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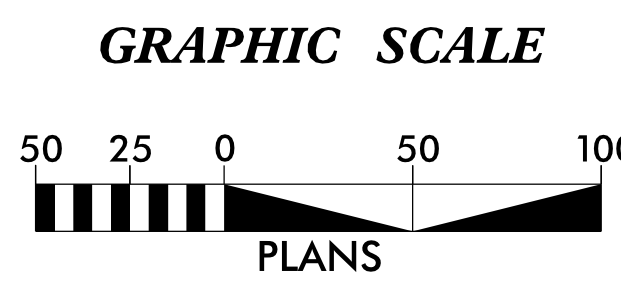
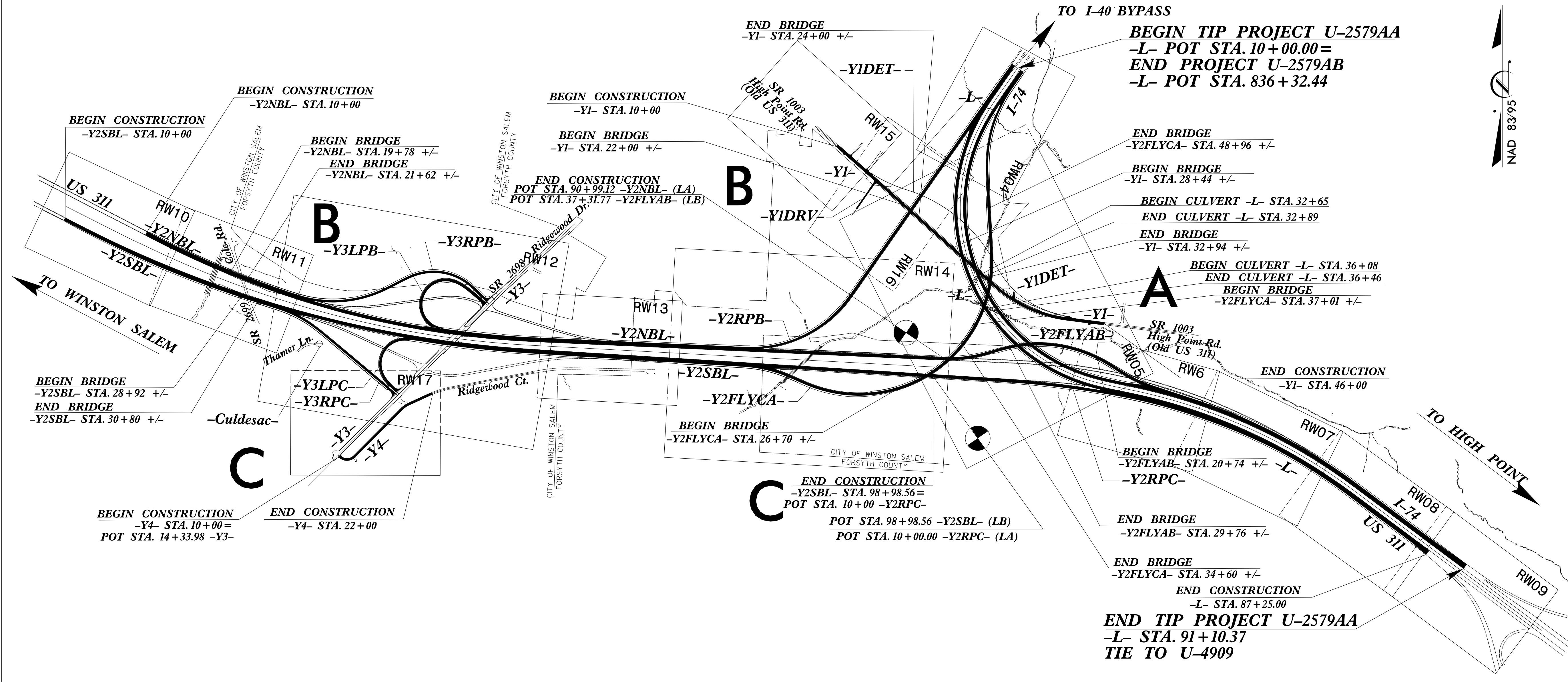
**This file or an individual page
shall not be considered a certified document.**

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

FORSYTH COUNTY

TIP PROJECT: U2579AA



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "U2579C-1" WITH NAD 83/95 STATE PLANE GRID COORDINATES OF NORTHING: 876,419.285(ft) EASTING: 1,651,591.602(ft) ELEVATION: 976.94(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99995453

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U2579C-1" TO -L- STATION 10+00.00 IS S 17° 05' 23.87" E 34080.56(ft)

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

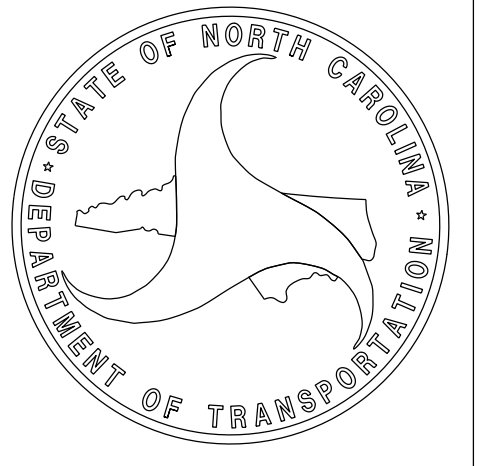
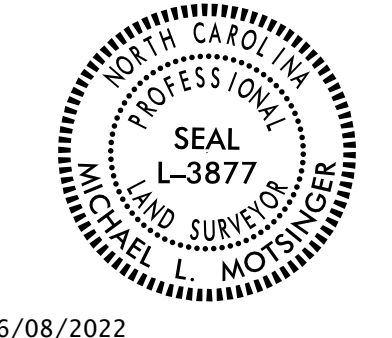
Prepared in the Office of:

2018 STANDARD SPECIFICATIONS


RIGHT OF WAY DATE:	LETTING DATE:
_____	_____

PROFESSIONAL LAND SURVEYOR

DocuSigned by:
Michael L. Motziger
F06BFE7E23C40E
06/08/2022



01-JUN-2022 15:20: SA Units \Div09\Winston\Cliffs Computer\Urban\U2579aa\Right of Way\Julie\All control sheet revisions\to be checked\U2579aa_LS_RW01.dgn AT LS-312635

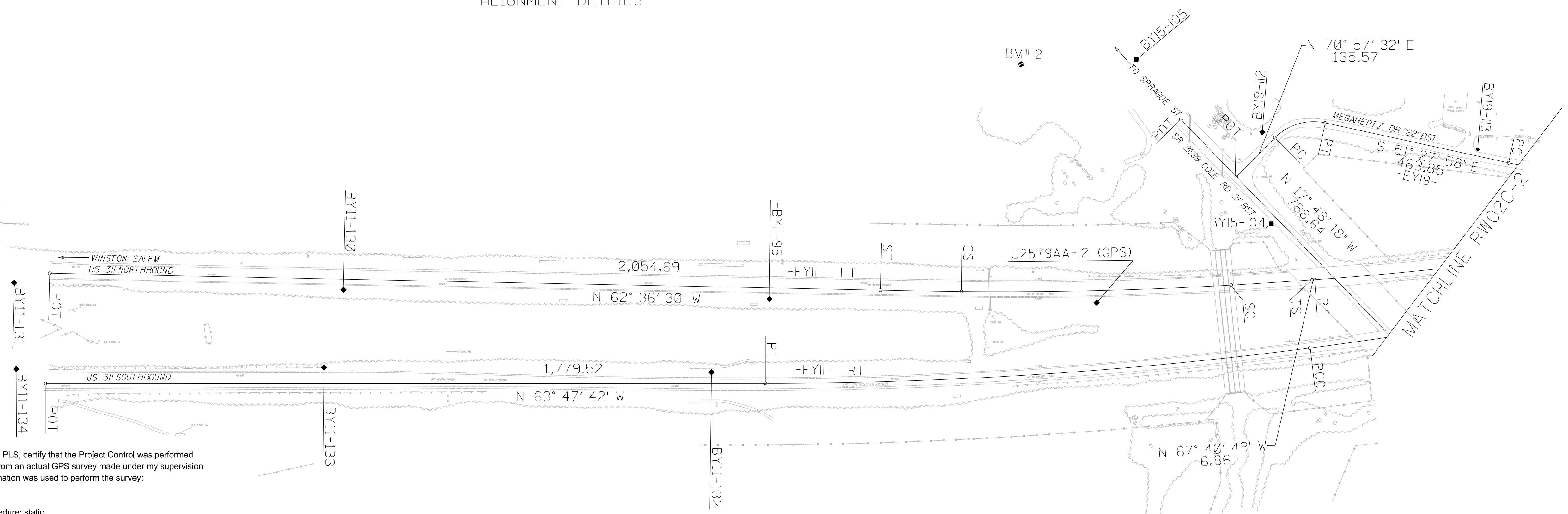
PROJECT REFERENCE NO.	SHEET NO.
U2579AA	RW02C-1
Location and Surveys	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEETS RW02C-12,
RW02C-14, AND RW02C-15
FOR FURTHER
ALIGNMENT DETAILS



I, Michael L. Molsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

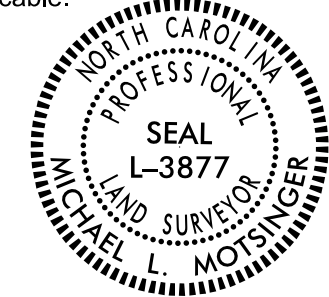
Class of survey: **AA**
 Type of GPS field procedure: static
 Dates of survey: June 2008
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: U2579C-1
 Northing: 876,419.285
 Easting: 1,651,591.602
 Combined grid factor: 0.99995543
 Geoid model: Geoid 03
 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 January 2008 to June 2008, and all coordinates are based on NAD 83/95 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of June, 2022.

DocuSigned by:

 Professional Land Surveyor L-3877




NOTES:

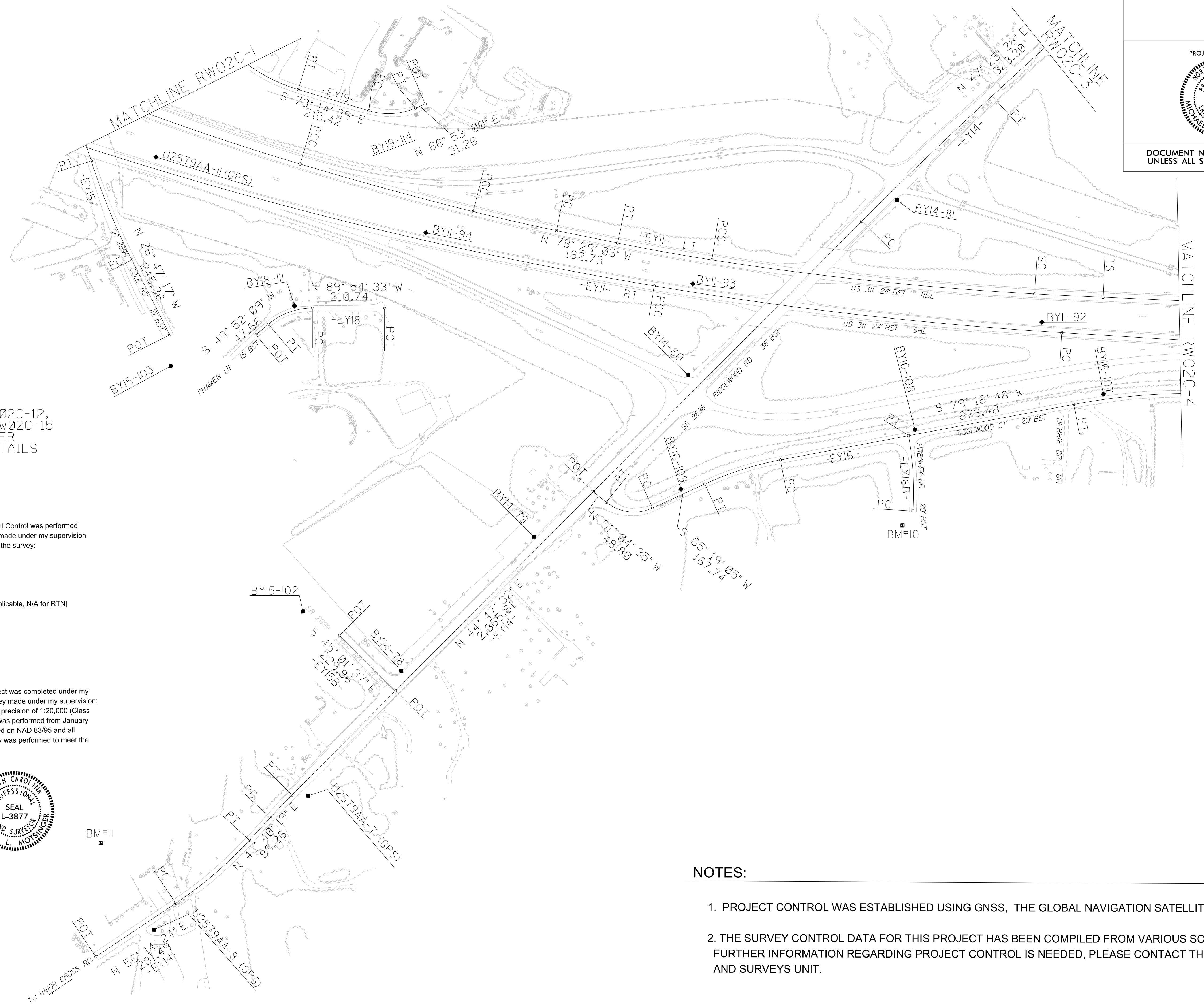
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

O:\JUN-2022\1548 S:\Units\01\04\Winston\Cliff.us Computer\Urbon\U2579aa\Right of Way\Julie\All control sheet revisions\tobechecked\U2579AA_LS_rw2c-1.dgn
 AT LS-312635
 molsinger

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U2579AA	SHEET NO. RW02C-2
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SEE SHEETS RW02C-12,
RW02C-14, AND RW02C-15
FOR FURTHER
ALIGNMENT DETAILS

I, Michael L. Motsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: static
 Dates of survey: June 2008
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: U2579C-1
 Northing: 876,419.285

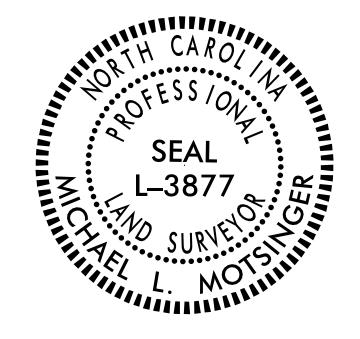
Easting: 1,651,591.602
 Combined grid factor: 0.99995543
 Geoid model: Geoid 03
 Units: English

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This 1st day of June, 2022.

