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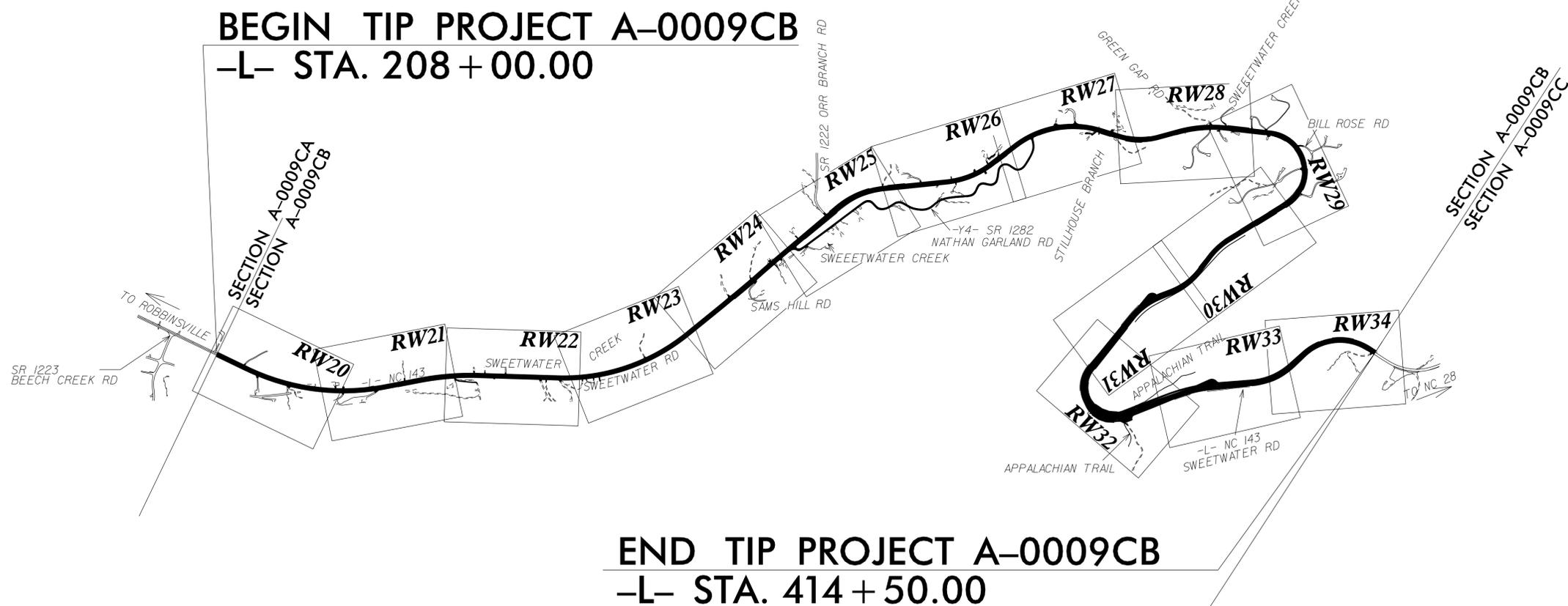
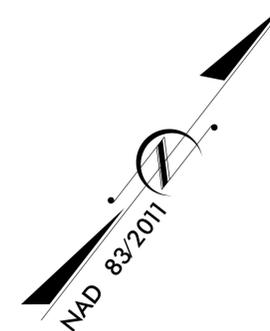
09/06/99

TIP PROJECT: A-0009CB

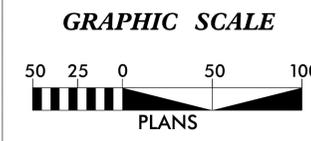
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	A-0009CB	RW01	46

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

GRAHAM COUNTY



\$\$\$\$\$ SYSTEM TIME \$\$\$\$\$\$
 \$\$\$\$\$\$ DDON \$\$\$\$\$\$
 \$\$\$\$\$\$ USERNAME \$\$\$\$\$\$



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "A0009C-10" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 612,531.117(ft) EASTING: 584,817.003(ft) ELEVATION: 2,216.16(ft)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999772236
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "A0009C-10" TO -L- STATION 208+00 IS N 48-03'36.4" E 758.11(ft)
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

V&M
Vaughn & Melton
 1318-F Patton Avenue
 Asheville, NC 28806
 Firm License # F-1088

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
 09/2021

LETTING DATE:
 09/20/2022

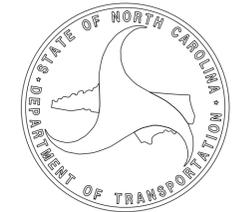
PROFESSIONAL LAND SURVEYOR



DocuSigned by:
 F1570C885C7248A

6/8/2022

SIGNATURE: Date:



I, Mark A. Parris, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA
Type of GPS field procedure: Static, OPUS, RTN
Dates of survey: 2/2020-3/2020
Datum/Epoch: 2010.0000
Published/Fixed-control use: N/A
Localized around: A0009C-10
Northing: 612531.117
Easting: 584817.003
Combined grid factor: 0.999772236
Geoid model: 18 CONUS
Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 3/2020 to 5/2020, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 21st day of December, 2020.



Professional Land Surveyor L-4529

SURVEY CONTROL SHEET

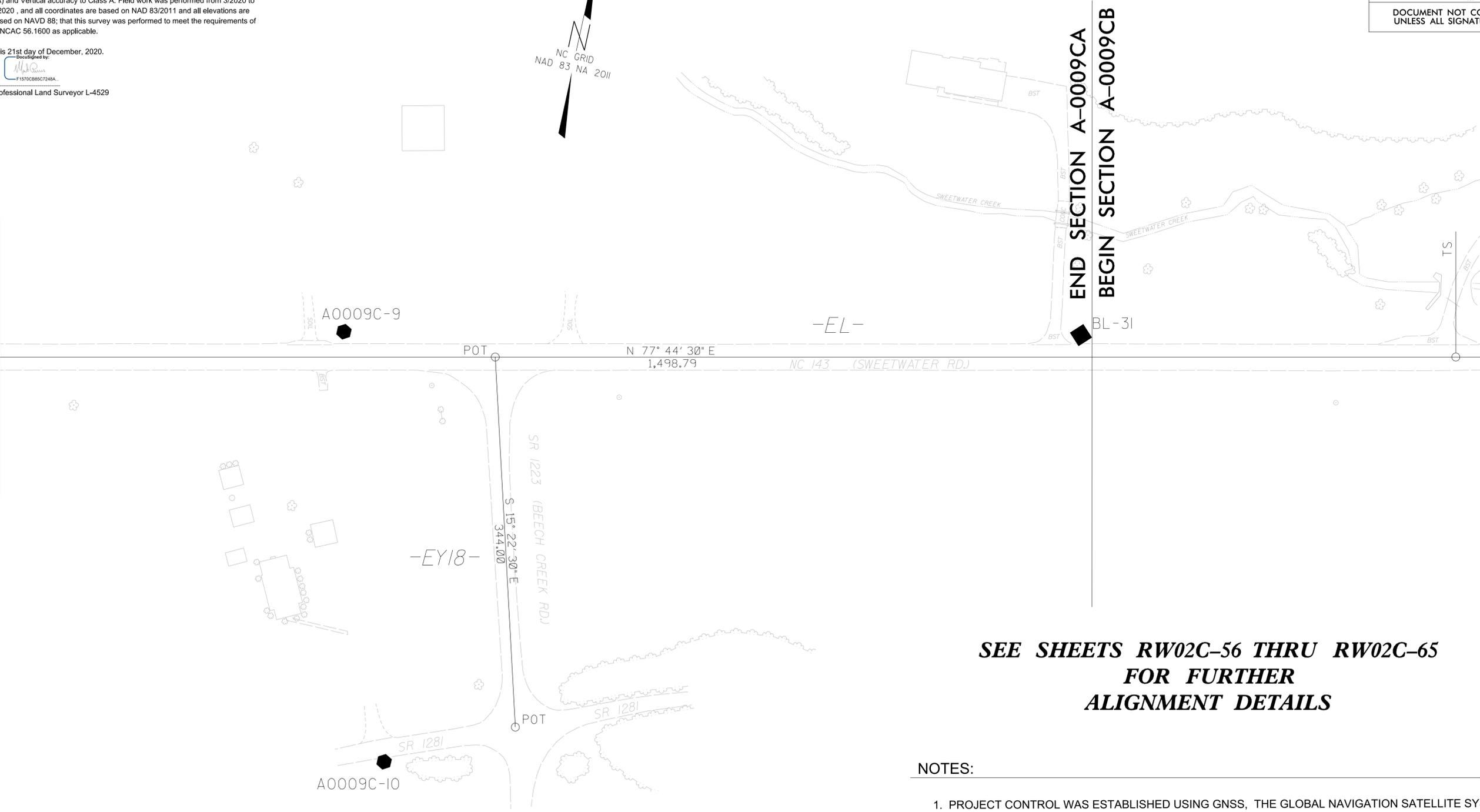
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009CB	SHEET NO. RW02C-15
Location and Surveys	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE SHEET RW02C-14

MATCHLINE SHEET RW02C-16



**SEE SHEETS RW02C-56 THRU RW02C-65
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

22-NOV-2021 10:31 AM
V:\NC\Survey\202112-21\A-0009CA ROW Staking\Survey\RW and Control Sheets\A-0009CB\A0009CB-15-RW02C-15.dgn
JKGordon

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

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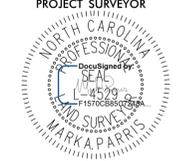
Class of survey: AA
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Dates of survey: 2/2020-3/2020
Datum/Epoch: 2010.0000
Published/Fixed-control use: N/A
Localized around: A0009C-10
Northing: 612531.117
Easting: 584817.003
Combined grid factor: 0.999772236
Geoid model: 18 CONUS
Units: English

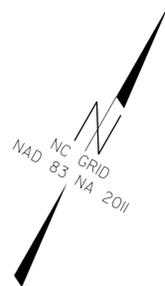
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This 21st day of December, 2020.

DocuSigned by:

F197C885C7248A
Professional Land Surveyor L-4529

PROJECT REFERENCE NO. A-0009CB	SHEET NO. RW02C-16
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**SEE SHEETS RW02C-56 THRU RW02C-65
FOR FURTHER
ALIGNMENT DETAILS**

NOTES:

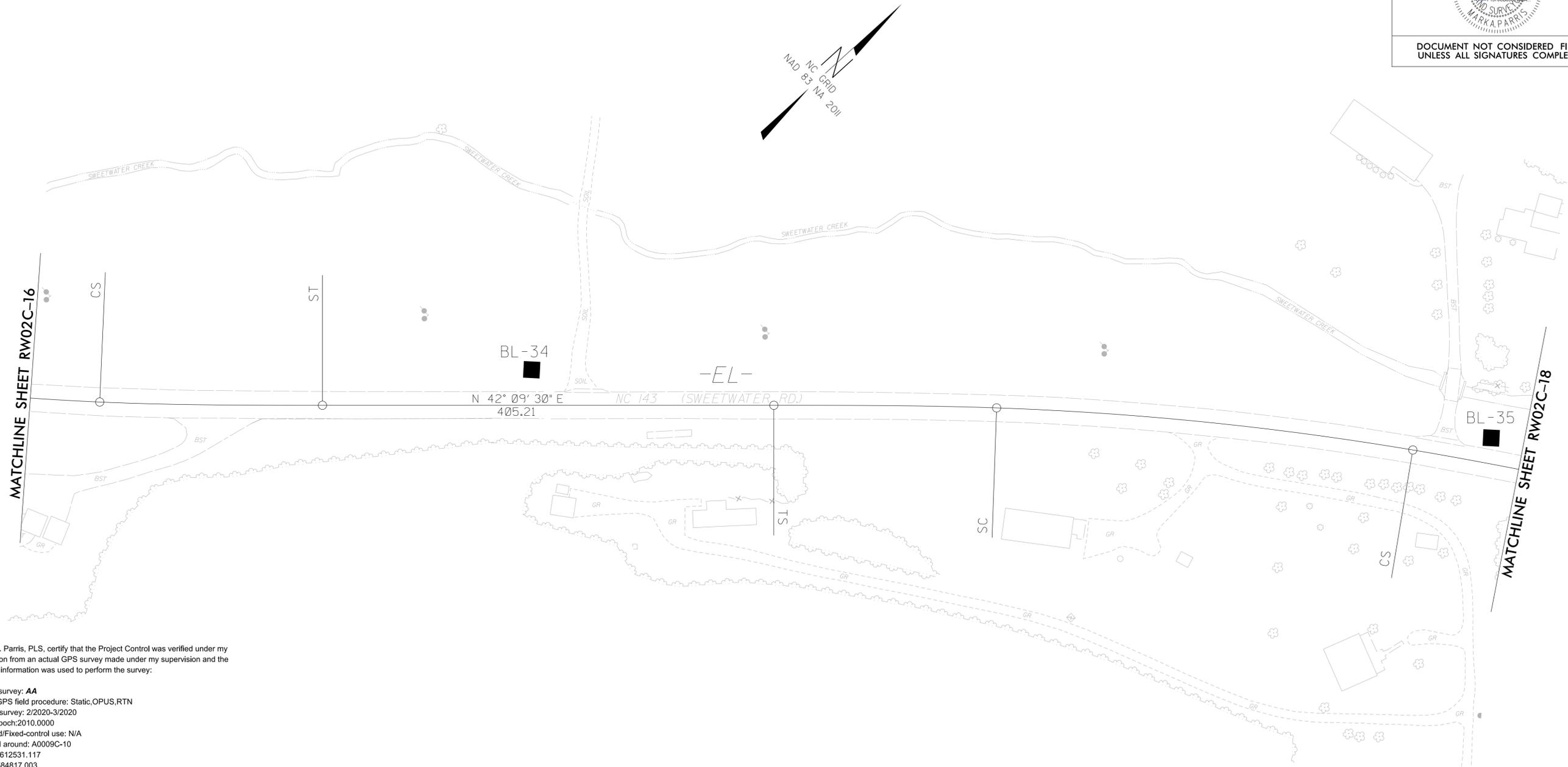
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REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009CB	SHEET NO. RW02C-17
Location and Surveys	
	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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 Type of GPS field procedure: Static, OPUS, RTN
 Dates of survey: 2/2020-3/2020
 Datum/Epoch: 2010.0000
 Published/Fixed-control use: N/A
 Localized around: A0009C-10
 Northing: 612531.117
 Easting: 584817.003
 Combined grid factor: 0.999772236
 Geoid model: 18 CONUS
 Units: English

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This 21st day of December, 2020.

DocuSigned by:

 F1570C8A5C728A
 Professional Land Surveyor L-4529

SEE SHEETS RW02C-56 THRU RW02C-65 FOR FURTHER ALIGNMENT DETAILS

NOTES:

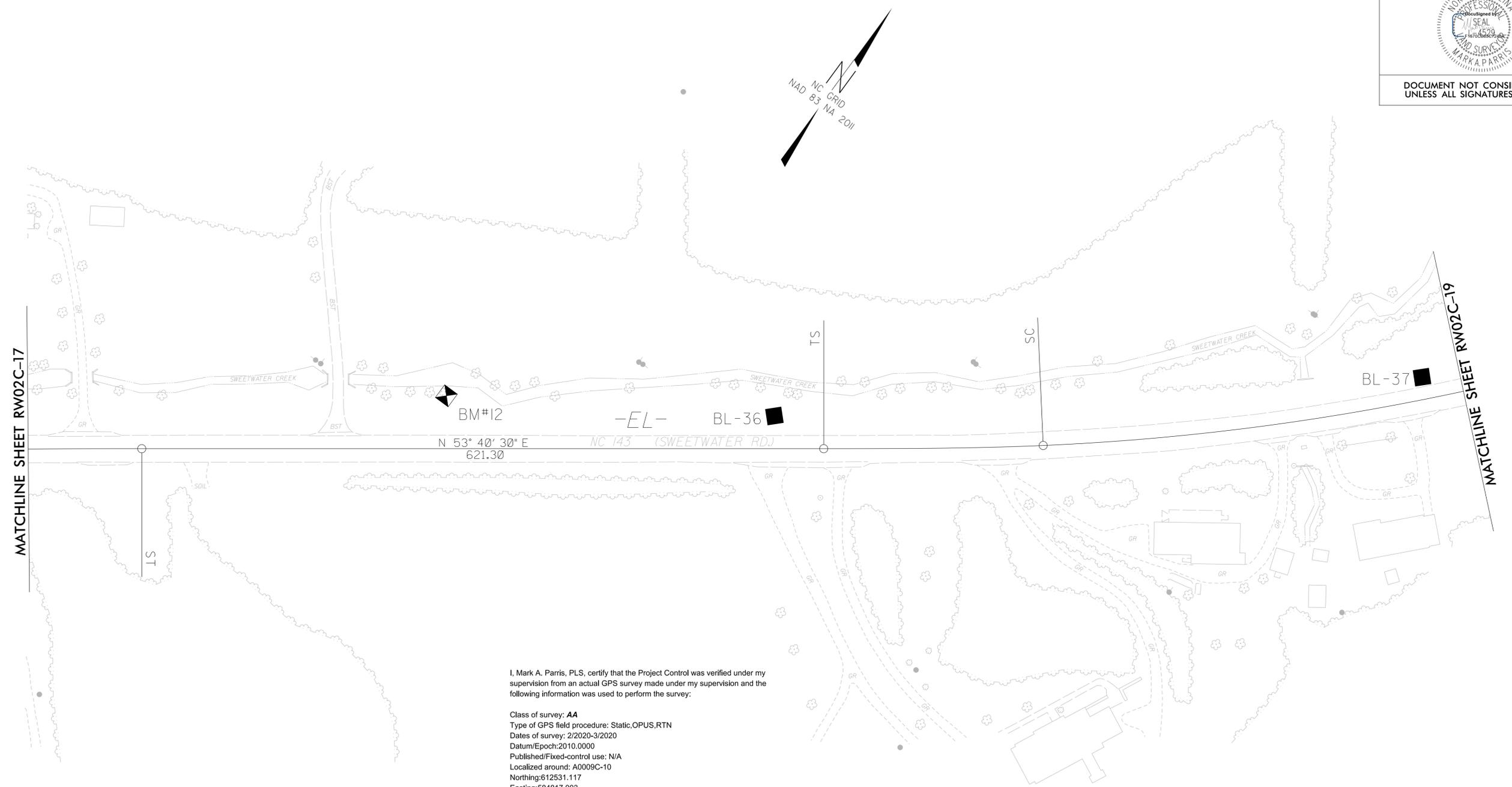
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009CB	SHEET NO. RW02C-18
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS



I, Mark A. Parris, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: Static, OPUS, RTN
 Dates of survey: 2/2020-3/2020
 Datum/Epoch: 2010.0000
 Published/Fixed-control use: N/A
 Localized around: A0009C-10
 Northing: 612531.117
 Easting: 584817.003
 Combined grid factor: 0.999772236
 Geoid model: 18 CONUS
 Units: English

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This 21st day of December, 2020.

 Professional Land Surveyor L-4529

**SEE SHEETS RW02C-56 THRU RW02C-65
 FOR FURTHER
 ALIGNMENT DETAILS**

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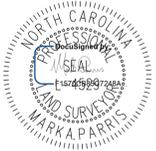
6/2/19

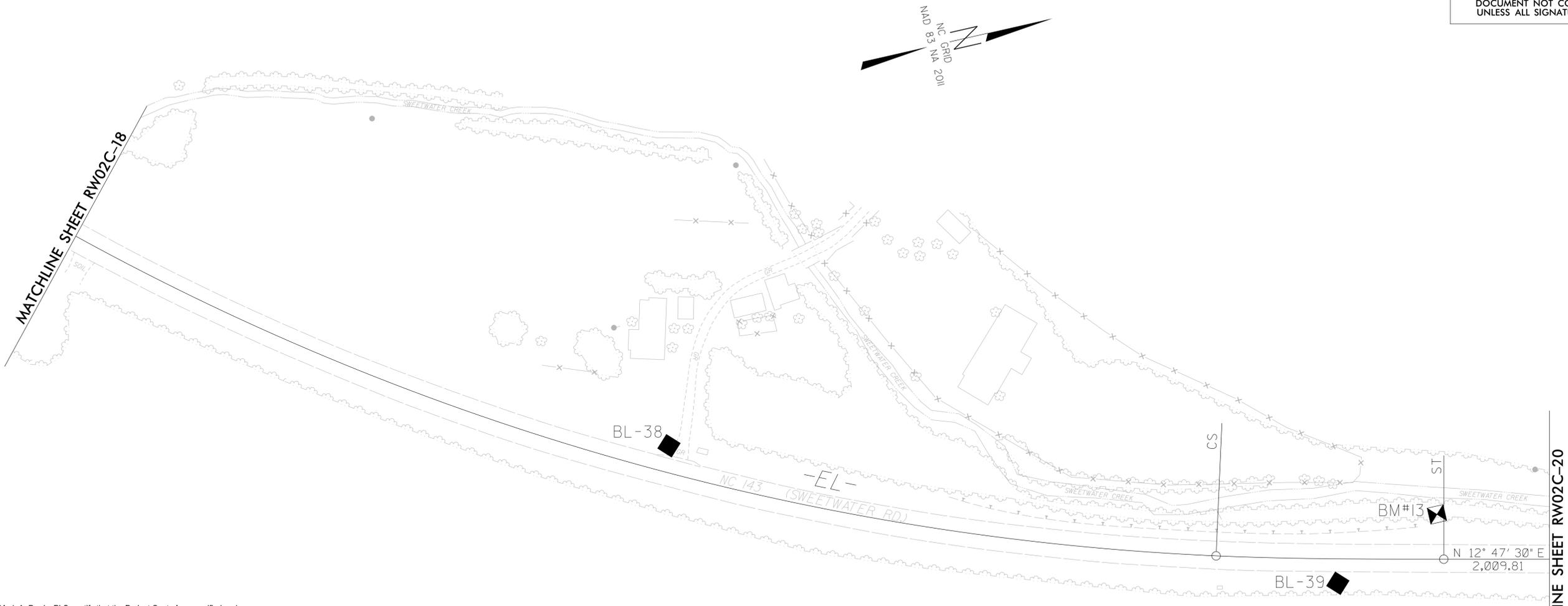
REVISIONS

22-NOV-2021 10:38
V:\NC\Survey\202112-21\A-0009CB ROW Stationing\Survey\RW and Control Sheets\A-0009CB\A0009CB_1s.RW02C-19.dgn
jcgor-don

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009CB	SHEET NO. RW02C-19
Location and Surveys	
	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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 Type of GPS field procedure: Static, OPUS, RTN
 Dates of survey: 2/2020-3/2020
 Datum/Epoch: 2010.0000
 Published/Fixed-control use: N/A
 Localized around: A0009C-10
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 Easting: 584817.003
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This 21st day of December, 2020.

DocuSigned by:

 F1570CB85C7248A

Professional Land Surveyor L-4529

**SEE SHEETS RW02C-56 THRU RW02C-65
 FOR FURTHER
 ALIGNMENT DETAILS**

NOTES:

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6/2/19

22-NOV-2021 10:40
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jcgordon

REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009CB	SHEET NO. RW02C-20
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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This 21st day of December, 2020.

DocuSigned by:

 E1570C88C7245A
 Professional Land Surveyor L-4529

SEE SHEETS RW02C-56 THRU RW02C-65 FOR FURTHER ALIGNMENT DETAILS

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Datum/Epoch: 2010.0000
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Northing: 612531.117
Easting: 584817.003
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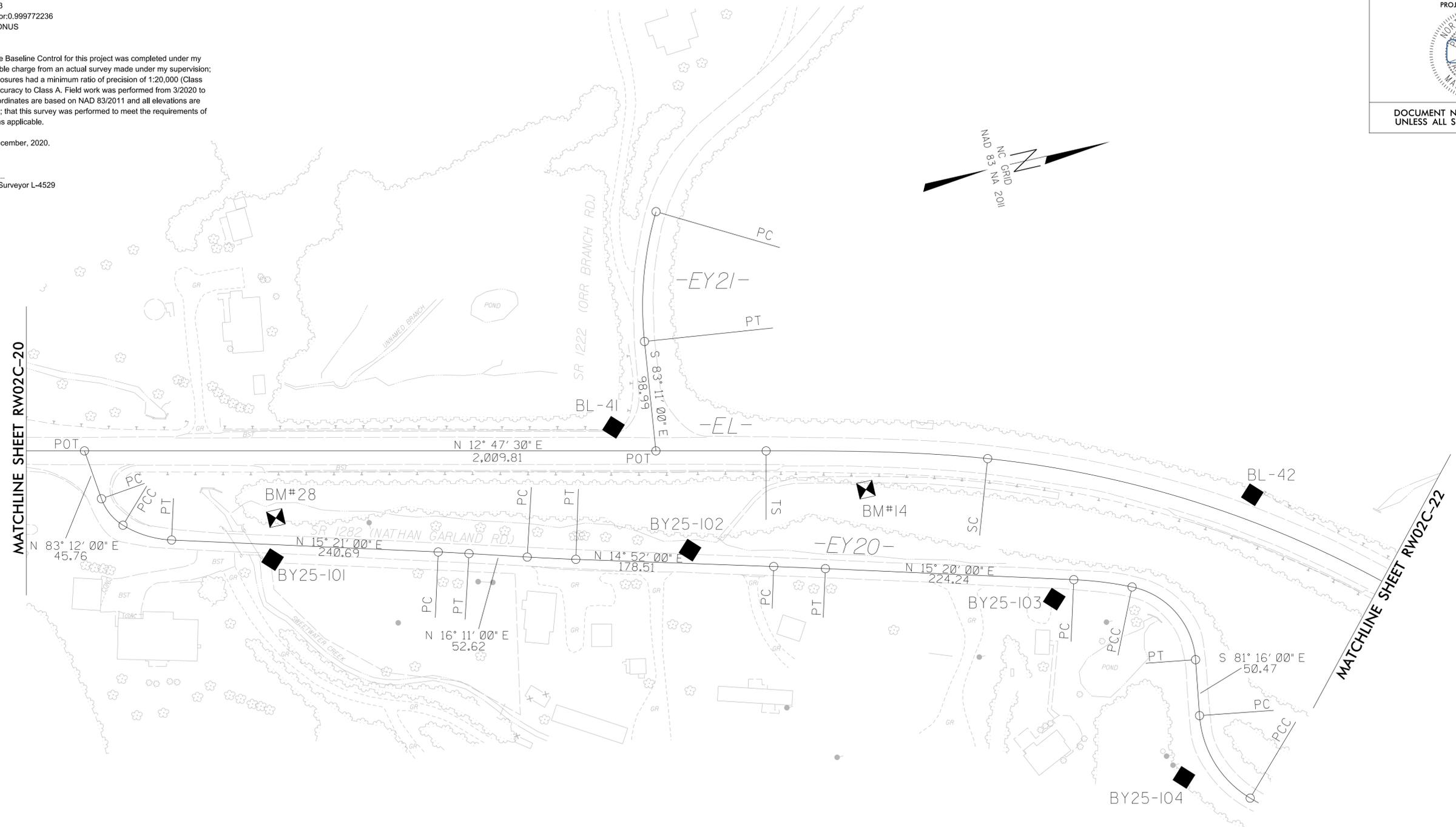
This 21st day of December, 2020.

