

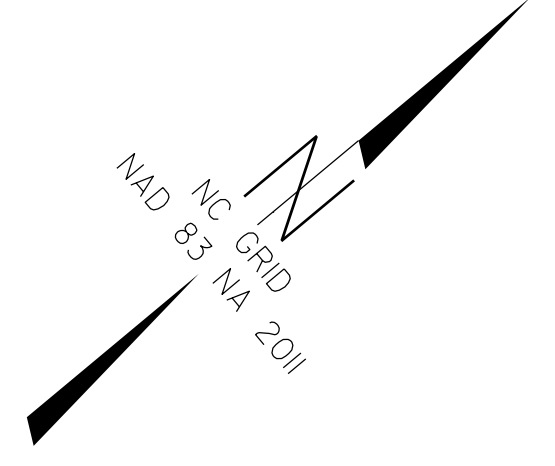
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2577A	RW01	44

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

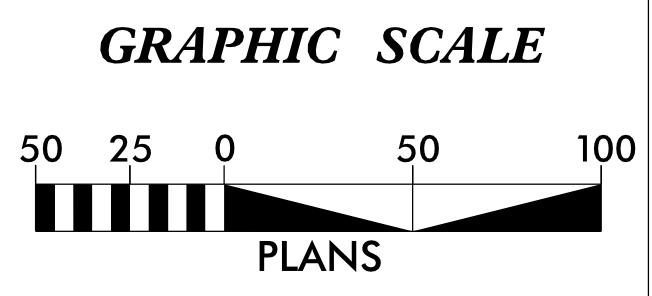
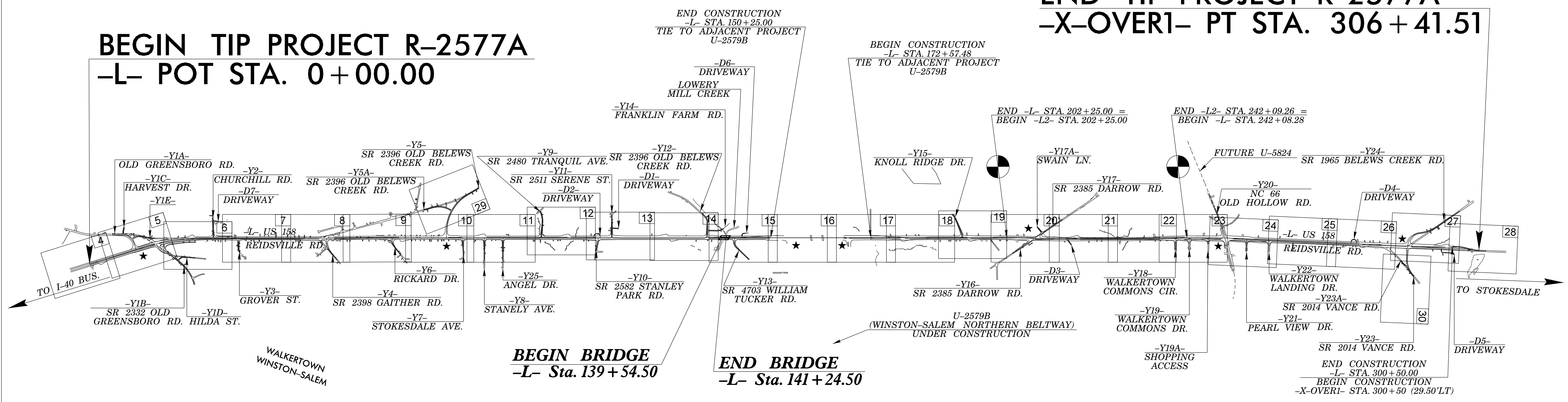
FORSYTH COUNTY

TIP PROJECT: R-2577A



BEGIN TIP PROJECT R-2577A
-L- POT STA. 0 + 00.00

END TIP PROJECT R-2577A
-X-OVER1- PT STA. 306 + 41.51



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "U5824-4" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 882,418.740(ft) EASTING: 1,660,181.131(ft) ELEVATION: 1,003.43(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99995790 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U5824-4" TO -L- STATION 0+00.00 IS S 28-31'54" W 23967.93(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

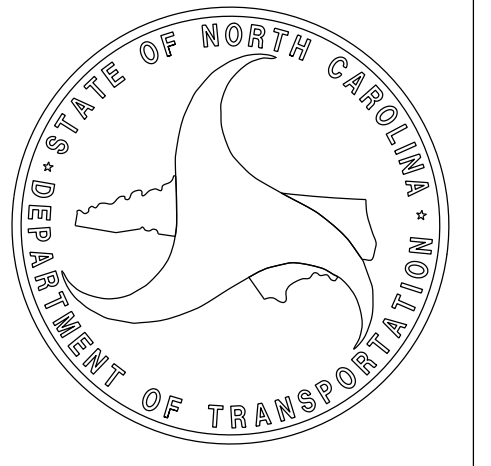
Prepared in the Office of:

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
XXXX/XXXX

LETTING DATE:
XXXX/XXXX

PROFESSIONAL LAND SURVEYOR



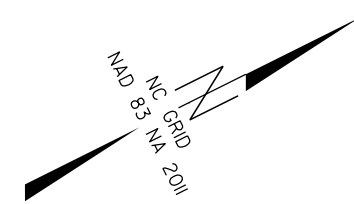
DocuSigned by:
Michael L. Moisinger
SIGNATURE

12/20/2023
Date:

20-DEC-2023 09:18 S:\Unit5\Div09\Winston\RuThs Computer\Rural\R2577A\Right of Way\Control\Sheets\231214\Files Pulled 2023-12-13\R-2577A_rdy_.tsh - Copy.dgn jbevington AT LS-328608L

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



PROJECT REFERENCE NO. R-2577A	SHEET NO. RW02C-1
Location and Surveys	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Michael L. Motsinger, PLS, certify that the Project Control was completed 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: 10/1/2017 - 11/20/2017
 Datum/Epoch: NAD 83 / NA 2011
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: U5824-4
 Northing: 882418.740
 Easting: 1660181.131
 Combined grid factor: 0.99995790
 Geoid model: G12NC
 Units: US Survey Feet

I also certify that the Baseline Control for this project was verified 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 10/1/2017 to 5/3/2018, 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 10 day of January, 2022.

DocuSigned by:

 Michael L. Motsinger
 Professional Land Surveyor L-3877




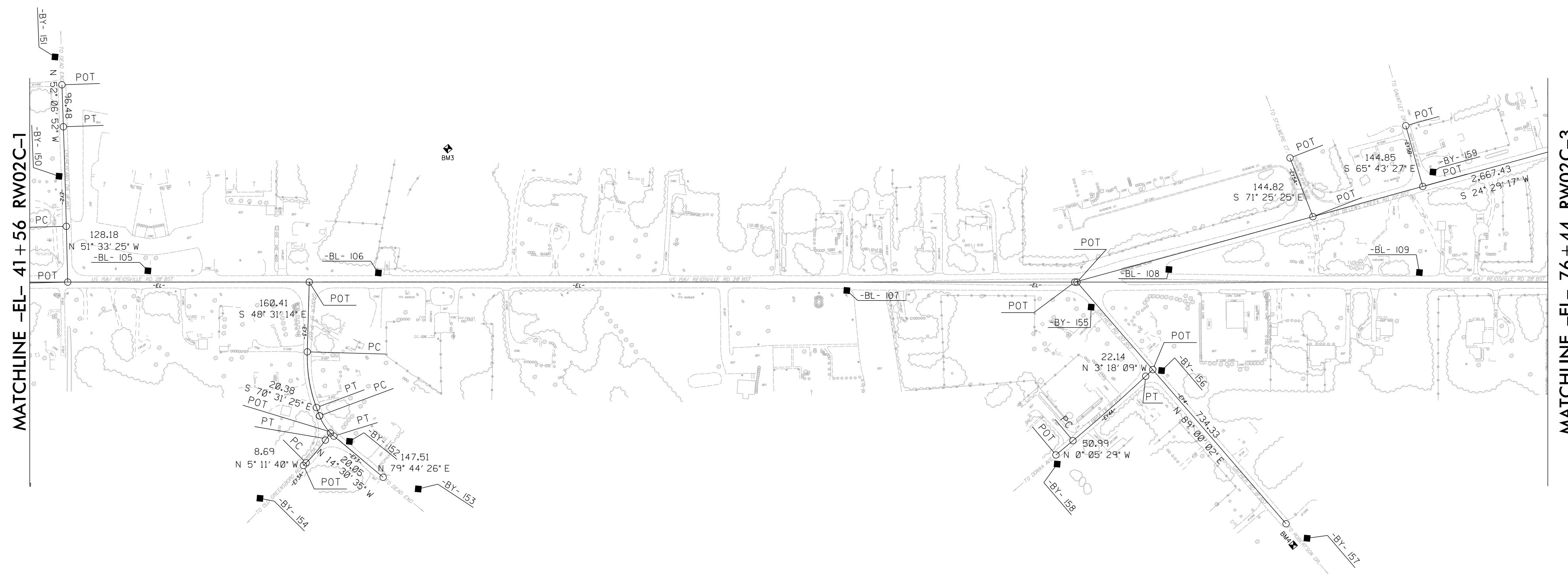
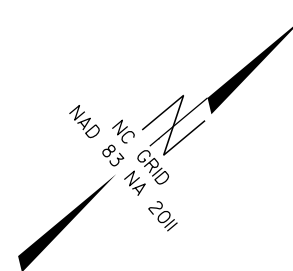
NOTES:

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.

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-2577A	RW02C-2
Location and Surveys	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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 Type of GPS field procedure: Static
 Dates of survey: 10/1/2017 - 11/20/2017
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 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
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 Professional Land Surveyor L-3877

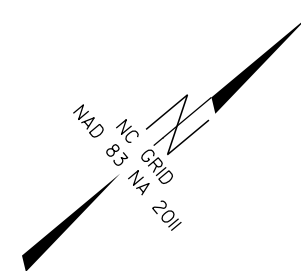


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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



PROJECT REFERENCE NO. R-2577A	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 completed 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: 10/1/2017 - 11/20/2017
 Datum/Epoch: NAD 83 / NA 2011
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: U5824-4
 Northing: 882418.740
 Easting: 1660181.131
 Combined grid factor: 0.99995790
 Geoid model: G12NC
 Units: US Survey Feet

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This 10 day of January, 2022.


DocuSigned by:
Michael L. Motsinger
FD88F70E23C40E

Michael L. Motsinger
Professional Land Surveyor L-3877



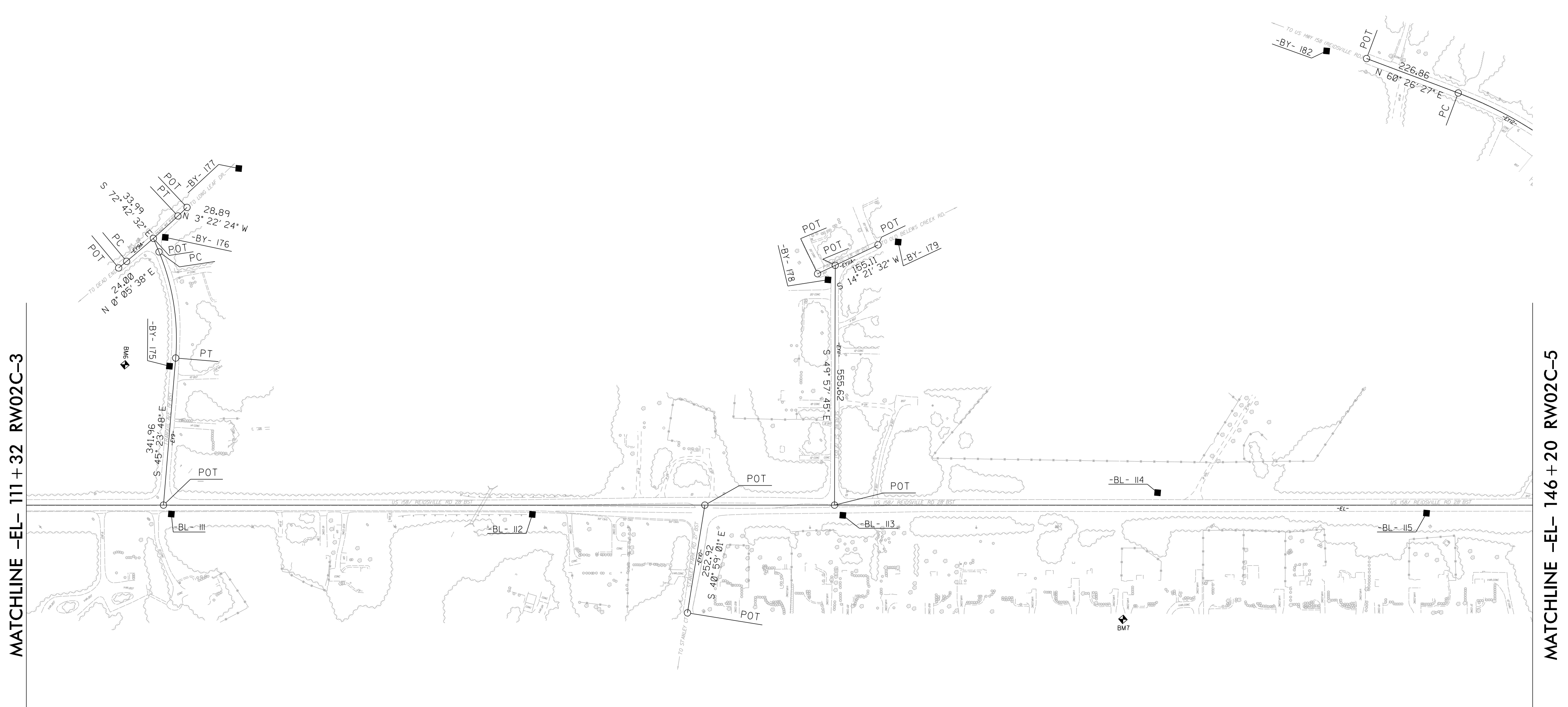
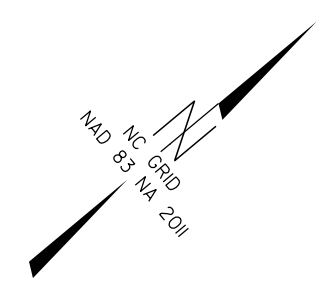
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PROJECT REFERENCE NO.	SHEET NO.
R-2577A	RW02C-4
Location and Surveys	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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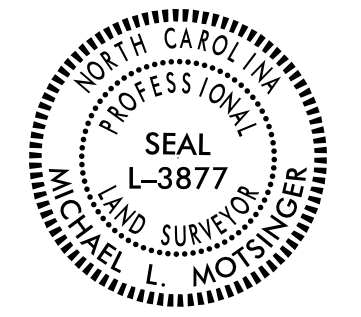
Class of survey: **AA**
 Type of GPS field procedure: Static
 Dates of survey: 10/1/2017 - 11/20/2017
 Datum/Epoch: NAD 83 / NA 2011
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: U5824-4
 Northing: 882418.740
 Easting: 1660181.131
 Combined grid factor: 0.99995790
 Geoid model: G12NC
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This 10 day of January, 2022.


DocuSigned by:

 Michael L. Motsinger
 Professional Land Surveyor L-3877



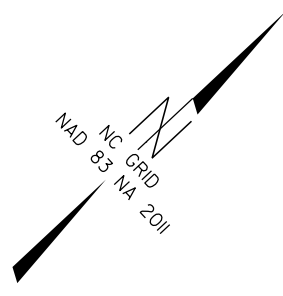
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PROJECT REFERENCE NO.	SHEET NO.
R-2577A	RW02C-5
Location and Surveys	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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Class of survey: **AA**
 Type of GPS field procedure: Static
 Dates of survey: 10/1/2017 - 11/20/2017
 Datum/Epoch: NAD 83 / NA 2011
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: U5824-4
 Northing: 882418.740
 Easting: 1660181.131
 Combined grid factor: 0.99995790
 Geoid model: G12NC
 Units: US Survey Feet

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This 10 day of January, 2022.