DocuSigned by:

 Professional Land Surveyor L-3877



BM#11

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
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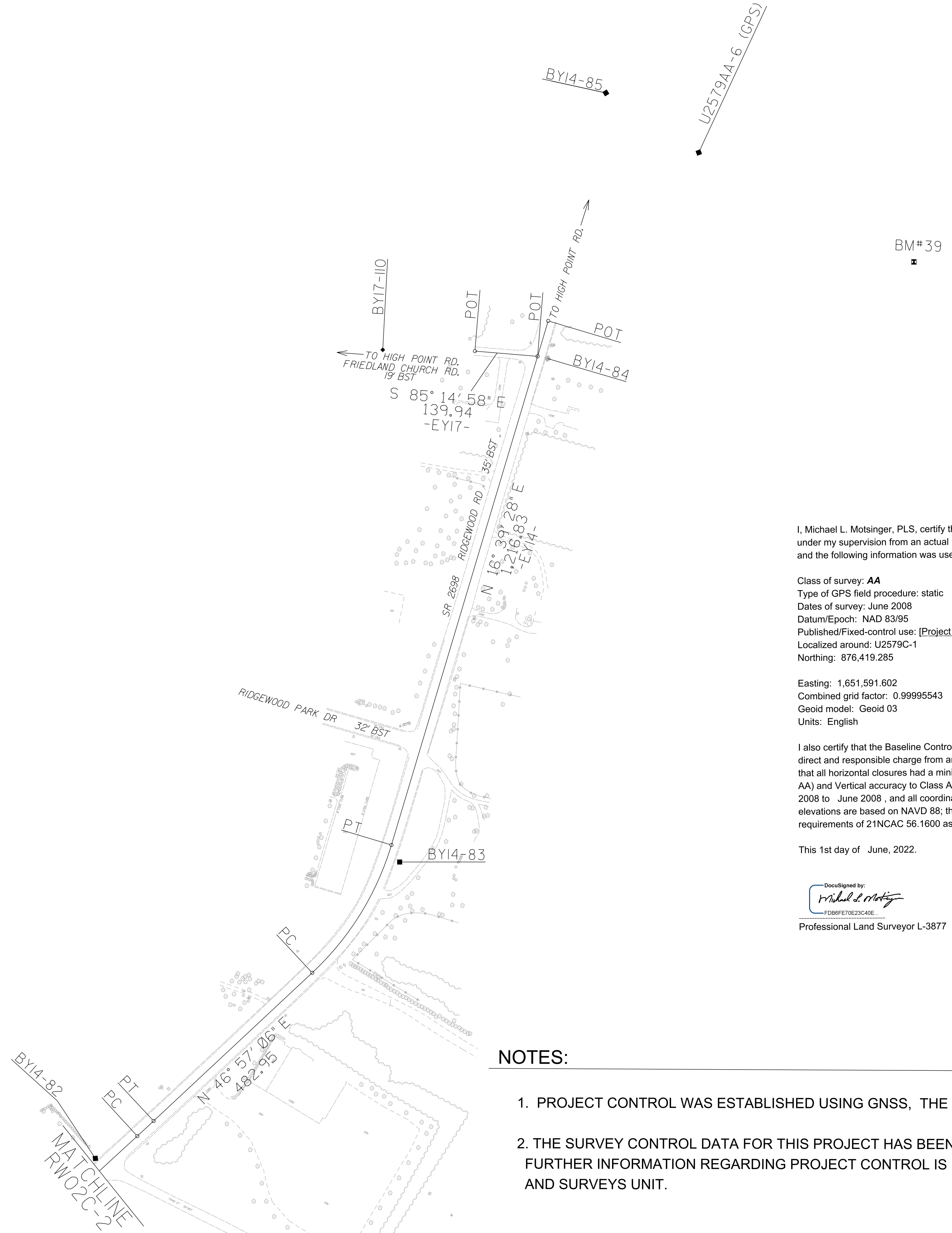
REVISIONS
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 AT LS-312635
 M. Motsinger

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-14
FOR FURTHER
ALIGNMENT DETAILS



PROJECT REFERENCE NO. U2579AA	SHEET NO. RW02C-3
Location and Surveys	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Michael L. Motsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: static
 Dates of survey: June 2008
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: U2579C-1
 Northing: 876,419.285

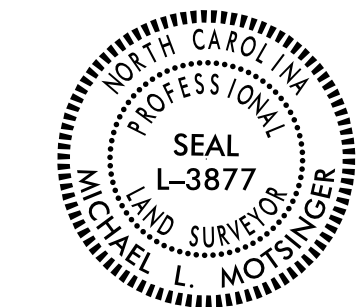
Easting: 1,651,591.602
 Combined grid factor: 0.99995543
 Geoid model: Geoid 03
 Units: English

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 Professional Land Surveyor L-3877



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I, Michael L. Motsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

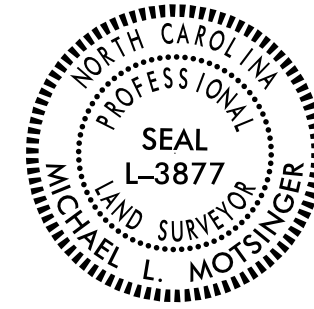
Class of survey: AA
Type of GPS field procedure: static
Dates of survey: June 2008
Datum/Epoch: NAD 83/95
Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
Localized around: U2579C-1
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This 1st day of June, 2022.

DocuSigned by:
Michael L. Motsinger

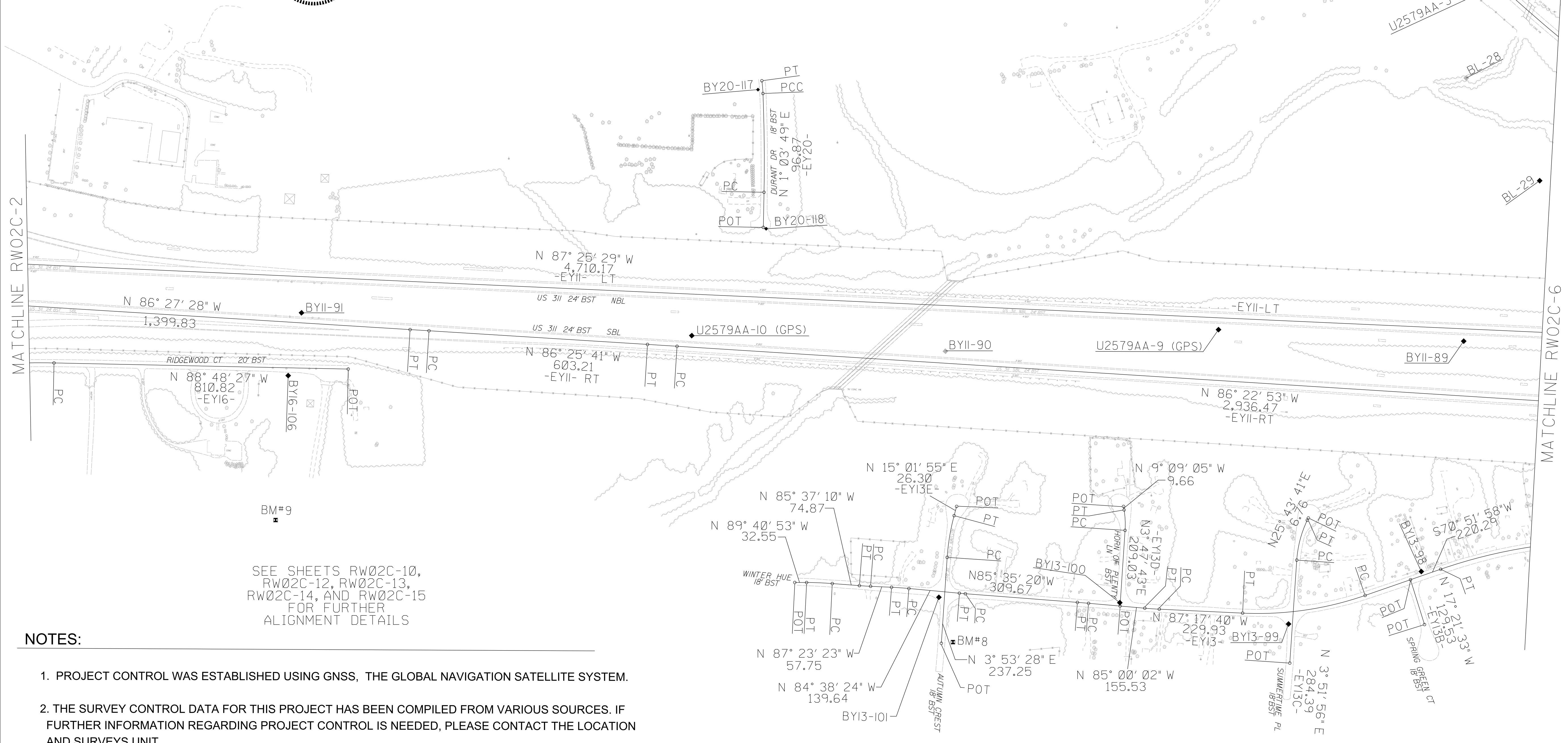
Professional Land Surveyor L-3877



SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U2579AA	RW02C-4
Location and Surveys	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SEE SHEETS RW02C-10, RW02C-12, RW02C-13, RW02C-14, AND RW02C-15 FOR FURTHER ALIGNMENT DETAILS


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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U2579AA	RW02C-5
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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 Type of GPS field procedure: static
 Dates of survey: June 2008
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: U2579C-1
 Northing: 876,419.285
 Easting: 1,651,591.602
 Combined grid factor: 0.99995543
 Geoid model: Geoid 03
 Units: English

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This 1st day of June, 2022.

DocuSigned by:

 Professional Land Surveyor L-3877



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 AT LS-312635
 mmolsinger



SEE SHEETS RW02C-10
 AND RW02C-11
 FOR FURTHER
 ALIGNMENT DETAILS

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U2579AA SHEET NO. RW02C-6

Location and Surveys

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SEE SHEETS RW02C-10, RW02C-11, RW02C-12, AND RW02C-13 FOR FURTHER ALIGNMENT DETAILS

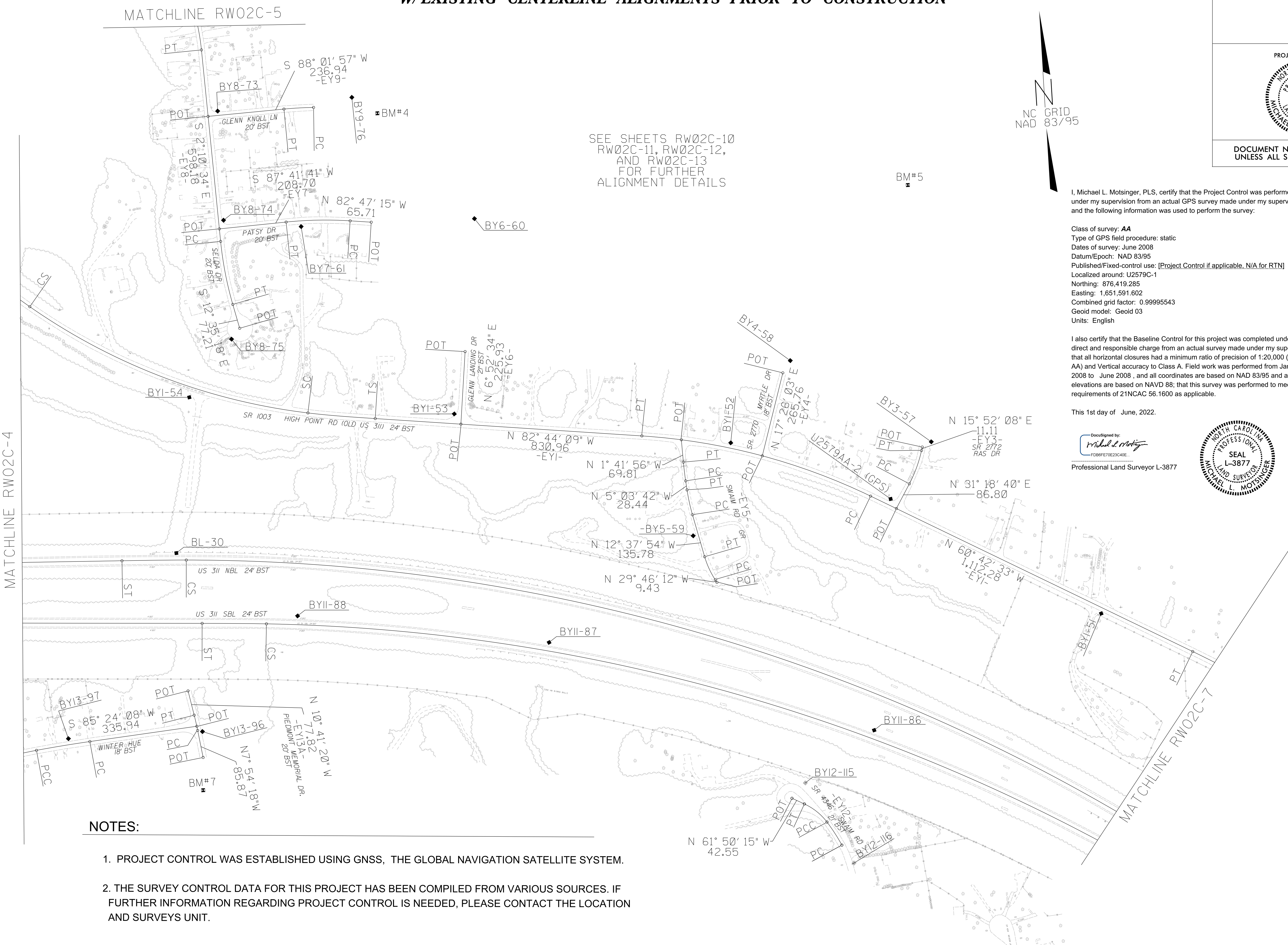
I, Michael L. Motsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA
Type of GPS field procedure: static
Dates of survey: June 2008
Datum/Epoch: NAD 83/95
Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
Localized around: U2579C-1
Northing: 876,419,285
Easting: 1,651,591,602
Combined grid factor: 0.99995543
Geoid model: Geoid 03
Units: English

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This 1st day of June, 2022.