DocuSigned by:
Professional Land Surveyor L-4529

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009CB	SHEET NO. RW02C-21
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**SEE SHEETS RW02C-56 THRU RW02C-65
FOR FURTHER
ALIGNMENT DETAILS**

NOTES:

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REVISIONS

22-NOV-2021 10:42
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jcgordon

I, Mark A. Parris, PLS, certify that the Project Control was verified 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: Static, OPUS, RTN
Dates of survey: 2/2020-3/2020
Datum/Epoch: 2010.0000
Published/Fixed-control use: N/A
Localized around: A0009C-10
Northing: 612531.117
Easting: 584817.003
Combined grid factor: 0.999772236
Geoid model: 18 CONUS
Units: English

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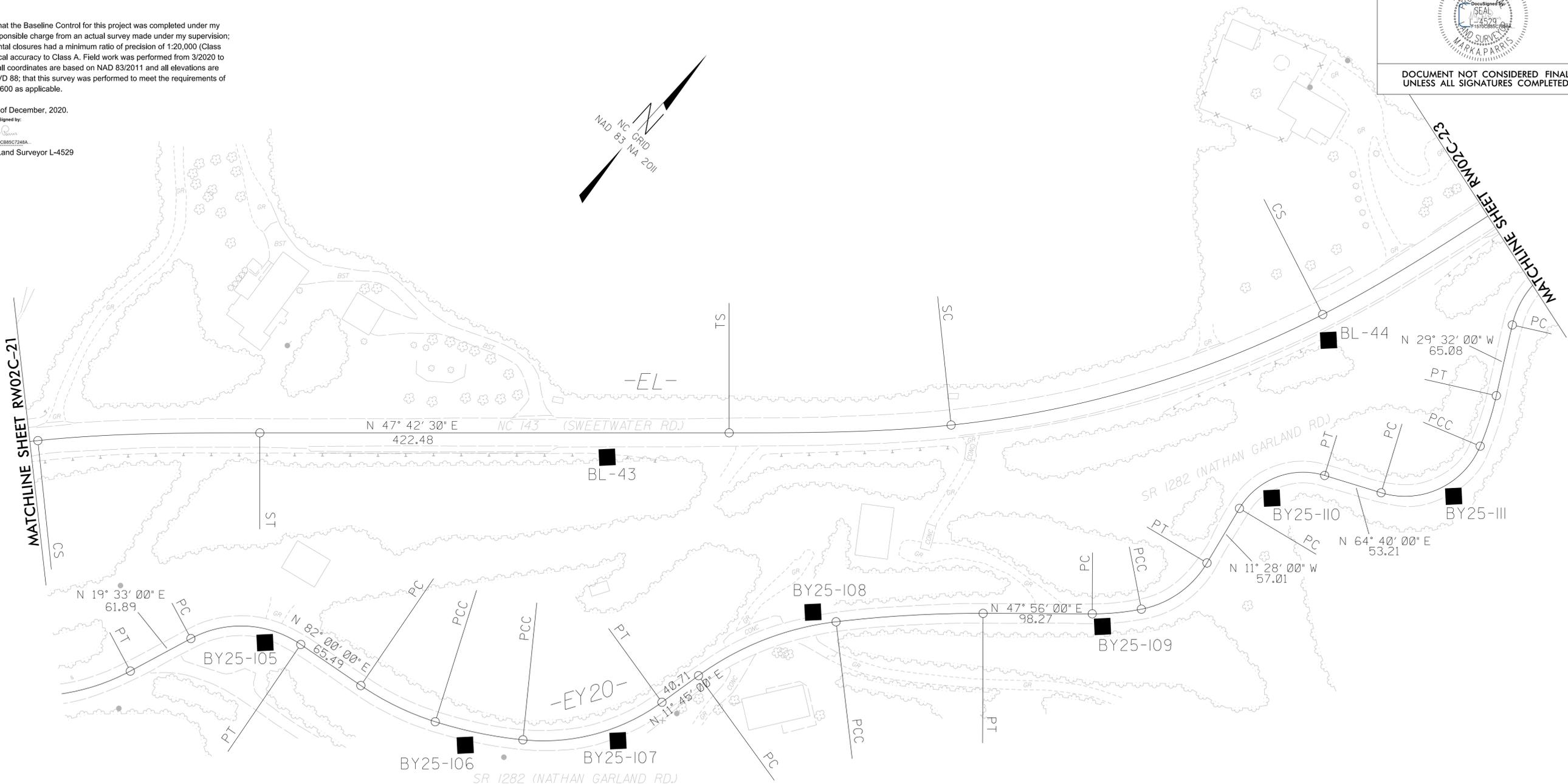
This 21st day of December, 2020.

DocuSigned by:
Professional Land Surveyor L-4529

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009CB	SHEET NO. RW02C-22
Location and Surveys	
	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**SEE SHEETS RW02C-56 THRU RW02C-65
FOR FURTHER
ALIGNMENT DETAILS**

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REVISIONS

6/2/19

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Easting: 584817.003
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Professional Land Surveyor L-4529

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. SHEET NO.

A-0009CB RW02C-23

Location and Surveys



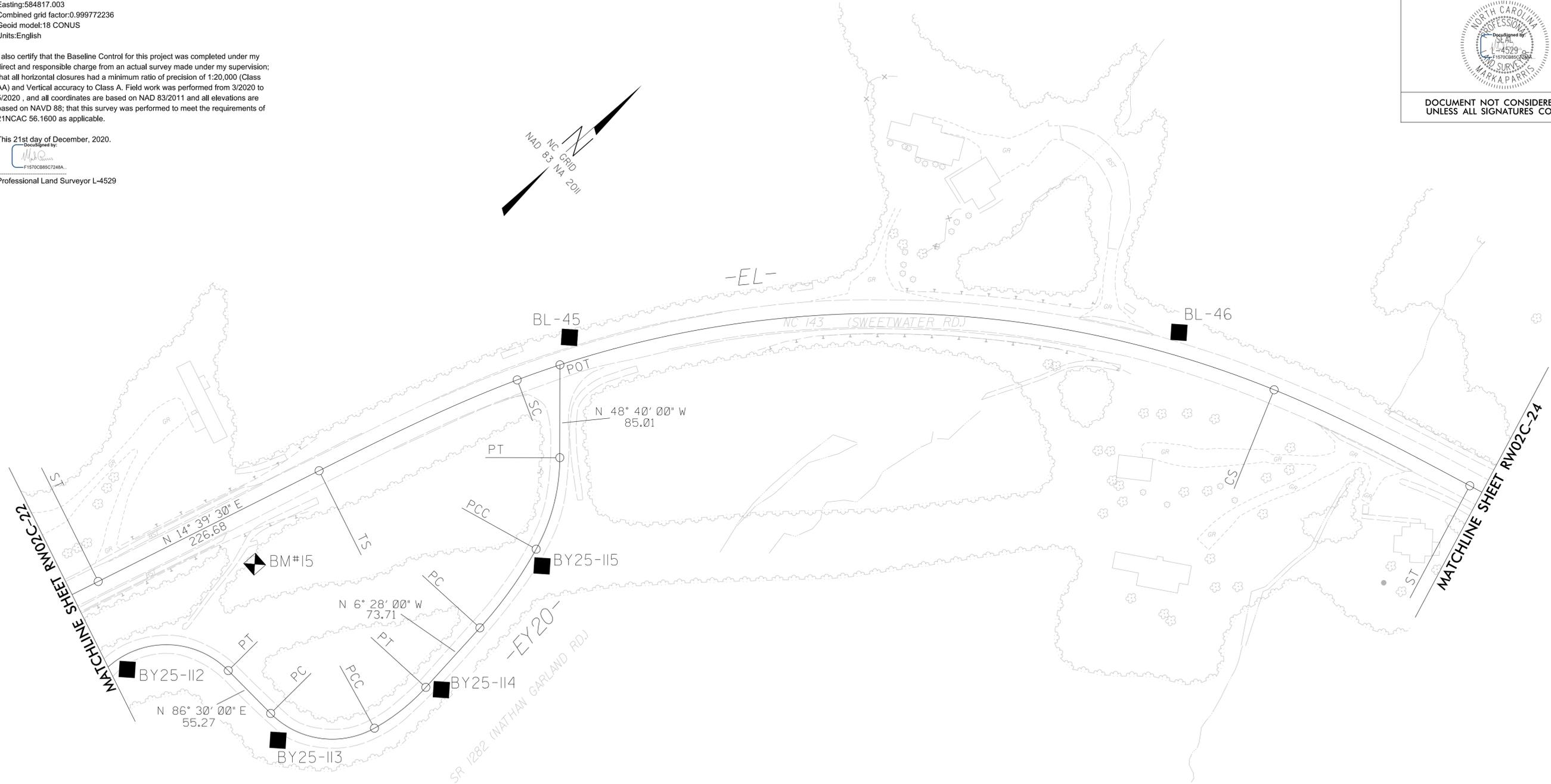
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

22-NOV-2021 10:45
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jcgordon



**SEE SHEETS RW02C-56 THRU RW02C-65
FOR FURTHER
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NOTES:

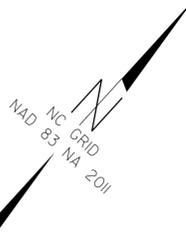
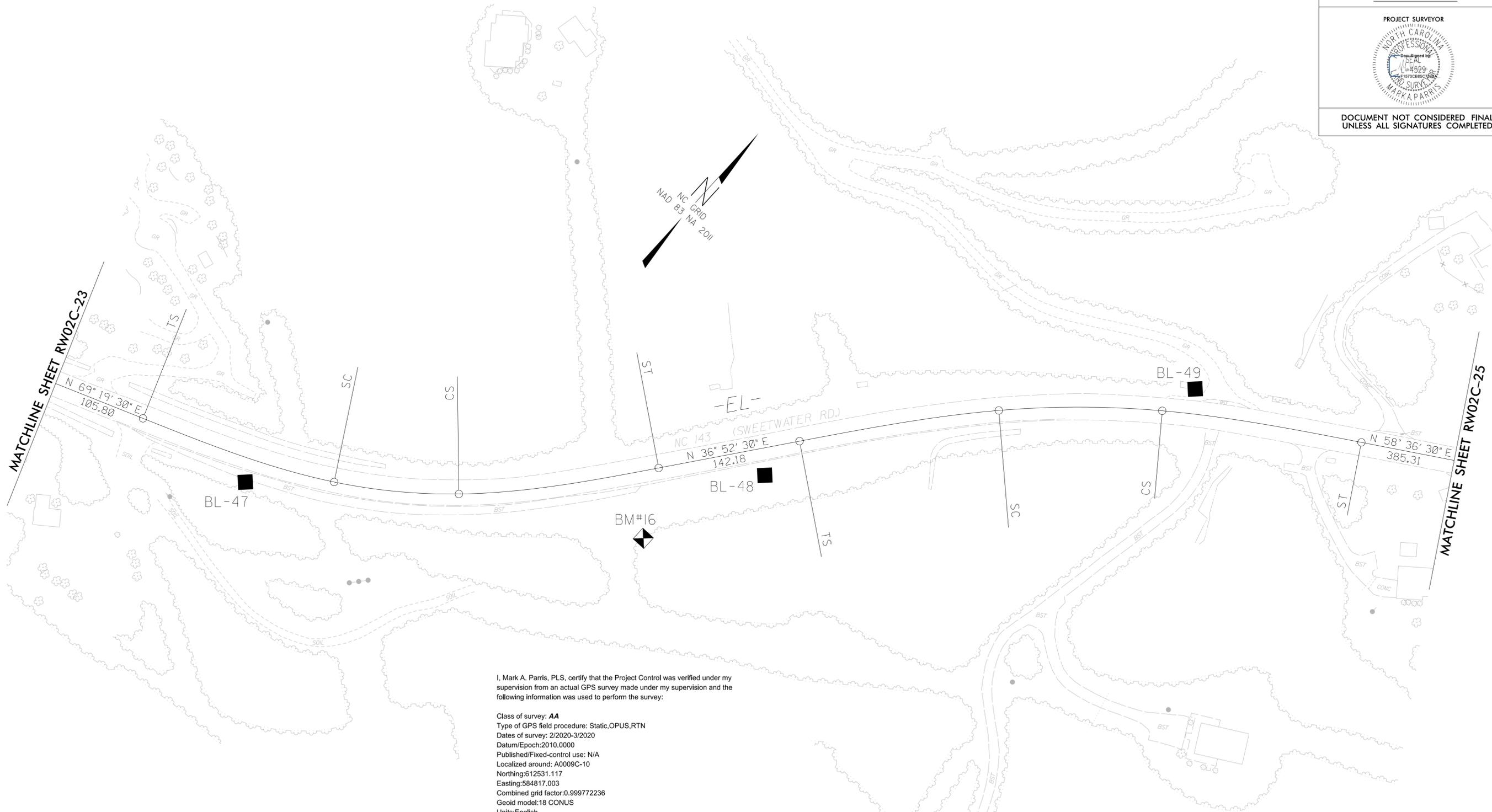
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009-CB	SHEET NO. RW02C-24
Location and Surveys	
	
PROJECT SURVEYOR	
	
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REVISIONS



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 Datum/Epoch: 2010.0000
 Published/Fixed-control use: N/A
 Localized around: A0009C-10
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 Easting: 584817.003
 Combined grid factor: 0.999772236
 Geoid model: 18 CONUS
 Units: English

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 Professional Land Surveyor L-4529

**SEE SHEETS RW02C-56 THRU RW02C-65
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22-NOV-2021 10:47
 V:\NC\Survey\032112-21A-0009CA ROW Stake\mg\Survey\RW and Control Sheets\A-0009CB\A0009CB.1s.RW02C-24.dgn
 jcgordon

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Northing: 612531.117
Easting: 584817.003
Combined grid factor: 0.99977236
Geoid model: 18 CONUS
Units: English

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Professional Land Surveyor L-4529
Professional Land Surveyor L-4529

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009CB	SHEET NO. RW02C-25
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

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

**SEE SHEETS RW02C-56 THRU RW02C-65
FOR FURTHER
ALIGNMENT DETAILS**

22-NOV-2021 10:49
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Jc Gordon

I, Mark A. Parris, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA
Type of GPS field procedure: Static, OPUS, RTN
Dates of survey: 2/2020-3/2020
Datum/Epoch: 2010.0000
Published/Fixed-control use: N/A
Localized around: A0009C-10
Northing: 612531.117
Easting: 584817.003
Combined grid factor: 0.999772236
Geoid model: 18 CONUS
Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 3/2020 to 5/2020, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 21st day of December, 2020.

DocuSigned by:

#2302885C7248A
Professional Land Surveyor L-4529

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. SHEET NO.

A-0009CB RW02C-26

Location and Surveys



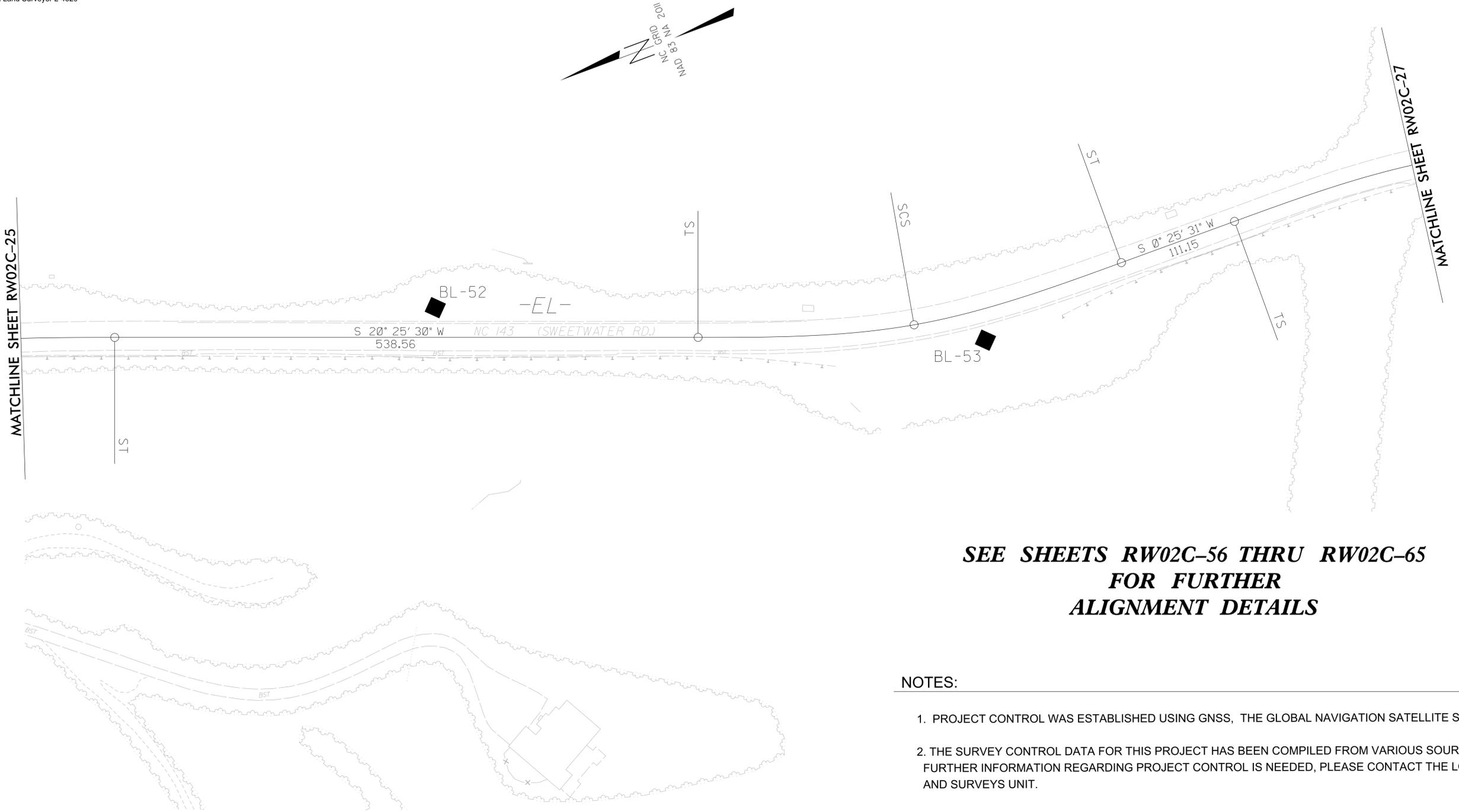
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

22-NOV-2021 10:51
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jcgordon



**SEE SHEETS RW02C-56 THRU RW02C-65
FOR FURTHER
ALIGNMENT DETAILS**

NOTES:

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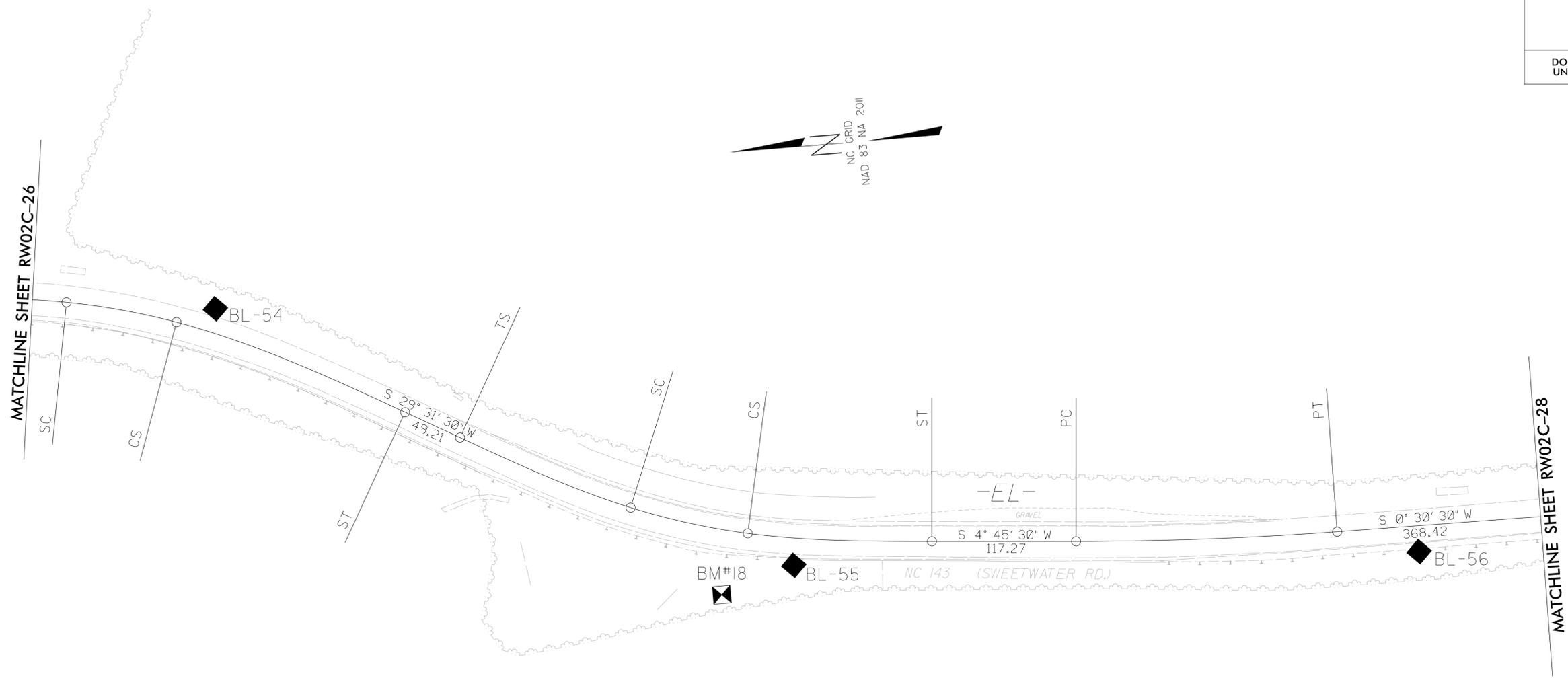
REVISIONS

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jcgordon

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009CB	SHEET NO. RW02C-27
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I, Mark A. Parris, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA
 Type of GPS field procedure: Static, OPUS, RTN
 Dates of survey: 2/2020-3/2020
 Datum/Epoch: 2010.0000
 Published/Fixed-control use: N/A
 Localized around: A0009C-10
 Northing: 612531.117
 Easting: 584817.003
 Combined grid factor: 0.999772236
 Geoid model: 18 CONUS
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 3/2020 to 5/2020, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

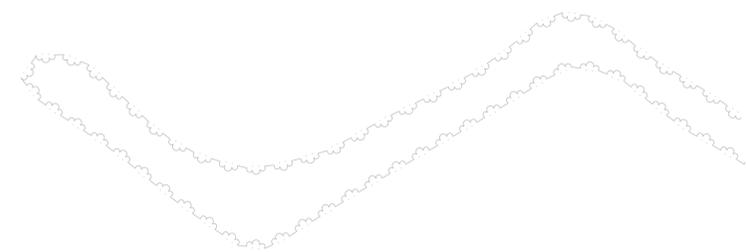
This 21st day of December, 2020.


