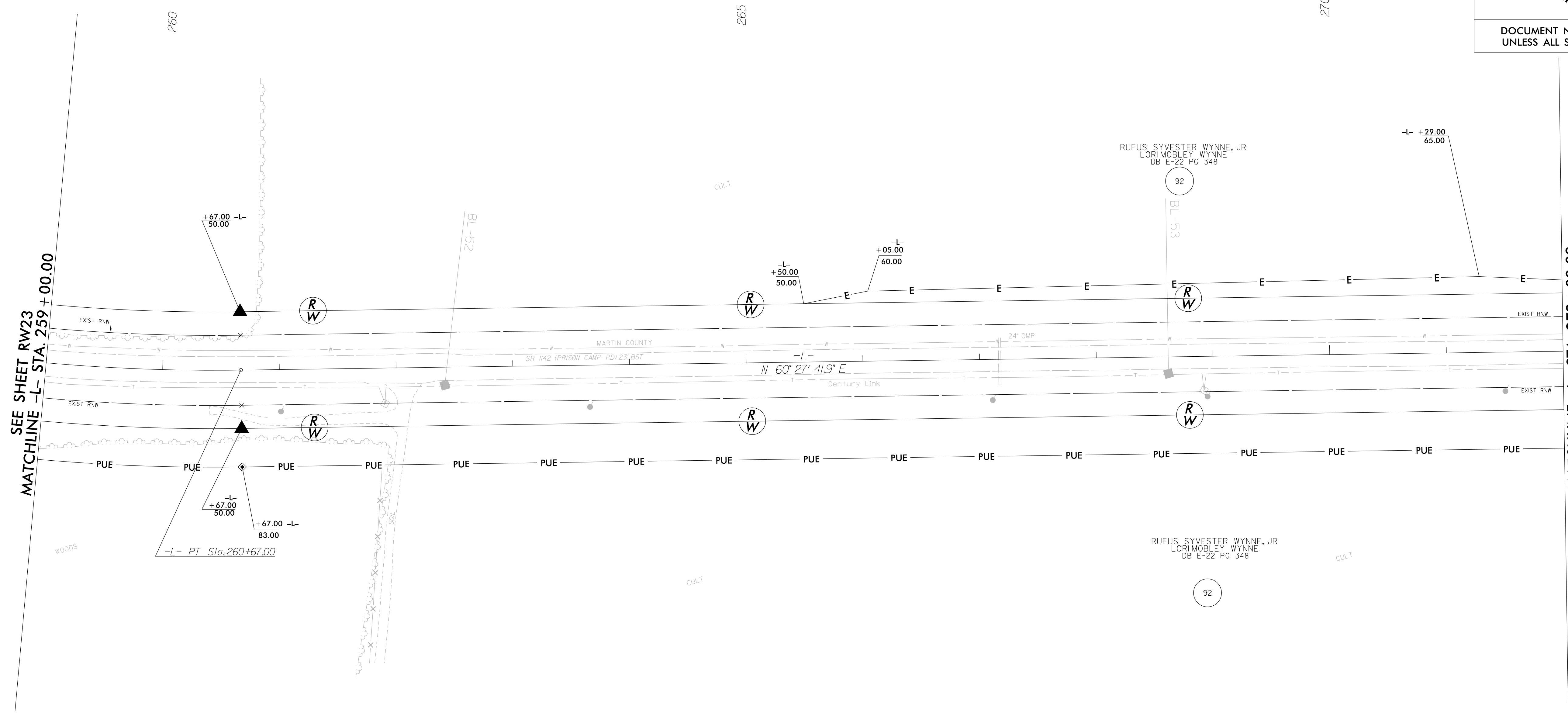
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED JAN. 2022 TO FEB. 2022.

-L-
PI Sta 258+51.55
$\Delta = 15^{\circ} 22' 48.8" (LT)$
$D = 3^{\circ} 32' 51.8"$
$L = 433.52'$
$T = 218.07'$
$R = 1,615.00'$
$DS = 60 \text{ MPH}$
$SE = 0.08 \text{ FT/FT}$
$RO = \text{SEE PLANS}$

05-MAY-2022 16:28  
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 AT: RVA191071  
 J Lemmons

05-MAY-2022 16:28  
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AT:RVA131071  
lemmons

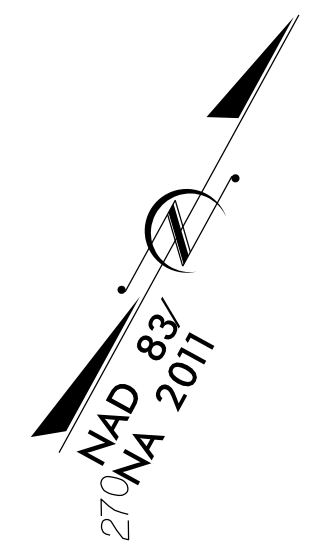
REVISIONS



-L-
PI Sta 258+51.55
$\Delta = 15^\circ 22' 48.8\" (LT)$
$D = 3^\circ 32' 51.8\"$
$L = 433.52'$
$T = 218.07'$
$R = 1,615.00'$
$DS = 60 \text{ MPH}$
$SE = 0.08 \text{ FT/FT}$
$RO = \text{SEE PLANS}$

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
 GARRY L. MOORE  
 Professional Land Surveyor L-2717



PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW24
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2788</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
<b>V&amp;M</b> Vaughn & Melton Consulting Engineers	

PROJECT SURVEYOR


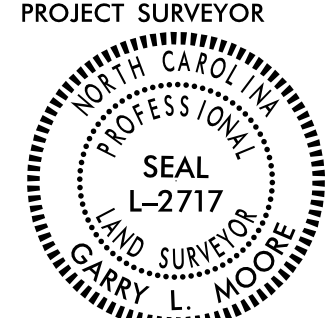
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

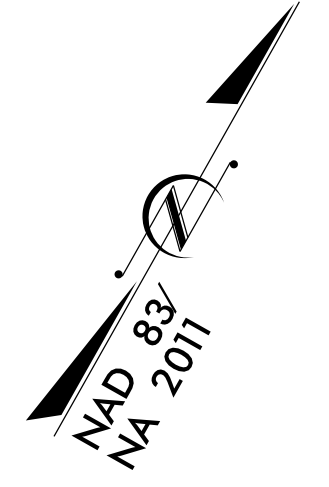
**NOTES:**

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED JAN. 2022 TO FEB. 2022.