DocuSigned by:
Michael L. Motsinger
F0B8F7E23C40E
Professional Land Surveyor L-3877



NOTES:


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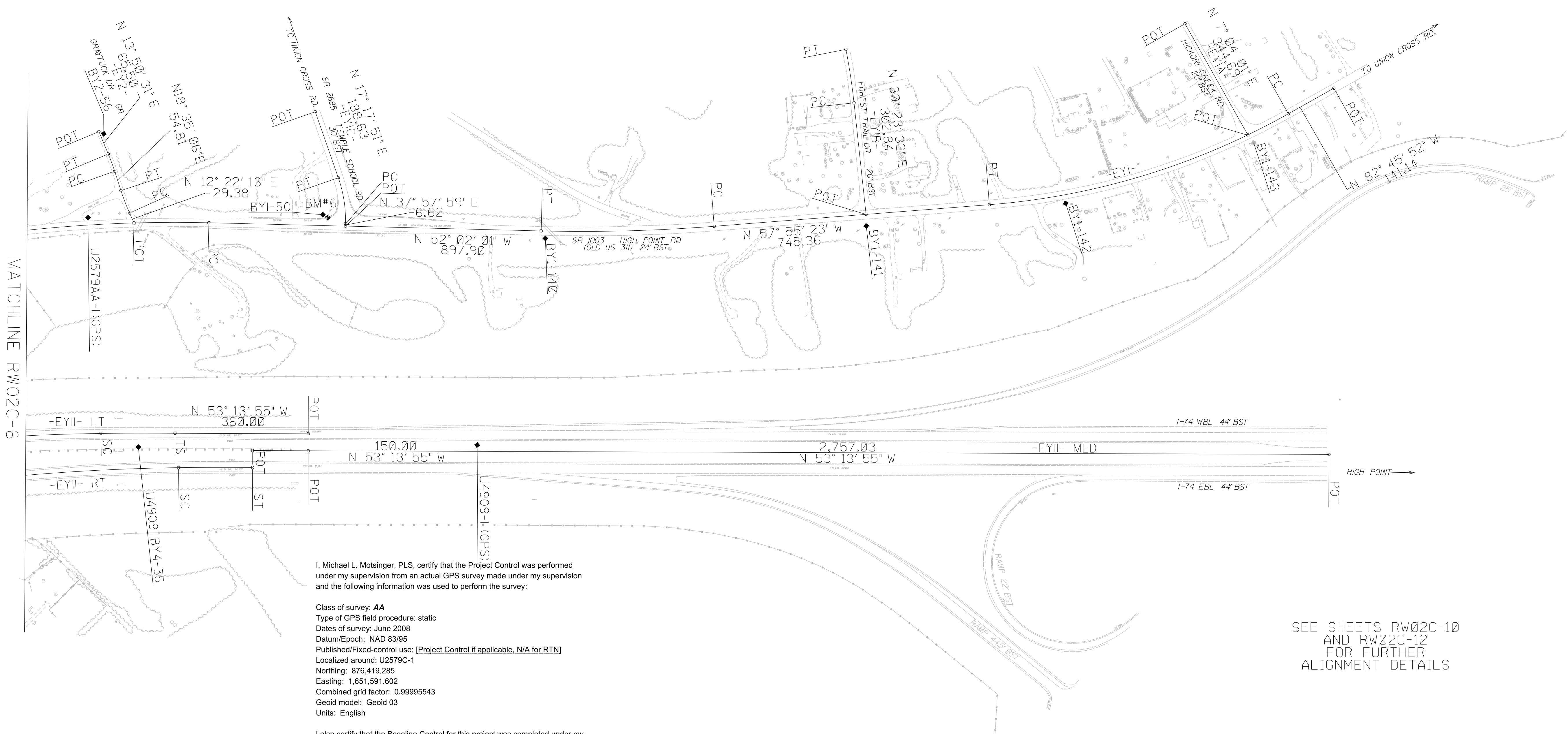
REVISIONS

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AT LS-312635
motsinger

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U2579AA	SHEET NO. RW02C-7
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE RW02C-6

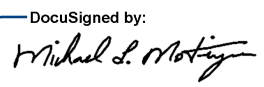
REVISIONS
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 AT LS-312635
 michael.l.motsinger

I, Michael L. Motsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

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 Type of GPS field procedure: static
 Dates of survey: June 2008
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
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 Easting: 1,651,591.602
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This 1st day of June, 2022.

DocuSigned by:

 FDB8F70E23C40E

Professional Land Surveyor L-3877




SEE SHEETS RW02C-10
 AND RW02C-12
 FOR FURTHER
 ALIGNMENT DETAILS

NOTES:

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U2579AA	RW02C-B
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
AB56		U2579AB-56	845033.2140	1662502.9870	918.52
20		BL-20	844813.8230	1662235.0560	922.09
21		BL-21	844606.9870	1662119.2180	910.12
22		BL-22	844221.3400	1661874.1240	864.17
23		BL-23	843982.8410	1661720.2670	877.47
24		BL-24	843594.7920	1661418.8570	871.21
25		BL-25	843153.2290	1661095.4090	877.69
26		BL-26	842536.5410	1660879.7260	849.67
27		BL-27	842193.2450	1660753.8690	832.46
28		BL-28	841614.3320	1661051.7270	815.36
29		BL-29	841331.4060	1661254.0080	843.31
30		BL-30	840913.1030	1661741.2750	863.96

BY6	POINT	DESC.	NORTH	EAST	ELEVATION
E53		BY1-53	841291.4350	1662630.5670	832.29
60		BY6-60	841893.5220	1662730.7240	870.07

BY7	POINT	DESC.	NORTH	EAST	ELEVATION
E60		BY6-60	841893.5220	1662730.7240	870.07
61		BY7-61	841902.2360	1662191.2860	874.50
74		BY8-74	841936.7900	1661951.6420	869.08

BY8	POINT	DESC.	NORTH	EAST	ELEVATION
72		BY8-72	842773.6020	1661866.7690	835.93
73		BY8-73	842276.6540	1661954.2840	857.30
E74		BY8-74	841936.7900	1661951.6420	869.08
75		BY8-75	841566.2230	1661953.6120	864.32

BY9	POINT	DESC.	NORTH	EAST	ELEVATION
76		BY9-76	842293.3650	1662373.4610	873.13
E73		BY8-73	842276.6540	1661954.2840	857.30

BY10	POINT	DESC.	NORTH	EAST	ELEVATION
E5		GPS U2579AA-5	843548.0090	1659229.9870	886.33
77		BY10-77	844045.3400	1659558.6670	898.19

BY11	POINT	DESC.	NORTH	EAST	ELEVATION
U49091		U4909-1	839184.3470	1665574.1220	916.29
U4909435		U4909 BY4-35	839725.3940	1664835.8610	904.53
86		BY11-86	840229.3510	1663873.1570	892.84
87		BY11-87	840564.1460	1662880.9560	880.46
88		BY11-88	840694.7230	1662105.5200	870.80
E30		BL-30	840913.1030	1661741.2750	863.96
89		BY11-89	840889.2860	1661044.6730	851.20
9		GPS U2579AA-1	840920.9990	1660369.0570	842.08
90		BY11-90	840861.6570	1659616.6720	841.37
10		GPS U2579AA-10	840904.5650	1658917.7880	843.98
91		BY11-91	840967.4110	1657842.5280	852.27
92		BY11-92	841038.0280	1656686.5040	860.02
E93			841120.7518	1655935.6519	UNKNOWN
93		BY11-93	841150.4960	1655665.6750	856.90
94		BY11-94	841300.1120	1654885.0470	844.28
11		GPS U2579AA-11	841521.3570	1654095.3710	826.75
F104			841643.5461	1653860.2610	789.90
12		GPS U2579AA-12	841946.2600	1653277.7940	813.44
95		BY11-95	842312.1133	1652555.6764	827.89
130		BY11-130	842797.8174	1651620.8598	854.60
131		BY11-131	843173.0950	1650898.0970	875.33

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
143			838590.4930	1667744.8110	945.12
142			838761.7399	1667239.5736	929.44
141			839033.5675	1666770.5343	909.25
140			839523.3533	1666054.6383	902.68
50		BY1-50	839932.2240	1665609.6500	898.96
1		GPS U2579AA-1	840304.0850	1665095.5770	878.58
51		BY1-51	840547.8030	1664600.2490	874.60
2		GPS U2579AA-2	840943.8710	1663968.6370	872.38
52		BY1-52	841148.7070	1663483.1890	867.09
53		BY1-53	841291.4350	1662630.5670	832.29
54		BY1-54	841393.8960	1661811.3900	823.85
A27		BL-27	842193.2450	1660753.8690	832.45
4		GPS U2579AA-4	842492.9620	1660417.3890	846.25
55		BY1-55	843040.7430	1659852.3580	868.88
5		GPS U2579AA-5	843548.0090	1659229.9870	886.33
6		GPS U2579AA-6	844106.2770	1658028.0240	883.48
R85		BY14-85	844238.8560	1657821.3370	880.52

BY2	POINT	DESC.	NORTH	EAST	ELEVATION
E1		GPS U2579AA-1	840304.0850	1665095.5770	878.58
56		BY2-56	840460.1690	1665264.5950	893.54

BY3	POINT	DESC.	NORTH	EAST	ELEVATION
E2		GPS U2579AA-2	840943.8710	1663968.6370	872.38
57		BY3-57	841113.3580	1664105.7750	887.65

BY4	POINT	DESC.	NORTH	EAST	ELEVATION
F52		BY1-52	841148.7070	1663483.1890	867.09
58		BY4-58	841392.3600	1663683.7420	891.38

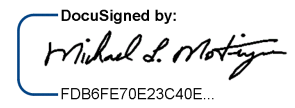
BY5	POINT	DESC.	NORTH	EAST	ELEVATION
59		BY5-59	840867.3690	1663348.7850	869.09
E52		BY1-52	841148.7070	1663483.1890	867.09

I, Michael L. Motsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: static
 Dates of survey: June 2008
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: U2579C-1
 Northing: 876,419.285
 Easting: 1,651,591.602
 Combined grid factor: 0.99995543
 Geoid model: Geoid 03
 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 January 2008 to June 2008, and all coordinates are based on NAD 83/95 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of June, 2022.

DocuSigned by:

 Professional Land Surveyor L-3877



NOTES:


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REVISIONS

08-JUN-2022 08:11 S:\Units\Div08\Winston\Cliff Computer\Urbon\U2579aa\Right of Way\Julie\All control sheet revisions\to be checked\U2579AA_LL-rw2c-8.dgn AT LS-312635 mmotsinger

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U2579AA	SHEET NO. RW02C-9
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BY11A POINT	DESC.	NORTH	EAST	ELEVATION
C95	BY11-95	842312.1133	1652555.6764	827.89
132	BY11-132	842212.8742	1652347.3236	832.21
133	BY11-133	842646.9509	1651493.0031	855.29
134	BY11-134	842979.6090	1650808.6990	869.85

BY18 POINT	DESC.	NORTH	EAST	ELEVATION
E103	BY15-103	840909.4030	1654138.6560	829.53
111	BY18-111	841085.5868	1654500.4697	835.13

BY12 POINT	DESC.	NORTH	EAST	ELEVATION
116	BY12-116	839821.2210	1663785.1530	925.38
115	BY12-115	840079.0190	1663649.3570	915.05

BY19 POINT	DESC.	NORTH	EAST	ELEVATION
G104	BY15-104	841930.5849	1653751.4127	789.85
112	BY19-112	842143.9581	1653831.5486	788.11
113	BY19-113	841870.1725	1654290.4614	801.30
114	BY19-114	841644.8254	1654856.1447	832.95

BY13 POINT	DESC.	NORTH	EAST	ELEVATION
96	BY13-96	840354.1810	1661787.9940	900.34
97	BY13-97	840357.9060	1661370.5920	893.23
98	BY13-98	840254.6090	1660927.8320	893.13
99	BY13-99	840109.9640	1660562.0090	900.79
100	BY13-100	840168.7500	1660097.1280	895.51
101	BY13-101	840183.5660	1659598.6090	848.63

BY20 POINT	DESC.	NORTH	EAST	ELEVATION
118	BY20-118	841198.9930	1659122.7300	836.12
117	BY20-117	841582.3510	1659100.1710	845.64