 Professional Land Surveyor L-4529

SEE SHEETS RW02C-56 THRU RW02C-65 FOR FURTHER ALIGNMENT DETAILS

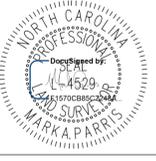
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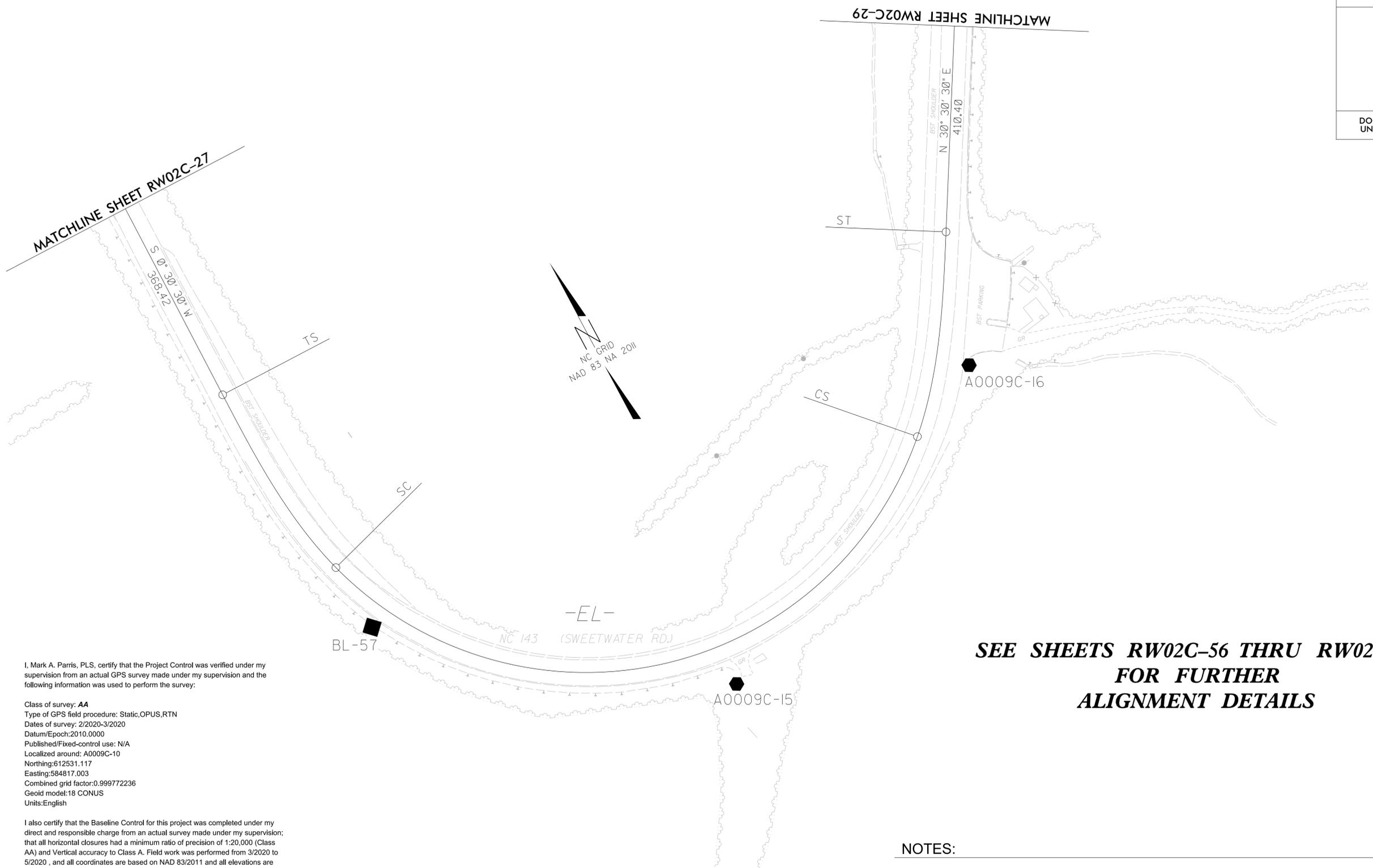
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009CB	SHEET NO. RW02C-28
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I, Mark A. Parris, PLS, certify that the Project Control was verified 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: Static, OPUS, RTN
 Dates of survey: 2/2020-3/2020
 Datum/Epoch: 2010.0000
 Published/Fixed-control use: N/A
 Localized around: A0009C-10
 Northing: 612531.117
 Easting: 584817.003
 Combined grid factor: 0.999772236
 Geoid model: 18 CONUS
 Units: English

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This 21st day of December, 2020.

DocuSigned by:

 F1570C885C7248A
 Professional Land Surveyor L-4529

**SEE SHEETS RW02C-56 THRU RW02C-65
 FOR FURTHER
 ALIGNMENT DETAILS**

NOTES:

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Datum/Epoch: 2010.0000
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Localized around: A0009C-10
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This 21st day of December, 2020.

DocuSigned by:

Professional Land Surveyor L-4529

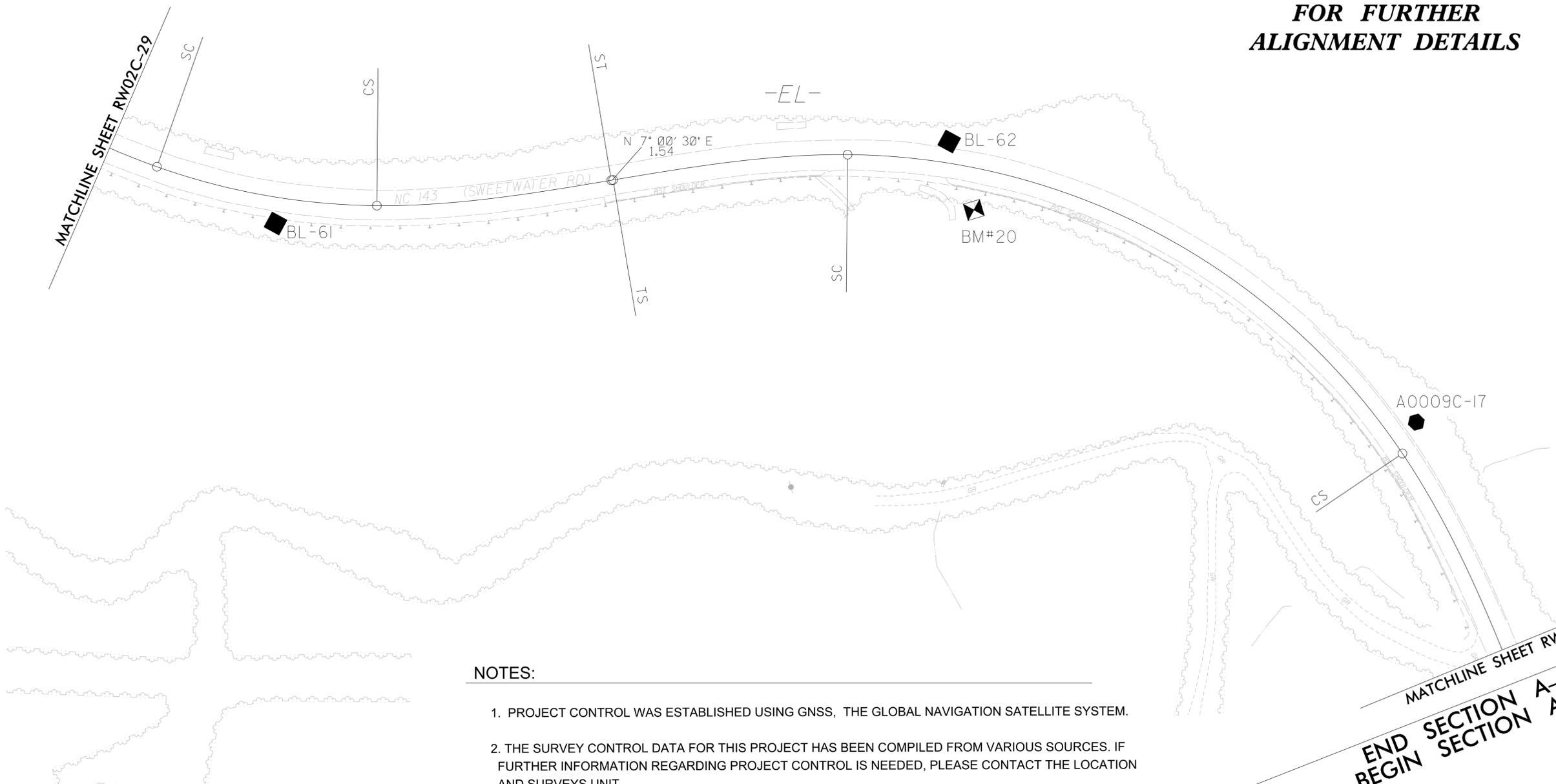
SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009CB	SHEET NO. RW02C-30
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**SEE SHEETS RW02C-56 THRU RW02C-65
FOR FURTHER
ALIGNMENT DETAILS**



NOTES:

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REVISIONS

22-NOV-2021 11:03
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Jegordon

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
A-0009-C	RW02C-56
Location and Surveys	
	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1	BL -1		607480.8260	568146.0580	1993.46
2	BL -2		607668.6540	568423.9930	1992.40
3	BL -3		607975.2340	568973.6670	1998.76
4	BL -4		607895.6970	569695.5230	2012.80
5	BL -5		607664.7910	570164.0000	2013.94
6	BL -6		607499.3880	570616.0120	2015.91
7	BL -7		607337.3140	571059.8600	2020.97
8	BL -8		607188.9590	571436.3810	2015.83
9	BL -9		607008.3250	571960.6260	2023.68
10	BL -10		606851.1840	572395.1610	2036.09
11	BL -11		606835.5810	572745.4190	2045.11
GPS5	A0009C-5		607061.2380	573293.1200	2060.95
12	BL -12		607391.1830	573795.7120	2097.53
13	BL -13		607663.3560	574364.8790	2139.38
14	BL -14		607670.8580	574860.6500	2157.62
15	BL -15		607547.9820	575334.7410	2161.09
16	BL -16		607453.2850	576050.4320	2138.21
17	BL -17		607648.7420	576599.1850	2112.89
18	BL -18		608143.3850	576938.7680	2084.57
19	BL -19		608772.5500	577402.4760	2087.33
20	BL -20		609212.6580	577878.2080	2105.61
GPS7	A0009C-7		609410.9490	578471.3700	2105.62
21	BL -21		609631.0670	579169.3910	2120.08
22	BL -22		609900.2280	579995.4600	2143.59
23	BL -23		610179.2680	580857.8860	2150.87
24	BL -24		610376.2540	581461.9310	2155.15
25	BL -25		610560.2610	582027.5120	2160.21
26	BL -26		610924.7490	582430.3420	2168.99
27	BL -27		611457.8380	582822.4360	2178.94
28	BL -28		612053.8860	583254.4340	2187.77
29	BL -29		612599.1420	583666.0720	2197.33
30	BL -30		612783.3070	584100.4350	2202.40
GPS9	A0009C-9		612913.2580	584695.7140	2208.43
31	BL -31		613055.7330	585366.3940	2217.12
32	BL -32		613221.8360	586178.6200	2228.54
33	BL -33		613574.5010	586706.2820	2234.82
34	BL -34		614067.4120	587191.5890	2245.18
35	BL -35		614664.9920	587814.9680	2262.31
36	BL -36		615091.2660	588382.2260	2274.06
37	BL -37		615469.1960	588836.7060	2287.81
38	BL -38		615948.6020	589168.9120	2301.93
39	BL -39		616494.7660	589416.3220	2316.28
GPS11	A0009C-11		617324.4280	589561.2440	2335.15
40	BL -40		617874.8580	589687.9530	2353.90
41	BL -41		618420.5900	589810.2160	2392.11
42	BL -42		618968.9160	589996.9380	2439.77
43	BL -43		619404.8890	590492.6090	2489.55
44	BL -44		619919.5370	590902.2820	2544.28
45	BL -45		620597.1760	591057.1780	2599.60
46	BL -46		621020.7940	591422.4830	2643.76
47	BL -47		621188.0490	591920.5580	2684.81
48	BL -48		621540.1460	592296.4520	2724.38
49	BL -49		621890.8420	592554.1220	2760.76
50	BL -50		622282.7570	593217.4850	2822.43
GPS13	A0009C-13		622270.7170	593578.2810	2849.80
51	BL -51		621928.8920	593815.8700	2880.42
52	BL -52		621311.4490	593648.1260	2924.14
53	BL -53		620845.9440	593442.8150	2961.77
54	BL -54		620272.7540	593436.8130	3001.33
55	BL -55		619821.2230	593190.3870	3037.94
56	BL -56		619313.5090	593159.2730	3072.25
57	BL -57		618744.5480	593199.0420	3111.86
GPS15	A0009C-15		618530.1870	593483.6780	3128.98
GPS16	A0009C-16		618695.0490	593826.6310	3133.05
58	BL -58		619036.0340	594022.1770	3122.53
59	BL -59		619437.9470	594211.7200	3100.95
60	BL -60		619776.2050	594618.6070	3060.18
61	BL -61		620124.3470	594920.6190	3029.73
62	BL -62		620691.0820	595016.2590	2990.54
GPS17	A0009C-17		621003.0840	595356.0870	2958.21
GPS18	A0009C-18		621064.6070	596036.0000	2910.01
63	BL -63		621692.4700	596453.4800	2863.40
64	BL -64		622233.7870	596739.2000	2835.09
65	BL -65		622582.2170	596619.6530	2803.93
66	BL -66		622973.4180	596234.8630	2760.57
67	BL -67		623508.1470	596025.7490	2713.87
68	BL -68		624402.3910	595816.8510	2673.09
69	BL -69		624613.5480	595723.7020	2634.00
GPS19	A0009C-19		625233.1270	596132.9040	2577.91
GPS20	A0009C-20		626011.6230	596470.4230	2510.58

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
GPS1	A0009C-1		608026.2410	567925.9280	1990.27
70	BL -70		607787.1890	568057.8430	1992.29
81	BL -1		607480.8260	568146.0580	1993.46
71	BL -71		607129.5170	568082.9430	1996.57
72	BL -72		606909.6870	567957.3210	1998.83
73	BY1-73		606655.7600	567978.5330	2000.34
BY14	37-0020 BY1-4		606487.2560	567958.7680	2002.49
8L1	37-0020 BL-1		606304.6550	567974.9810	2004.20
BY13	37-0020 BY1-3		606116.8260	568009.0020	2004.87
74	BY1-74		605917.0380	568072.0300	2007.27
75	BY1-75		605574.2960	568141.7460	2010.67
76	BY1-76		605137.8990	568300.2280	2016.71
77	BY1-77		604679.2980	568472.5590	2023.55
GPS3	A0009C-3		604306.4560	568686.9910	2023.79
BY3	POINT	DESC.	NORTH	EAST	ELEVATION
872	BY1-72		606909.6870	567957.3210	1998.83
78	BY3-78		606721.8800	568115.0010	1996.20
BY4	POINT	DESC.	NORTH	EAST	ELEVATION
79	BY4-79		606945.1130	567521.5510	2022.32
80	BY4-80		606772.0230	567761.9900	2011.66
BY14	37-0020 BY1-4		606487.2560	567958.7680	2002.49
BY5	POINT	DESC.	NORTH	EAST	ELEVATION
BBL1	37-0020 BL-1		606304.6550	567974.9810	2004.20
BL2	37-0020 BL-2		606326.8200	568195.8070	2002.82
81	BY5-81		606347.5430	568394.8310	1997.00
G100	37-0020 GPS-100		606393.0410	568537.8980	1999.19
82	BY5-82		606497.5480	568790.9510	2008.98
83	BY5-83		606654.7710	569036.2550	2020.81
91	BY9-91		606757.2530	569284.7900	2028.99
84	BY5-84		606942.5900	569105.8710	2029.11
85	BY5-85		607203.9050	568976.8430	2035.48
86	BY5-86		607523.3980	568999.6830	2035.73
87	BY5-87		607782.3720	569110.8320	2037.37
88	BY5-88		607862.7850	569372.9780	2026.12
BB4	BL-4		607895.6970	569695.5230	2012.80
BY10	POINT	DESC.	NORTH	EAST	ELEVATION
92	BY10-92		608436.8970	569737.0970	1991.61
84	BL-4		607895.6970	569695.5230	2012.80
BY13	POINT	DESC.	NORTH	EAST	ELEVATION
93	BY13-93		607021.7880	572659.0690	2029.79
B10	BL-10		606851.1840	572395.1610	2036.09
BY14	POINT	DESC.	NORTH	EAST	ELEVATION
94	BY14-94		607398.5460	573392.9230	2050.28
BGPS5	A0009C-5		607061.2380	573293.1200	2060.95

BY15	POINT	DESC.	NORTH	EAST	ELEVATION
B13	BL-13		607663.3560	574364.8790	2139.38
95	BY15-95		607498.8190	574666.8040	2150.10
BY16	POINT	DESC.	NORTH	EAST	ELEVATION
B15	BL-15		607547.9820	575334.7410	2161.09
96	BY16-96		607399.3180	574980.5940	2165.30
97	BY16-97		607474.2510	575425.5600	2137.91
BY17	POINT	DESC.	NORTH	EAST	ELEVATION
B16	BL-16		607453.2850	576050.4320	2138.21
98	BY17-98		607364.1270	576184.5940	2120.10
99	BY17-99		607446.5980	576478.5560	2087.59
BY18	POINT	DESC.	NORTH	EAST	ELEVATION
100	BY18-100		608788.9920	577195.9890	2087.10
B19	BL-19		608772.5500	577402.4760	2087.33

I, Mark A. Parris, PLS, certify that the Project Control was verified 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: Static, OPUS, RTN
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 Datum/Epoch: 2010.0000
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 Localized around: A0009C-10
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This 21st day of December, 2020.

DocuSigned by:

 F51370C885C7288A
 Professional Land Surveyor L-4529

NOTES:

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REVISIONS

SURVEY CONTROL SHEET

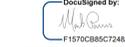
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

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This 21st day of December, 2020.



Professional Land Surveyor L-4529

PROJECT REFERENCE NO.	SHEET NO.
A-0009-C	RW02C-57
Location and Surveys	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

POINT	DESC.	NORTH	EAST	ELEVATION
B40	BL - 40	617874.8580	589687.9530	2353.90
101	BY25-101	618094.3990	589858.2180	2361.85
102	BY25-102	618463.3860	589933.2950	2375.42
103	BY25-103	618773.9610	590049.0190	2397.53
104	BY25-104	618852.4600	590231.3830	2421.71
105	BY25-105	619074.5250	590376.8040	2435.57
106	BY25-106	619127.6290	590572.0890	2449.68
107	BY25-107	619223.1130	590671.1520	2459.21
108	BY25-108	619426.6460	590723.2200	2470.81
109	BY25-109	619592.5040	590924.7330	2489.75
110	BY25-110	619780.3410	590959.9380	2500.97
111	BY25-111	619891.7040	591079.8550	2520.42
112	BY25-112	620091.3970	591018.2560	2533.21
113	BY25-113	620152.7280	591158.2880	2553.95
114	BY25-114	620295.9930	591222.2840	2569.85
115	BY25-115	620440.2020	591197.9380	2584.80
B45	BL - 45	620597.1760	591057.1780	2599.60

POINT	DESC.	NORTH	EAST	ELEVATION
153	BY28-153	624417.1610	597608.9850	2263.12
154	BY28-154	624325.8510	597917.7750	2239.15
155	BY28-155	624278.9330	598098.4640	2225.72
156	BY28-156	624314.9970	598370.3740	2206.90
157	BY28-157	624189.9470	598694.1370	2184.02
158	BY28-158	624094.7480	598887.8720	2173.67
159	BY28-159	624069.7320	599157.9850	2162.39
YY133	BY27-133	623951.4930	599326.2620	2177.41

POINT	DESC.	NORTH	EAST	ELEVATION
160	BY31-160	623371.8520	601893.1250	2051.44
161	BY31-161	623169.7250	602151.7110	2030.72
162	BY31-162	623029.9760	602213.0550	2023.15
Y138	BY27-138	622916.3840	602164.6920	2021.20

POINT	DESC.	NORTH	EAST	ELEVATION
116	BY27-116	627668.7710	595746.1540	2396.26
117	BY27-117	627326.8000	595877.6660	2423.89
118	BY27-118	627008.2080	596006.2820	2451.34
119	BY27-119	626682.7130	596209.7880	2482.85
120	BY27-120	626363.1360	596498.3810	2514.49
YGPS20	A0009C-20	626011.6230	596470.4230	2510.58
121	BY27-121	625776.6740	596555.8310	2502.81
122	BY27-122	625496.1090	596516.2830	2484.55
123	BY27-123	625187.5690	596523.0380	2464.13
124	BY27-124	624993.6440	596480.9010	2451.73
125	BY27-125	624688.4920	596531.7970	2427.37
126	BY27-126	624381.8220	596676.0270	2401.29
127	BY27-127	624086.8430	596954.9890	2369.62
128	BY27-128	623916.0190	597303.6880	2338.16
129	BY27-129	623901.6750	597674.7440	2307.40
130	BY27-130	623923.5590	598192.9300	2266.46
131	BY27-131	623940.6670	598571.9230	2236.14
132	BY27-132	623956.8800	598922.7950	2207.83
133	BY27-133	623951.4930	599326.2620	2177.41
134	BY27-134	623822.0140	599570.4980	2153.60
GPS21	A0009C-21	623606.0530	599868.7320	2122.69
135	BY27-135	623071.7070	600405.2240	2080.82
136	BY27-136	622910.5300	600884.0640	2063.26
137	BY27-137	622916.7800	601599.8220	2037.15
138	BY27-138	622916.3840	602164.6920	2021.20
139	BY27-139	622957.2640	602736.5220	2012.03
140	BY27-140	622929.6210	603417.6160	1997.79
GPS23	NCGS "STECOAH"	622976.4500	603945.8670	1988.16
141	BY27-141	622938.6050	604456.0790	1978.34
142	BY27-142	622940.8330	605087.6130	1966.33
143	BY27-143	623053.9380	605538.9120	1958.94
144	BY27-144	623316.9250	606070.0410	1975.21
145	BY27-145	623582.7310	606398.6840	2000.07
146	BY27-146	623836.6670	606805.8240	2032.90
147	BY27-147	623961.9320	607208.1130	2055.75
148	BY27-148	623945.1160	607549.4850	2064.37
149	BY27-149	623769.6940	607845.3930	2068.27
150	BY27-150	623659.4710	608229.4840	2063.54
151	BY27-151	623714.6670	608713.6890	2041.99
152	BY27-152	623896.7650	609047.4660	2018.05
GPS25	A0009C-25	624253.0900	609365.0450	1986.82

POINT	DESC.	NORTH	EAST	ELEVATION
YGPS23	NCGS "STECOAH"	622976.4500	603945.8670	1988.16
163	BY32-163	623189.2390	604079.3270	1991.07
164	BY32-164	623535.8830	604485.6710	2006.37
165	BY32-165	623766.7880	604751.7330	2005.72

BM1 ELEVATION = 1993.80
N 607747 E 568452
SPIKE NAIL IN 18" MAPLE

BM2 ELEVATION = 2015.91
N 607797 E 569652
CHISELED "X" IN CONC PAD FOR TRAFFIC SIGNAL BOX

BM3 ELEVATION = 2016.23
N 607058 E 571713
SPIKE NAIL IN 10" POPLAR

BM4 ELEVATION = 2108.41
N 607414 E 573959
SPIKE NAIL IN 14" PINE

BM5 ELEVATION = 2132.48
N 607421 E 576156
SPIKE NAIL IN 15" DOUBLE OAK

BM6 ELEVATION = 2100.03
N 609056 E 577733
SPIKE NAIL IN 24" WHITE OAK

BM7 ELEVATION = 2125.10
N 609693 E 579533
SPIKE NAIL IN 20" POPLAR

BM8 ELEVATION = 2148.72
N 610368 E 581380
SPIKE NAIL IN 14" POPLAR

BM9 ELEVATION = 2183.22
N 611767 E 583110
SPIKE NAIL IN 30" MAPLE

BM10 ELEVATION = 2200.60
N 612773 E 584352
SPIKE NAIL IN 14" DOUBLE POPLAR

BM11 ELEVATION = 2234.92
N 613603 E 586710
SPIKE NAIL IN 18" POPLAR

BM12 ELEVATION = 2269.68
N 614929 E 588131
SPIKE NAIL IN 15" POPLAR

BM13 ELEVATION = 2313.25
N 616593 E 589377
SPIKE NAIL IN 24" POPLAR

BM14 ELEVATION = 2410.76
N 618630 E 589915
SPIKE NAIL IN 14" POPLAR

BM15 ELEVATION = 2571.99
N 620243 E 591023
SPIKE NAIL IN 10" POPLAR

BM16 ELEVATION = 2715.81
N 621413 E 592250
SPIKE NAIL IN 13" PINE

BM17 ELEVATION = 2882.87
N 621951 E 593832
SPIKE NAIL IN 12" POPLAR

BM18 ELEVATION = 3033.61
N 619882 E 593172
SPIKE NAIL IN 10" POPLAR

BM19 ELEVATION = 3094.55
N 619399 E 594281
SPIKE NAIL IN 24" MAPLE

BM20 ELEVATION = 2982.50
N 620695 E 595078
SPIKE NAIL IN 20" POPLAR

BM21 ELEVATION = 2806.49
N 622539 E 596717
SPIKE NAIL IN 24" PRINCESS TREE

BM22 ELEVATION = 2715.62
N 623495 E 595954
SPIKE NAIL IN 12" POPLAR

BM23 ELEVATION = 2523.73
N 625892 E 596342
SPIKE NAIL IN 15" POPLAR

BM24 ELEVATION = 1989.37
N 608121 E 567911
BOLT IN MCDONALDS SIGN BASE

BM25 ELEVATION = 2027.51
N 604128 E 568732
SPIKE NAIL IN 18" WALNUT

BM26 ELEVATION = 2018.64
N 606947 E 567547
SPIKE NAIL IN SYCAMORE

BM27 ELEVATION = 2011.45
N 606635 E 568845
SPIKE NAIL IN 12" POPLAR

BM28 ELEVATION = 2360.04
N 618106 E 589822
SPIKE NAIL IN 14" POPLAR

BM29 ELEVATION = 2368.94
N 627954 E 595589
SPIKE NAIL IN 18" POPLAR

BM30 ELEVATION = 2373.76
N 624052 E 596958
SPIKE NAIL IN 30" POPLAR

BM31 ELEVATION = 2178.05
N 623982 E 599277
SPIKE NAIL IN 26" POPLAR

BM32 ELEVATION = 2055.94
N 622874 E 600916
SPIKE NAIL IN 36" POPLAR

BM33 ELEVATION = 2011.30
N 622984 E 602906
SPIKE NAIL IN 10" POPLAR

BM34 ELEVATION = 1956.92
N 623016 E 605233
SPIKE NAIL IN 18" WALNUT

BM35 ELEVATION = 2036.22
N 623779 E 606834
SPIKE NAIL IN 12" DOUBLE POPLAR

BM36 ELEVATION = 2022.34
N 623959 E 608884
SPIKE NAIL IN 24" POPLAR

BM37 ELEVATION = 2238.93
N 624326 E 597907
SPIKE NAIL IN 12" TRIPLE POPLAR

BM38 ELEVATION = 2021.11
N 622788 E 602130
SPIKE NAIL SET IN 6X6 BRIDGE BEAM

BM39 ELEVATION = 2056.76
N 623380 E 601878
SPIKE NAIL SET IN 36" DOUBLE SYCAMORE

BM40 ELEVATION = 2001.31
N 623696 E 604730
SPIKE NAIL IN 30" POPLAR

BM41 ELEVATION = 2063.76
N 624033 E 607585
SPIKE NAIL IN 22" POPLAR

NOTES:

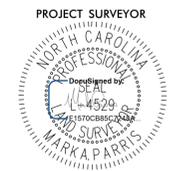
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

22-NOV-2021/145
V:\NC\Survey\032112-21-A-0009CA ROW Stationing\Survey\RW and Control Sheets\A-0009CB\A0009CB-1s-RW02C-57.dgn
Jcgordon

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009-C	SHEET NO. RW02C-58
Location and Surveys	
	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
POT LINE	607503.678	568100.391											
TS	607806.223	568608.923	N 59°15'00.0" E	591.73									
SPIRAL			N 90°00'00.0" E	0.00						00°00'00.0"(RT)	0.00	0.00	0.00
SC	607806.223	568608.923											
CURVE	607927.156	569495.590	N 82°14'00.0" E	894.88	45°58'00.0"(RT)	05°00'00.0"	919.33	486.02	1145.92				
CS			S 71°26'59.6" E	199.93						05°00'00.0"(RT)	200.00	133.39	66.72
SPIRAL	607863.551	569685.135											
ST	606938.973	572195.811	S 69°47'00.0" E	2675.51									
TS			S 71°46'59.3" E	199.90						06°00'00.0"(LT)	200.00	133.41	66.74
SPIRAL	606876.480	572385.695											
SC			N 85°26'00.0" E	614.96	37°34'00.0"(LT)	06°00'00.0"	626.11	324.77	954.93				
CURVE	606925.443	572998.699	N 62°38'59.3" E	199.90						06°00'00.0"(LT)	200.00	133.41	66.74
CS			N 62°38'59.3" E	199.90									
SPIRAL	607017.283	573176.255											
ST			N 60°39'00.0" E	977.01									
TS	607496.161	574027.862											
SPIRAL			N 62°38'59.3" E	199.90						06°00'00.0"(RT)	200.00	133.41	66.74
SC	607588.001	574205.419											
CURVE	607665.207	574627.637	N 79°38'15.0" E	429.22	25°58'30.0"(RT)	06°00'00.0"	432.92	220.24	954.93				
CS			S 83°22'29.3" E	199.90						06°00'00.0"(RT)	200.00	133.41	66.74
SPIRAL	607642.144	574826.204											
ST			S 81°22'30.0" E	956.52									
TS	607498.698	575771.902											
SPIRAL			S 83°22'29.3" E	199.90						06°00'00.0"(LT)	200.00	133.41	66.74
SC	607475.635	575970.470											
CURVE	607828.282	576756.062	N 65°49'30.0" E	861.11	53°36'00.0"(LT)	06°00'00.0"	893.33	482.37	954.93				
CS			N 35°01'29.3" E	199.90						06°00'00.0"(LT)	200.00	133.41	66.74
SPIRAL	607991.983	576870.792											
ST			N 33°01'30.0" E	833.40									
TS	608690.729	577324.997											
SPIRAL			N 36°01'27.7" E	299.67						09°00'00.0"(RT)	300.00	200.26	100.24
SC	608933.093	577501.242											
CURVE	609144.974	577777.704	N 52°32'00.0" E	348.32	21°01'00.0"(RT)	06°00'00.0"	350.28	177.13	954.93				
CS			N 69°02'32.3" E	299.67						09°00'00.0"(RT)	300.00	200.26	100.24
SPIRAL	609252.160	578057.551											
ST			N 72°02'30.0" E	3548.65									
TS	610346.299	581433.315											
SPIRAL			N 70°32'30.3" E	299.92						04°30'00.0"(LT)	300.00	200.06	100.06
SC	610446.208	581716.103											
CURVE	610977.425	582444.361	N 53°53'30.0" E	901.42	27°18'00.0"(LT)	03°00'00.0"	910.00	463.81	1909.86				
CS			N 37°14'29.7" E	299.92						04°30'00.0"(LT)	300.00	200.06	100.06
SPIRAL	611216.187	582625.864											
ST			N 35°44'30.0" E	1195.44									
TS	612186.478	583324.160											
SPIRAL			N 38°14'28.7" E	299.77						07°30'00.0"(RT)	300.00	200.18	100.16
SC	612421.922	583509.711											
CURVE	612715.334	583957.096	N 56°44'30.0" E	535.02	27°00'00.0"(RT)	05°00'00.0"	540.00	275.11	1145.92				
CS			N 75°14'31.3" E	299.77						07°30'00.0"(RT)	300.00	200.18	100.16
SPIRAL	612791.697	584246.978											
ST			N 77°44'30.0" E	1498.79									
TS	613109.920	585711.600											
SPIRAL			N 76°54'30.0" E	199.98						02°30'00.0"(LT)	200.00	133.35	66.68
SC	613155.218	585906.386											
CURVE	613760.563	586952.763	N 59°57'00.0" E	1208.86	30°35'00.0"(LT)	02°30'00.0"	1223.33	626.62	2291.83				
CS			N 42°59'30.0" E	199.98						02°30'00.0"(LT)	200.00	133.35	66.68
SPIRAL	613906.841	587089.130											
ST			N 42°09'30.0" E	405.21									
TS	614207.223	587361.102											
SPIRAL			N 42°49'30.0" E	199.99						02°00'00.0"(RT)	200.00	133.34	66.67
SC	614353.902	587497.047											
CURVE	614605.609	587775.779	N 47°55'00.0" E	375.56	07°31'00.0"(RT)	02°00'00.0"	375.83	188.19	2864.79				
CS			N 53°00'30.0" E	199.99						02°00'00.0"(RT)	200.00	133.34	66.67
SPIRAL	614725.942	587935.515											
ST			N 53°40'30.0" E	621.30									
TS	615093.978	588436.078											
SPIRAL			N 52°50'30.0" E	199.98						02°30'00.0"(LT)	200.00	133.35	66.68
SC	615214.772	588595.459											
CURVE	616395.825	589369.300	N 33°14'00.0" E	1411.99	35°53'00.0"(LT)	02°30'00.0"	1435.33	742.08	2291.83				
CS			N 13°37'30.0" E	199.98						02°30'00.0"(LT)	200.00	133.35	66.68
SPIRAL	616590.180	589416.409											
ST			N 12°47'30.0" E	2009.81									
TS	618550.114	589861.395											
SPIRAL			N 14°47'29.3" E	199.90						06°00'00.0"(RT)	200.00	133.41	66.74
SC	618743.392	589912.431											
CURVE	619071.135	590103.565	N 30°15'00.0" E	379.40	22°55'00.0"(RT)	06°00'00.0"	381.94	193.56	954.93				
CS			N 45°42'30.7" E	199.90						06°00'00.0"(RT)	200.00	133.41	66.74
SPIRAL	619210.728	590246.654											
ST			N 47°42'30.0" E	422.48									
TS	619495.020	590559.178											
SPIRAL			N 45°42'30.7" E	199.90						06°00'00.0"(LT)	200.00	133.41	66.74
SC	619634.613	590702.267											
CURVE	619933.071	590882.901	N 31°11'00.0" E	348.86	21°03'00.0"(LT)	06°00'00.0"	350.83	177.42	954.93				
CS			N 16°39'29.3" E	199.90						06°00'00.0"(LT)	200.00	133.41	66.74
SPIRAL	620124.584	590940.205											
ST			N 14°39'30.0" E	226.68									
TS	620343.887	590997.568											
SPIRAL			N 16°39'29.3" E	199.90						06°00'00.0"(RT)	200.00	133.41	66.74
SC	620535.400	591054.872											
CURVE	621051.800	591519.705	N 41°59'30.0" E	694.79	42°40'00.0"(RT)	06°00'00.0"	711.11	372.95	954.93				
CS			N 67°19'30.7" E	199.90						06°00'00.0"(RT)	200.00	133.41	66.74
SPIRAL	621128.862	591704.156											
ST			N 69°19'30.0" E	105.80									
TS	621166.216	591803.140											
SPIRAL			N 65°59'33.1" E	199.73						10°00'00.0"(LT)	200.00	133.55	66.86
SC	621247.477	591985.591											

I, Mark A. Parris, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: Static, OPUS, RTN
 Dates of survey: 2/2020-3/2020
 Datum/Epoch: 2010.0000
 Published/Fixed-control use: N/A
 Localized around: A0009C-10
 Northing: 612531.117
 Easting: 584817.003
 Combined grid factor: 0.999772236
 Geoid model: 18 CONUS
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 3/2020 to 5/2020, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 21st day of December, 2020.

DocuSigned by:

 F1570C886C7248A
 Professional Land Surveyor L-4529

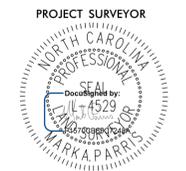
NOTES:

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REVISIONS

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009-C	SHEET NO. RW02C-59
Location and Surveys	
	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
CURVE				124.26	12°27'00.0"(LT)	10°00'00.0"	124.50	62.50	572.96				
CS	621322.082	592084.956	N 53°06'00.0" E										
SPIRAL			N 40°12'26.9" E	199.73						10°00'00.0"(LT)	200.00	133.55	66.86
ST	621474.618	592213.893											
LINE			N 36°52'30.0" E	142.18									
TS	621588.358	592299.214											
SPIRAL			N 38°52'29.3" E	199.90						06°00'00.0"(RT)	200.00	133.41	66.74
SC	621743.986	592424.677											
CURVE			N 47°44'30.0" E	162.03	09°44'00.0"(RT)	06°00'00.0"	162.22	81.31	954.93				
CS	621852.945	592544.597											
SPIRAL			N 56°36'30.7" E	199.90						06°00'00.0"(RT)	200.00	133.41	66.74
ST	621962.963	592711.501											
LINE			N 58°36'30.0" E	385.31									
TS	622163.667	593040.415											
SPIRAL			N 65°36'01.2" E	298.21						21°00'00.0"(RT)	300.00	201.43	101.30
SC	622286.858	593311.993											
CURVE			S 50°29'00.0" E	626.17	99°49'00.0"(RT)	14°00'00.0"	712.98	486.15	409.26				
CS	621888.423	593795.048											
SPIRAL			S 13°25'58.8" W	298.21						21°00'00.0"(RT)	300.00	201.43	101.30
ST	621598.368	593725.771											
LINE			S 20°25'30.0" W	538.56									
TS	621093.672	593537.825											
SPIRAL			S 17°05'33.1" W	199.73						10°00'00.0"(LT)	200.00	133.55	66.86
SS	620902.764	593479.122											
SPIRAL			S 03°45'26.9" W	199.73						10°00'00.0"(LT)	200.00	133.55	66.86
ST	620703.464	593466.033											
LINE			S 00°25'30.7" W	111.15									
TS	620592.317	593465.208											
SPIRAL			S 03°45'26.9" W	199.73						10°00'00.0"(RT)	200.00	133.55	66.86
SC	620393.017	593452.119											
CURVE			S 14°58'30.0" W	90.90	09°06'00.0"(RT)	10°00'00.0"	91.00	45.60	572.96				
CS	620305.200	593428.630											
SPIRAL			S 26°11'33.1" W	199.73						10°00'00.0"(RT)	200.00	133.55	66.86
ST	620125.980	593340.471											
LINE			S 29°31'30.0" W	49.21									
TS	620083.162	593316.221											
SPIRAL			S 27°01'31.3" W	149.89						07°30'00.0"(LT)	150.00	100.09	50.08
SC	619949.643	593248.115											
CURVE			S 17°08'30.0" W	97.55	09°46'00.0"(LT)	10°00'00.0"	97.67	48.95	572.96				
CS	619856.427	593219.365											
SPIRAL			S 07°15'28.7" W	149.89						07°30'00.0"(LT)	150.00	100.09	50.08
ST	619707.743	593200.428											
LINE			S 04°45'30.0" W	117.27									
TS	619590.879	593190.701											
PC			S 02°38'00.0" W	212.45	04°15'00.0"(LT)	02°00'00.0"	212.50	106.30	2864.79				
CURVE			S 00°30'30.0" W	368.42									
PT	619378.652	593180.940											
LINE			S 05°07'15.0" E	199.23						16°54'00.0"(LT)	200.00	133.95	67.22
TS	619010.249	593177.671											
SPIRAL			S 74°29'30.0" E	575.65	116°12'00.0"(LT)	16°54'00.0"	687.57	544.67	339.03				
SC	618811.816	593195.454											
CURVE			N 36°08'15.0" E	199.23						16°54'00.0"(LT)	200.00	133.95	67.22
CS	618657.900	593750.146											
SPIRAL			N 30°30'30.0" E	410.40									
ST	618818.797	593867.635											
LINE			N 31°50'29.8" E	199.96						04°00'00.0"(RT)	200.00	133.37	66.70
TS	619172.381	594075.982											
SPIRAL			N 38°15'30.0" E	187.37	07°30'00.0"(RT)	04°00'00.0"	187.50	93.88	1432.39				
SC	619342.246	594181.473											
CURVE			N 44°40'30.2" E	199.96						04°00'00.0"(RT)	200.00	133.37	66.70
CS	619489.371	594297.492											
SPIRAL			N 46°00'30.0" E	379.05									
ST	619631.561	594438.079											
LINE			N 42°40'33.1" E	199.73						10°00'00.0"(LT)	200.00	133.55	66.86
TS	619894.832	594710.783											
SPIRAL			N 26°30'30.0" E	189.13	19°00'00.0"(LT)	10°00'00.0"	190.00	95.88	572.96				
SC	620041.673	594846.169											
CURVE			N 10°20'26.9" E	199.73						10°00'00.0"(LT)	200.00	133.55	66.86
CS	620210.920	594930.584											
SPIRAL			N 07°00'30.0" E	1.54									
ST	620407.406	594966.436											
LINE			N 10°20'26.9" E	199.73						10°00'00.0"(RT)	200.00	133.55	66.86
TS	620408.936	594966.624											
SPIRAL			N 44°45'30.0" E	533.55	55°30'00.0"(RT)	10°00'00.0"	555.00	301.45	572.96				
SC	620605.422	595002.476											
CURVE			N 80°50'36.1" E	249.47						12°30'00.0"(RT)	250.00	167.08	83.71
CS	620984.290	595378.162											
SPIRAL			N 85°00'30.0" E	50.12									
ST	621023.989	595624.454											
LINE			N 81°40'33.1" E	199.73						10°00'00.0"(LT)	200.00	133.55	66.86
TS	621028.350	595674.381											
SPIRAL			N 57°00'30.0" E	354.11	36°00'00.0"(LT)	10°00'00.0"	360.00	186.17	572.96				
SC	621057.266	595872.006								10°00'00.0"(LT)	200.00	133.55	66.86
CURVE			N 32°20'26.9" E	199.73									
CS	621250.883	596169.013											
SPIRAL			N 29°00'30.0" E	678.77									
ST	621418.831	596275.859											
LINE			N 24°25'38.1" E	199.49						13°45'00.0"(LT)	200.00	133.74	67.03
TS	622012.451	596605.022											
SPIRAL			N 08°52'00.0" W	340.63	48°15'00.0"(LT)	13°45'00.0"	350.91	186.62	416.70				
SC	622194.083	596687.517											
CURVE			N 42°09'38.1" W	199.49						13°45'00.0"(LT)	200.00	133.74	67.03
CS	622530.644	596635.014											
SPIRAL			N 46°44'30.0" W	50.90									
ST	622678.518	596501.115											
LINE			N 43°39'32.5" W	199.77						09°15'00.0"(RT)	200.00	133.52	66.83
TS	622713.396	596464.049											
SPIRAL			N 33°52'52.5" W	78.01	07°13'15.0"(RT)	09°15'00.0"	78.06	39.08	619.41				
SC	622857.921	596326.136											
CURVE			N 24°06'12.5" W	199.77						09°15'00.0"(RT)	200.00	133.52	66.83
CS	622922.686	596282.647											
SPIRAL													
ST	623105.036	596201.064											

I, Mark A. Parris, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: Static, OPUS, RTN
 Dates of survey: 2/2020-3/2020
 Datum/Epoch: 2010.0000
 Published/Fixed-control use: N/A
 Localized around: A0009C-10
 Northing: 612531.117
 Easting: 584817.003
 Combined grid factor: 0.999772236
 Geoid model: 18 CONUS
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 3/2020 to 5/2020, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 21st day of December, 2020.

Designed by:

 F1570C885C7248A
 Professional Land Surveyor L-4529

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

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009-C	SHEET NO. RW02C-60
Location and Surveys	
	
	
PROJECT SURVEYOR DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
LINE			N 21°01'15.0" W	1077.63									
TS	624110.952	595814.510	N 15°53'56.3" W	299.04						15°22'30.0"(RT)	300.00	200.76	100.69
SPIRAL													
SC	624398.554	595732.590	N 06°04'45.0" E	227.19	23°27'00.0"(RT)	10°15'00.0"	228.78	116.01	558.98				
CURVE													
CS	624624.463	595756.650	N 26°20'51.5" E	249.44						12°48'45.0"(RT)	250.00	167.11	83.73
SPIRAL													
ST	624847.995	595867.357	N 30°37'00.0" E	837.77									
LINE													
PC	625568.973	596294.026	N 18°12'00.0" E	223.99	24°50'00.0"(LT)	11°00'00.0"	225.76	114.68	520.87				
CURVE													
PT	625781.762	596363.987	N 05°47'00.0" E	78.91									
LINE													
PC	625860.267	596371.938	N 46°31'00.0" E	115.04	81°28'00.0"(RT)	65°00'00.0"	125.33	75.91	88.15				
CURVE													
PT	625939.430	596455.408	N 87°15'00.0" E	72.56									
LINE													
POT	625942.911	596527.882											

EY1 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
POT	605123.939	568331.392	N 19°52'00.0" W	772.34									
LINE													
TS	605850.311	568068.927	N 18°42'00.1" W	199.97						03°30'00.0"(RT)	200.00	133.36	66.69
SPIRAL													
SC	606039.722	568004.814	N 00°36'30.0" E	955.87	33°57'00.0"(RT)	03°30'00.0"	970.00	499.71	1637.02				
CURVE													
CS	606995.539	568014.963	N 00°00'00.0" E	0.00						00°00'00.0"(RT)	0.00	0.00	0.00
SPIRAL													
ST	606995.539	568014.963	N 17°35'00.0" E	50.57									
LINE													
TS	607043.747	568030.240	N 15°35'00.7" E	199.90						06°00'00.0"(LT)	200.00	133.41	66.74
SPIRAL													
SC	607236.301	568083.942	N 11°46'07.5" W	757.03	46°42'15.0"(LT)	06°00'00.0"	778.40	412.29	954.93				
CURVE													
CS	607977.418	567929.537	N 39°07'15.7" W	199.90						06°00'00.0"(LT)	200.00	133.41	66.74
SPIRAL													
ST	607977.418	567929.537											

EY2 POINT	N	E	BEARING	DIST
POT	606376.640	567943.210		
LINE			S 79°51'54.5" E	155.16
POT	606349.336	568095.954		

EY3 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	606848.675	567645.797	S 50°44'00.0" E	102.59	07°42'00.0"(RT)	07°30'00.0"	102.67	51.41	763.94
CURVE									
PT	606783.743	567725.223	S 46°53'00.0" E	294.91					
LINE									
POT	606582.179	567940.493							

EY4 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	606951.118	567789.285	S 49°45'30.0" E	166.73					
LINE									
PC	606843.406	567916.557	S 64°12'30.0" E	38.13	28°54'00.0"(LT)	75°00'00.0"	38.53	19.69	76.39
CURVE									
PT	606826.817	567950.885	S 78°39'30.0" E	19.94					
LINE									
POT	606822.895	567970.438							

EY5 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	607847.825	569260.651	S 89°08'02.5" E	112.52	14°40'05.0"(RT)	13°00'00.0"	112.83	56.73	440.74
CURVE									
PT	607846.124	569373.162	S 81°48'00.0" E	197.97					
LINE									
PC	607817.888	569569.103	N 59°12'30.1" E	62.92	77°58'59.9"(LT)	114°35'29.6"	68.05	40.48	50.00
CURVE									
PT	607850.099	569623.154	N 20°13'00.1" E	33.93					
LINE									
POT	607881.939	569634.880							

EY6 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	608201.941	569722.672	S 09°55'00.0" W	210.03					
LINE									
PC	607995.052	569686.502	S 14°59'00.0" W	101.20	10°08'00.0"(RT)	10°00'00.0"	101.33	50.80	572.96
CURVE									
PT	607897.291	569660.337	S 20°03'00.0" W	23.13					
LINE									
POT	607875.565	569652.408							

I, Mark A. Parris, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: Static, OPUS, RTN
 Dates of survey: 2/2020-3/2020
 Datum/Epoch: 2010.0000
 Published/Fixed-control use: N/A
 Localized around: A0009C-10
 Northing: 612531.117
 Easting: 584817.003
 Combined grid factor: 0.99972236
 Geoid model: 18 CONUS
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 3/2020 to 5/2020, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 21st day of December, 2020.


 Professional Land Surveyor L-4529

NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 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

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009-C	SHEET NO. RW02C-61
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EY7				
POINT	N	E	BEARING	DIST
POT	607636.414	570714.779		
LINE			S 38°12'00.0" W	150.00
POT	607518.536	570622.018		

EY8									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	607196.569	571496.314							
LINE			S 20°13'00.1" W	111.20					
PC	607092.219	571457.887							
CURVE			S 01°03'59.9" E	297.10	42°34'00.1"(L.T)	14°00'00.0"	304.05	159.43	409.26
PT	606795.167	571463.417							

EY9									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	606865.913	572432.267							
LINE			N 30°08'00.0" E	28.91					
PC	606890.914	572446.779							
CURVE			N 44°41'00.0" E	61.25	29°06'00.0"(RT)	47°00'00.0"	61.91	31.64	121.91
PT	606934.464	572489.850							
LINE			N 59°14'00.0" E	148.10					
POT	607010.225	572617.110							

EY10									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	607389.438	573365.625							
LINE			S 14°23'30.0" W	178.53					
PC	607216.513	573321.252							
CURVE			S 07°28'45.0" E	71.15	43°44'30.0"(L.T)	60°00'00.0"	72.90	38.33	95.49
PT	607145.973	573330.512							
LINE			S 29°21'00.0" E	36.56					
POT	607114.103	573348.434							

EY11									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	607647.033	574393.491							
CURVE			S 55°42'30.1" E	136.63	32°53'59.7"(L.T)	23°45'00.0"	138.53	71.23	241.25
PT	607570.054	574506.372							
LINE			S 72°09'30.0" E	47.20					
PC	607555.594	574551.299							
CURVE			S 62°36'04.2" E	80.11	19°06'51.5"(RT)	23°45'00.0"	80.48	40.62	241.25
PT	607518.730	574622.421							

EY12				
POINT	N	E	BEARING	DIST
POT	607589.735	575171.722		
LINE			S 01°22'30.0" E	145.64
POT	607444.137	575175.217		

EY13									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	607479.326	576108.768							
LINE			S 05°41'00.0" E	48.23					
PC	607431.335	576113.544							
CURVE			S 44°01'37.7" E	73.29	76°41'15.5"(L.T)	97°00'00.1"	79.06	46.72	59.07
PCC	607378.640	576164.480							
CURVE			N 87°03'22.3" E	48.06	21°08'44.5"(L.T)	43°45'00.0"	48.33	24.44	130.96
PT	607381.108	576212.476							
LINE			N 76°29'00.0" E	24.63					
PC	607386.864	576236.422							
CURVE			N 74°17'30.0" E	67.42	04°23'00.0"(L.T)	06°30'00.0"	67.44	33.73	881.47
PT	607405.117	576301.323							
LINE			N 72°06'00.0" E	141.60					
PC	607448.640	576436.073							
CURVE			N 79°08'43.1" E	86.49	14°05'26.2"(RT)	16°15'00.0"	86.71	43.58	352.59
PT	607464.929	576521.019							

EY14									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	608774.473	577205.716							
CURVE			S 78°55'30.0" E	95.80	44°12'00.0"(RT)	44°59'59.9"	98.22	51.70	127.32
PT	608756.069	577299.736							
LINE			S 56°49'30.0" E	56.83					
POT	608724.972	577347.303							

EY15				
POINT	N	E	BEARING	DIST
POT	609032.793	577605.804		
LINE			S 42°16'47.3" E	150.00
POT	608921.813	577706.716		

EY16				
POINT	N	E	BEARING	DIST
POT	609572.432	578514.608		
LINE			S 01°42'30.0" E	170.56
POT	609401.948	578519.693		

EY17				
POINT	N	E	BEARING	DIST
POT	612710.734	583644.833		
LINE			S 29°41'30.0" E	136.01
POT	612592.578	583712.205		

EY18				
POINT	N	E	BEARING	DIST
POT	612920.172	584838.284		
LINE			S 15°22'29.8" E	344.00
POT	612588.483	584929.490		

EY19									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	613267.000	586230.207							
LINE			S 13°33'00.0" E	27.47					
PC	613240.298	586236.642							
CURVE			S 25°12'30.0" E	39.92	23°19'00.0"(L.T)	58°00'00.0"	40.20	20.38	98.79
PT	613204.175	586253.646							
LINE			S 36°52'00.0" E	15.32					
PC	613191.923	586262.835							
CURVE			S 04°40'00.0" W	30.39	83°04'00.0"(RT)	250°00'00.0"	33.23	20.30	22.92
PT	613161.631	586260.362							
LINE			S 46°12'00.0" W	58.79					
POT	613120.940	586217.930							

I, Mark A. Parris, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: Static, OPUS, RTN
 Dates of survey: 2/2020-3/2020
 Datum/Epoch: 2010.0000
 Published/Fixed-control use: N/A
 Localized around: A0009C-10
 Northing: 612531.117
 Easting: 584817.003
 Combined grid factor: 0.99977236
 Geoid model: 18 CONUS
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 3/2020 to 5/2020, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 21st day of December, 2020.