I, Garry L. Moore, 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 JAN. 2022 to FEB. 2022, 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 March, 2022.  
GARRY L. MOORE  
Professional Land Surveyor L-2717

PROJECT REFERENCE NO.	SHEET NO.
R-4705	RW25
<b>Location and Surveys</b>	
<ul style="list-style-type: none"> <li>■ New Bern, North Carolina 28562 Phone: (252) 631-5115</li> <li>□ Middleboro, Kentucky 40965 Phone: (606) 248-6660</li> <li>□ Asheville, North Carolina 28806 Phone: (828) 253-2788</li> <li>□ Charlotte, North Carolina 28217 Phone: (704) 397-0488</li> </ul>	
	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

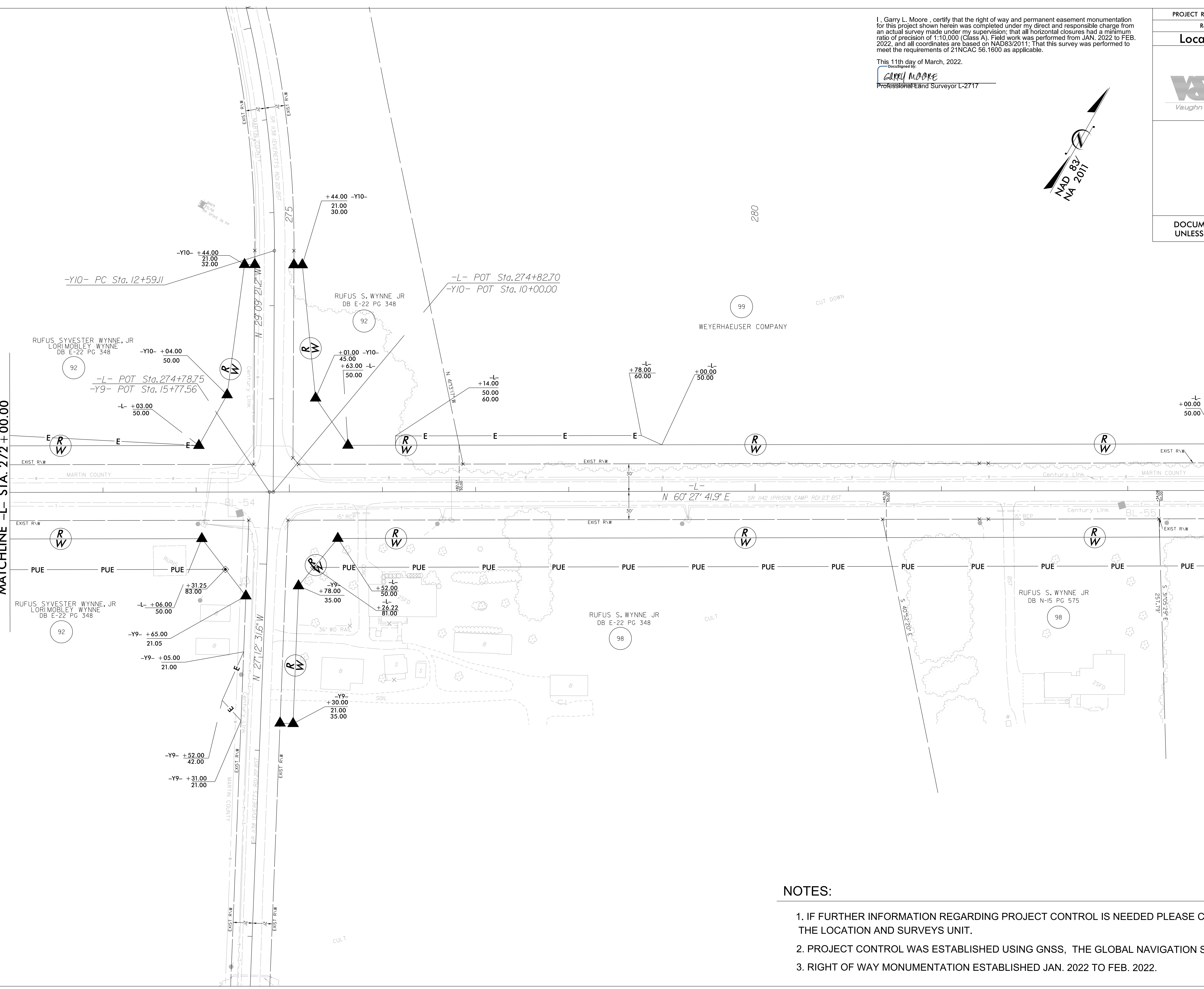


REVISIONS

SEE SHEET RW24  
MATCHLINE -L- STA. 272 + 00.00

MATCHLINE -L- STA. 285 + 00.00  
SEE SHEET RW26

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AT: RVA191071  
lemmons



**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 JAN. 2022 TO FEB. 2022.