BY14 POINT	DESC.	NORTH	EAST	ELEVATION
8	GPS U2579AA-8	839260.4280	1654089.4880	864.73
7	GPS U2579AA-7	839652.5760	1654540.6580	878.26
78	BY14-78	840017.3820	1654812.7560	869.57
79	BY14-79	840410.6390	1655200.7400	868.66
80	BY14-80	840883.1330	1655652.2160	877.60
81	BY14-81	841395.0730	1656262.8670	884.66
82	BY14-82	841868.9000	1656685.4230	882.81
83	BY14-83	842528.1170	1657362.4780	884.90
84	BY14-84	843647.9410	1657691.7560	894.08
85	BY14-85	844238.8650	1657821.3370	880.52

 BM1 ELEVATION = 912.25
 N 844967 E 1661471
 PAINTED NE BOLT ON PIPE COUPLING W OF
 GLENN HI RD, +/-30' WEST OF A 15" RCP
 UNDER GLENN HI RD

 BM7 ELEVATION = 910.02
 N 840172 E 1661779
 CHISELED X ON BELL OF 15" RCP, +/- 20'
 NE OF POWER POLE, 9' WEST OF EP OF
 PIEDMONT MEMORIAL DRIVE

BY15 POINT	DESC.	NORTH	EAST	ELEVATION
E78	BY14-78	840017.3820	1654812.7560	869.57
102	BY15-102	840192.0260	1654525.1730	874.21
103	BY15-103	840909.4030	1654138.6560	829.53
104	BY15-104	841930.5849	1653751.4127	789.85
105	BY15-105	842442.3058	1653631.2063	794.20

 BM2 ELEVATION = 899.24
 N 844452 E 1660096
 X ON SOUTH END OF 15" RCP UNDER SHIELDSDALE
 DR NEAR GLENN HI RD, +/-15' NE OF GLENN
 HI ESTATES SIGN

 BM8 ELEVATION = 864.85
 N 840060 E 1659637
 R/R SPIKE IN NW ROOT OF 24" GUM, EAST OF
 AUTUMN CREST DRIVE

BY16 POINT	DESC.	NORTH	EAST	ELEVATION
E79	BY14-79	840410.6390	1655200.7400	868.66
109	BY16-109	840550.0710	1655630.7910	869.48
108	BY16-108	840724.2810	1656315.3950	857.34
107	BY16-107	840827.8010	1656866.8890	858.27
106	BY16-106	840794.4070	1657805.7980	850.85

 BM3 ELEVATION = 886.06
 N 843863 E 1658507
 R/R SPIKE IN ASPHALT DRIVE TO AUTO
 SCRAP YARD, +/-15' NW OF OLD DRIVE-IN
 MOVIE SIGN, 4" NW OF A 6" CL FENCE COR

 BM9 ELEVATION = 829.68
 N 840396 E 1657771
 TOP OF NUT (NEAR GROUND LEVEL) ON EASTERN
 FACE OF NE LEG OF HIGH TENSION TOWER,
 SECOND TOWER FROM RIDGEWOOD COURT

BY17 POINT	DESC.	NORTH	EAST	ELEVATION
110	BY17-110	843667.3916	1657324.9113	880.40
E84	BY14-84	843647.9410	1657691.7560	894.08

 BM4 ELEVATION = 876.61
 N 842239 E 1662450
 CHISELED COR OF CONC DR @ 3950 GLENN
 KNOLL LN, IN SOUTH SIDE OF GLENN KNOLL
 LN WHERE CONCRETE MEETS ASPHALT

 BM10 ELEVATION = 857.39
 N 840443 E 1656278
 CONC RW MON, +/- 25' WEST OF PRESSLY DR
 ACROSS FROM 3131 PRESLEY DRIVE

 BM5 ELEVATION = 924.41
 N 841915 E 1664082
 "B" IN BOONE @ PICNIC SHELTER FOR MCC OF
 W-S CHURCH, "B" LOCATED ON SE COR
 SLIGHTLY UNDER SHELTER, CHURCH LOCATED
 AT 4105 PATSY DRIVE

 BM11 ELEVATION = 858.82
 N 839515 E 1653934
 -BY14- STATION 5+50 294' LEFT
 R/R SPIKE IN BASE OF 24" GUM

 BM6 ELEVATION = 898.16
 N 839918 E 1665616
 S 24° 50' 49.9" E DIST 15.22'
 R/R SPIKE IN C&G @ HIGH PT RD & TEMPLE
 SCHOOL RD, +/- 15' OF A DI

 BM12 ELEVATION = 796.80
 N 842558 E 1653371
 N 66° 03' 55.8" W DIST 285.20'
 R/R SPIKE IN ROOT IN BASE OF 48" POPLAR

I, Michael L. Molsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

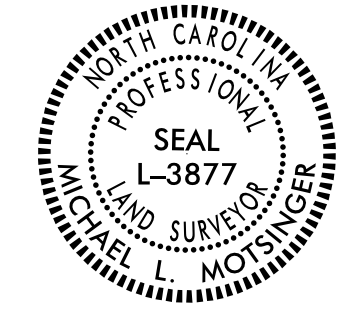
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 Datum/Epoch: NAD 83/95
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 Units: English

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This 1st day of June, 2022.

DocuSigned by:

 F089F7E23C4AE
 Professional Land Surveyor L-3877



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REVISIONS

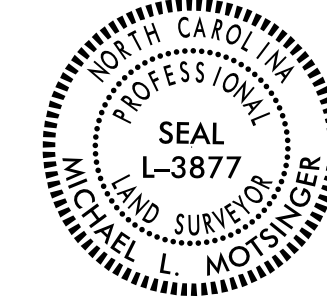
08-JUN-2022 08:27 S:\Units\Div08\Winston\Cliffs Computer\Urbon\U2579aa\Right of Way\Julie\All control sheet revisions\tobechecked\U2579AA_LL_rw2c-9.dgn AT LS-32635 molsinger

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

Location and Surveys

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

EY1 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
POT	838579.993	1668006.572											
LINE			N 82°45'52.4" W	141.14									
PC	838597.768	1667866.559											
CURVE			N 70°20'37.5" W	844.01	24°50'29.8"(RT)	02°55'13.0"	850.66	432.12	1962.00				
PT	838881.674	1667071.728											
LINE			N 57°55'22.6" W	745.36									
PC	839277.503	1666440.162											
CURVE			N 54°58'41.8" W	467.48	05°53'21.6"(RT)	01°15'33.3"	467.69	234.05	4550.00				
PT	839545.783	1666057.326											
LINE			N 52°02'01.0" W	897.90									
PC	840098.172	1665349.446											
CURVE			N 56°22'16.9" W	567.27	08°40'31.8"(LT)	01°31'40.4"	567.81	284.45	3750.00				
PT	840412.329	1664877.113											
LINE			N 60°42'32.9" W	1112.28									
PC	840956.507	1663907.038											
CURVE			N 71°43'20.7" W	735.49	22°01'35.7"(LT)	02°58'35.1"	740.04	374.65	1925.00				
PT	841187.172	1663208.654											
LINE			N 82°44'08.5" W	830.96									
TS	841292.245	1662384.361											
SPIRAL			N 81°41'08.9" W	209.97						03°08'59.2"(RT)	210.00	140.02	70.02
SC	841322.607	1662176.596											
CURVE			N 65°33'37.0" W	925.80	28°03'04.7"(RT)	02°59'59.2"	935.11	477.12	1910.00				
CS	841705.644	1661333.749											
SPIRAL			N 49°26'05.1" W	209.97						03°08'59.2"(RT)	210.00	140.02	70.02
ST	841842.191	1661174.241											
LINE			N 48°23'05.5" W	899.45									
PC	842439.535	1660501.794											
CURVE			N 48°12'04.7" W	96.11	00°22'01.7"(RT)	00°22'55.1"	96.11	48.06	15000.00				
PT	842503.597	1660430.142											
LINE			N 48°01'03.8" W	192.28									
PC	842632.214	1660287.210											
CURVE			N 48°15'06.5" W	122.56	00°28'05.3"(LT)	00°22'55.1"	122.56	61.28	15000.00				
PT	842713.820	1660195.772											
LINE			N 48°29'09.1" W	1035.06									
PC	843399.864	1659420.725											
CURVE			N 55°52'20.6" W	226.27	14°46'22.9"(LT)	06°30'39.2"	226.90	114.08	880.00				
PT	843526.810	1659233.421											
LINE			N 63°15'32.0" W	293.49									
POT	843658.867	1658971.323											

EY1A POINT	N	E	BEARING	DIST
POT	838617.115	1667744.885		
LINE			N 07°04'01.2" E	344.69
POT	838959.187	1667787.293		

EY1B POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	839059.021	1666788.762							
LINE			N 30°23'32.4" E	302.84					
PC	839320.247	1666941.976							
CURVE			N 27°55'55.3" E	145.95	04°55'14.2"(LT)	03°22'13.2"	146.00	73.04	1700.00
PT	839449.197	1667010.344							

EY1C POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	839871.095	1665640.443							
LINE			N 37°57'59.0" E	6.62					
PC	839876.315	1665644.517							
CURVE			N 27°37'54.8" E	125.58	20°40'08.3"(LT)	16°22'12.8"	126.26	63.82	350.00
PT	839987.569	1665702.758							
LINE			N 17°17'50.7" E	188.63					
POT	840167.668	1665758.843							

EY2 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	840218.125	1665186.881							
LINE			N 12°22'13.1" E	29.38					
PC	840246.819	1665193.174							
CURVE			N 15°28'39.3" E	65.05	06°12'52.6"(RT)	09°32'57.5"	65.08	32.57	600.00
PT	840309.508	1665210.533							
LINE			N 18°35'05.6" E	54.81					
PC	840361.463	1665228.003							
CURVE			N 16°12'48.3" E	49.65	04°44'34.6"(LT)	09°32'57.5"	49.67	24.85	600.00
PT	840409.142	1665241.867							
LINE			N 13°50'31.0" E	65.50					
POT	840472.735	1665257.536							

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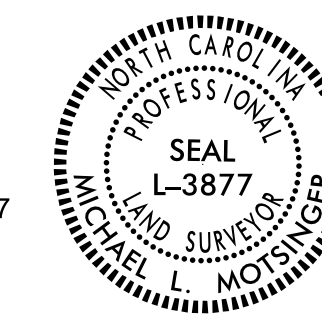
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This 1st day of June, 2022.

DocuSigned by:

 F0B0F07E023C40E
 Professional Land Surveyor L-3877



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REVISIONS

08-JUN-2022 08:32 S:\Units\Div08\Winston\Clifts Computer\U-ben\U2579aa\Right of Way\Julie\All control sheet revisions\tobechecked\U2579AA_LS_rw2c-10.dgn AT LS-312635 mmotsinger

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U2579AA	SHEET NO. RW02C-11
Location and Surveys	
	
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EY3

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	840912.988	1663984.617							
LINE			N 31°18'40.1" E	86.80					
PC	840987.145	1664029.725							
CURVE			N 23°35'24.1" E	110.17	15°26'32.0(LT)	13°58'28.5"	110.50	55.59	410.00
PT	841088.107	1664073.813							
LINE			N 15°52'08.2" E	11.11					
POT	841098.798	1664076.852							

EY4

POINT	N	E	BEARING	DIST
POT	841102.263	1663578.690		
LINE			N 17°26'03.1" E	265.76
POT	841355.816	1663658.315		

EY5

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	840718.393	1663413.580							
LINE			N 29°46'11.8" W	9.43					
PC	840726.582	1663408.895							
CURVE			N 21°12'02.8" W	78.97	17°08'18.0(RT)	21°37'15.8"	79.27	39.93	265.00
PT	840800.209	1663380.336							
LINE			N 12°37'53.9" W	135.78					
PC	840932.705	1663350.643							
CURVE			N 08°50'48.0" W	79.21	07°34'11.7(RT)	09°32'57.5"	79.27	39.69	600.00
PT	841010.977	1663338.461							
LINE			N 05°03'42.2" W	28.44					
PC	841039.306	1663335.951							
CURVE			N 03°22'49.2" W	58.68	03°21'45.9(RT)	05°43'46.5"	58.69	29.35	1000.00
PT	841097.887	1663332.491							
LINE			N 01°41'56.2" W	69.81					
POT	841167.669	1663330.421							

EY6

POINT	N	E	BEARING	DIST
POT	841258.485	1662649.209		
LINE			N 06°52'34.5" E	225.93
POT	841482.786	1662676.258		

EY7

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	841902.354	1662409.705							
LINE			N 82°47'14.6" W	65.71					
PC	841910.604	1662344.514							
CURVE			N 87°32'46.9" W	199.11	09°31'04.4(LT)	04°46'28.7"	199.34	99.90	1200.00
PT	841919.128	1662145.584							
LINE			S 87°41'40.9" W	208.70					
POT	841910.733	1661937.056							

EY8

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	842732.358	1661854.825							
LINE			S 19°50'41.4" E	63.04					
PC	842673.062	1661876.225							
CURVE			S 11°00'37.5" E	207.33	17°40'07.7(RT)	08°29'17.7"	208.16	104.91	675.00
PT	842469.546	1661915.823							
LINE			S 02°10'33.6" E	598.18					
PC	841871.799	1661938.536							
CURVE			S 07°22'55.6" E	199.63	10°24'44.1(LT)	05°12'31.3"	199.90	100.23	1100.00
PT	841673.828	1661964.185							
LINE			S 12°35'17.7" E	77.21					
POT	841598.472	1661981.012							

EY9

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	842269.522	1662252.754							
CURVE			N 89°37'04.1" W	92.24	04°41'57.2(LT)	05°05'34.6"	92.27	46.16	1125.00
PT	842270.138	1662160.513							
LINE			S 88°01'57.3" W	236.94					
POT	842262.003	1661923.709							

EY10

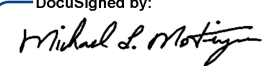
POINT	N	E	BEARING	DIST
POT	843567.701	1659152.264		
LINE			N 42°28'07.0" E	553.74
POT	843976.168	1659526.144		

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DocuSigned by:

 FDB8FF70E22C40E
 Professional Land Surveyor L-3877




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REVISIONS
 08-JUN-2022 08:41
 S:\Units\jlv08\Winston\Clifus Computer\U-ben\U2579aa\Right of Way\Julie\All control sheet revisions\tochecked\U2579AA_LL_rw2c-11.dgn
 AT LS-312635
 mmotsinger

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U2579AA	SHEET NO. RW02C-13
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EY13									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	840371.716	1661771.526							
LINE			S 85°24'07.6" W	335.94					
PC	840344.787	1661436.669							
CURVE			S 84°11'49.0" W	168.26	02°24'37.3(LT)	01°25'56.6"	168.27	84.15	4000.00
PCC	840327.774	1661269.268							
CURVE			S 76°55'44.2" W	295.73	12°07'32.3(LT)	04°05'33.2"	296.29	148.70	1400.00
PT	840260.891	1660981.198							
LINE			S 70°51'58.0" W	220.29					
PC	840188.684	1660773.073							
CURVE			S 81°47'09.0" W	340.98	21°50'22.1(RT)	06°21'58.3"	343.05	173.63	900.00
PT	840139.967	1660435.591							
LINE			N 87°17'39.9" W	229.93					
PC	840150.820	1660205.922							
CURVE			N 86°08'51.0" W	40.03	02°17'37.9(RT)	05°43'46.5"	40.04	20.02	1000.00
PT	840153.510	1660165.980							
LINE			N 85°00'02.0" W	155.53					
PC	840167.064	1660011.037							
CURVE			N 85°17'41.1" W	30.81	00°35'18.1(LT)	01°54'35.5"	30.81	15.40	3000.00
PT	840169.591	1659980.334							
LINE			N 85°35'20.1" W	309.67					
PC	840193.408	1659671.586							
CURVE			N 85°06'52.3" W	16.56	00°56'55.8(RT)	05°43'46.5"	16.56	8.28	1000.00
PT	840194.818	1659655.086							
LINE			N 84°38'24.4" W	139.64					
PC	840207.862	1659516.054							
CURVE			N 86°00'53.7" W	47.99	02°44'58.6(LT)	05°43'46.5"	47.99	24.00	1000.00
PT	840211.197	1659468.185							
LINE			N 87°23'23.0" W	57.75					
PC	840213.827	1659410.491							
CURVE			N 86°30'16.4" W	30.90	01°46'13.2(RT)	05°43'46.5"	30.90	15.45	1000.00
PT	840215.711	1659379.652							
LINE			N 85°37'09.8" W	74.87					
PC	840221.430	1659304.999							
CURVE			N 87°39'01.6" W	70.88	04°03'43.4(LT)	05°43'46.5"	70.90	35.46	1000.00
PT	840224.336	1659234.177							
LINE			N 89°40'53.3" W	32.55					
POT	840224.517	1659201.629							

EY13A									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	840273.626	1661785.233							
LINE			N 07°54'17.7" W	85.87					
PC	840358.680	1661773.424							
CURVE			N 09°17'49.0" W	48.59	02°47'02.6(LT)	05°43'46.5"	48.59	24.30	1000.00
PT	840406.629	1661765.574							
LINE			N 10°41'20.3" W	77.82					
POT	840483.102	1661751.140							

EY13B				
POINT	N	E	BEARING	DIST
POT	840108.426	1660936.729		
LINE			N 17°21'33.3" W	129.53
POT	840232.055	1660898.082		

EY13C									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	840002.279	1660565.511							
LINE			N 03°51'56.0" E	284.39					
PC	840286.026	1660584.684							
CURVE			N 14°47'48.6" E	113.78	21°51'45.1(RT)	19°05'54.9"	114.47	57.94	300.00
PT	840396.032	1660613.742							
LINE			N 25°43'41.1" E	6.76					
POT	840402.125	1660616.678							

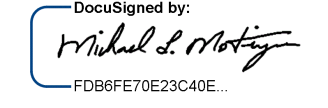
EY13D									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	840159.471	1660097.838							
LINE			N 03°47'42.7" E	209.03					
PC	840368.039	1660111.673							
CURVE			N 02°40'41.0" W	56.37	12°56'47.5(LT)	22°55'05.9"	56.49	28.37	250.00
PT	840424.347	1660109.040							
LINE			N 09°09'04.8" W	9.66					
POT	840433.888	1660107.503							

I, Michael L. Motsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: static
 Dates of survey: June 2008
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: U2579C-1
 Northing: 876,419.285
 Easting: 1,651,591.602
 Combined grid factor: 0.99995543
 Geoid model: Geoid 03
 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 January 2008 to June 2008, and all coordinates are based on NAD 83/95 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of June, 2022.

DocuSigned by:

 F0B9FE70E23C40E
 Professional Land Surveyor L-3877



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

08-JUN-2022 09:19 S:\Units\08\Winston\Clifus Computer\Urbon\U2579aa\Right of Way\Julie\All control sheet revisions\tochecked\U2579AA_LS_rw2c-13.dgn At LS-312635 mmotsinger

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U2579AA	SHEET NO. RW02C-14
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EY13E									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	840056.932	1659605.427							
LINE			N 03°53'28.5" E	237.25					
PC	840293.639	1659621.528							
CURVE			N 09°27'41.5" E	116.48	11°08'26.1"(RT)	09°32'57.5"	116.66	58.52	600.00
PT	840408.534	1659640.675							
LINE			N 15°01'54.5" E	26.30					
POT	840433.939	1659647.498							

EY14									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	839181.379	1653919.262							
LINE			N 56°14'23.5" E	281.49					
PC	839337.810	1654153.288							
CURVE			N 49°27'21.2" E	283.50	13°34'04.6"(LT)	04°46'28.7"	284.17	142.75	1200.00
PT	839522.096	1654368.723							
LINE			N 42°40'18.9" E	89.26					
PC	839587.726	1654429.226							
CURVE			N 43°43'55.7" E	92.52	02°07'13.5"(RT)	02°17'30.6"	92.52	46.27	2500.00
PT	839654.577	1654493.181							
LINE			N 44°47'32.5" E	2365.81					
PC	841333.509	1656159.988							
CURVE			N 46°06'30.1" E	528.23	02°37'55.3"(RT)	00°29'53.6"	528.28	264.19	11500.00
PT	841699.732	1656540.661							
LINE			N 47°25'27.7" E	323.30					
PC	841918.463	1656778.732							
CURVE			N 47°11'17.1" E	49.49	00°28'21.4"(LT)	00°57'17.7"	49.49	24.75	6000.00
PT	841952.097	1656815.038							
LINE			N 46°57'06.4" E	482.95					
PC	842281.766	1657167.969							
CURVE			N 31°48'17.0" E	334.46	30°17'38.8"(LT)	08°57'08.9"	338.39	173.25	640.00
PT	842566.007	1657344.238							
LINE			N 16°39'27.6" E	1216.83					
POT	843731.768	1657693.045							

EY15									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	841001.036	1654135.542							
LINE			N 26°47'16.7" W	245.36					
PC	841220.060	1654024.963							
CURVE			N 22°17'47.1" W	313.25	08°58'59.2"(RT)	02°51'53.2"	313.57	157.11	2000.00
PT	841509.888	1653906.117							
LINE			N 17°48'17.6" W	788.64					
POT	842260.753	1653664.970							

EY15B				
POINT	N	E	BEARING	DIST
POT	840121.471	1654632.803		
LINE			S 45°01'36.7" E	229.86
POT	839959.010	1654795.416		

EY16									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	840812.445	1657971.258							
LINE			N 88°48'27.4" W	810.82					
PC	840829.318	1657160.616							
CURVE			S 85°14'09.3" W	381.88	11°54'46.6"(LT)	03°06'50.0"	382.57	191.98	1840.00
PT	840797.601	1656780.051							
LINE			S 79°16'46.0" W	873.48					
PC	840635.118	1655921.821							
CURVE			S 72°17'55.3" W	232.13	13°57'41.5"(LT)	05°59'58.4"	232.71	116.93	955.00
PT	840564.536	1655700.677							
LINE			S 65°19'04.5" W	167.74					
PC	840494.493	1655548.266							
CURVE			N 82°52'45.2" W	137.02	63°36'20.7"(RT)	44°04'25.2"	144.32	80.61	130.00
PT	840511.478	1655412.303							
LINE			N 51°04'34.8" W	48.80					
POT	840542.140	1655374.335							

I, Michael L. Molsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: static
 Dates of survey: June 2008
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: U2579C-1
 Northing: 876,419.285
 Easting: 1,651,591.602
 Combined grid factor: 0.99995543
 Geoid model: Geoid 03
 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 January 2008 to June 2008, and all coordinates are based on NAD 83/95 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of June, 2022.

DocuSigned by:

 FDB8FE70E23C40E
 Professional Land Surveyor L-3877



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

08-JUN-2022 09:40 S:\Units\Div05\Winston\Clifus Computer\Urbon\U2579aa\Right of Way\Julie\All control sheet revisions\to be checked\U2579AA_LL_rw2c-14.dgn Michael L. Molsinger AT LS-312635

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U2579AA	SHEET NO. RW02C-15
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EY16B

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	840485.690	1656309.661							
CURVE			N 03°19'07.5" W	220.81	13°06'41.7"(LT)	05°55'30.4"	221.29	111.13	967.00
PT	840706.125	1656296.879							

EY17

POINT	N	E	BEARING	DIST
POT	843664.513	1657529.990		
LINE			S 85°14'57.6" E	139.94
POT	843652.923	1657669.453		

EY18

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	841078.989	1654764.299							
LINE			N 89°54'32.7" W	210.74					
PC	841079.323	1654553.562							
CURVE			S 69°58'48.3" W	137.53	40°13'18.1"(LT)	28°38'52.4"	140.40	73.23	200.00
PT	841032.238	1654424.338							
LINE			S 49°52'09.2" W	47.66					
POT	841001.521	1654387.900							

EY19

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	842073.305	1653725.171							
LINE			N 70°57'31.9" E	135.57					
PC	842117.533	1653853.321							
CURVE			S 80°15'13.1" E	130.02	57°34'30.1"(RT)	42°26'28.7"	135.66	74.18	135.00
PT	842095.522	1653981.466							
LINE			S 51°27'58.0" E	463.85					
PC	841806.552	1654344.311							
CURVE			S 62°21'18.7" E	188.91	21°46'41.5"(LT)	11°27'33.0"	190.05	96.19	500.00
PT	841718.901	1654511.654							
LINE			S 73°14'39.5" E	215.42					
PC	841656.796	1654717.932							
CURVE			N 86°49'10.4" E	136.39	39°52'20.1"(LT)	28°38'52.4"	139.18	72.54	200.00
PT	841664.363	1654854.111							
LINE			N 66°53'00.4" E	31.26					
POT	841676.634	1654882.858							

EY20

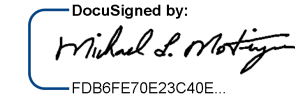
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	841202.751	1659115.098							
LINE			N 01°03'48.8" E	96.87					
PC	841299.605	1659116.896							
CURVE			N 00°36'59.2" W	272.07	03°21'36.0"(LT)	01°14'05.4"	272.10	136.09	4640.00
PCC	841571.655	1659113.969							
CURVE			N 04°59'42.2" W	35.31	05°23'50.0"(LT)	15°16'43.9"	35.32	17.68	375.00
PT	841606.833	1659110.895							

I, Michael L. Molsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: static
 Dates of survey: June 2008
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 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: U2579C-1
 Northing: 876,419,285
 Easting: 1,651,591,602
 Combined grid factor: 0.99995543
 Geoid model: Geoid 03
 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 January 2008 to June 2008, and all coordinates are based on NAD 83/95 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of June, 2022.

DocuSigned by:

 F0B9FE70E23C40E
 Professional Land Surveyor L-3877




NOTES:

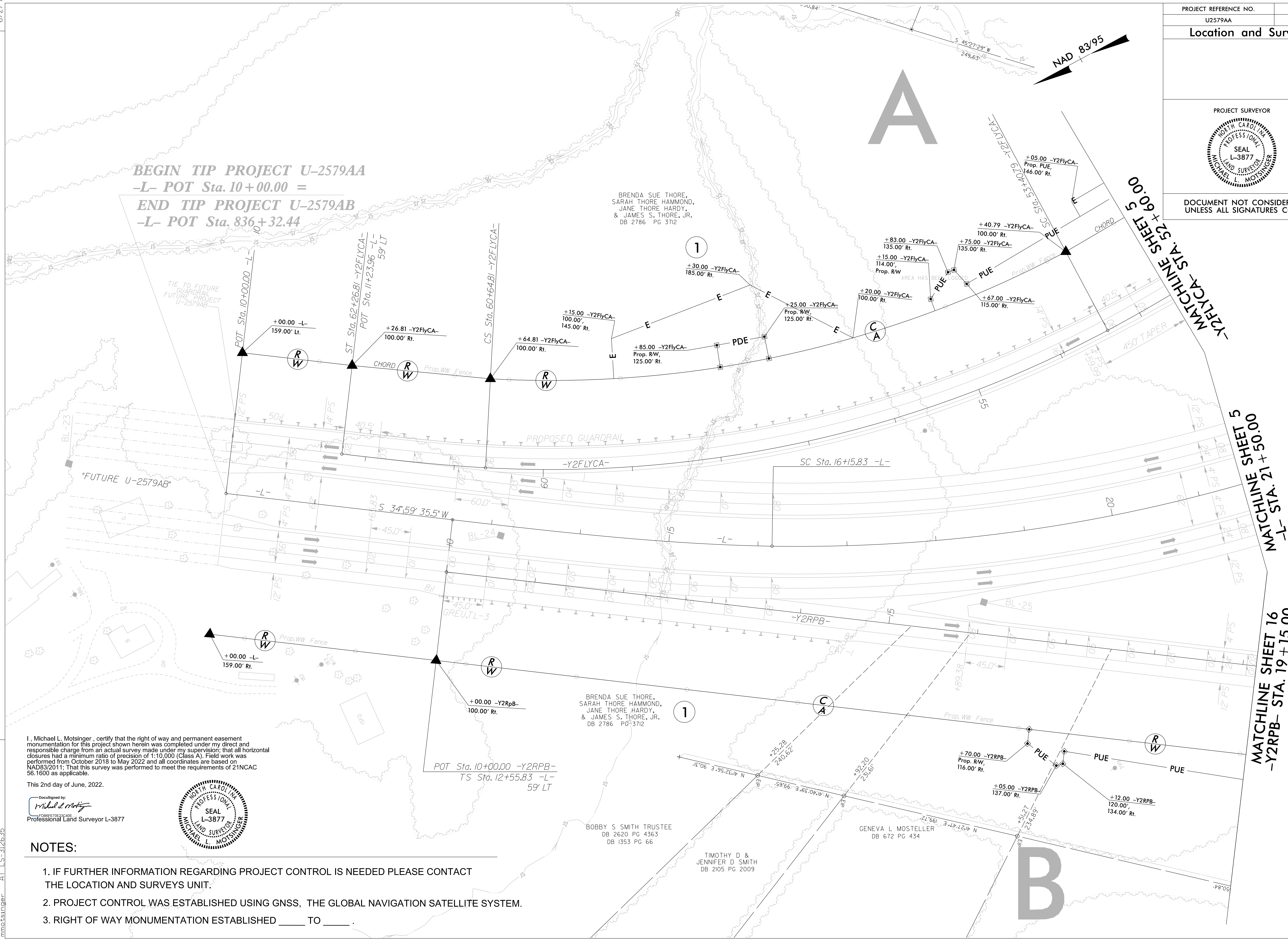
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