Designed by:

 F1570C885C7248A...

Professional Land Surveyor L-4529

NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 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

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009-C	SHEET NO. RW02C-62
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

Work\Control Sheets\A0009C-1s-RW02C-62.dgn

21-1AN-20210410 V:\NC\Survey\032012-14_A-0009 CON\Survey\DATA WKS-1503PY-34 Jcgor-don

EY20										
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	
POT	617950.675	589725.298	N 83°12'00.0" E	45.76						
LINE										
PC	617956.093	589770.734	N 63°37'55.9" E	30.70	39°08'08.3"(L T)	125°00'00.2"	31.31	16.29	45.84	
CURVE	617969.729	589798.243	N 29°42'25.9" E	45.83	28°42'51.7"(L T)	62°00'00.1"	46.31	23.65	92.41	
PCC	618009.536	589820.955	N 15°21'00.0" E	240.69						
PT										
LINE	618241.636	589884.668	N 15°46'00.0" E	27.78	00°50'00.0"(RT)	03°00'00.0"	27.78	13.89	1909.86	
PC										
CURVE	618268.369	589892.216	N 16°11'00.0" E	52.62						
PT										
LINE	618318.902	589906.882	N 15°31'30.0" E	43.89	01°19'00.0"(L T)	03°00'00.0"	43.89	21.95	1909.86	
PC										
CURVE	618361.189	589918.629	N 14°52'00.0" E	178.51						
PT										
LINE	618533.722	589964.429	N 15°06'00.0" E	46.67	00°28'00.0"(RT)	01°00'00.0"	46.67	23.33	5729.58	
PC										
CURVE	618578.777	589976.585	N 15°20'00.0" E	224.24						
PT										
LINE	618795.031	590035.881	N 19°54'11.4" E	52.93	09°08'22.7"(RT)	17°15'00.0"	52.98	26.55	332.15	
PC										
CURVE	618844.797	590053.899	N 61°36'11.4" E	87.01	74°15'37.3"(RT)	79°30'00.0"	93.41	54.57	72.07	
PCC	618886.175	590130.437	S 81°16'00.0" E	50.47						
PT										
LINE	618878.512	590180.324	N 71°12'38.0" E	87.17	55°02'44.0"(L T)	60°45'00.1"	90.61	49.14	94.31	
PC										
CURVE	618906.587	590262.844	N 31°37'08.0" E	79.21	24°08'16.0"(L T)	30°15'00.0"	79.79	40.50	189.41	
PCC	618974.035	590304.369	N 19°33'00.0" E	61.89						
PT										
LINE	619032.355	590325.079	N 50°46'30.0" E	99.01	62°27'00.0"(RT)	60°00'00.0"	104.08	57.89	95.49	
PC										
CURVE	619094.964	590401.776	N 82°00'00.0" E	65.49						
PT										
LINE	619104.078	590466.626	N 73°35'55.0" E	74.41	16°48'10.0"(L T)	22°30'00.0"	74.68	37.61	254.65	
PC										
CURVE	619125.089	590538.010	N 59°20'34.2" E	80.61	11°42'31.5"(L T)	14°30'00.0"	80.75	40.52	395.14	
PCC	619166.192	590607.353	N 32°37'09.2" E	129.59	41°44'18.5"(L T)	31°30'00.0"	132.50	69.35	181.89	
PT										
LINE	619275.344	590677.210	N 11°45'00.0" E	40.71						
PC										
CURVE	619315.198	590685.500	N 26°21'36.5" E	132.89	29°13'13.0"(RT)	21°45'00.0"	134.35	68.67	263.43	
PCC	619434.275	590744.507	N 44°27'06.5" E	132.55	06°57'47.0"(RT)	05°15'00.0"	132.63	66.40	1091.35	
PT										
LINE	619528.893	590837.331	N 47°56'00.0" E	98.27						
PC										
CURVE	619594.733	590910.283	N 42°19'05.4" E	44.41	11°13'49.3"(L T)	25°15'00.0"	44.48	22.31	226.91	
PCC	619627.567	590940.179	N 12°37'05.4" E	72.22	48°10'10.7"(L T)	64°45'00.0"	74.39	39.55	88.49	
PT										
LINE	619698.044	590955.956	N 11°28'00.0" W	57.01						
PC										
CURVE	619753.914	590944.623	N 26°36'00.0" E	82.16	76°08'00.0"(RT)	86°00'00.0"	88.53	52.18	66.62	
PCC	619827.375	590981.409	N 64°40'00.0" E	53.21						
PT										
LINE	619850.141	591029.499	N 22°34'20.1" E	98.48	84°11'19.8"(L T)	78°00'00.1"	107.93	66.36	73.46	
PC										
CURVE	619941.080	591067.302	N 24°31'39.9" E	47.61	10°00'40.2"(L T)	21°00'00.0"	47.67	23.90	272.84	
PCC	619984.395	591047.537	N 29°32'00.0" W	65.08						
PT										
LINE	620041.018	591015.458	N 28°29'00.0" E	135.94	116°02'00.0"(RT)	71°30'00.0"	162.28	128.32	80.13	
PC										
CURVE	620160.503	591080.288	N 86°30'00.0" E	55.27						
PT										
LINE	620163.877	591135.457	N 49°18'49.8" E	96.19	74°22'20.4"(L T)	72°00'00.0"	103.29	60.37	79.58	
PC										
CURVE	620226.587	591208.400	N 02°49'49.8" E	60.20	18°35'39.6"(L T)	30°45'00.0"	60.47	30.50	186.33	
PCC	620286.718	591211.373	N 06°28'00.0" W	73.71						
PT										
LINE	620359.956	591203.072	N 13°07'53.8" W	88.67	13°19'47.7"(L T)	15°00'00.0"	88.87	44.63	381.97	
PC										
CURVE	620446.303	591182.928	N 34°13'53.8" W	86.56	28°52'12.3"(L T)	33°00'00.0"	87.49	44.69	173.62	
PCC	620517.871	591134.233	N 48°40'00.0" W	85.01						
PT										
LINE	620574.015	591070.401								
POT										

EY21										
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	
PC	618500.969	589629.459	S 72°07'00.9" E	117.31	22°07'58.1"(L T)	18°45'00.0"	118.04	59.77	305.58	
CURVE										
PT	618464.946	589741.101	S 83°11'00.0" E	98.99						
LINE										
POT	618453.196	589839.391								

I, Mark A. Parris, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: Static, OPUS, RTN
 Dates of survey: 2/2020-3/2020
 Datum/Epoch: 2010.0000
 Published/Fixed-control use: N/A
 Localized around: A0009C-10
 Northing: 612531.117
 Easting: 584817.003
 Combined grid factor: 0.999772236
 Geoid model: 18 CONUS
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 3/2020 to 5/2020, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 21st day of December, 2020.

 Professional Land Surveyor L-4529

NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 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

PROJECT REFERENCE NO. A-0009-C	SHEET NO. RW02C-63
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EY22 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
PC	627741.064	595689.284											
CURVE			S 24°31'35.4" E	220.27	08°49'10.8"(RT)	04°00'00.0"	220.49	110.46	1432.39				
PT	627540.665	595780.722											
LINE			S 20°07'00.0" E	113.67									
CURVE	627433.928	595819.818											
PT	627336.739	595854.920	S 19°51'30.0" E	103.33	00°31'00.0"(RT)	00°30'00.0"	103.33	51.67	11459.16				
LINE			S 19°36'00.0" E	92.61									
TS	627249.494	595885.986											
SPIRAL			S 21°15'59.6" E	199.93						05°00'00.0"(LT)	200.00	133.39	66.72
SC	627063.177	595958.503											
CURVE			S 31°49'30.0" E	288.23	14°27'00.0"(LT)	05°00'00.0"	289.00	145.27	1145.92				
CS	626818.274	596110.497											
SPIRAL			S 42°23'00.4" E	199.93						05°00'00.0"(LT)	200.00	133.39	66.72
ST	626670.594	596245.269											
LINE			S 44°03'00.0" E	121.42									
TS	626583.329	596329.688											
SPIRAL			S 40°33'03.6" E	149.78						10°30'00.0"(RT)	150.00	100.18	50.16
SC	626469.525	596427.061											
CURVE			S 19°42'00.0" E	195.94	27°42'00.0"(RT)	14°00'00.0"	197.86	100.90	409.26				
CS	626285.057	596493.110											
SPIRAL			S 00°00'00.0" E	0.00						00°00'00.0"(RT)	0.00	0.00	0.00
ST	626285.057	596493.110											
LINE			S 05°51'00.0" E	303.67									
PC	625982.965	596524.062											
CURVE			S 03°59'30.0" E	185.80	03°43'00.0"(RT)	02°00'00.0"	185.83	92.95	2864.79				
PT	625797.615	596536.996											
LINE			S 02°08'00.0" E	33.04									
PC	625764.602	596538.226											
CURVE			S 01°45'00.0" W	310.43	07°46'00.0"(RT)	02°30'00.0"	310.67	155.57	2291.83				
PT	625454.318	596528.746											
LINE			S 05°38'00.0" W	162.84									
TS	625292.260	596512.761											
SPIRAL			S 03°08'01.3" W	299.77						07°30'00.0"(LT)	300.00	200.18	100.16
SC	624992.937	596496.373											
CURVE			S 44°40'00.0" E	1557.16	85°36'00.0"(LT)	05°00'00.0"	1712.00	1061.13	1145.92				
CS	623885.468	597591.031											
SPIRAL			N 89°11'59.6" E	199.93						05°00'00.0"(LT)	200.00	133.39	66.72
ST	623888.260	597790.943											
LINE			N 87°32'00.0" E	1166.46									
PC	623938.462	598956.324											
CURVE			N 89°20'03.9" E	205.80	03°36'07.8"(RT)	01°45'00.0"	205.84	102.95	3274.04				
PCC	623940.853	599162.113											
CURVE			S 82°21'56.4" E	199.54	12°59'51.7"(RT)	06°30'00.0"	199.96	100.41	881.47				
PCC	623914.345	599359.881											
CURVE			S 58°36'30.3" E	715.73	34°31'00.5"(RT)	04°45'00.0"	726.67	374.74	1206.23				
PT	623541.532	599970.848											
LINE			S 41°21'00.0" E	314.25									
TS	623305.630	600178.457											
SPIRAL			S 42°52'14.7" E	149.96						04°33'45.0"(LT)	150.00	100.03	50.03
SC	623195.728	600280.481											
CURVE			S 62°56'00.0" E	551.39	34°02'30.0"(LT)	06°05'00.0"	559.59	288.33	941.85				
CS	622944.828	600771.485											
SPIRAL			S 87°03'08.7" E	349.46						10°38'45.0"(LT)	350.00	233.76	117.05
ST	622926.858	601120.486											
LINE			N 89°24'00.0" E	622.27									
PC	622933.375	601742.723											
CURVE			N 89°29'30.0" E	73.33	00°11'00.0"(RT)	00°15'00.0"	73.33	36.67	22918.31				
PT	622934.025	601816.054											
LINE			N 89°35'00.0" E	3296.93									
PC	622958.001	605112.896											
CURVE			N 85°30'06.8" E	217.49	08°09'46.4"(LT)	03°45'00.0"	217.68	109.02	1527.89				
PCC	622975.058	605329.719											
CURVE			N 70°07'06.8" E	359.32	22°36'13.6"(LT)	06°15'00.0"	361.66	183.21	916.73				
PT	623097.254	605667.623											
LINE			N 58°49'00.0" E	135.14									
PC	623167.225	605783.235											
CURVE			N 57°59'30.0" E	164.99	01°39'00.0"(LT)	01°00'00.0"	165.00	82.51	5729.58				
PT	623254.679	605923.145											
LINE			N 57°10'00.0" E	825.77									
TS	623702.408	606616.998											
SPIRAL			N 61°26'33.5" E	399.11						12°50'00.0"(RT)	400.00	267.37	133.97
SC	623893.198	606967.551											
CURVE			N 84°32'30.0" E	448.40	29°05'00.0"(RT)	06°25'00.0"	453.25	231.62	892.92				
CS	623935.850	607413.914											
SPIRAL			N 90°00'00.0" E	0.00						00°00'00.0"(RT)	0.00	0.00	0.00
ST	623935.850	607413.914											
LINE			S 80°55'00.0" E	30.23									
PC	623931.078	607443.763											
CURVE			S 73°59'56.0" E	220.83	13°50'08.0"(RT)	06°15'00.0"	221.37	111.23	916.73				
PT	623870.204	607656.039											
LINE			S 67°04'52.0" E	58.27									
POT	623847.513	607709.708											

I, Mark A. Parris, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: Static, OPUS, RTN
 Dates of survey: 2/2020-3/2020
 Datum/Epoch: 2010.0000
 Published/Fixed-control use: N/A
 Localized around: A0009C-10
 Northing: 612531.117
 Easting: 504817.003
 Combined grid factor: 0.99972236
 Geoid model: 18 CONUS
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 3/2020 to 5/2020, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 21st day of December, 2020.

DocuSigned by:

 F1510C885C7248A
 Professional Land Surveyor L-4529

REVISIONS

NOTES:

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

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009-C	SHEET NO. RW02C-64
Location and Surveys	
	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EY23

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	624219.431	598639.498	S 69°57'00.0" E	64.08					
LINE									
PC	624197.463	598699.690	S 65°30'00.0" E	59.27	08°54'00.0"(RT)	15°00'00.0"	59.33	29.73	381.97
CURVE									
PT	624172.883	598753.627	S 61°03'00.0" E	75.35					
LINE									
PC	624136.409	598819.563	S 66°44'00.9" E	103.17	11°22'01.8"(LT)	11°00'00.0"	103.34	51.84	520.87
CURVE									
PCC	624095.657	598914.341	S 83°16'00.9" E	128.78	21°41'58.2"(LT)	16°45'00.0"	129.55	65.56	342.06
CURVE									
PT	624080.559	599042.230	N 85°53'00.0" E	33.56					
LINE									
PC	624082.968	599075.708	N 89°49'00.0" E	78.60	07°52'00.0"(RT)	10°00'00.0"	78.67	39.40	572.96
CURVE									
PT	624083.220	599154.312	S 86°15'00.0" E	63.59					
LINE									
PC	624079.061	599217.770	S 79°24'00.0" E	29.24	13°42'00.0"(RT)	46°45'00.0"	29.30	14.72	122.56
CURVE									
PT	624073.683	599246.506	S 72°33'00.0" E	8.57					
LINE									
PC	624071.113	599254.681	S 41°12'00.0" E	59.62	62°42'00.0"(RT)	100°00'00.0"	62.70	34.90	57.30
CURVE									
PT	624026.256	599293.951	S 09°51'00.0" E	26.29					
LINE									
PC	624000.354	599298.448	S 06°46'00.0" E	61.64	06°10'00.0"(RT)	10°00'00.0"	61.67	30.86	572.96
CURVE									
PT	623939.146	599305.711	S 03°41'00.0" E	13.14					
LINE									
POT	623926.029	599306.555							

EY24

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	623569.043	599945.874	S 24°40'00.0" W	65.79					
LINE									
PC	623509.253	599918.416	S 20°17'30.0" W	48.56	08°45'00.0"(LT)	18°00'00.0"	48.61	24.35	318.31
CURVE									
PT	623463.703	599901.574	S 15°55'00.0" W	47.85					
LINE									
POT	623417.684	599888.451							

EY25

POINT	N	E	BEARING	DIST
POT	622936.181	602112.442	S 00°36'00.0" W	136.15
LINE				
POT	622800.042	602111.016		

EY25A

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	622749.119	601911.855	N 75°05'00.0" E	188.50					
LINE									
PC	622797.642	602094.005	S 86°25'30.0" E	45.43	36°59'00.0"(RT)	80°00'00.0"	46.23	23.95	71.62
CURVE									
PT	622794.810	602139.348	S 67°56'00.0" E	104.60					
LINE									
POT	622755.515	602236.282							

EY26

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	623401.804	601878.990	S 52°02'47.2" E	47.45	17°01'34.4"(RT)	35°45'00.0"	47.63	23.99	160.27
CURVE									
PT	623372.621	601916.405	S 43°32'00.0" E	67.43					
LINE									
PC	623323.738	601962.847	S 47°31'30.0" E	145.03	07°59'00.0"(LT)	05°30'00.0"	145.15	72.69	1041.74
CURVE									
PT	623225.801	602069.820	S 51°31'00.0" E	86.11					
LINE									
PC	623172.217	602137.225	S 44°14'41.8" E	36.72	14°32'36.3"(RT)	39°30'00.0"	36.82	18.51	145.05
CURVE									
PT	623145.912	602162.846	S 18°44'41.8" E	128.02	36°27'23.7"(RT)	28°00'00.0"	130.20	67.39	204.63
CURVE									
PCC	623024.685	602203.985	S 00°31'00.0" E	87.84					
LINE									
POT	622936.852	602204.777							

EY27

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	623720.789	604718.473	S 50°30'00.0" W	14.91					
LINE									
PC	623711.302	604706.964	S 54°09'00.0" W	121.58	07°18'00.0"(RT)	06°00'00.0"	121.67	60.92	954.93
CURVE									
PT	623640.095	604608.414	S 57°48'00.0" W	42.89					
LINE									
PC	623617.239	604572.120	S 52°05'00.0" W	120.15	11°26'00.0"(LT)	09°30'00.0"	120.35	60.38	603.11
CURVE									
PT	623543.404	604477.332	S 46°22'00.0" W	65.94					
LINE									
PC	623497.902	604429.605	S 47°38'00.0" W	126.66	02°32'00.0"(RT)	02°00'00.0"	126.67	63.34	2864.79
CURVE									
PT	623412.552	604336.025	S 48°54'00.0" W	152.39					
LINE									
PC	623312.372	604221.187	S 52°46'30.0" W	154.88	07°45'00.0"(RT)	05°00'00.0"	155.00	77.62	1145.92
CURVE									
PT	623218.677	604097.860	S 56°39'00.0" W	88.56					
LINE									
PC	623169.990	604023.883	S 24°00'30.0" W	123.62	65°17'00.0"(LT)	50°00'00.0"	130.57	73.40	114.59
CURVE									
PT	623057.067	603973.586	S 08°38'00.0" E	108.46					
LINE									
POT	622949.834	603989.868							

EY28

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	623026.491	605523.570	S 14°36'00.0" W	34.14					
LINE									
PC	622993.457	605514.965	S 26°33'00.0" W	37.37	23°54'00.0"(RT)	63°30'00.0"	37.64	19.10	90.23
CURVE									
PT	622960.031	605498.264	S 38°30'00.0" W	35.71					
LINE									
PC	622932.085	605476.034	S 45°24'40.3" W	122.57	13°49'20.6"(RT)	11°15'00.0"	122.87	61.73	509.30
CURVE									
PT	622846.041	605388.746							

EY29

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	624120.468	607578.448	S 17°25'45.1" W	92.64	09°02'29.8"(RT)	09°45'00.0"	92.73	46.46	587.65
CURVE									
PT	624032.083	607550.700	S 21°57'00.0" W	14.85					
LINE									
PC	624018.309	607545.150	S 19°42'00.0" W	44.99	04°30'00.0"(LT)	10°00'00.0"	45.00	22.51	572.96
CURVE									
PT	623975.954	607529.984	S 17°27'00.0" W	61.19					
LINE									
POT	623917.582	607511.635							

I, Mark A. Parris, PLS, certify that the Project Control was verified 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: Static, OPUS, RTN
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 Geoid model: 18 CONUS
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 3/2020 to 5/2020, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 21st day of December, 2020.


 Docusigned by:
 11870C888C7248A
 Professional Land Surveyor L-4529

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

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REVISIONS

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. A-0009-C	SHEET NO. RW02C-65
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

A9L

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
POT	623847.513	607709.708											
LINE			S 67°04'52.0" E	2.69									
TS	623846.467	607712.183	S 69°34'18.7" E	295.05									
SPIRAL										07°28'24.1"(LT)	295.27	197.03	98.58
SC	623743.484	607988.679	N 73°01'05.5" E	1213.90	64°51'16.8"(LT)	05°03'43.1"	1281.21	719.08	1131.89				
CURVE													
CS	624098.026	609149.653	N 35°36'29.7" E	295.05						07°28'24.1"(LT)	295.27	197.03	98.58
SPIRAL													
ST	624098.026	609149.653											

A9R

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
POT	623847.513	607709.708	S 67°04'52.0" E	56.69									
LINE													
TS	623825.437	607761.922	S 69°34'18.7" E	295.05									
SPIRAL										07°28'24.1"(LT)	295.27	197.03	98.58
SC	623722.454	608038.418	N 73°01'05.5" E	1213.90	64°51'16.8"(LT)	05°03'43.1"	1281.21	719.08	1131.89				
CURVE													
CS	624076.996	609199.392	N 35°36'29.7" E	295.05						07°28'24.1"(LT)	295.27	197.03	98.58
SPIRAL													
ST	624076.996	609199.392											

I, Mark A. Parris, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: Static, OPUS, RTN
 Dates of survey: 2/2020-3/2020
 Datum/Epoch: 2010.0000
 Published/Fixed-control use: N/A
 Localized around: A0009C-10
 Northing: 612531.117
 Easting: 584817.003
 Combined grid factor: 0.999772236
 Geoid model: 18 CONUS
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 3/2020 to 5/2020, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 21st day of December, 2020.

DocuSigned by:

 F1870CB85C7248A
 Professional Land Surveyor L-4529

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. A-0009CB	SHEET NO. RW02D-1
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

TYPE	STATION	L	
		NORTH	EAST
PT	195+93.35	612782.0029	584201.6985
PC	211+67.41	613115.6913	585739.9855
PT	227+66.92	613915.3366	587093.8317
PC	231+51.76	614205.3281	587346.8332
PT	238+15.24	614653.1742	587834.5212
PC	247+03.37	615178.0311	588550.9728
PT	262+67.47	616456.3876	589394.1159
PC	266+64.11	616842.8024	589483.6081
PRC	272+57.99	617424.4477	589603.2334
PT	276+17.44	617777.1992	589672.1983
PC	284+59.20	618600.8131	589846.0648
PT	290+33.07	619095.0724	590120.5487
PC	297+39.58	619584.3429	590630.2288
PT	302+92.61	620055.6297	590905.9293
PC	306+20.98	620373.5699	590988.0618
PT	316+34.12	621099.6697	591638.7688
PC	318+61.84	621180.3617	591851.7173
PT	322+92.43	621435.9515	592191.0929
PC	325+32.88	621628.5229	592335.0761
PT	330+63.93	621984.1135	592725.2034
PC	335+70.20	622248.5019	593156.9558
PT	346+50.17	621724.4123	593793.1939
PC	354+13.94	621008.7390	593526.4625
PT	356+98.29	620730.1038	593478.7246
PC	358+81.18	620547.2389	593481.9055
PT	363+04.13	620143.8527	593374.2234
PC	364+18.18	620045.9809	593315.6735
PT	368+11.01	619672.7034	593208.0641
PC	375+53.58	618930.3246	593191.5609
PT	384+17.58	618754.5232	593803.0611
PC	389+26.67	619191.7865	594063.7799
PT	395+12.74	619644.3305	594432.8704
PC	398+98.60	619904.5385	594717.7860
PT	404+33.51	620369.5658	594959.1613
PC	405+68.76	620503.7254	594976.2727
PT	413+70.19	621016.9195	595511.1045
POT	414+50.00	621023.7409	595590.6228

TYPE	STATION	Y4	
		NORTH	EAST
POT	10+00.00	617931.3658	589704.7432
PC	10+69.57	617954.5902	589770.3204
PT	11+46.57	618008.8235	589820.7596
PC	20+00.10	618831.9023	590046.7007
PT	21+09.25	618886.1792	590130.4129
PC	21+59.38	618878.5663	590179.9700
PCC	22+51.01	618907.1059	590263.3380
PT	23+30.10	618974.0179	590304.4169
PC	23+92.47	619032.7700	590325.3635
PT	24+95.90	619094.9424	590401.6250
PC	25+57.05	619103.4529	590462.1801
PCC	27+32.23	619175.7019	590619.0505
PT	28+49.59	619275.3443	590677.2083
PC	28+91.56	619316.4033	590685.9353
PCC	30+22.14	619432.4042	590742.9367
PT	31+57.25	619529.1776	590837.0743
PC	32+74.14	619607.2712	590924.0487
PT	33+78.07	619701.5584	590955.2431
PC	34+31.98	619754.3922	590944.5259
PT	35+19.68	619827.1658	590980.9683
PC	35+71.98	619849.5457	591028.2419
PCC	36+82.19	619942.4010	591066.8373
PT	37+30.68	619986.4265	591046.6492
PC	37+93.48	620040.9510	591015.4959
PT	39+55.79	620160.4895	591080.0734
PC	40+11.27	620163.8769	591135.4571
PCC	41+20.57	620232.2840	591209.7505
PT	41+86.75	620298.2527	591210.1242
PC	42+86.43	620397.0643	591196.9838
PT	44+29.86	620520.8756	591130.8169
POT	45+18.05	620579.1185	591064.5980

I, Mark A. Parris, 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 15th day of November, 2021.