DocuSigned by:

 Michael L. Motsinger
 Professional Land Surveyor L-3877



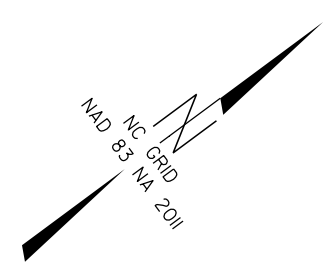
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PROJECT REFERENCE NO. R-2577A	SHEET NO. RW02C-6
Location and Surveys	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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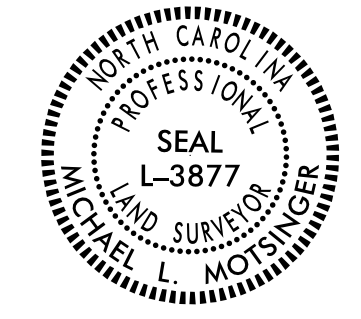
Class of survey: **AA**
 Type of GPS field procedure: Static
 Dates of survey: 10/1/2017 - 11/20/2017
 Datum/Epoch: NAD 83 / NA 2011
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: U5824-4
 Northing: 882418.740
 Easting: 1660181.131
 Combined grid factor: 0.99995790
 Geoid model: G12NC
 Units: US Survey Feet

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This 10 day of January, 2022.

Designed by:

 Michael L. Motsinger
 Professional Land Surveyor L-3877




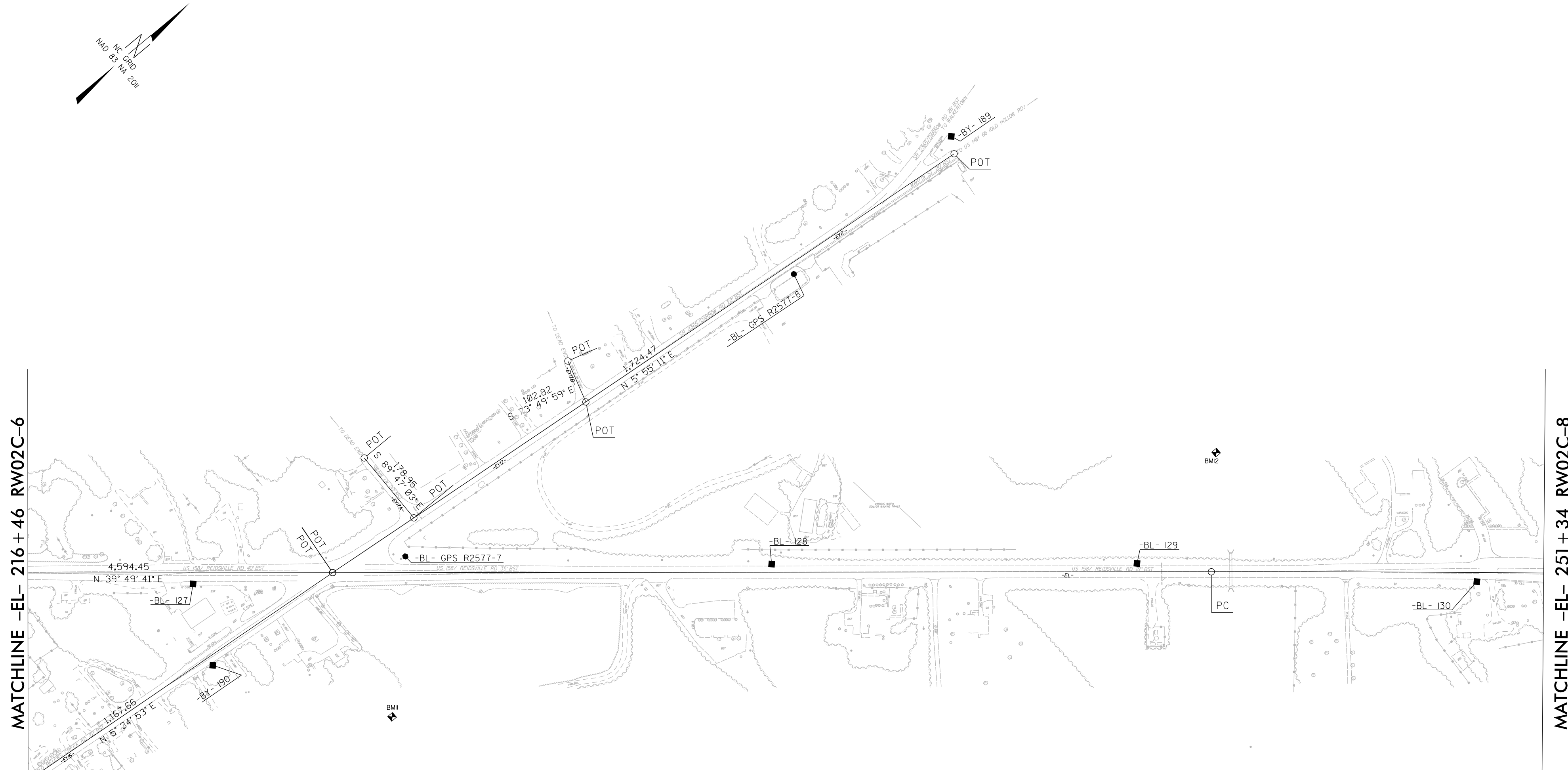
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-2577A	SHEET NO. RW02C-7
Location and Surveys	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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 Type of GPS field procedure: Static
 Dates of survey: 10/1/2017 - 11/20/2017
 Datum/Epoch: NAD 83 / NA 2011
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: U5824-4
 Northing: 882418.740
 Easting: 1660181.131
 Combined grid factor: 0.99995790
 Geoid model: G12NC
 Units: US Survey Feet

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This 10 day of January, 2022.

DocuSigned by:

 F0B6FE70E23CA0E
 Michael L. Motsinger
 Professional Land Surveyor L-3877




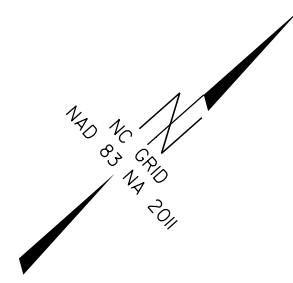
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-2577A	SHEET NO. RW02C-8
Location and Surveys	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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Class of survey: **AA**
 Type of GPS field procedure: Static
 Dates of survey: 10/1/2017 - 11/20/2017
 Datum/Epoch: NAD 83 / NA 2011
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
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 Northing: 882418.740
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 Combined grid factor: 0.99995790
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This 10 day of January, 2022.