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 AT LS-312635
 mmolsinger

PROJECT REFERENCE NO.	SHEET NO.
U2579AA	RW04
Location and Surveys	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BEGIN TIP PROJECT U-2579AA
-L- POT Sta. 10+00.00 =
END TIP PROJECT U-2579AB
-L- POT Sta. 836+32.44



I, Michael L. Motsinger, 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 October 2018 to May 2022 and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 2nd day of June, 2022.
 Michael L. Motsinger
 Professional Land Surveyor L-3877



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 _____ TO _____.

BRENDA SUE THORE,
 SARAH THORE HAMMOND,
 JANE THORE HARDY,
 & JAMES S. THORE, JR.
 DB 2786 PG 3712

BRENDA SUE THORE,
 SARAH THORE HAMMOND,
 JANE THORE HARDY,
 & JAMES S. THORE, JR.
 DB 2786 PG 3712

BOBBY S SMITH TRUSTEE
 DB 2620 PG 4363
 DB 1353 PG 66

TIMOTHY D &
 JENNIFER D SMITH
 DB 2105 PG 2009

GENEVA L MOSTELLER
 DB 672 PG 434

REVISIONS


A

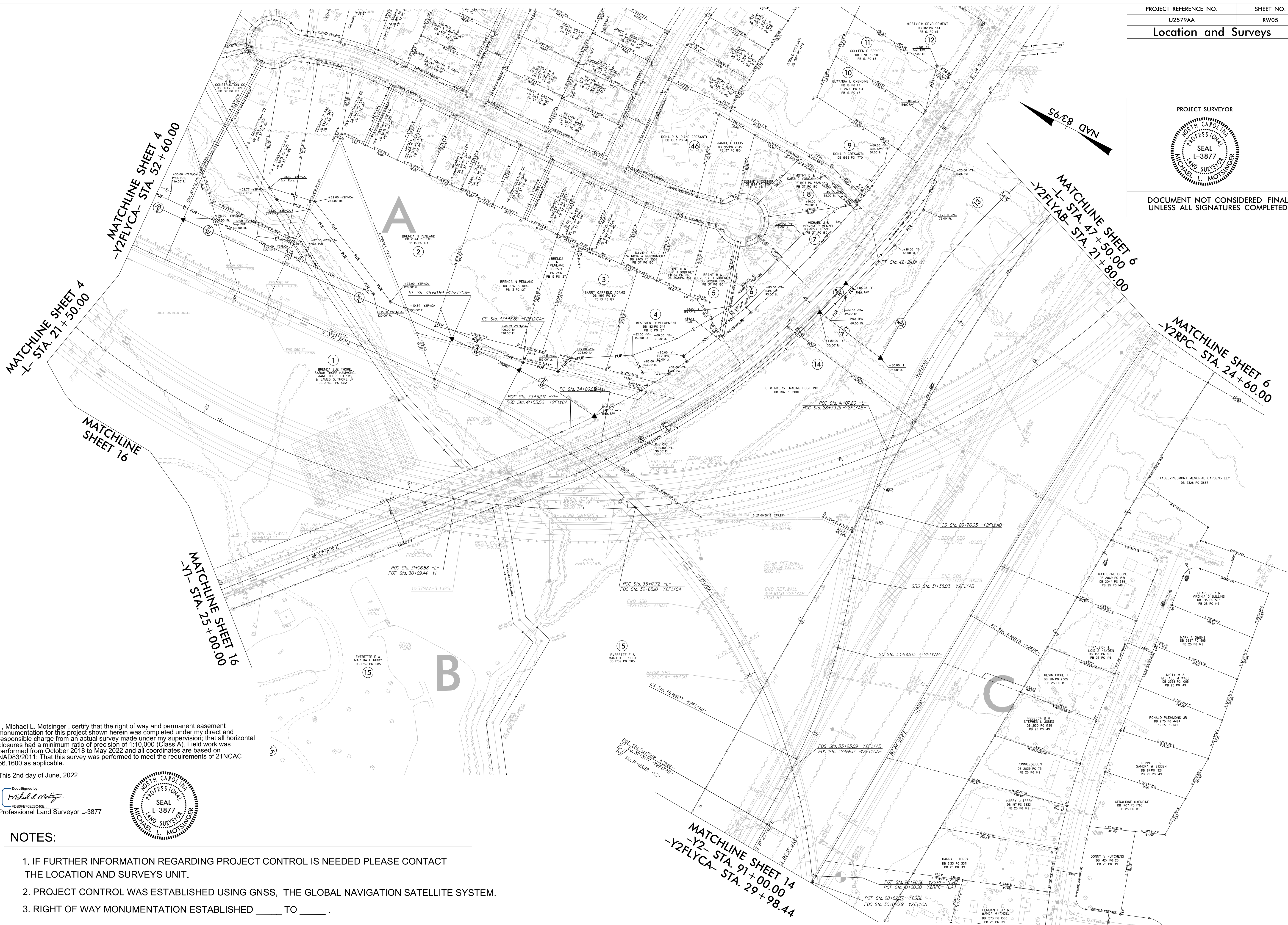
B

MATCHLINE SHEET 3
 -Y2FLYCA- STA. 52+60.00

MATCHLINE SHEET 5
 -L- STA. 21+50.00

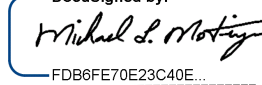
MATCHLINE SHEET 16
 -Y2RPB- STA. 19+15.00

PROJECT REFERENCE NO.	SHEET NO.
U2579AA	RW05
Location and Surveys	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I, Michael L. Molsinger, 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 October 2018 to May 2022 and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 2nd day of June, 2022.

Designed by:

 Professional Land Surveyor L-3877



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 ____ TO ____.

REVISIONS

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 m.molsinger AT LS-312635

Location and Surveys

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

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NOTES:

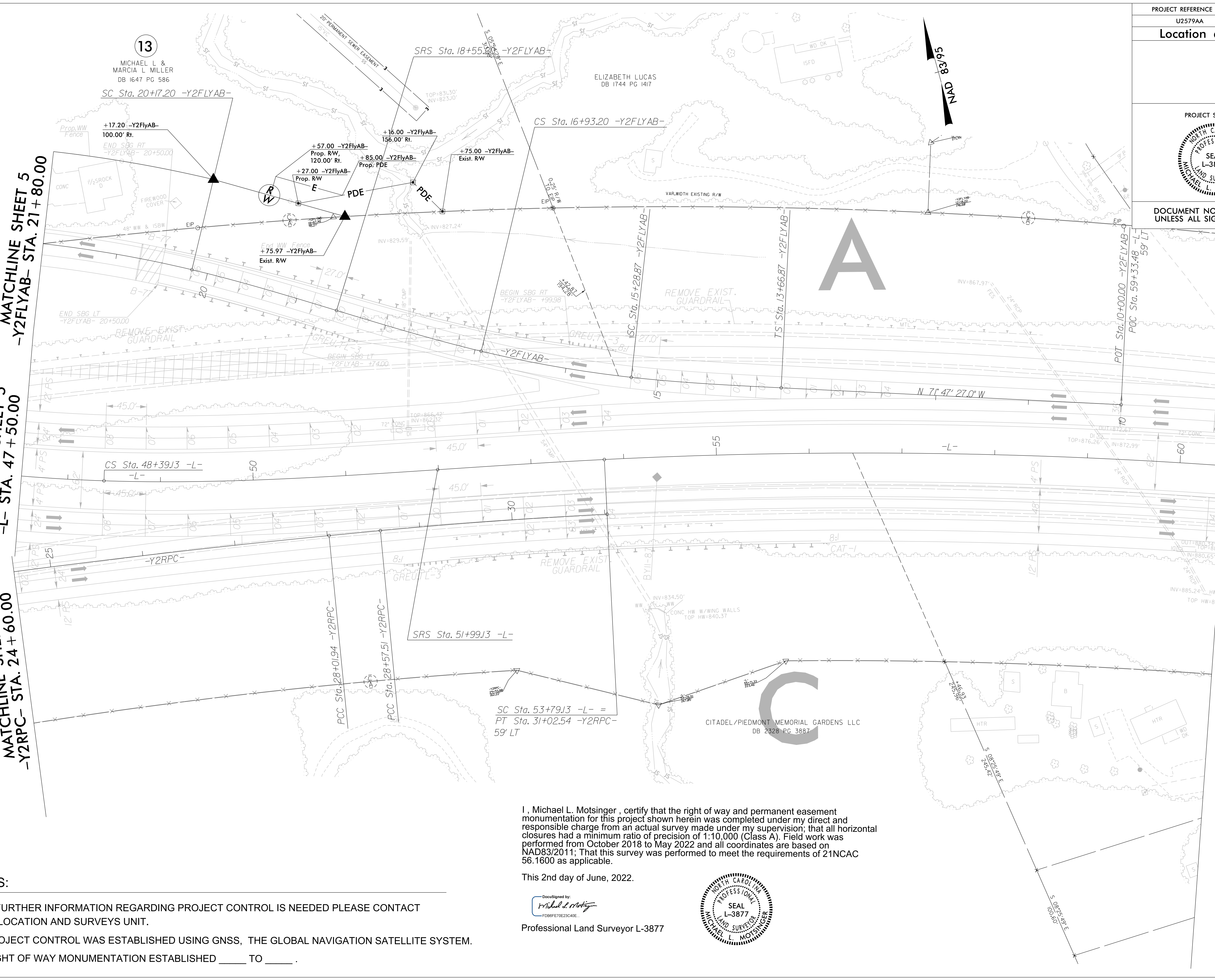
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ____ TO ____.

MATCHLINE SHEET 5
-L- STA. 47 + 50.00

MATCHLINE SHEET 5
-Y2RPC- STA. 24 + 60.00

MATCHLINE SHEET 5
-Y2FLYAB- STA. 21 + 80.00

MATCHLINE SHEET 7
-L- STA. 60 + 50.00



I, Michael L. Motsinger, 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 October 2018 to May 2022 and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 2nd day of June, 2022.

DocuSigned by:
Michael L. Motsinger
FDB8FE70E23040E
Professional Land Surveyor L-3877



Location and Surveys

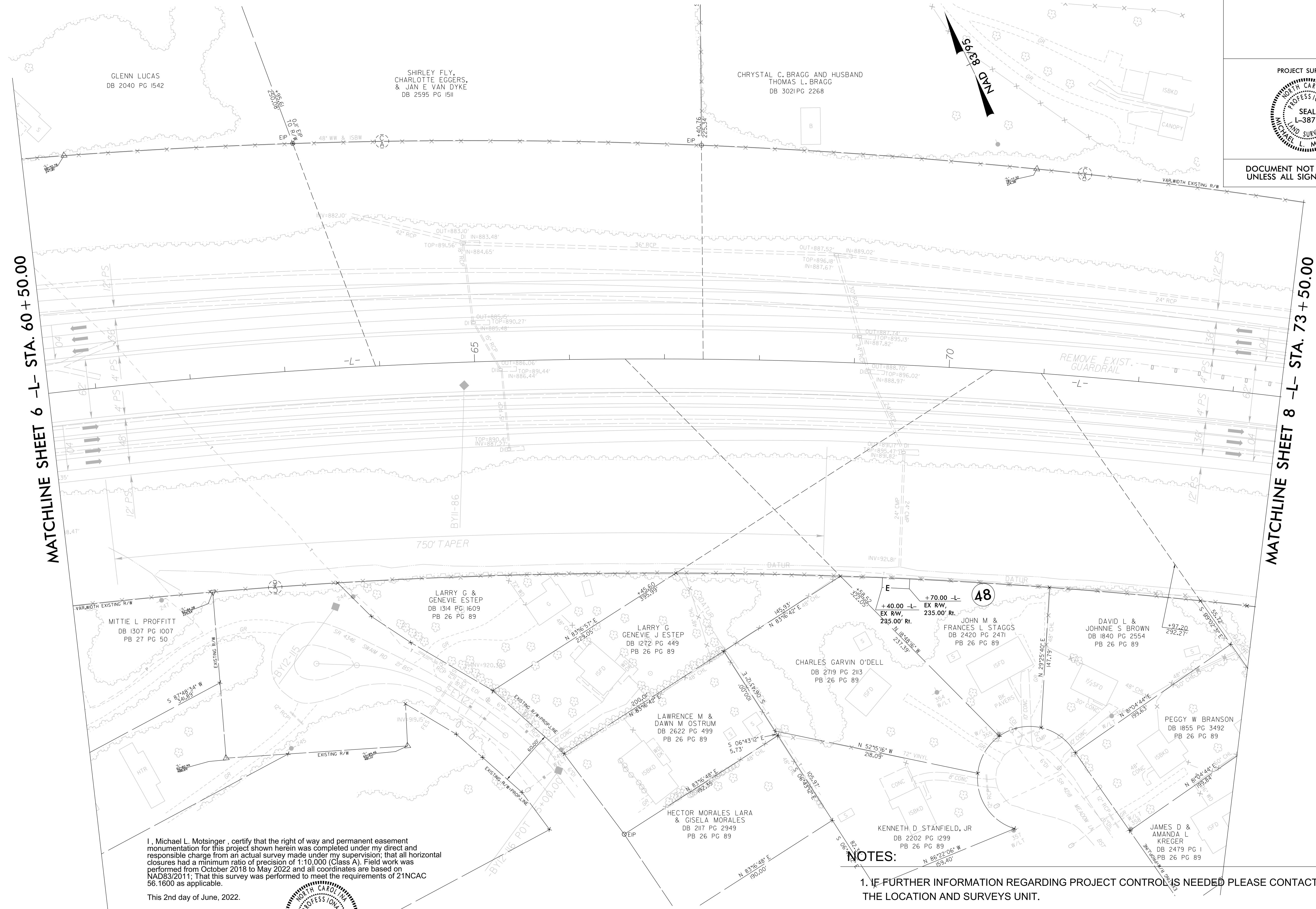
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