DocuSigned by:

F1570CB85C7248A
Professional Land Surveyor L-4529

REVISIONS

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NOTES:

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

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
A-0009CB	RW03E-1
Location and Surveys	
	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP - E

ALIGN	STATION	OFFSET	NORTH	EAST
L	251+07.00	41.94	615416.2716	588883.4762
L	251+07.00	50.00	615410.7465	588889.3471
L	260+13.00	50.00	616195.5209	589369.5909
L	260+13.00	38.95	616199.2391	589359.1875
L	271+99.85	-50.00	617376.3491	589543.6295
L	272+57.99	-50.00	617433.3054	589554.0242
L	276+17.44	-50.00	617787.5267	589623.2765
L	277+85.99	65.94	617928.4990	589771.5355
L	277+89.93	72.40	617931.0244	589778.6663
L	278+15.80	-50.00	617981.6150	589664.2489
L	278+73.25	122.47	618002.2056	589844.8678
L	280+00.00	93.50	618132.2012	589842.7022
L	280+00.00	116.54	618127.4420	589865.2467
L	280+00.00	130.07	618124.6486	589878.4792
L	280+00.00	69.20	618137.2208	589818.9240
L	283+97.69	-50.00	618550.9601	589784.4388
L	284+59.20	-50.00	618611.1405	589797.1430
L	290+33.07	-50.00	619131.1425	590085.9230
L	297+39.58	-50.00	619620.4130	590595.6030
L	302+92.61	-50.00	620068.1355	590857.5185
L	304+80.00	-50.00	620249.5720	590904.3885
L	304+80.00	-45.00	620248.3215	590909.2295
L	305+84.00	-50.00	620350.2665	590930.4006
L	305+84.00	-45.00	620349.0159	590935.2416
L	306+20.98	-50.00	620386.0757	590939.6510
L	310+01.00	-50.00	620745.5170	591105.3924
L	316+24.87	-74.93	621166.1900	591602.9678
L	316+42.11	43.00	621062.2925	591661.4813
L	316+63.71	-54.05	621160.7088	591647.2839
L	317+42.14	43.00	621097.7380	591755.0229
L	331+50.00	46.00	621989.8343	592822.6300
L	331+50.00	61.05	621976.9971	592830.4911
L	333+00.00	46.00	622068.1682	592950.5511
L	333+00.00	61.29	622055.1300	592958.5352
L	333+34.30	-38.66	622158.2795	592935.6956
L	335+70.20	-40.00	622282.6142	593136.0667
L	346+50.17	-40.00	621710.4430	593830.6753
L	351+50.00	-40.00	621242.0879	593656.1194
L	351+50.00	-61.00	621234.7540	593675.7971
L	353+90.28	-61.00	621009.6027	593591.8833
L	354+69.00	-79.69	620934.1423	593585.6129
L	354+72.47	-61.00	620936.3185	593566.7814
L	356+25.40	-61.00	620798.1488	593541.7632
L	359+54.07	-36.50	620471.5464	593516.0665
L	360+79.56	-36.50	620341.8810	593494.9939
L	362+16.88	-39.02	620205.0643	593450.1845
L	365+18.15	-67.00	619930.5076	593331.6440
L	368+11.01	-67.00	619671.2143	593275.0476
L	369+00.00	-44.08	619582.7597	593250.1545
L	369+00.00	-68.58	619582.2151	593274.6519
L	373+32.59	-51.30	619150.1148	593247.7552
L	374+65.90	-55.92	619016.7329	593249.4189
L	374+95.80	-117.57	618985.4760	593310.3850
L	375+47.52	-167.02	618932.6650	593358.6741
L	377+03.18	-110.16	618831.2862	593321.7902
L	377+60.53	-85.00	618783.8714	593320.0409
L	379+88.33	351.34	618267.6114	593337.9816
L	379+91.59	446.47	618173.9444	593319.8650
L	380+00.00	75.05	618530.1746	593425.9631
L	380+10.65	266.98	618339.3643	593399.8899
L	380+17.45	522.21	618086.0228	593365.5127
L	380+26.23	534.85	618069.7093	593385.9298
L	380+27.29	510.00	618093.8354	593392.4819
L	381+77.51	100.00	618513.6093	593648.6586
L	381+79.61	432.33	618197.9309	593752.5883
L	383+52.19	100.00	618634.8810	593838.3179
L	383+52.19	95.60	618637.8335	593835.0610
L	384+17.58	-85.00	618798.0539	593730.0538
L	389+26.67	-85.00	619235.3173	593990.7725
L	393+82.55	-85.00	619612.3705	594278.3795
L	394+88.00	-120.00	619715.1335	594332.6917
L	395+30.00	-58.00	619698.7965	594406.5013
L	398+98.60	-58.00	619947.3656	594678.6728
L	403+92.00	-58.00	620339.0218	594895.7404
L	406+00.00	-50.00	620543.5417	594931.8505
L	411+85.00	-45.32	621014.3810	595314.4501
L	411+85.00	-50.00	621018.6949	595312.6291

ROW MARKER PERMANENT EASEMENT - E

ALIGN	STATION	OFFSET	NORTH	EAST
L	210+21.00	57.00	613028.9484	585608.9838
L	210+21.00	49.66	613036.1198	585607.4282
L	210+21.00	-72.00	613155.0165	585581.6369
L	210+21.00	-50.34	613133.8469	585586.2290
L	210+41.00	-50.34	613138.0933	585605.7730
L	210+41.00	-72.00	613159.2563	585601.1823
L	210+41.00	49.66	613040.3662	585626.9722
L	210+41.00	57.00	613033.1883	585628.5292
L	212+64.00	-63.00	613198.9913	585818.2347
L	212+64.00	-49.31	613185.7323	585821.6520
L	212+72.00	50.89	613090.7507	585854.5619
L	212+72.00	56.00	613085.8112	585855.8519
L	213+02.00	-63.00	613208.5086	585954.0332
L	213+02.00	-48.43	613194.4580	585857.8832
L	213+47.00	65.00	613097.6606	585932.2762
L	214+52.00	63.00	613132.0513	586034.3364
L	215+12.00	-43.83	613252.8281	586055.5616
L	215+13.00	56.21	613159.2608	586090.9589
L	215+46.00	-72.00	613290.8585	586076.7865
L	215+71.00	-42.83	613272.4943	586110.1095
L	222+45.00	-40.83	613593.2292	586687.7603
L	222+45.00	-65.00	613612.5458	586673.2382
L	223+22.00	-41.71	613640.3548	586747.0422
L	227+03.00	-48.22	613900.3291	587015.6889
L	227+03.00	-65.00	613911.6832	587003.3275
L	227+30.00	-65.00	613931.1468	587021.0122
L	227+30.00	-48.23	613919.9346	587033.4868
L	234+82.00	-43.85	614474.0120	587547.5056
L	234+82.00	-72.00	614494.7389	587528.4528
L	235+07.00	55.79	614417.1898	587633.0637
L	235+14.00	68.00	614412.7107	587646.3349
L	235+17.00	-68.00	614515.8628	587557.6521
L	235+17.00	-44.37	614498.2839	587573.4367
L	235+48.00	55.18	614444.4198	587662.6991
L	239+34.00	-65.00	614775.7941	587891.9133
L	239+34.00	-49.00	614762.8881	587901.3680
L	239+68.00	-65.00	614795.8870	587919.3410
L	239+68.00	-49.07	614783.0333	587928.7573
L	245+32.00	-50.04	615117.1275	588383.1558
L	245+32.00	-63.00	615127.5793	588375.4991
L	245+68.00	-50.12	615138.4601	588412.1545
L	245+68.00	-63.00	615148.8541	588404.5401
L	249+80.00	43.68	615323.3717	588793.3054
L	249+80.00	49.00	615319.5076	588796.9634
L	249+87.00	-56.44	615400.7734	588729.4249
L	249+89.00	-69.00	615411.2068	588722.1607
L	250+07.00	53.00	615335.7343	588819.6763
L	250+08.00	43.27	615343.4293	588813.6313
L	250+76.00	-57.68	615462.7054	588790.0912
L	251+75.00	50.00	615462.1196	588936.2192
L	251+75.00	80.00	615442.2444	588958.6908
L	252+40.00	95.00	615483.7540	589014.0924
L	253+50.00	103.00	615568.9085	589091.7031
L	254+08.00	50.00	615648.6349	589084.3533
L	254+08.00	105.00	615616.7562	589129.1724
L	258+45.00	50.00	616036.0897	589305.6469
L	258+45.00	207.00	615972.1265	589449.0265
L	258+83.00	50.00	616071.7168	589321.1730
L	258+83.00	207.00	616010.2395	589465.6360
L	261+92.00	50.00	616370.2248	589424.1256
L	261+92.56	40.35	616373.2736	589414.9483
L	262+20.00	40.54	616400.2641	589422.1949
L	262+20.00	50.00	616397.9312	589431.3634
L	267+40.00	40.31	616907.9398	589539.8262
L	267+43.00	53.00	616908.0953	589552.8651
L	268+46.00	40.99	617011.6610	589563.3752
L	270+72.00	45.59	617232.8892	589613.6032
L	270+75.00	66.00	617231.9224	589634.2139
L	270+92.00	46.20	617252.4765	589618.0503
L	270+94.00	63.00	617251.2456	589634.9248
L	275+25.00	75.00	617671.7586	589726.9541
L	275+25.00	61.63	617674.4198	589713.8489
L	275+50.00	75.00	617696.1003	589731.9236
L	275+66.00	62.49	617714.2044	589722.8817
L	277+99.00	-50.00	617965.1757	589660.7786
L	278+03.00	-80.00	617975.2860	589632.2517
L	278+28.00	-78.00	617999.3338	589639.3723

CONTROL ACCESS MARKER CONCRETE - E

ALIGN	STATION	OFFSET	NORTH	EAST
L	363+97.00	68.32	620099.2286	593267.9140
L	364+49.19	67.02	620051.0833	593241.4261
L	365+43.18	97.42	619969.5706	593169.9247
L	366+80.00	62.17	619814.8071	593161.2403

NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED 8/30/21 TO 11/12/21 .

I, Mark A. Parris, 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 8/30/21 to 11/12/21, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of November, 2021.

 Professional Land Surveyor L-4529

REVISIONS

I:\MAY_2022\13055\13055-112-21_A-0009CB ROW Staking\Survey\RW and Control Sheets\A-0009CB\0009CB_1s_RW03E-1.dgn
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 J:\NOV_2022\13055\13055-112-21_A-0009CB ROW Staking\Survey\RW and Control Sheets\A-0009CB\0009CB_1s_RW03E-1.dgn

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
A-0009CB	RW03E-2
Location and Surveys	
	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER PERMANENT EASEMENT - E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	278+58.00	-57.98	618024.5507	589665.1619
L	278+83.00	-57.59	618048.9331	589670.6977
L	279+05.00	124.37	618032.8731	589853.2862
L	279+52.00	175.00	618068.4028	589912.5288
L	279+84.00	-67.00	618149.6977	589682.3569
L	279+84.00	-79.00	618152.1763	589670.6156
L	280+50.00	-87.00	618218.4055	589676.4204
L	282+15.00	-95.00	618381.4999	589702.6736
L	282+70.00	-89.53	618434.1835	589719.3885
L	284+60.00	94.00	618582.1022	589938.1869
L	284+77.00	76.56	618600.9941	589924.5021
L	284+81.00	113.00	618596.2443	589960.8139
L	285+00.00	97.00	618616.4914	589949.3087
L	285+00.00	76.70	618621.5251	589929.6400
L	287+97.00	64.86	618877.9522	590026.9125
L	288+02.00	93.64	618866.4804	590053.7094
L	288+91.00	-50.00	619020.0465	589986.1341
L	288+94.00	158.81	618894.3597	590152.8998
L	289+11.00	-67.00	619047.2338	589985.9387
L	289+24.00	98.00	618952.6900	590121.7650
L	289+33.00	138.00	618933.0697	590157.5047
L	289+77.00	-93.00	619118.3015	590013.0464
L	290+22.00	54.45	619048.5185	590150.7649
L	290+24.00	-50.00	619124.5024	590079.0709
L	292+25.00	54.47	619188.6900	590296.7319
L	292+25.00	94.00	619160.1755	590324.1046
L	292+51.00	55.17	619206.1918	590315.9718
L	292+51.00	95.00	619177.4595	590343.5536
L	296+86.00	121.00	619459.9472	590675.3694
L	297+01.00	66.72	619509.4909	590648.6024
L	297+28.00	122.00	619488.3114	590706.3608
L	297+37.00	66.90	619534.2964	590674.6930
L	297+39.00	-69.00	619633.7171	590582.0259
L	297+81.00	-63.00	619657.2393	590614.0330
L	298+06.00	-50.00	619665.5881	590639.6379
L	303+52.00	117.00	620083.8710	591034.0656
L	303+65.00	133.00	620092.4559	591052.8086
L	303+76.00	100.24	620111.3013	591023.8365
L	303+92.00	80.91	620131.6274	591009.1232
L	303+98.42	109.45	620130.7055	591038.3627
L	304+00.00	66.04	620143.0919	590996.7284
L	304+25.00	101.23	620158.4958	591037.0524
L	304+96.00	66.33	620235.9677	591021.0218
L	307+85.00	-95.00	620566.2244	590953.9629
L	307+85.00	-50.00	620548.3889	590995.2775
L	308+05.00	-95.00	620586.1494	590962.7885
L	308+05.00	-50.00	620567.5376	591003.7592
L	310+41.00	48.64	620719.7345	591208.6583
L	310+59.00	178.00	620653.4020	591320.8668
L	311+38.00	185.00	620698.8042	591368.5356
L	312+21.00	-55.68	620923.2965	591252.2954
L	312+42.00	-114.00	620981.6098	591229.6019
L	312+43.00	147.00	620788.0663	591404.7101
L	312+51.00	-56.05	620944.8125	591275.4145
L	312+64.00	-107.00	620992.4060	591252.4620
L	313+82.00	43.50	620947.3687	591440.3629
L	315+81.59	46.12	621037.5865	591608.5873
L	315+82.00	80.00	621006.6859	591622.4955
L	316+22.00	58.00	621041.3127	591648.6321
L	316+22.00	79.00	621021.7617	591656.2973
L	316+42.14	46.01	621059.4881	591662.5740
L	321+03.00	98.00	621223.6350	592121.6035
L	321+18.00	110.00	621225.2222	592142.3941
L	321+33.00	49.24	621282.1244	592115.4063
L	321+57.00	48.14	621300.0619	592133.6153
L	323+72.00	56.00	621466.1417	592283.5881
L	323+72.00	45.16	621472.6320	592274.9075
L	323+75.00	-62.00	621539.2044	592190.8798
L	323+75.00	-54.83	621534.9133	592196.6188
L	323+96.00	-62.00	621556.0230	592203.4548
L	323+96.00	-54.80	621551.7122	592209.2204
L	324+00.00	56.00	621488.5665	592300.3549
L	324+00.00	45.21	621495.0305	592291.7096
L	325+94.00	69.00	621632.9676	592426.1372
L	325+94.00	45.57	621647.8014	592408.0049

ROW MARKER PERMANENT EASEMENT - E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	326+15.00	45.46	621663.5030	592420.8990
L	326+15.00	69.00	621648.3249	592438.8943
L	327+79.00	87.00	621748.2217	592558.4712
L	327+79.00	46.94	621777.4512	592531.0780
L	328+00.00	87.00	621761.5811	592572.9422
L	328+63.00	59.00	621821.8780	592599.6474
L	328+89.00	95.00	621809.4900	592641.4337
L	329+46.00	-43.36	621953.3073	592601.6740
L	329+61.00	-94.00	622003.5276	592584.6362
L	329+81.00	-41.51	621972.7895	592632.0743
L	329+94.00	-90.00	622020.4328	592615.7326
L	329+96.00	59.37	621898.1817	592701.5821
L	333+39.00	100.00	622042.4835	593012.0108
L	333+52.00	61.37	622082.2161	593002.9238
L	333+70.00	-56.00	622191.7104	592956.9806
L	333+70.00	121.00	622040.7635	593049.4146
L	334+00.00	-56.00	622207.3772	592982.5648
L	334+00.00	61.45	622107.2187	593043.8980
L	334+41.00	-39.26	622214.5165	593026.2694
L	334+73.00	-39.45	622231.3831	593053.4642
L	335+11.00	-47.00	622257.6690	593081.9264
L	335+26.00	-68.00	622283.4113	593083.7518
L	337+08.00	70.20	622232.5627	593300.0409
L	337+18.00	108.00	622197.4403	593316.1225
L	337+30.00	-86.00	622389.9673	593289.6827
L	337+38.00	-40.00	622346.2449	593306.6534
L	337+47.00	-86.00	622393.2789	593309.7634
L	337+51.00	102.00	622207.6491	593339.7672
L	337+58.00	-40.00	622349.3274	593328.2677
L	337+63.00	69.28	622241.2897	593345.3899
L	339+21.00	-89.00	622384.6837	593517.1422
L	339+39.00	-100.00	622389.3027	593541.2091
L	339+41.00	-40.00	622331.2767	593525.7702
L	339+45.00	69.12	622226.0529	593496.6292
L	339+67.00	110.00	622181.7072	593499.6819
L	339+68.00	-40.00	622321.6716	593553.6335
L	339+91.00	69.29	622212.1577	593532.7284
L	340+09.00	94.00	622183.5870	593535.5464
L	340+37.00	78.00	622187.1458	593562.8981
L	340+48.00	69.62	622189.7060	593575.0254
L	340+49.00	-62.00	622301.5706	593644.3967
L	340+52.00	-40.00	622281.0823	593635.7103
L	340+65.00	96.00	622160.0636	593572.5095
L	340+66.00	-65.00	622293.6190	593662.4253
L	340+88.00	69.93	622170.7006	593602.7191
L	341+05.00	-40.00	622247.6540	593682.8959
L	341+22.00	70.24	622152.5864	593624.7594
L	341+22.00	86.00	622140.6986	593614.4138
L	341+37.00	86.00	622132.6390	593623.3594
L	341+76.00	70.81	622120.4294	593656.5803
L	343+98.00	-65.00	621986.8066	593873.3923
L	343+98.00	-40.00	621981.3112	593849.0038
L	344+04.00	90.00	621948.0828	593723.1981
L	344+04.00	74.10	621951.3643	593738.7566
L	344+36.00	-64.00	621943.7113	593880.1324
L	344+36.00	74.64	621925.1242	593742.7435
L	344+36.00	87.00	621923.4672	593730.4956
L	344+62.00	-60.50	621913.8006	593879.7565
L	344+62.00	-40.00	621912.2679	593859.3139
L	346+43.00	75.18	621756.2462	593724.7784
L	346+43.00	110.00	621767.8693	593691.9518
L	346+50.17	-60.50	621703.2837	593849.8846
L	346+50.17	-55.00	621705.2045	593844.7309
L	346+64.00	110.00	621749.8723	593685.2914
L	346+64.00	73.35	621737.0711	593719.6384
L	350+06.00	69.10	621415.1228	593604.1772
L	350+16.00	88.00	621412.3525	593582.9761
L	350+26.00	69.10	621396.3802	593597.1976
L	350+32.00	80.00	621394.5661	593584.8846
L	351+16.00	-55.00	621268.7086	593682.0489
L	351+38.00	179.00	621329.8144	593455.0993
L	351+42.00	69.06	621287.6732	593556.7158
L	351+77.00	157.00	621285.5868	593462.0940
L	351+80.00	69.05	621252.0622	593543.4545
L	352+00.00	-142.00	621159.6143	593734.2354

I, Mark A. Parris, 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 8/30/21 to 11/12/21, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of November, 2021.


Professional Land Surveyor L-4529

REVISIONS

19 MAY 2022 13:55
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 Jcgregdon

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 8/30/21 TO 11/12/21 .

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
A-0009CB	RW03E-3
Location and Surveys	
	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER PERMANENT EASEMENT - E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	352+00.00	-76.00	621182.6637	593672.3910
L	354+00.00	85.00	621051.4831	593451.6816
L	354+00.00	68.25	621045.6325	593467.3794
L	354+13.94	-142.00	620959.1479	593659.5215
L	354+27.00	84.00	621024.4381	593442.8022
L	354+27.00	67.00	621018.7748	593458.8341
L	356+25.40	-142.00	620791.7954	593622.5137
L	359+54.07	-117.50	620465.1930	593596.8170
L	359+95.00	67.15	620442.5762	593408.8064
L	360+03.00	90.00	620438.6057	593385.1916
L	360+26.00	66.83	620414.5901	593404.8282
L	360+32.00	82.00	620411.9356	593388.9381
L	360+79.14	-117.50	620322.8120	593573.7229
L	362+15.71	-120.01	620172.9571	593524.5493
L	363+49.00	69.51	620141.0319	593291.5340
L	363+54.00	128.00	620166.7672	593238.7756
L	363+60.00	106.00	620150.3239	593254.5749
L	363+70.00	69.01	620122.7537	593281.1822
L	363+77.00	134.00	620150.1098	593221.8189
L	363+82.00	108.00	620132.4711	593241.5642
L	365+18.15	-148.00	619898.4004	593406.0088
L	368+11.01	-148.00	619669.4141	593356.0276
L	369+00.00	-148.00	619580.4501	593354.0499
L	369+40.00	-71.75	619542.1546	593276.9297
L	369+68.00	83.00	619517.6008	593121.5957
L	369+76.00	69.41	619509.3007	593135.0081
L	369+93.00	94.00	619492.8514	593110.0428
L	370+04.00	70.15	619481.3241	593133.6428
L	371+27.00	70.30	619358.3578	593130.7578
L	371+39.00	107.00	619347.1764	593093.8012
L	371+55.00	69.93	619330.3564	593130.5093
L	371+64.00	100.00	619322.0270	593100.2438
L	373+32.14	-78.29	619149.9651	593274.7548
L	374+79.23	-83.40	619002.7998	593276.5953
L	374+90.00	111.00	618996.3520	593082.0013
L	374+90.00	65.32	618995.3367	593127.6743
L	375+25.00	110.00	618961.3384	593082.2232
L	375+25.00	64.54	618960.3280	593127.6768
L	376+42.89	-171.00	618884.0368	593367.3625
L	381+78.26	180.00	618437.6147	593673.6781
L	383+52.19	180.00	618581.1502	593897.5884
L	384+17.58	-171.00	618842.0968	593656.1875
L	387+52.00	285.00	618895.8014	594219.1142
L	388+61.00	70.71	619099.1683	594090.8765
L	388+90.00	340.00	618986.1641	594337.0277
L	389+02.00	70.49	619134.4926	594111.6909
L	389+02.00	125.00	619106.5781	594158.5075
L	389+26.67	-171.00	619279.3601	593916.9063
L	389+32.00	70.36	619160.1618	594126.8534
L	389+32.00	125.00	619132.0561	594173.7066
L	389+72.00	69.76	619193.3793	594146.5201
L	392+03.00	63.05	619379.1712	594270.4044
L	392+11.00	77.00	619376.4362	594286.1122
L	392+43.00	62.62	619409.4248	594294.6096
L	393+65.02	-171.00	619658.1896	594203.2508
L	393+86.00	63.35	619511.9762	594387.6519
L	393+95.00	80.00	619506.6223	594405.6487
L	394+10.00	63.69	619528.3693	594404.1252
L	394+13.00	70.00	619525.9901	594410.6527
L	394+95.00	-185.00	619767.8003	594293.8594
L	395+55.00	-116.00	619758.4827	594385.8481
L	396+14.00	80.00	619653.5442	594561.5891
L	396+14.00	60.02	619668.2951	594548.1174
L	396+44.00	80.00	619673.7752	594583.7410
L	396+44.00	59.19	619689.1397	594569.7089
L	398+80.00	52.65	619853.1172	594739.5621
L	398+81.00	65.00	619844.6756	594748.6259
L	398+98.60	-116.00	619990.1927	594639.5597
L	399+06.00	51.86	619871.6094	594758.5688
L	399+07.00	63.00	619864.1926	594766.9558
L	402+03.00	88.00	620112.0897	594976.0143
L	402+05.00	60.54	620125.5064	594951.9505
L	402+27.00	92.00	620135.0489	594990.4819
L	402+30.00	60.14	620150.3985	594962.3741

ROW MARKER PERMANENT EASEMENT - E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	403+92.00	-116.00	620349.4898	594838.6929
L	406+00.00	-116.00	620555.3458	594866.9146
L	406+62.00	76.00	620573.5446	595068.2511
L	406+67.00	54.04	620584.0707	595048.4698
L	406+94.00	79.00	620599.0752	595079.6372
L	406+95.00	53.62	620608.3749	595056.0078
L	408+10.00	-116.00	620789.4846	594954.4537
L	409+44.00	-55.50	620875.1169	595094.9268
L	409+57.00	71.00	620795.8844	595194.3607
L	409+60.00	52.98	620810.5481	595183.5460
L	409+86.00	75.00	620810.5189	595215.5138
L	409+90.00	53.09	620829.1836	595203.4970
L	411+85.00	-55.50	621023.7619	595310.4901
L	412+72.00	-44.11	621043.1617	595403.4234
L	412+72.00	-55.00	621053.7071	595400.7083
L	412+92.00	-43.78	621047.8474	595424.3975
L	412+92.00	-55.00	621058.7988	595421.9704
L	413+16.00	55.92	620954.7699	595467.2718
L	413+33.00	86.00	620927.5235	595486.9089
L	413+59.00	55.75	620960.4082	595505.7834
L	413+59.00	73.00	620943.2560	595507.5830

REVISIONS

I, Mark A. Parris, 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 8/30/21 to 11/12/21, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of November, 2021.