DocuSigned by:

 Michael L. Motsinger
 Professional Land Surveyor L-3877



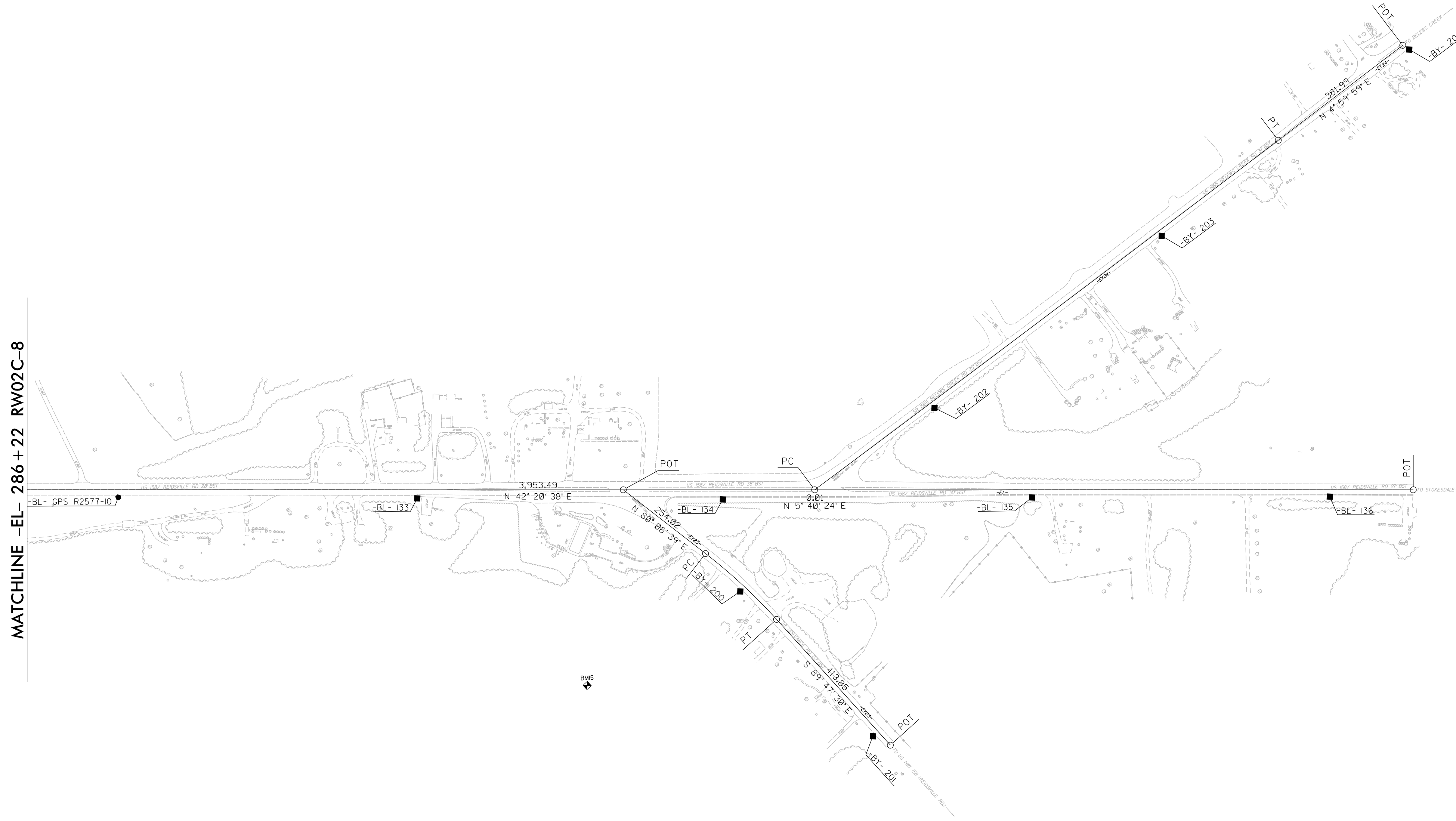
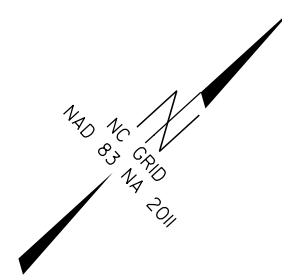
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PROJECT REFERENCE NO.	SHEET NO.
R-2577A	RW02C-9
Location and Surveys	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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 Dates of survey: 10/1/2017 - 11/20/2017
 Datum/Epoch: NAD 83 / NA 2011
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
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 Northing: 882418.740
 Easting: 1660181.131
 Combined grid factor: 0.99995790
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This 10 day of January, 2022.

DocuSigned by:

 Michael L. Motsinger
 Professional Land Surveyor L-3877



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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

POINT	DESC.	NORTH	EAST	ELEVATION
1	GPS R2577A-1	857619.2541	1646305.8696	864.42
2	GPS R2577A-2	857863.0740	1647157.6841	876.02
101	BL-101	858959.9458	1647749.6474	855.58
102	BL-102	860628.1933	1648440.1921	805.46
103	BL-103	861642.8356	1648854.9798	902.63
4	GPS R2577A-4	862950.7106	1649353.2345	925.69
104	BL-104	863315.2345	1649641.5739	927.22
105	BL-105	863973.7425	1650139.6861	927.89
106	BL-106	864377.1793	1650482.7669	914.90
107	BL-107	865177.3753	1651203.6604	936.70
108	BL-108	865776.4036	1651640.8898	927.49
109	BL-109	866213.8201	1652015.0898	934.28
110	BL-110	866795.2058	1652560.1712	940.86
5	GPS R2577A-5	867402.5180	1653010.2757	951.32
6	GPS R2577A-6	868646.3570	1654101.3949	925.37
111	BL-111	869348.0491	1654687.5955	880.48
112	BL-112	869989.2694	1655223.9635	881.63
113	BL-113	870539.8272	1655686.3443	917.49
114	BL-114	871132.9171	1656113.2166	929.20
115	BL-115	871580.5329	1656548.7646	909.52
116	BL-116	872130.6202	1657006.3649	880.65
117	BL-117	872657.5500	1657452.6673	872.81
118	BL-118	873074.2498	1657641.6800	893.19
119	BL-119	873512.5834	1658179.6661	904.22
120	BL-120	873995.5220	1658807.3717	911.84
121	BL-121	874403.6461	1659787.0634	911.18
122	BL-122	874896.7898	1659189.2029	914.27
123	BL-123	875331.3259	1659534.7629	909.37
124	BL-124	875755.2559	1660030.0143	925.90
125	BL-125	876468.7449	1660634.8545	947.08
126	BL-126	876951.9511	1661032.1634	962.31
127	BL-127	877405.9621	1661415.0468	976.08
7	GPS R2577A-7	877821.4398	1661679.6677	967.58
128	BL-128	878456.9215	1662233.7657	959.08
129	BL-129	879102.9156	1662771.5942	932.63
130	BL-130	879676.1154	1663305.2292	950.99
131	BL-131	880317.6584	1663868.9964	973.04
132	BL-132	880908.4418	1664410.1216	985.63
9	GPS R2577A-9	881619.0728	1665020.1304	982.29
10	GPS R2577A-10	882571.0046	1665863.7418	977.27
133	BL-133	883108.4632	1666356.9623	972.83
134	BL-134	883657.7727	1666861.0422	960.30
135	BL-135	884218.4936	1667365.6763	943.52
136	BL-136	884756.9464	1667893.4558	938.37
137	BL-137	885157.0367	1668222.4399	933.02
138	BL-138	885611.5179	1668634.5049	952.76
139	BL-139	886053.8146	1669036.4268	929.21
11	GPS R2577A-11	886658.1169	1669534.9641	898.60
12	GPS R2577A-12	887489.1653	1670332.4138	933.16

POINT	DESC.	NORTH	EAST	ELEVATION
140	BY-140	861406.9601	1647688.6038	918.63
141	BY-141	861564.9838	1648002.7360	914.65
142	BY-142	861915.2858	1648386.6773	923.27
3	GPS R2577A-3	862334.5226	1648657.6758	928.67
CP4		862950.7106	1649353.2345	UNKNOW

POINT	DESC.	NORTH	EAST	ELEVATION
CPB4		862950.7106	1649353.2345	UNKNOW
143	BY-143	862853.0848	1649726.0217	918.08
144	BY-144	862947.5498	1650087.6033	911.28
145	BY-145	862926.8639	1650383.5624	901.08
146	BY-146	862738.4901	1650763.9396	886.50

POINT	DESC.	NORTH	EAST	ELEVATION
CP143		862853.0848	1649726.0217	UNKNOW
147	BY-147	863187.9105	1650047.8391	924.75
148	BY-148	863448.9327	1650341.9859	916.96