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 AT LS-312635
 m.motsinger



MATCHLINE SHEET 6 -L- STA. 60 + 50.00

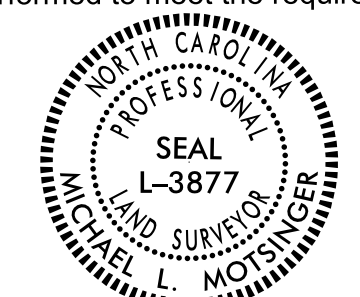
MATCHLINE SHEET 8 -L- STA. 73 + 50.00

I, Michael L. Motsinger, 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 October 2018 to May 2022 and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 2nd day of June, 2022.

Designed by

 Professional Land Surveyor L-3877



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 ____ TO ____.

Location and Surveys

PROJECT SURVEYOR



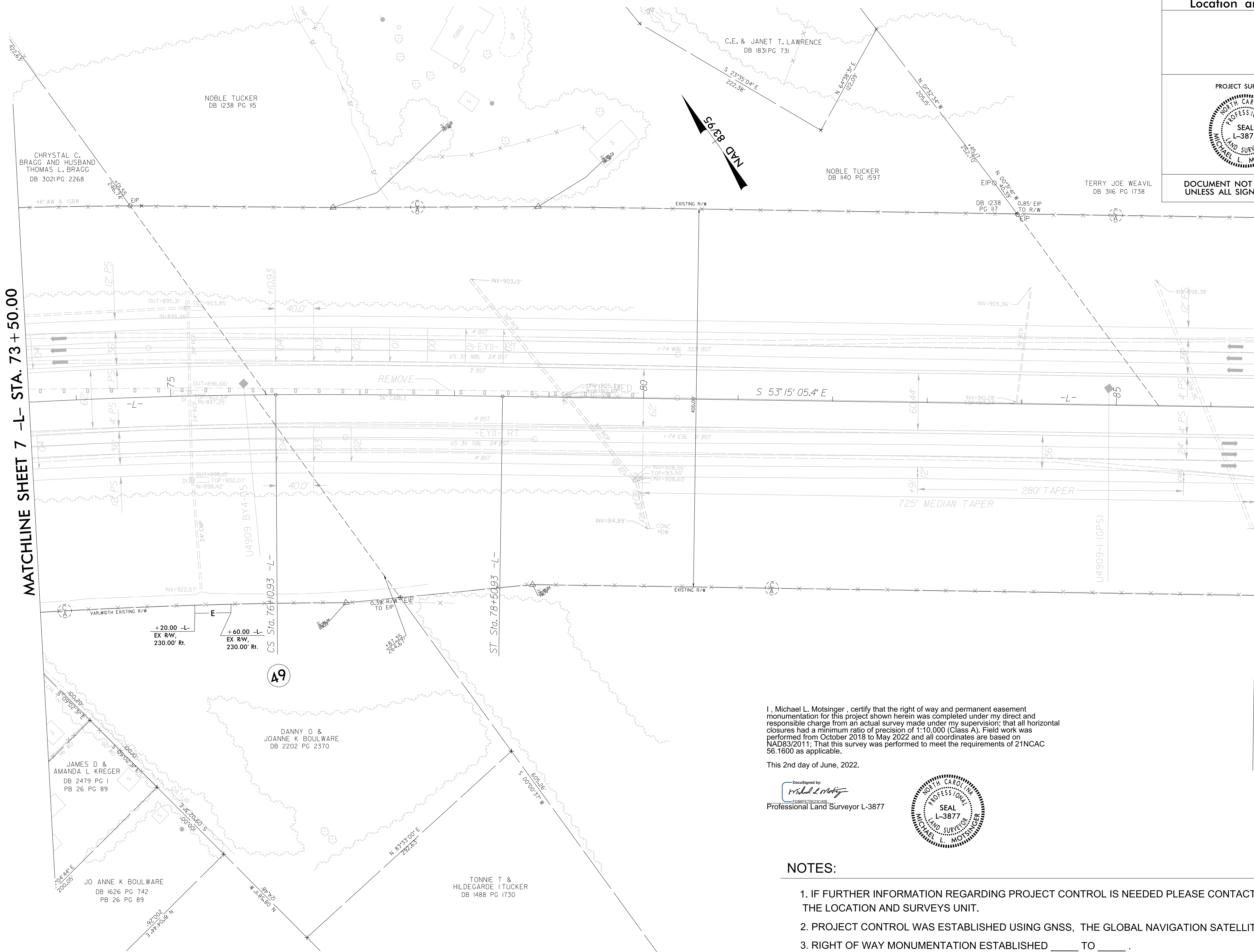
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REVISIONS

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MATCHLINE SHEET 7 -L- STA. 73 + 50.00

MATCHLINE SHEET 9 -L- STA. 86 + 50.00



I, Michael L. Motsinger, 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 October 2018 to May 2022 and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 2nd day of June, 2022.

Digitized by:

 Professional Land Surveyor L-3877



NOTES:

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

Location and Surveys

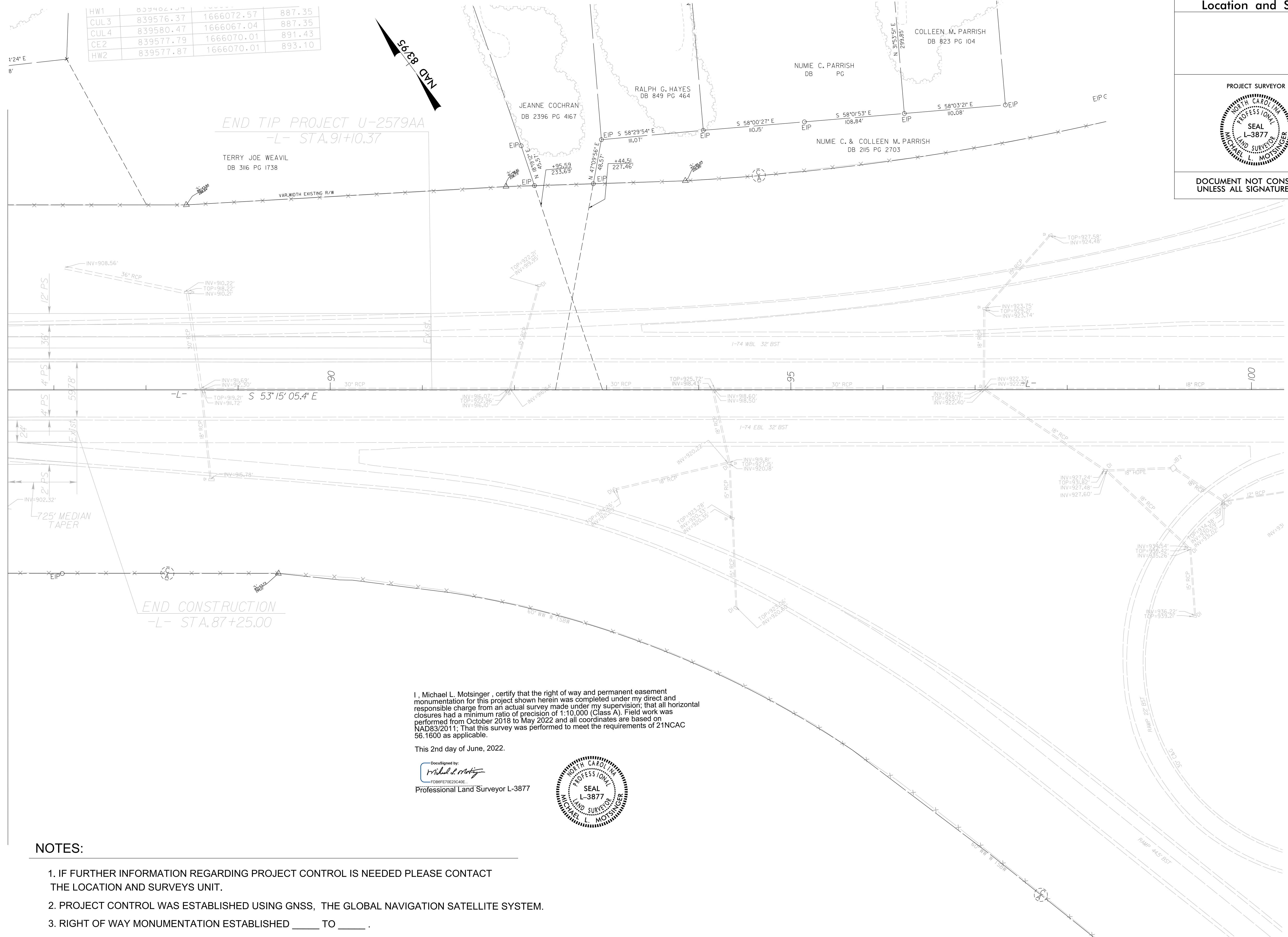
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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CUL4	839580.47	1666070.04	887.35
CE2	839577.79	1666070.01	891.43
HW2	839577.87	1666070.01	893.10

MATCHLINE SHEET 8 -L- STA. 86 + 50.00



REVISIONS

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motsinger

I, Michael L. Motsinger, 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 October 2018 to May 2022 and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 2nd day of June, 2022.

DocuSigned by:
Michael L. Motsinger
FDB8F7E23C40E
Professional Land Surveyor L-3877



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 _____ TO _____.

Location and Surveys

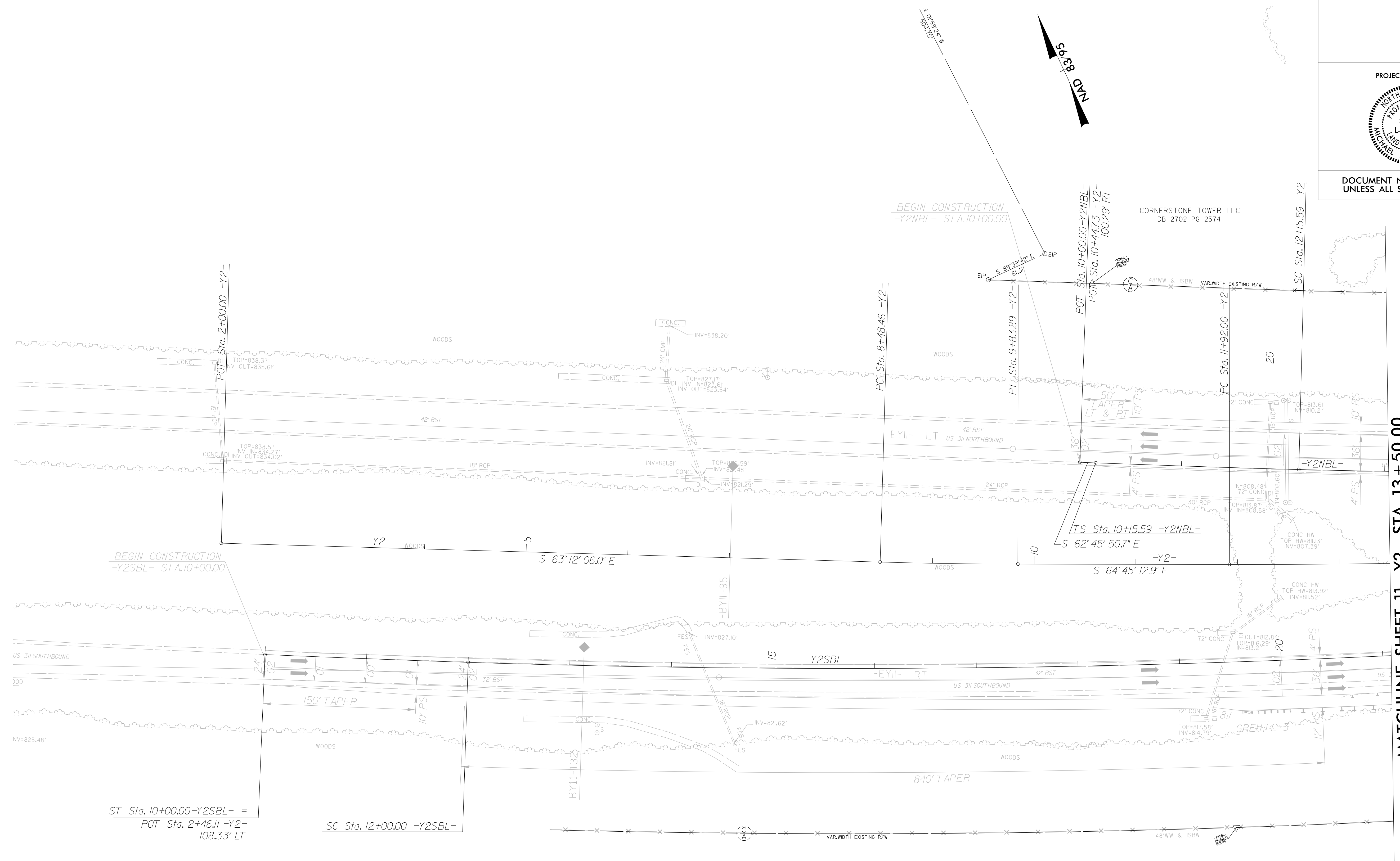
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

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MATCHLINE SHEET 11 -Y2- STA. 13 + 50.00

NOTES:

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

I, Michael L. Molsinger, 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 October 2018 to May 2022 and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 2nd day of June, 2022.