Professional Land Surveyor L-4529

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 8/30/21 TO 11/12/21 .

-L- CURVE DATA

PI Sta 219+95.61
Δ = 36° 39' 28.8" (LT)
D = 2° 17' 30.6"
L = 1,599.51'
T = 828.20'
R = 2,500.00'

I, Mark A. Parris, 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 8/30/21 to 11/12/21, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of November, 2021.

Professional Land Surveyor L-4529

Location and Surveys



PROJECT SURVEYOR

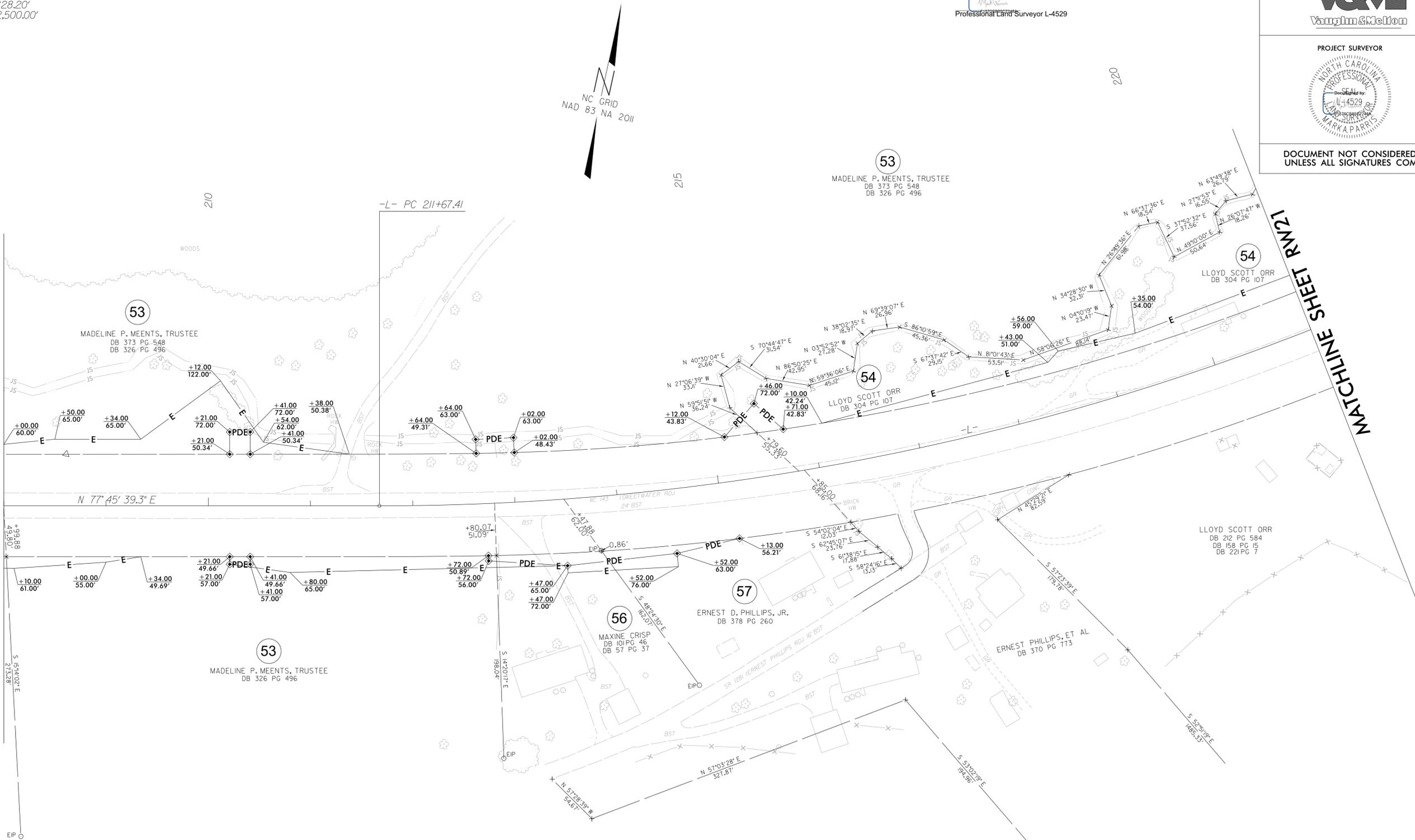


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

BEGIN SECTION A-0009CB

MATCHLINE SHEET RW21



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 8/30/21 TO 11/12/21.

PROJECT REFERENCE NO.	SHEET NO.
A-0009CB	RW21
Location and Surveys	
	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L- CURVE DATA

PI Sta 219+95.61	PI Sta 234+84.86
$\Delta = 36^{\circ}39'28.8"$ (LT)	$\Delta = 12^{\circ}40'17.1"$ (RT)
D = 2'17" 30.6"	D = 1'54" 35.5"
L = 1,599.51'	L = 663.47'
T = 828.20'	T = 333.10'
R = 2,500.00'	R = 3,000.00'

I, Mark A. Parris, 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 8/30/21 to 11/12/21 and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

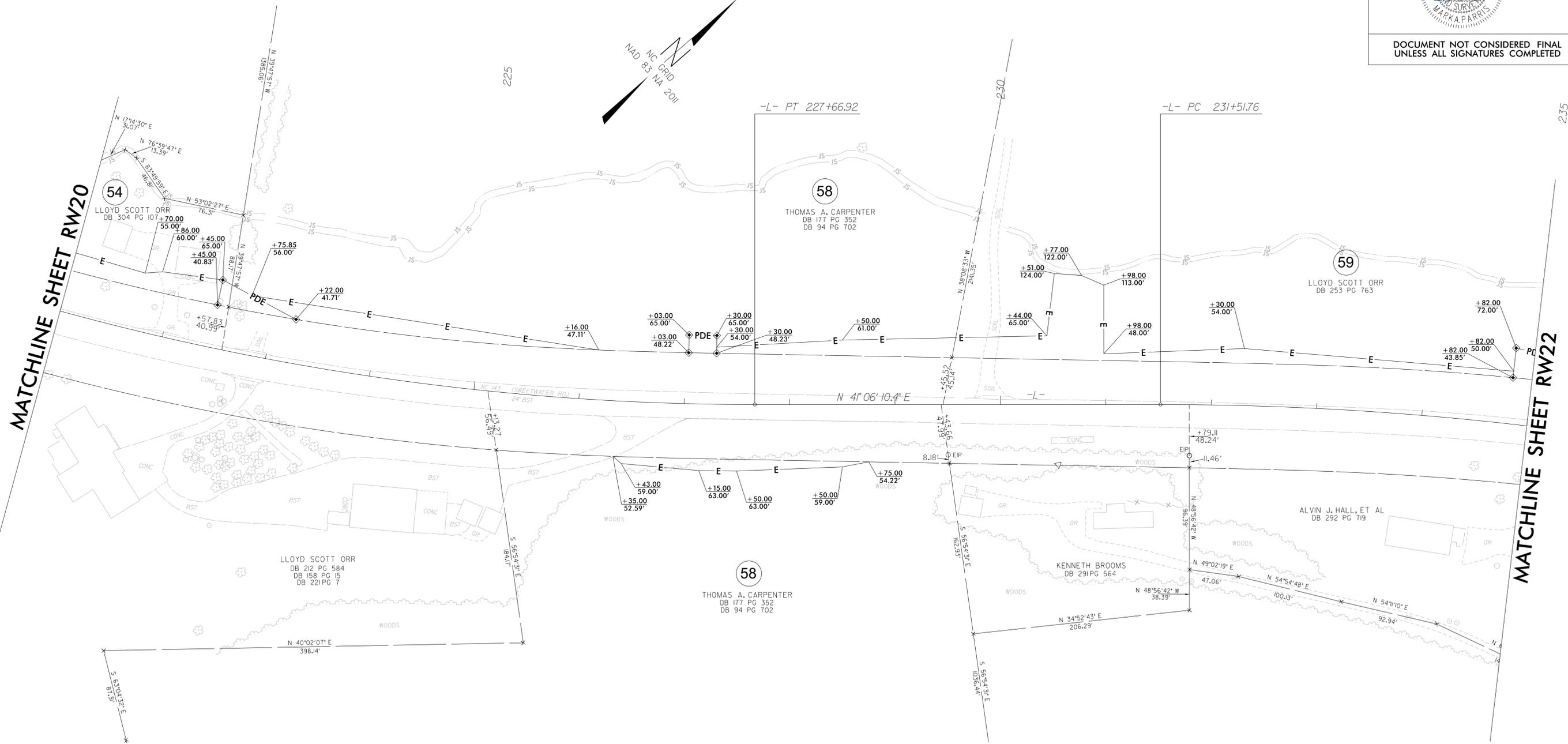
This 15th day of November, 2021.

 Professional Land Surveyor L-4529

REVISIONS

MATCHLINE SHEET RW20

MATCHLINE SHEET RW22



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 8/30/21 TO 11/12/21.

-L- CURVE DATA

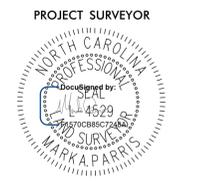
PI Sta 234+84.86	PI Sta 255+20.12
$\Delta = 12^{\circ} 40' 17.1''$ (RT)	$\Delta = 40^{\circ} 44' 05.0''$ (LT)
$D = 1^{\circ} 54' 35.5''$	$D = 2^{\circ} 36' 15.7''$
$L = 663.47'$	$L = 1,564.10'$
$T = 333.10'$	$T = 816.75'$
$R = 3,000.00'$	$R = 2,200.00'$

I, Mark A. Parris, 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 8/30/21 to 11/12/21 and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

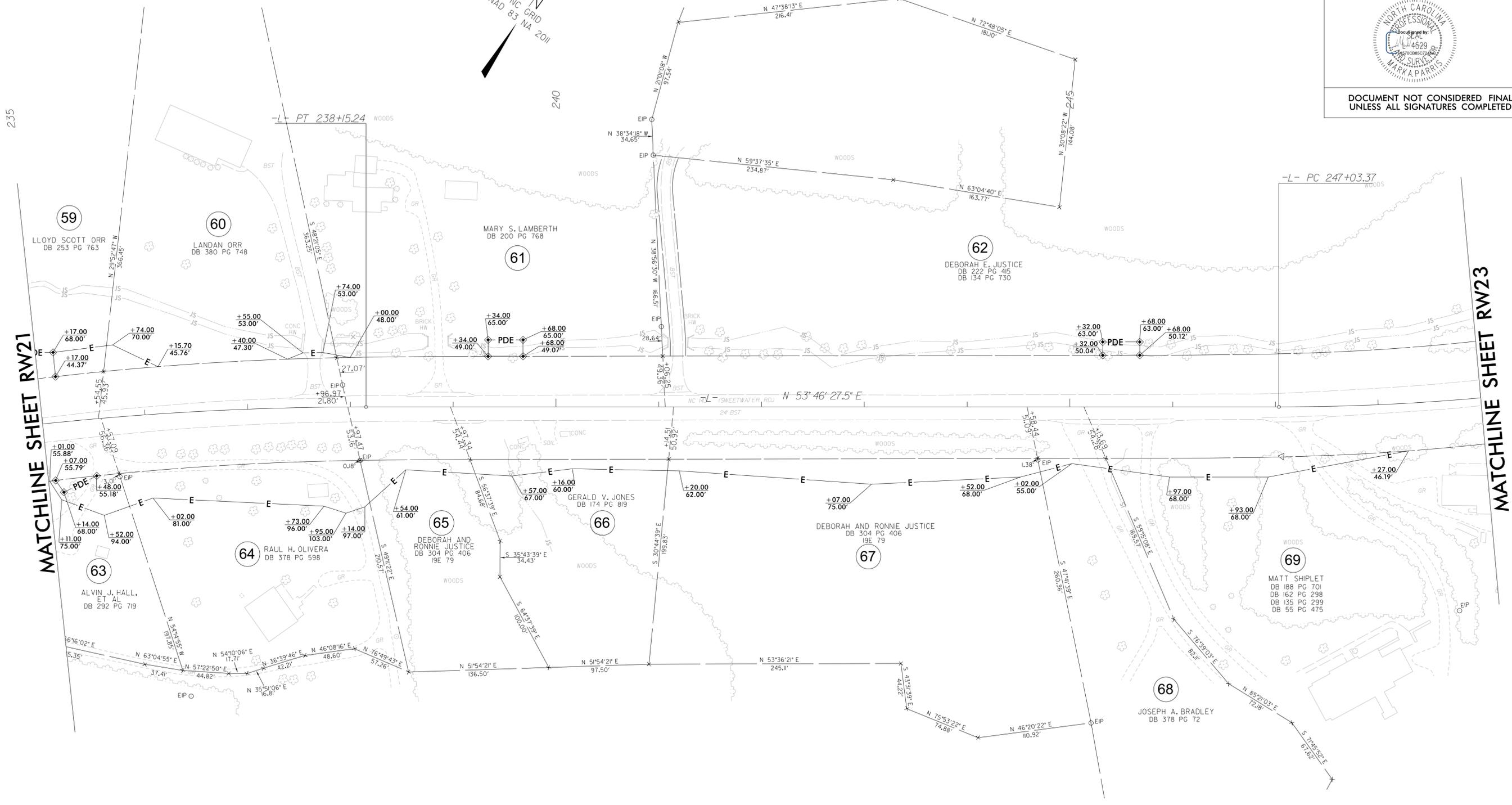
This 15th day of November, 2021.

Mark A. Parris
Professional Land Surveyor L-4529

Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



REVISIONS

01 JUN 2022 09:57
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 legordon

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 8/30/21 TO 11/12/21.

-L- CURVE DATA

PI Sta 255+20.12
Δ = 40° 44' 05.0" (LT)
D = 2° 36' 15.7"
L = 1,564.10'
T = 816.75'
R = 2,200.00'

I, Mark A. Parris, 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 8/30/21 to 11/12/21 and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of November, 2021.
Professional Land Surveyor L-4529

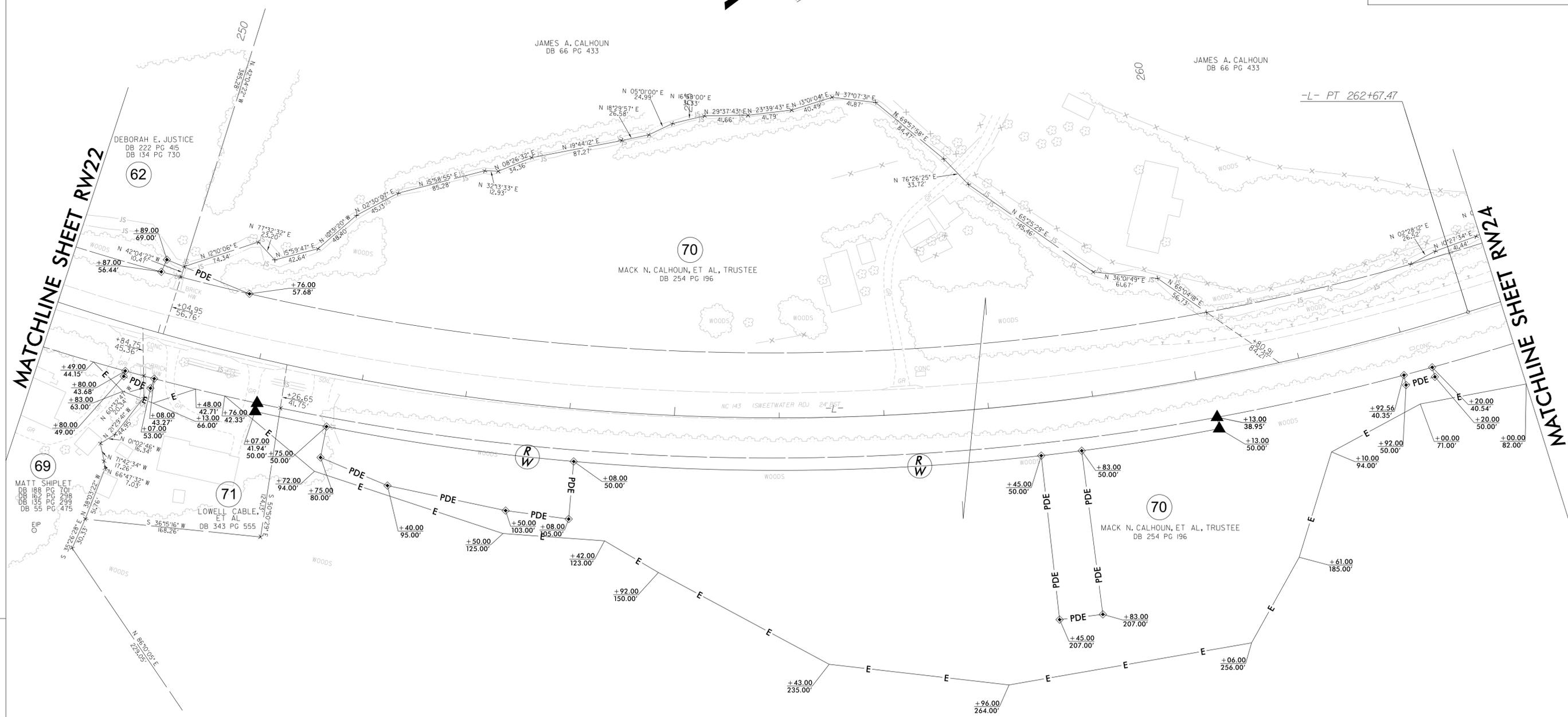
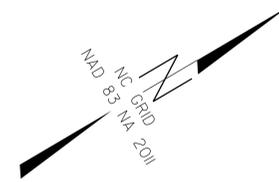
Location and Surveys



PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



REVISIONS

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jsgordon

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 8/30/21 TO 11/12/21.

-L- CURVE DATA

PI Sta 269+61.11	PI Sta 274+37.73
$\Delta = 2^{\circ}50'08.0''$ (LT)	$\Delta = 1^{\circ}42'58.4''$ (RT)
D = 0' 28' 38.9"	D = 0' 28' 38.9"
L = 593.88'	L = 359.44'
T = 297.00'	T = 179.74'
R = 12,000.00'	R = 12,000.00'

I, Mark A. Parris, 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 8/30/21 to 11/12/21, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of November, 2021.

DocuSigned by:

 Professional Land Surveyor L-4529

Location and Surveys



PROJECT SURVEYOR

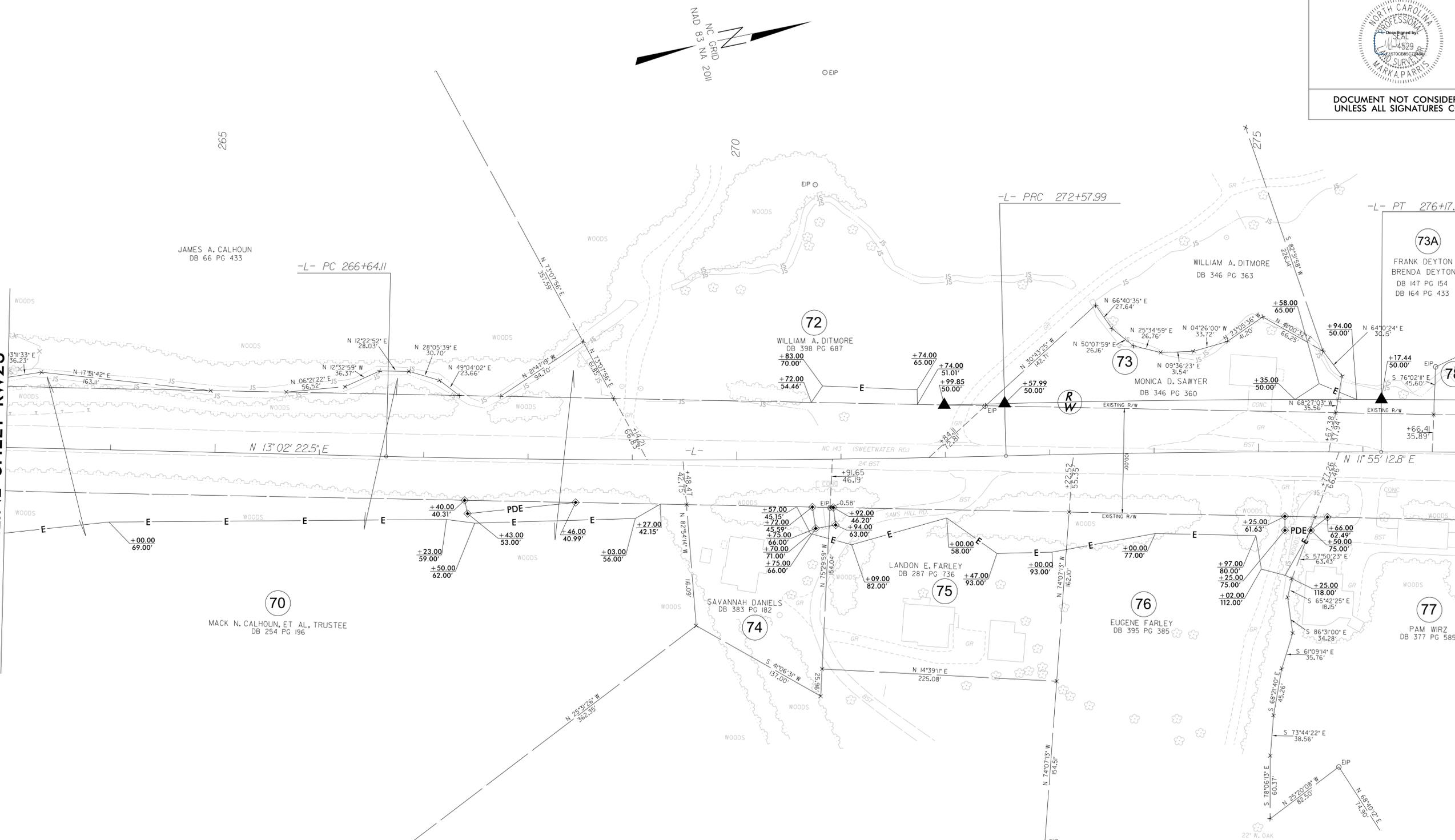


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

MATCHLINE SHEET RW23

MATCHLINE SHEET RW25



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 8/30/21 TO 11/12/21.