POINT	DESC.	NORTH	EAST	ELEVATION
CP145		862926.8639	1650383.5624	UNKNOW
149	BY-149	863191.3054	1650525.3257	915.56

POINT	DESC.	NORTH	EAST	ELEVATION
151	BY-151	864124.8477	1649625.6932	912.36
150	BY-150	863956.2422	1649842.0465	920.31
CP105		863973.7425	1650139.6861	UNKNOW

POINT	DESC.	NORTH	EAST	ELEVATION
CP106		864377.1793	1650482.7669	UNKNOW
152	BY-152	864077.9874	1650737.4485	941.84
153	BY-153	864129.1639	1650922.6133	941.96

POINT	DESC.	NORTH	EAST	ELEVATION
154	BY-154	863836.2621	1650706.0988	937.98
CP152		864877.9874	1650737.4485	UNKNOW

POINT	DESC.	NORTH	EAST	ELEVATION
CP108		865776.4036	1651640.8898	UNKNOW
155	BY-155	865583.8892	1651592.7396	929.75
156	BY-156	865614.6537	1651808.4615	930.54
157	BY-157	865624.1947	1652318.4029	942.18

POINT	DESC.	NORTH	EAST	ELEVATION
158	BY-158	865292.7115	1651819.5426	938.13
CP156		865614.6537	1651808.4615	UNKNOW

POINT	DESC.	NORTH	EAST	ELEVATION
CPB108		865776.4036	1651640.8898	UNKNOW
159	BY-159	866385.7532	1651857.8088	926.62
160	BY-160	866972.0144	1652180.4697	937.24
161	BY-161	867595.8471	1652460.8326	942.91
162	BY-162	868263.2781	1652765.0472	955.13
163	BY-163	869075.4525	1652922.8815	941.16

POINT	DESC.	NORTH	EAST	ELEVATION
164	BY-164	868097.1890	1652001.4882	946.87
CP161		867595.8471	1652460.8326	UNKNOW

POINT	DESC.	NORTH	EAST	ELEVATION
CP110		866795.2058	1652560.1712	UNKNOW
165	BY-165	866744.3824	1652840.2765	945.62
166	BY-166	866744.6013	1653290.3900	939.26

POINT	DESC.	NORTH	EAST	ELEVATION
CP5		867402.5180	1653010.2757	UNKNOW
167	BY-167	868035.8653	1653541.0218	920.52
168	BY-168	867771.0224	1653888.5651	921.96
169	BY-169	867531.8181	1653740.4636	916.67

POINT	DESC.	NORTH	EAST	ELEVATION
CP6		868646.3570	1654101.3949	UNKNOW
170	BY-170	868406.0341	1653849.3902	922.52
171	BY-171	868180.2697	1654132.4050	917.25
172	BY-172	867939.0995	1654419.1387	899.94

POINT	DESC.	NORTH	EAST	ELEVATION
CPB6		868646.3570	1654101.3949	UNKNOW
173	BY-173	868503.7402	1654380.6784	924.86
174	BY-174	868247.4863	1654645.0092	918.90

POINT	DESC.	NORTH	EAST	ELEVATION
175	BY-175	869748.0780	1654186.4402	889.19
176	BY-176	869564.4773	1654421.8013	876.98
CP111		869348.0491	1654687.5955	UNKNOW

POINT	DESC.	NORTH	EAST	ELEVATION
CP176		869748.0780	1654186.4402	UNKNOW
177	BY-177	869981.1032	1654172.8596	901.61

POINT	DESC.	NORTH	EAST	ELEVATION
178	BY-178	870863.1296	1655245.3965	910.17
CP113		870539.8272	1655686.3443	UNKNOW

POINT	DESC.	NORTH	EAST	ELEVATION
179	BY-179	871043.9989	1655282.3726	915.20
CP178		870863.1296	1655245.3965	UNKNOW

POINT	DESC.	NORTH	EAST	ELEVATION
182	BY-182	872089.2976	1655578.3352	927.87
181	BY-181	872363.1623	1656048.6934	901.92
180	BY-180	872434.9574	1656684.9638	875.76
CP116		872130.6202	1657006.3649	UNKNOW

POINT	DESC.	NORTH	EAST	ELEVATION
CP117		872657.5500	1657452.6673	UNKNOW
183	BY-183	872524.5761	1657634.1316	875.73
184	BY-184	872559.1019	1657969.6134	893.28

POINT	DESC.	NORTH	EAST	ELEVATION
186	BY-186	875391.1335	1658071.9710	925.25
185	BY-185	875178.4022	1658965.6484	910.19
CP122		874896.7898	1659189.2029	UNKNOW

POINT	DESC.	NORTH	EAST	ELEVATION
188	BY-188	876659.4913	1659996.1191	957.21
187	BY-187	876558.9846	1660334.9404	956.95
CP125		876468.7449	1660634.8545	UNKNOW

POINT	DESC.	NORTH	EAST	ELEVATION
189	BY-189	879404.8832	1661743.8115	981.58
B	GPS R2577A-B	878923.9512	1661754.6505	976.02
CPB7		877821.4398	1661679.6677	UNKNOW

POINT	DESC.	NORTH	EAST	ELEVATION
CP7		877821.4398	1661679.6677	UNKNOW
190	BY-190	877320.8629	1661587.6653	967.89
191	BY-191	876683.0853	1661482.4503	965.71
192	BY-192	876228.0367	1661471.6860	953.84

POINT	DESC.	NORTH	EAST	ELEVATION
CP191		876683.0853	1661482.4503	UNKNOW
193	BY-193	876459.2506	1661815.1818	963.82

POINT	DESC.	NORTH	EAST	ELEVATION
194	BY-194	881259.8543	1663242.4076	969.65
195	BY-195	881010.3699	1663994.2655	978.85
CP132		880908.4418	1664410.1216	UNKNOW
199	BY-199	880526.9527	1664988.7701	972.70

POINT	DESC.	NORTH	EAST	ELEVATION
CPB195		881010.3699	1663994.2655	UNKNOW
196	BY-196	880952.1652	1663660.3807	969.27

POINT	DESC.	NORTH	EAST	ELEVATION
198	BY-198	881513.8489	1664084.5133	966.44
197	BY-197	881223.9373	1664102.4130	976.45
CP195		881010.3699	1663994.2655	UNKNOW

POINT	DESC.	NORTH	EAST	ELEVATION
CP134		883657.7727	1666861.0422	UNKNOW
200	BY-200	883538.0635	1667055.6051	964.32
201	BY-201	883539.2829	1667534.6018	972.60

POINT	DESC.	NORTH	EAST	ELEVATION
204	BY-204	885634.8892	1667178.0623	933.81
203	BY-203	884882.3577	1667107.0325	950.92
202	BY-202	884189.8528	1667043.8839	950.80
CPB134		883657.7727	1666861.0422	UNKNOW

.....
BM1 ELEVATION - 890.02
N 860785 E 1648556
RAILROAD SPIKE SET IN 20' POPLAR TREE
.....

.....
BM2 ELEVATION - 884.50
N 862560 E 1649507
RAILROAD SPIKE SET IN 36' POPLAR TREE
.....

.....
BM3 ELEVATION - 888.50
N 864683 E 1650366
RAILROAD SPIKE SET IN 20' POPLAR TREE
.....

.....
BM4 ELEVATION - 941.28
N 86559

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

Location and Surveys

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Table EY4: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 866956.626 through 884918.811.

Table EY4: Survey control data with columns for POINT, N, E, BEARING, DIST. Includes points 865595.784 through 865685.591.

Table EY4A: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 865384.835 through 865680.423.

Table EY5: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 864903.523 through 866591.932.

Table EY5A: Survey control data with columns for POINT, N, E, BEARING, DIST. Includes points 866154.291 through 866188.158.

Table EY5B: Survey control data with columns for POINT, N, E, BEARING, DIST. Includes points 866495.954 through 866345.494.

Table EY5C: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 867174.622 through 867061.172.

Table EY5D: Survey control data with columns for POINT, N, E, BEARING, DIST. Includes points 868103.586 through 867682.799.

Table EY6: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 866724.232 through 866734.716.