DocuSigned by:

 Professional Land Surveyor L-3877



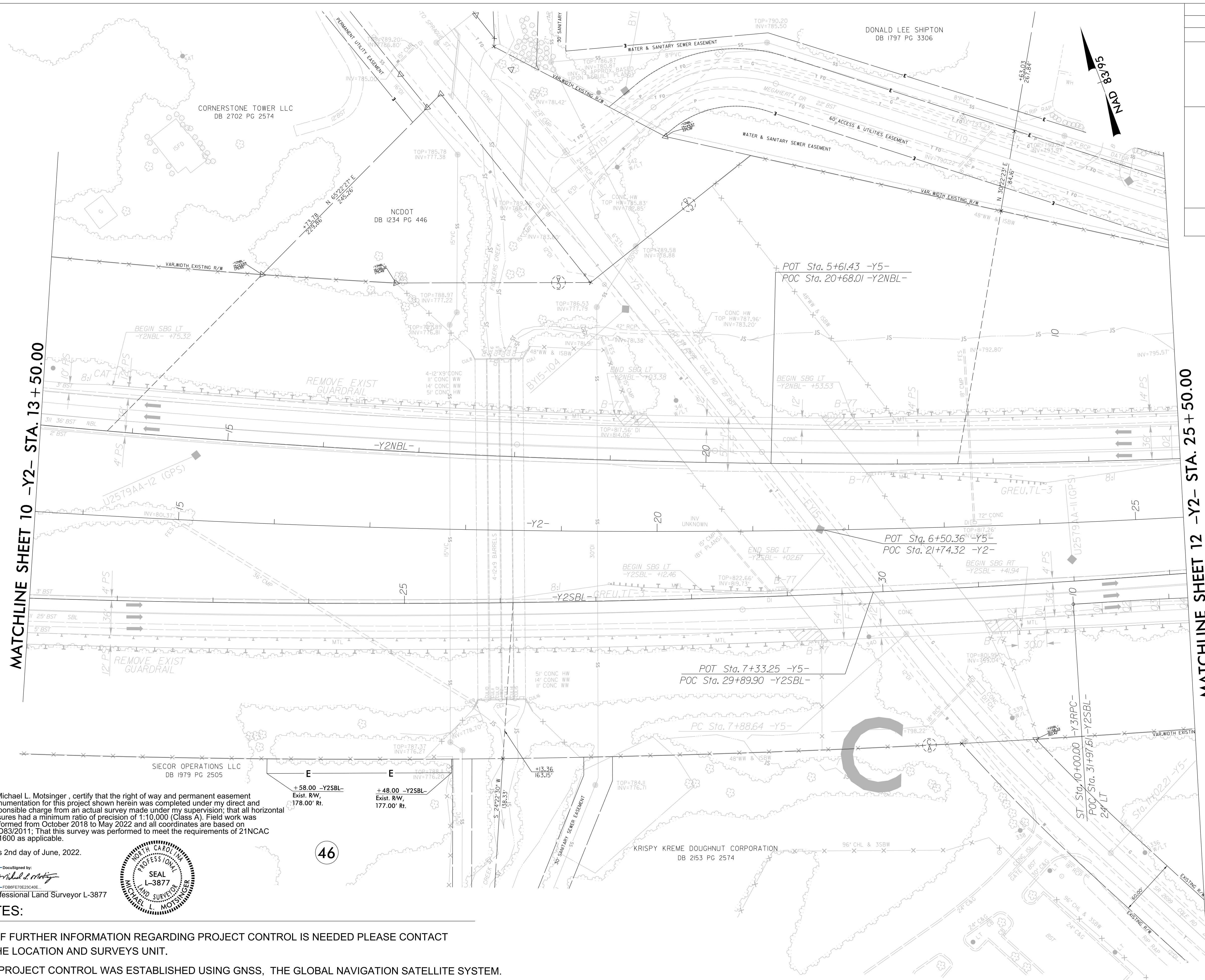
46

Location and Surveys

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



REVISIONS

I, Michael L. Molsinger, 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 October 2018 to May 2022 and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 2nd day of June, 2022.

DocuSigned by:

 F0B6F7E723C40E
 Professional Land Surveyor L-3877




46

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 ____ TO ____.

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Location and Surveys	
PROJECT SURVEYOR	
	
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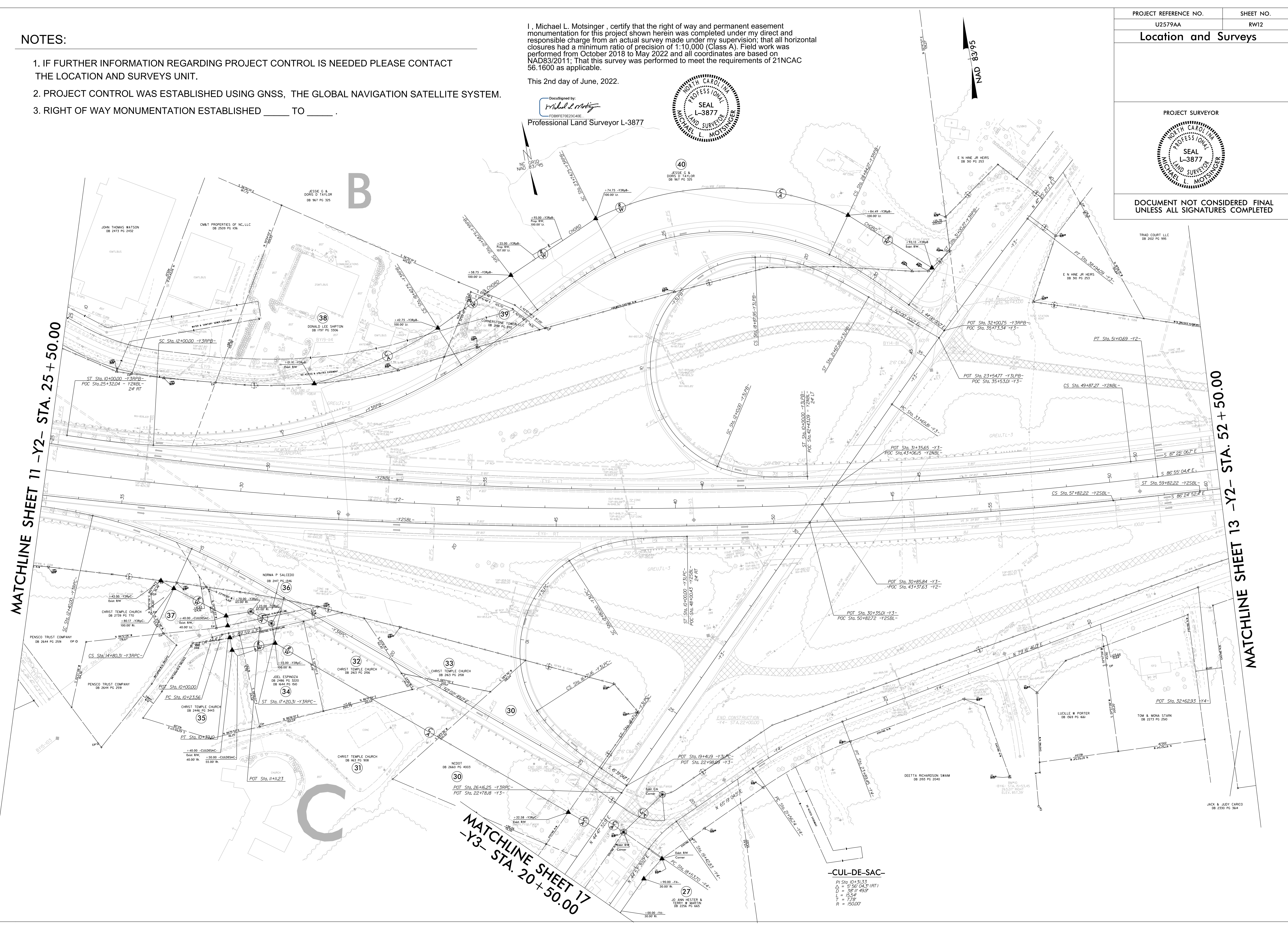
NOTES:

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 _____ TO _____.

I, Michael L. Mottsinger, 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 October 2018 to May 2022 and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 2nd day of June, 2022.


DocuSigned by:
Michael L. Mottsinger
Professional Land Surveyor L-3877



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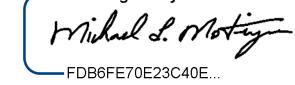
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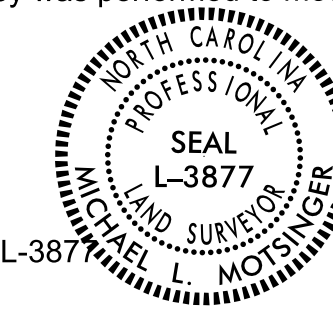
NOTES:

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This 2nd day of June, 2022.

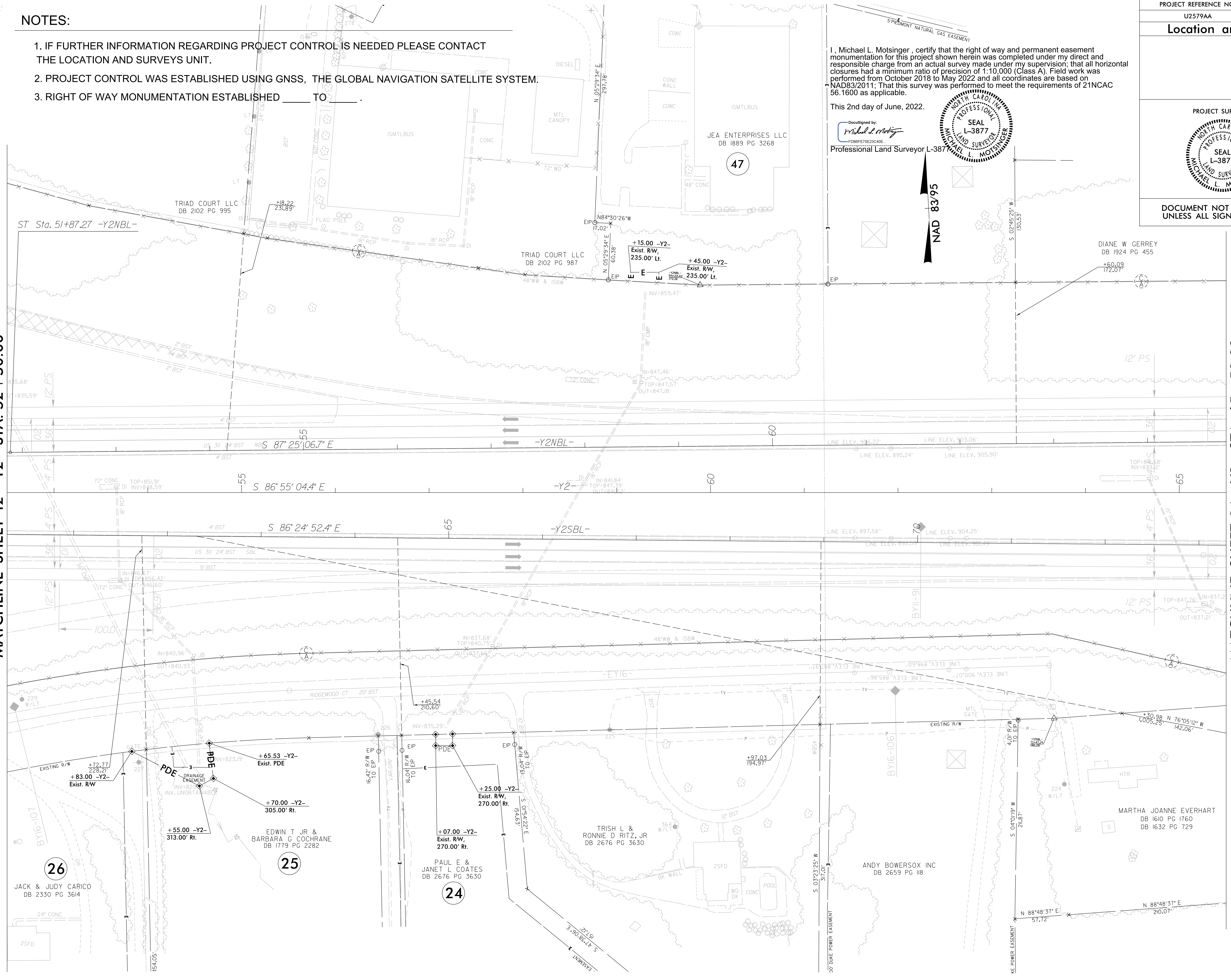
Designed by:

 Professional Land Surveyor L-3877



NAD 83/95

MATCHLINE SHEET 12 -Y2- STA. 52 + 50.00

MATCHLINE SHEET 14 -Y2- STA. 65 + 50.00



REVISIONS

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