-L- CURVE DATA

PI Sta 287+55.00
Δ = 34° 15' 00.8" (RT)
D = 5' 58" 05.9"
L = 573.87'
T = 295.80'
R = 960.00'

PI Sta 11+11.35
Δ = 55° 08' 53.6" (LT)
D = 7' 37" 11.0"
L = 77.00'
T = 41.78'
R = 80.00'

PI Sta 20+66.90
Δ = 83° 23' 00.0" (RT)
D = 76' 23" 39.7"
L = 109.15'
T = 66.80'
R = 75.00'

-Y4- CURVE DATA

PI Sta 22+09.11
Δ = 55° 15' 43.9" (LT)
D = 60' 18" 40.8"
L = 91.63'
T = 49.73'
R = 95.00'

PI Sta 22+91.14
Δ = 23° 50' 55.2" (LT)
D = 30' 09" 20.4"
L = 79.09'
T = 40.12'
R = 190.00'

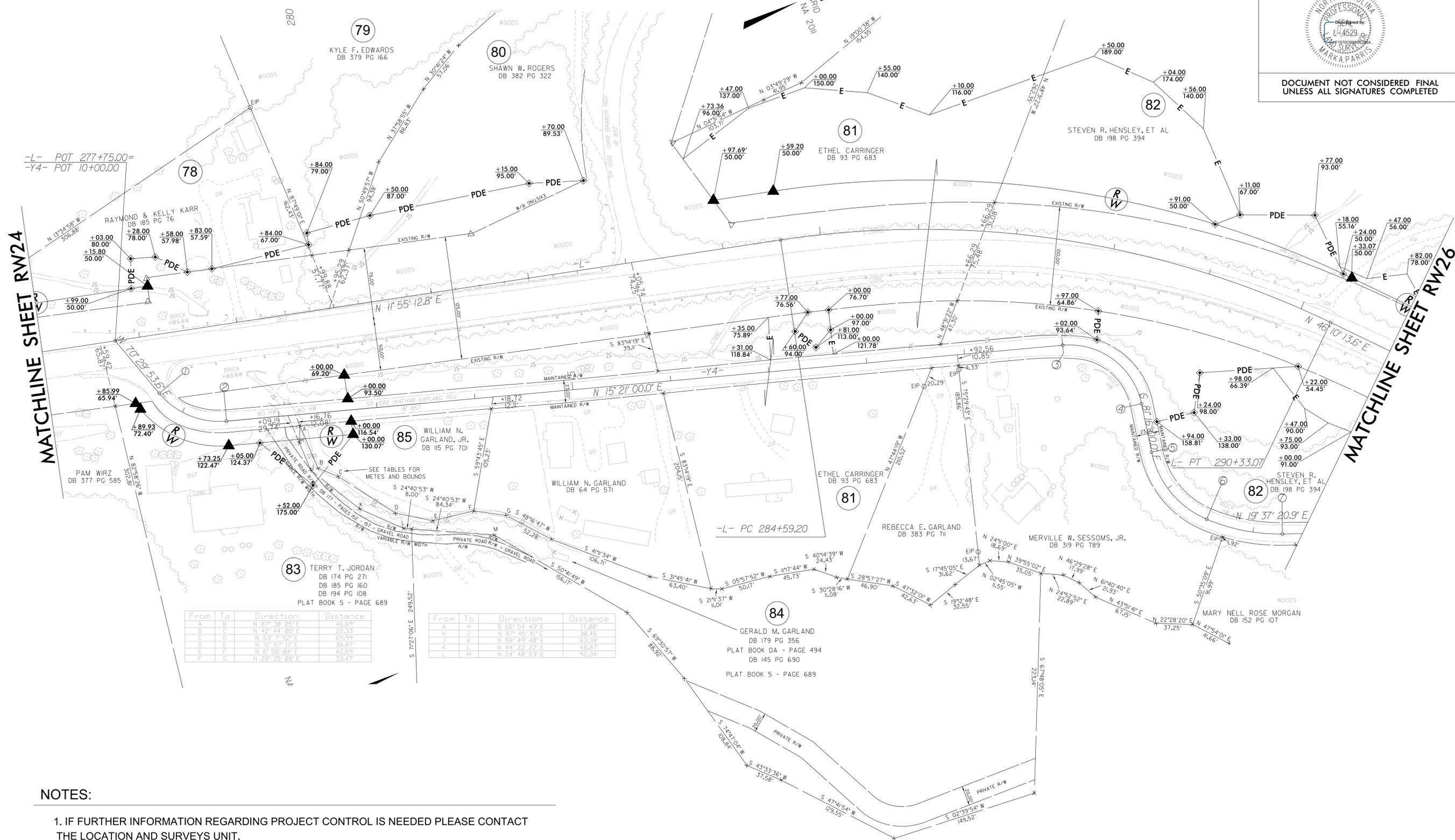
- ① -Y4- PC 10+69.57
- ② -Y4- PT 11+46.57
- ③ -Y4- PC 20+00.10
- ④ -Y4- PT 21+09.25
- ⑤ -Y4- PC 21+59.38
- ⑥ -Y4- PCC 22+51.01
- ⑦ -Y4- PT 23+30.10

I, Mark A. Paris, 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 8/30/21 to 11/12/21, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21 NCAC 56.1600 as applicable.

This 15th day of November, 2021.

Professional Land Surveyor L-4529

PROJECT REFERENCE NO.	SHEET NO.
A-0009CB	RW25
Location and Surveys	
PROJECT SURVEYOR	
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From	To	Direction	Distance
A	B	N 87° 30' 05" E	46.69'
B	C	N 42° 44' 05" E	22.33'
C	D	N 53° 7' 52" E	69.99'
D	E	N 31° 57' 11" E	38.87'
E	F	N 6° 58' 04" E	42.59'
F	G	N 28° 25' 08" E	33.47'

From	To	Direction	Distance
A	H	S 66° 54' 43" E	17.00'
H	J	N 87° 45' 41" E	30.46'
J	K	N 58° 49' 40" E	63.38'
K	L	N 44° 22' 22" E	48.87'
L	M	N 24° 40' 53" E	92.34'

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 8/30/21 TO 11/12/21.

REVISIONS

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Location and Surveys



PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Mark A. Parris, 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 8/30/21 to 11/12/21, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.
This 15th day of November, 2021.
Professional Land Surveyor L-4529

-L- CURVE DATA

PI Sta 300+23.36
Δ = 31° 41' 09.8" (LT)
D = 5' 43' 46.5"
L = 553.03'
T = 283.78'
R = 1,000.00'

PI Sta 24+49.98
Δ = 62° 22' 39.1" (RT)
D = 60' 18' 40.8"
L = 103.43'
T = 57.51'
R = 95.00'

PI Sta 26+47.22
Δ = 33° 27' 29.8" (LT)
D = 19' 05' 54.9"
L = 175.19'
T = 90.17'
R = 300.00'

PI Sta 27+92.98
Δ = 36° 32' 32.0" (LT)
D = 31' 08' 20.4"
L = 117.35'
T = 60.75'
R = 184.00'

PI Sta 29+58.22
Δ = 28° 20' 20.0" (RT)
D = 21' 42' 10.6"
L = 130.58'
T = 66.65'
R = 264.00'

PI Sta 30+89.80
Δ = 7° 44' 28.4" (RT)
D = 5' 43' 46.5"
L = 135.11'
T = 67.66'
R = 1,000.00'

PI Sta 33+31.35
Δ = 59° 32' 46.6" (LT)
D = 57' 17' 44.8"
L = 103.93'
T = 57.21'
R = 100.00'

① -Y4- PC 23+92.47
② -Y4- PT 24+95.90

③ -Y4- PC 25+57.05
④ -Y4- PCC 27+32.23
⑤ -Y4- PT 28+49.59

⑥ -Y4- PC 28+91.56
⑦ -Y4- PCC 30+22.14
⑧ -Y4- PT 31+57.25

⑨ -Y4- PC 32+74.14
⑩ -Y4- PT 33+78.07

PI Sta 34+83.66
Δ = 76° 08' 00.0" (RT)
D = 86' 48' 42.4"
L = 87.70'
T = 51.69'
R = 66.00'

PI Sta 36+39.74
Δ = 84° 11' 34.2" (LT)
D = 76' 23' 39.7"
L = 110.21'
T = 67.76'
R = 75.00'

PI Sta 37+06.50
Δ = 10° 12' 57.1" (LT)
D = 21' 03' 52.6"
L = 48.50'
T = 24.31'
R = 272.00'

PI Sta 39+22.11
Δ = 116° 14' 31.4" (RT)
D = 71' 37' 11.0"
L = 162.30'
T = 128.63'
R = 80.00'

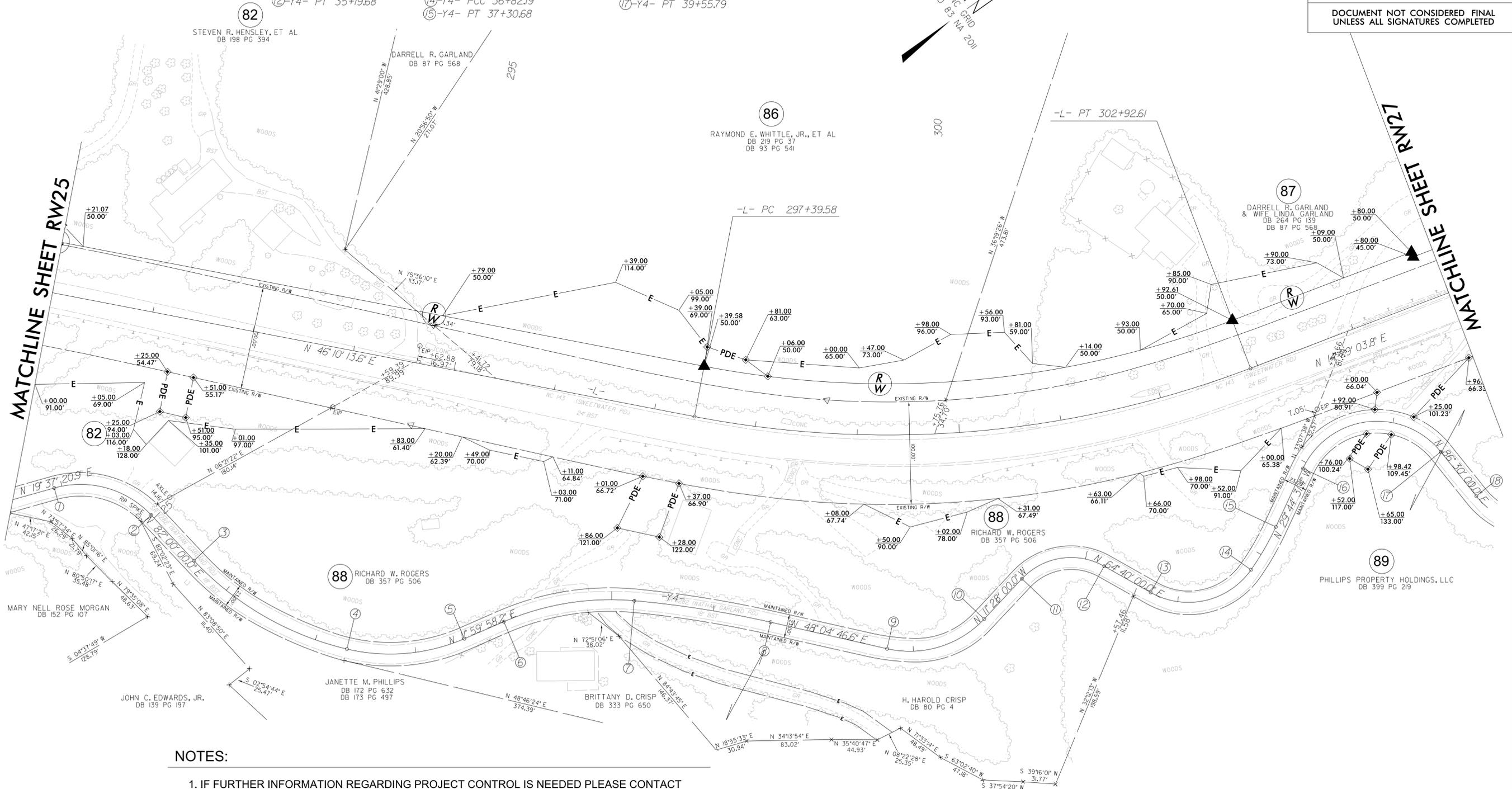
PI Sta 40+76.38
Δ = 78° 16' 33.1" (LT)
D = 71' 37' 11.0"
L = 109.29'
T = 65.10'
R = 80.00'

⑪ -Y4- PC 34+31.98
⑫ -Y4- PT 35+19.68

⑬ -Y4- PC 35+71.98
⑭ -Y4- PCC 36+82.19
⑮ -Y4- PT 37+30.68

⑯ -Y4- PC 37+93.48
⑰ -Y4- PT 39+55.79

⑱ -Y4- PC 40+11.27



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 8/30/21 TO 11/12/21.

REVISIONS

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-L- CURVE DATA

PI Sta 311+70.00
 $\Delta = 54^{\circ} 45' 45.1''$ (RT)
 $D = 5^{\circ} 24' 18.9''$
 $L = 1,013.13'$
 $T = 549.01'$
 $R = 1,060.00'$

PI Sta 320+83.09
 $\Delta = 32^{\circ} 27' 42.9''$ (LT)
 $D = 7^{\circ} 32' 20.1''$
 $L = 430.59'$
 $T = 221.25'$
 $R = 760.00'$

-Y4- CURVE DATA

PI Sta 40+76.38
 $\Delta = 78^{\circ} 16' 33.1''$ (LT)
 $D = 7^{\circ} 37' 11.0''$
 $L = 109.29'$
 $T = 65.10'$
 $R = 80.00'$

PI Sta 41+53.87
 $\Delta = 15^{\circ} 47' 56.9''$ (LT)
 $D = 23^{\circ} 52' 23.7''$
 $L = 66.18'$
 $T = 33.30'$
 $R = 240.00'$

PI Sta 43+61.39
 $\Delta = 41^{\circ} 05' 30.0''$ (LT)
 $D = 28^{\circ} 38' 52.4''$
 $L = 143.44'$
 $T = 74.96'$
 $R = 200.00'$

① -Y4- PCC 41+20.57
 ② -Y4- PT 41+86.75
 ③ -Y4- PC 42+86.43
 ④ -Y4- PT 44+29.86

I, Mark A. Paris, 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 8/30/21 to 11/12/21, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of November, 2021.
 Professional Land Surveyor L-4529

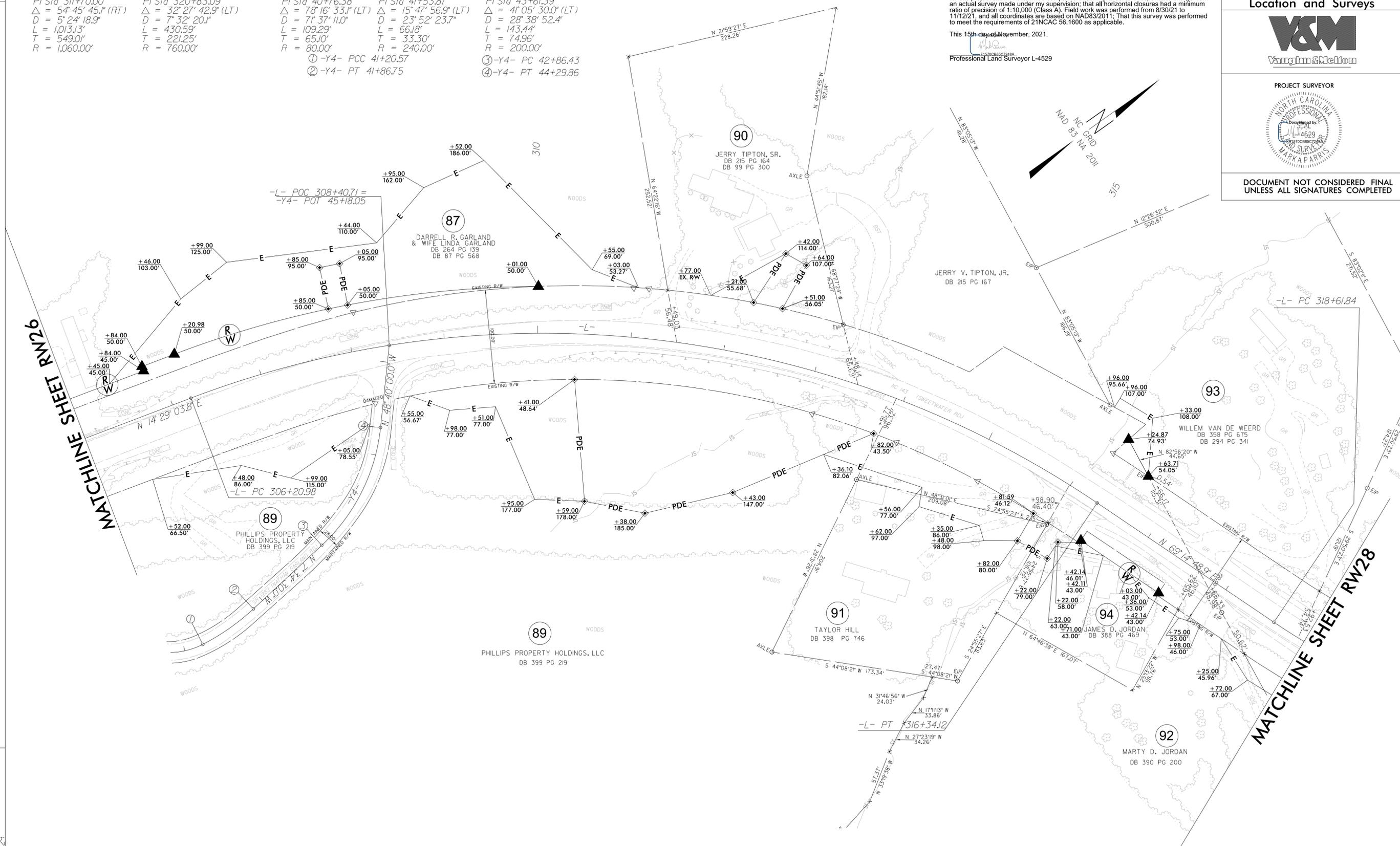
PROJECT REFERENCE NO.	SHEET NO.
A-0009CB	RW27
Location and Surveys	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

MATCHLINE SHEET RW26

MATCHLINE SHEET RW28

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 J. Jordan



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 8/30/21 TO 11/12/21.

-L- CURVE DATA

PI Sta 320+83.09	PI Sta 328+01.63
$\Delta = 32^{\circ} 27' 42.9''$ (LT)	$\Delta = 21^{\circ} 44' 00.0''$ (RT)
$D = 7^{\circ} 32' 20.1''$	$D = 4^{\circ} 05' 33.2''$
$L = 430.59'$	$L = 531.05'$
$T = 221.25'$	$T = 268.75'$
$R = 760.00'$	$R = 1,400.00'$

I, Mark A. Parris, 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 8/30/21 to 11/12/21, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

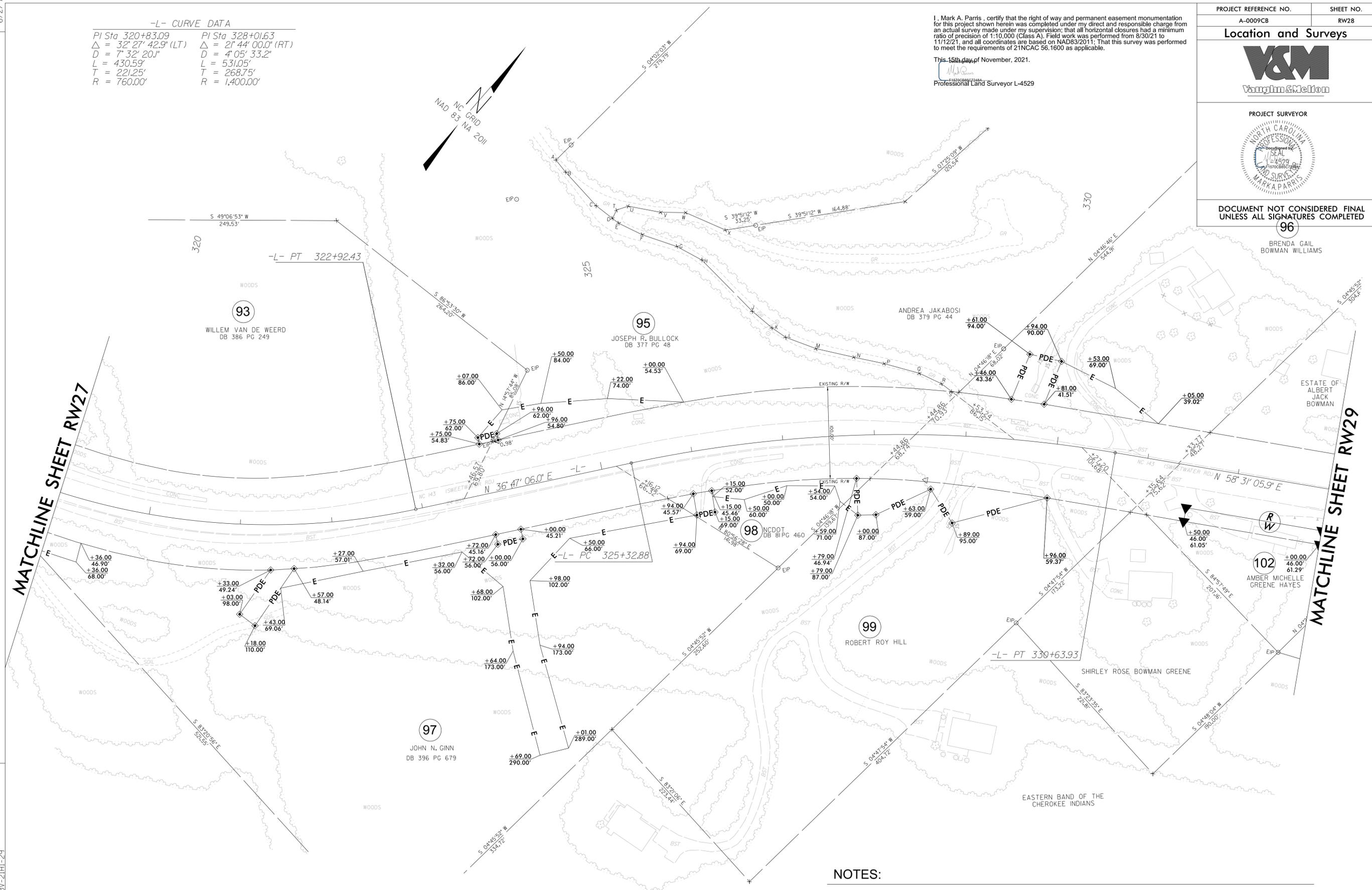
This is the 15th day of November, 2021.
 Mark A. Parris
 Professional Land Surveyor L-4529

PROJECT REFERENCE NO. A-0009CB	SHEET NO. RW28
Location and Surveys	
	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

MATCHLINE SHEET RW27

MATCHLINE SHEET RW29



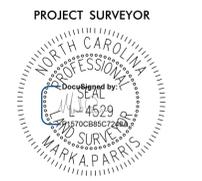
NOTES:

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 8/30/21 TO 11/12/21.

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 Legend

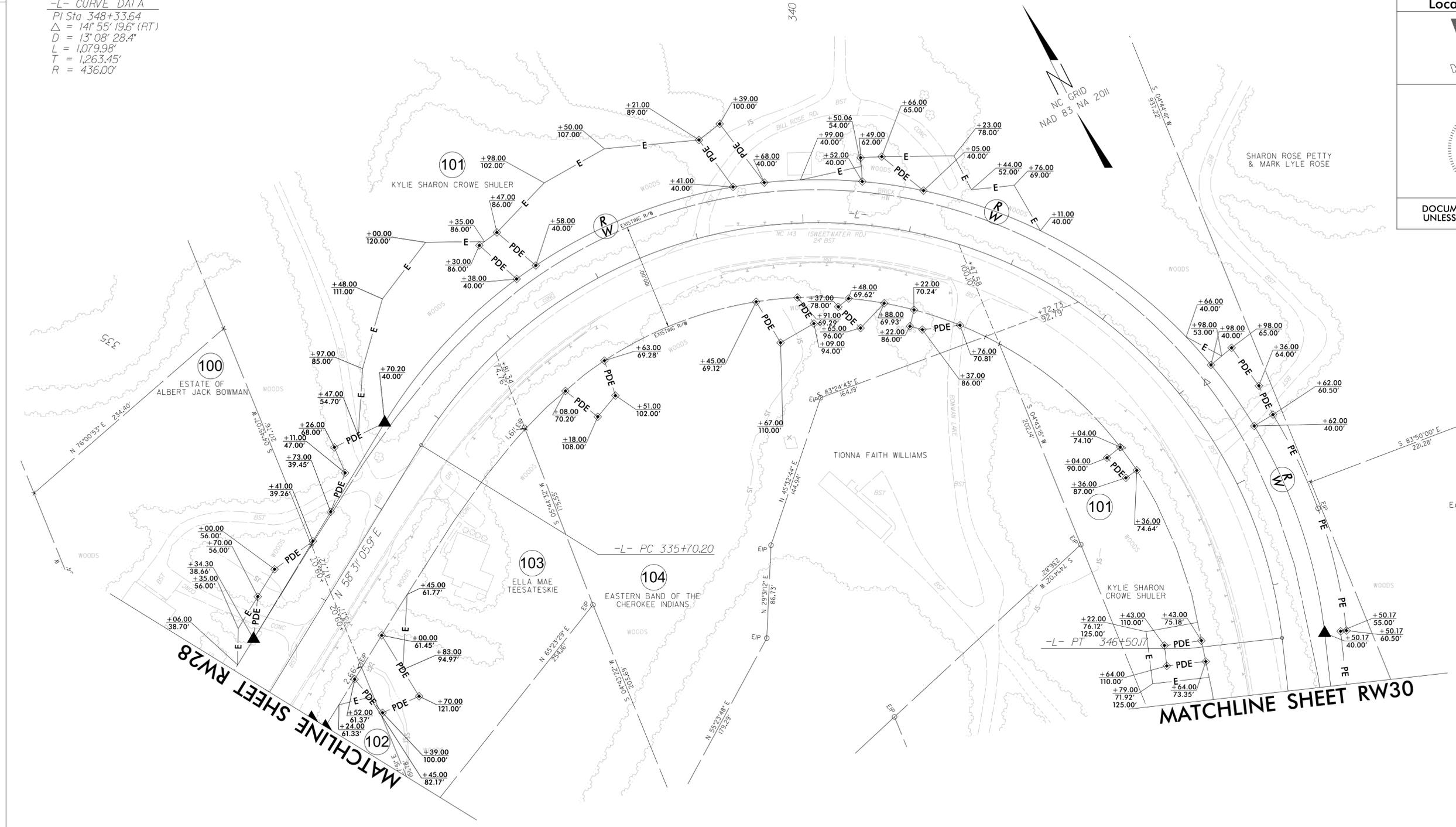
-L- CURVE DATA
 PI Sta 348+33.64
 $\Delta = 141^{\circ} 55' 19.6" (RT)$
 $D = 13^{\circ} 08' 28.4"$
 $L = 1,079.98'$
 $T = 1,263.45'$
 $R = 436.00'$

Location and Surveys



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS



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 legordon

I, Mark A. Parris, 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 8/30/21 to 11/12/21, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of November, 2021.

Mark A. Parris
 Professional Land Surveyor L-4529

NOTES:

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED 8/30/21 TO 11/12/21.