Table EY6A: Survey control data with columns for POINT, N, E, BEARING, DIST. Includes points 866746.330 through 866645.728.

Table EY7: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 868822.670 through 867674.676.

Table EY8: Survey control data with columns for POINT, N, E, BEARING, DIST. Includes points 868389.381 through 867973.443.

Table EY9: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 869256.620 through 869344.368.

Table EY1A: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 861438.378 through 862786.516.

Table EY1B: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 862786.530 through 862848.565.

Table EY1C: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 862461.536 through 862349.384.

Table EY1D: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 862877.410 through 863406.134.

Table EY1E: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 862897.535 through 863167.338.

Table EY2: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 863815.670 through 864896.842.

Table EY3: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 864241.695 through 864884.529.

Table EY3A: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 863961.328 through 864856.863.

Table EY9A: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 863615.324 through 863691.330.

Table EY10: Survey control data with columns for POINT, N, E, BEARING, DIST. Includes points 870385.703 through 870118.776.

Table EY11: Survey control data with columns for POINT, N, E, BEARING, DIST. Includes points 870897.617 through 870548.194.

Table EY11A: Survey control data with columns for POINT, N, E, BEARING, DIST. Includes points 871083.538 through 870893.676.

Table EY12: Survey control data with columns for POINT, N, E, BEARING, DIST, DELTA, D, L, T, R. Includes points 872145.897 through 872146.897.

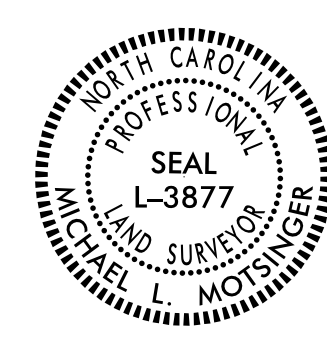
I, Michael L. Motsinger, PLS, certify that the Project Control was completed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA
Type of GPS field procedure: Static
Dates of survey: 10/11/2017 - 11/20/2017
Datum/Epoch: NAD 83 / NA 2011
Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
Localized around: US824-4
Northing: 882418.740
Easting: 1660181.131
Combined grid factor: 0.99995790
Geoid model: G12NC
Units: US Survey Feet

I also certify that the Baseline Control for this project was verified 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 10/11/2017 to 5/3/2018, 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 10 day of January, 2022.

DocuSigned by:
Michael L. Motsinger
FDBFF7E2E3CAE
Michael L. Motsinger
Professional Land Surveyor L-3877



REVISIONS

I:\LAN-2022\1307\Winington\Rhys Computer\Run-01\VR2577A\Right of Way\Road\TLLSheets\ToBeChecked\R2577A-L-RW02C-11.dgn At LS-312635 mmotsinger

- 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

I, Michael L. Molsinger, 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 10th day of January, 2022.

Decussed by:

 Michael L. Molsinger
 Professional Land Surveyor L-3877

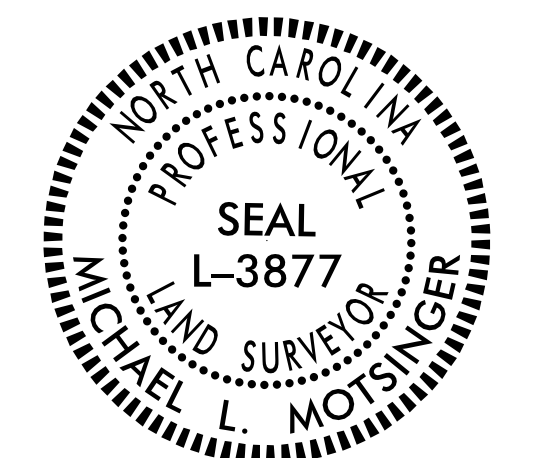


PROJECT REFERENCE NO. SHEET NO.

R-2577A RW02D-1

Location and Surveys

PROJECT SURVEYOR



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 UNLESS ALL SIGNATURES COMPLETED

L		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		861361.622	1648733.028	N 22°25'16.2" E	1245.50					
LINE		862512.416	1649289.488	N 31°10'23.7" E	1343.98	17°22'15.0"R	0117'15.2"	1349.14	679.79	4450.00
CURVE		863662.336	1649985.091	N 39°51'31.2" E	2285.24					
LINE		865416.552	1651363.635	N 39°31'15.8" E	235.74	00°40'31.3"R	00°17'11.3"	235.74	117.87	28880.00
CURVE		865936.482	1651919.712	N 39°10'55.9" E	1038.88					
LINE		866396.846	1652170.528	N 3°10'55.9" E	223.85	00°38'28.4"R	00°17'11.3"	223.85	101.63	28880.00
CURVE		866558.348	1652312.494	N 3°10'55.9" E	18295.48					
LINE		866920.586	1664028.391	N 31°49'28.3" E	585.89	02°31'18.0"R	00°29'53.6"	585.13	253.11	11580.00
CURVE		881801.975	1664361.571	N 42°20'38.3" E	5331.26					
POINT		884942.386	1667952.681							

Y6		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		866848.239	1652545.285	S 50°10'39.7" E	39.47					
LINE		866822.962	1652575.680	S 69°17'51.8" E	183.43	38°14'22.7"R	20°27'46.8"	186.87	97.87	288.00
CURVE		866758.118	1652747.181	S 88°25'02.4" E	288.93					
POINT		866752.348	1652956.027							

Y7		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		868836.286	1653535.845	S 53°19'37.2" E	399.82					
LINE		867797.893	1653855.881	S 50°33'33.4" E	671.75					
POINT		867973.443	1654358.148							

Y8		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		868424.784	1653843.110	S 58°32'33.4" E	671.75					
LINE		867973.443	1654358.148	S 50°33'33.4" E	671.75					
POINT		867973.443	1654358.148							

Y9		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		869726.620	1654178.579	S 72°42'31.9" E	35.75					
LINE		869714.994	1654284.715	S 69°08'04.7" E	245.64	27°18'44.3"R	11°01'06.3"	247.88	126.34	520.00
CURVE		869588.726	1654416.299	S 49°23'47.6" E	319.91					
POINT		869364.886	1654643.889							

Y10		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		870326.455	1659447.187	S 40°59'00.1" E	277.76					
LINE		870118.776	1659624.363	S 40°59'00.1" E	277.76					
POINT		870118.776	1659624.363							

Y11		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		870897.617	1659230.522	S 49°57'45.2" E	538.91					
LINE		870556.891	1659536.997	S 49°57'45.2" E	538.91					
POINT		870556.891	1659536.997							

Y12		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		871432.858	1659591.227	N 68°26'26.8" E	224.33					
LINE		872255.727	1659846.383	N 68°26'26.8" E	224.33	21°22'03.9"R	06°11'14.8"	345.34	174.70	926.00
CURVE		872378.882	1661123.249	N 71°07'28.2" E	483.68					
LINE		872428.321	1661578.884	N 61°48'29.9" E	483.68					
CURVE		872388.621	1661673.124	S 73°26'58.0" E	167.43	49°23'20.2"R	28°38'52.4"	172.75	92.18	288.00
POINT		872164.889	1661977.791	S 48°42'09.9" E	328.10					

Y13		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		872632.488	1657368.395	S 44°39'09.9" E	82.73					
LINE		872573.636	1657426.498	S 70°24'18.2" E	135.82	91°38'08.6"R	35°48'35.5"	143.82	77.18	168.00
CURVE		872527.087	1657557.468	N 83°50'45.8" E	386.52					
POINT		872568.434	1657941.757							

Y14		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		872268.538	1656858.897	N 48°49'53.3" E	287.47					
LINE		872426.513	1656994.582	N 19°54'57.4" E	178.58	41°49'51.8"R	22°55'05.9"	182.52	95.54	258.00
CURVE		872593.333	1657855.395	N 00°59'58.4" W	168.00					
POINT		872753.388	1657852.564							

Y15		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		876638.753	1660828.895	N 48°00'00.0" E	22.84					
LINE		876638.753	1660828.895	S 81°24'56.8" E	195.24	17°18'07.9"R	11°01'06.3"	195.82	78.58	520.00
CURVE		876615.591	1660828.895	S 72°49'52.1" E	272.67					
LINE		876535.891	1660844.145	S 68°55'38.8" E	123.76	23°48'26.5"R	19°05'54.9"	124.66	63.24	388.00
POINT		876474.994	1660872.312							

Y16		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		877897.846	1661825.196	N 89°34'53.8" E	932.36					
LINE		877686.599	1661682.888	N 89°34'53.8" E	932.36					
POINT		877686.599	1661682.888							

Y17		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		877586.599	1661682.888	N 89°52'26.7" E	742.84					
LINE		878424.744	1661676.768	N 89°52'26.7" E	742.84					
POINT		878424.744	1661676.768							

Y18		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		877894.825	1661445.241	S 89°47'03.4" E	178.84					
LINE		877893.352	1661624.079	S 89°47'03.4" E	178.84					
POINT		877893.352	1661624.079							

Y19		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		880312.582	1663772.236	S 49°18'58.8" E	274.39					
LINE		880133.784	1663988.384	S 49°18'58.8" E	274.39					
POINT		880133.784	1663988.384							


Y20		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		880443.367	1664246.988	S 49°18'58.8" E	288.84					
LINE		880443.367	1664246.988	S 49°18'58.8" E	288.84					
POINT		880443.367	1664246.988							

Y21		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		881256.571	1663315.933	S 71°41'52.8" E	278.19					
LINE		881171.725	1663576.450	S 71°41'52.8" E	278.19	02°07'14.6"R	00°47'05.5"	278.20	135.12	738.00
CURVE		881243.458	1663728.793	S 72°45'29.3" E	199.47					
LINE		880956.679	1664164.345	S 68°56'04.9" E	466.74	07°38'49.5"R	01°38'13.3"	467.13	233.91	3580.00
CURVE		880657.296	1664883.780	S 65°06'39.8" E	711.43					
LINE		880565.110	1664995.118	S 63°49'11.9" E	286.61	02°54'55.7"R	01°14'58.7"	286.61	183.33	4585.00
CURVE		880188.752	1664417.495	S 48°13'18.9" E	566.39	28°38'58.4"R	04°59'58.7"	572.32	292.26	1146.00
POINT		880188.752	1664417.495							

Y22		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		881625.994	1664933.985	S 47°59'59.9" E	273.17					
LINE		881447.288	1665136.310	S 47°59'59.9" E	273.17					
POINT		881447.288	1665136.310							

Y23		N	E	BEARING	DIST	DELTA	D	L	T	R
POINT		881256.571	1663315.933	S 71°41'52.8" E	278.19					
LINE		881171.725	1663576.450	S 71°41'52.8" E	278.19	02°07'14.6"R	00°47'05.5"	278.20	135.12	738.00
CURVE		881243.458	1663728.793	S 72°45'29.3" E	199.47					
LINE		880956.679	1664164.345	S 68°56'04.9" E	466.74	07°38'49.5"R	01°38'13.3"	467.13	233.91	3580.00
CURVE		880657.296	1664883.780	S 65°06'39.8" E	711.43					
LINE		880565.110	1664995.118</							

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-2577A	RW03E-1
Location and Surveys	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ALIGN	STATION	OFFSET	NORTH	EAST
L	1+50.00	100.00	861461.9673	1648882.7887
L	4+75.00	100.00	861762.2945	1649007.0970
L	9+21.00	100.00	862251.4729	1649152.5621
L	13+03.84	-99.63	862611.1185	1649142.9558
L	14+50.00	101.07	862656.5948	1649383.4486
L	14+50.00	120.00	862648.5581	1649400.5889
L	18+96.35	-78.91	863133.9515	1649433.6291
L	21+50.00	-56.00	863338.7105	164951.2784
L	22+00.00	-56.00	863380.5262	1649619.5226
L	22+12.19	423.53	863116.0580	1650020.0999
L	23+20.00	-100.00	863505.4474	1649655.1174
L	24+10.00	-100.00	863574.0333	1649710.3710
L	24+50.00	-56.00	863584.2895	1649770.0778
L	24+92.73	52.50	863550.6461	1649811.7349
L	25+94.65	-56.00	863698.2262	1649862.1034
L	25+94.96	52.50	863628.9335	1649945.5914
L	26+50.00	-56.00	863748.7180	1649897.5800
L	29+65.53	-63.49	863916.9605	1650029.9634
L	29+00.21	-60.50	863935.6739	1650054.4874
L	30+74.49	52.50	863997.0297	1650252.9205
L	32+00.00	-60.50	864185.7972	1650246.6186
L	32+30.00	-100.00	864214.1414	1650235.5241
L	32+78.00	-100.00	864250.9876	1650266.2872
L	32+78.00	-57.00	864223.4290	1650295.2952
L	34+00.00	-52.50	864314.1956	1650380.9389
L	34+60.00	56.50	864290.3955	1650503.0640
L	37+78.20	56.50	864534.6962	1650706.9984
L	39+22.15	52.50	864447.7165	1650796.1922
L	46+95.00	52.50	865248.9792	1651291.5802
L	48+28.50	65.00	865335.4476	1651386.6563
L	48+79.89	-52.50	865450.2800	1651329.3946
L	48+79.89	64.74	865375.0972	1651419.3998
L	51+15.00	65.00	865587.3352	1651570.0955
L	51+15.63	-52.50	865631.5721	1651479.0179
L	51+21.84	65.00	865562.1421	1651574.0136
L	51+86.00	-52.50	865686.1151	1651523.4757
L	53+98.06	52.50	865784.1484	1651738.8436
L	54+30.00	-116.44	865915.6426	1651628.0758
L	54+77.00	-56.40	865914.1392	1651704.3104
L	56+00.00	-52.50	866007.0183	1651785.0424
L	56+00.00	-88.65	866029.8684	1651757.0186
L	61+45.71	52.50	866383.6764	1652211.2142
L	61+45.71	-52.50	866430.8158	1652129.8257
L	63+68.76	-52.50	866682.5695	1652272.0822
L	63+68.76	52.62	866535.2474	1652352.8208
L	65+00.00	64.49	866628.4489	1652445.9846
L	66+36.74	64.50	866733.4621	1652533.5611
L	68+45.00	130.00	866851.4625	1652717.2359
L	71+54.77	58.00	867135.4830	1652860.3144
L	71+54.77	51.92	867139.3806	1652855.6417
L	77+80.00	-52.50	867686.4514	1653175.8492
L	80+80.43	-78.95	867934.1295	1653347.9320
L	81+15.00	71.13	867994.4112	1653518.2227
L	84+14.41	71.41	868094.3461	1653677.5867
L	85+02.34	-78.49	868257.8777	1653618.4858
L	86+65.41	71.69	868286.9395	1653838.2555
L	87+00.00	-120.00	868436.2683	1653713.1856
L	88+00.00	120.00	868513.0717	1653773.4264
L	88+45.00	71.89	868424.7473	1653953.4204
L	88+50.00	-78.11	868524.6454	1653841.4214
L	90+50.00	71.69	868582.3231	1654084.5497
L	92+25.43	-80.18	868914.3152	1654080.2612
L	92+50.00	69.44	868750.4078	1654236.1206
L	94+00.00	-77.76	868953.8032	1654190.6948
L	98+25.00	-77.12	869272.8490	1654466.5752
L	101+65.00	-74.95	869532.5651	1654685.9879
L	102+80.00	-74.34	869620.5198	1654760.1017
L	105+50.00	-120.00	869857.1317	1654897.9417
L	105+60.00	-120.00	869941.6154	1654960.3867
L	107+00.00	-75.44	869943.7989	1655020.2282
L	110+65.00	74.02	870128.4142	1655376.7698
L	114+00.00	74.29	870385.5373	1655591.5887
L	114+10.00	-74.34	870488.4013	1655483.7603
L	117+18.00	-73.57	870718.5756	1655766.1658
L	124+00.00	-75.30	871310.8111	1656168.2623
L	125+47.00	-75.42	871362.3445	1656211.0795
L	127+00.00	-125.00	871511.6874	1656270.9804
L	127+70.00	74.02	871371.9087	1656468.6739
L	128+10.00	-125.00	871596.8912	1656341.4253
L	128+10.00	-75.55	871564.4252	1656379.4019
L	128+65.00	110.00	871487.8370	1656557.1359
L	130+13.00	74.02	871624.5463	1656624.2845
L	131+50.00	74.10	871329.7181	1656712.0791
L	135+05.00	-74.82	872097.7421	1656825.0459
L	137+39.51	74.09	872182.4917	1657089.6804
L	139+00.00	150.00	872257.1361	1657256.6803
L	140+30.00	150.00	872356.9806	1657333.9334
L	140+65.00	-120.00	872596.7721	1657146.9785
L	141+53.64	109.94	872478.3917	1657381.7022
L	143+75.00	-120.00	872794.8627	1657347.5052
L	143+75.00	-73.91	872765.3475	1657382.9025
L	178+05.00	120.00	875274.9446	1659729.1281
L	182+24.81	98.19	875611.9149	1659986.5337
L	184+39.27	-75.74	875988.6520	1659983.5264
L	185+00.00	-85.00	875948.5898	1660016.0725
L	190+94.00	-85.00	876396.8021	1660396.4753
L	193+50.00	110.00	876468.5392	1660718.1866
L	193+50.00	73.21	876492.1823	1660681.9277
L	193+60.00	-79.38	876596.8573	1660711.9114
L	195+00.00	110.00	876583.7443	1660806.2479
L	196+30.00	73.32	876707.0760	1660861.3332
L	196+74.91	73.33	876741.5606	1660890.0994
L	247+85.75	-445.42	881002.3264	1663766.1524
L	249+20.25	-475.09	881048.8144	1663768.9781
L	248+85.00	-70.63	880834.9517	1664118.6156
L	254+00.00	-67.45	881217.1275	1664466.3867
L	280+00.00	82.47	883037.8376	1666328.5072
L	280+40.00	105.00	883852.2296	1666372.0991
L	280+60.00	105.00	883889.1853	1666485.7781
L	282+35.64	82.45	883212.0205	1666487.2160
L	286+70.00	-68.09	883634.4597	1666668.5233
L	286+70.00	-85.00	883645.8918	1666656.0228
L	289+47.32	110.00	883719.4749	1666986.9473
L	292+12.00	82.48	883933.6486	1667144.6980
L	292+37.97	-74.50	884058.5772	1667046.3597
L	297+50.00	-74.50	884437.0227	1667391.2499
L	299+00.00	-100.00	884565.0661	1667473.4395
L	300+20.00	-100.00	884653.7998	1667554.2691
L	300+20.00	-67.35	884631.7671	1667576.4016

ALIGN	STATION	OFFSET	NORTH	EAST
L2	206+54.92	66.42	877492.2873	1661516.2831
L2	208+07.06	75.00	877598.8768	1661624.3786
L2	209+75.60	-92.87	877762.5621	1661546.3636
L2	209+41.95	75.00	877698.6331	1661715.1769
L2	214+40.97	75.00	878077.2984	1662045.1895
L2	227+20.00	75.00	879859.6370	1662864.2873
L2	228+14.00	117.00	879184.9351	1662996.6632
L2	228+93.00	117.00	879105.6098	1663007.2955
L2	229+79.00	75.00	879258.5579	1663038.0732
L2	230+12.51	75.00	879284.2946	1663051.5332
L2	234+96.92	75.00	879665.2319	1663355.8810
L2	237+24.89	75.00	879846.2788	1663494.2660
L2	239+06.03	75.00	879988.3689	1663604.7372

ALIGN	STATION	OFFSET	NORTH	EAST
Y10	11+10.00	-38.48	870270.6559	1659548.3820
Y10	11+15.00	58.00	870283.6825	1659478.8252
Y10	11+57.00	21.48	870195.8457	1659553.5365

ALIGN	STATION	OFFSET	NORTH	EAST
Y11	14+35.00	-30.00	870994.8180	1659544.2697
Y11	14+35.00	-30.00	870840.7954	1659582.8670

ALIGN	STATION	OFFSET	NORTH	EAST
Y12	22+45.00	-30.00	872337.8919	1658825.9932
Y12	23+70.00	30.00	872210.3185	1658797.7072

ALIGN	STATION	OFFSET	NORTH	EAST
Y14	10+65.00	-30.00	872337.3264	1658878.6973
Y14	12+07.47	-30.00	872445.1281	1658971.8526
Y14	13+48.35	-30.00	872556.2785	1657822.9499
Y14	13+60.43	28.00	872561.7916	1657874.8211

ALIGN	STATION	OFFSET	NORTH	EAST
Y15	13+50.00	25.00	876540.8811	1660360.7127
Y15	13+50.00	37.00	876529.4159	1660357.1705
Y15	13+50.00	-25.00	876588.6531	1660375.4722
Y15	13+50.00	-37.00	876680.1184	1660379.8145
Y15	14+30.00	37.00	876585.0886	1660433.6856
Y15	14+50.53	-37.00	876570.4430	1660475.8647

ALIGN	STATION	OFFSET	NORTH	EAST
Y16	12+20.24	-30.00	877319.1620	1661536.7582
Y16	13+82.95	-38.26	877481.9837	1661544.3648

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	13+39.65	-30.00	863989.9766	1649971.0298
Y2	13+50.00	30.00	863896.5497	1649941.8299

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	10+94.58	-30.00	864168.8815	1650443.3937
Y3	10+95.00	-30.00	864205.5543	1650483.4401

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	13+27.75	-26.94	865629.8839	1651922.3140

ALIGN	STATION	OFFSET	NORTH	EAST
Y5	12+15.53	-30.00	868796.0306	1652919.4903
Y5	12+77.72	40.00	868733.0451	1652918.7982
Y5	14+00.00	60.00	868108.1868	1652921.9130
Y5	22+71.59	60.00	867802.9889	1653168.8029
Y5	22+71.59	-40.00	867879.8023	1653232.8438

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RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-2577A	RW03E-3
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 March 2021 to November 2021, and all coordinates are based on NAD83/2011; that this survey was performed to meet the requirements of 21NCCAC 56.1600 as applicable.

This 19th day of December, 2023.

Michael L. Molsinger
Professional Land Surveyor L-3877



ALIGN	STATION	OFFSET	NORTH	EAST
L2	280-57.00	71.69	877494.2889	1661821.5525
L2	287-70.31	86.33	877681.6389	1661478.8545
L2	287-75.00	86.73	877680.8739	1661484.0010
L2	287-80.78	189.01	877762.6278	1661471.3461
L2	287-87.84	184.25	877785.3226	1661478.8786
L2	288-75.00	75.00	877726.7189	1661516.4878
L2	288-49.00	75.00	877624.1541	1661651.9378
L2	289-00.00	75.00	877673.5269	1661704.4827
L2	289-21.94	91.33	877662.5323	1661704.4827
L2	289-22.00	96.30	877676.2629	1661718.8932
L2	289-22.00	75.00	877681.1978	1661704.4827
L2	212-80.00	75.00	877892.6589	1661887.8794
L2	212-80.00	77.00	877871.2462	1661889.2493
L2	215-65.00	65.00	878166.1934	1662132.2155
L2	215-65.00	75.00	878122.5575	1662124.5282
L2	215-70.00	85.00	878186.3543	1662148.2258
L2	217-87.00	180.00	878324.7312	1662292.3189
L2	218-37.00	75.00	878358.7325	1662273.1288
L2	218-37.00	180.00	878365.4526	1662317.9272
L2	218-37.00	27.81	878314.4538	1662286.1231
L2	220-70.00	75.00	878954.7426	1662788.9542
L2	220-65.00	80.00	878824.4389	1662851.7773
L2	227-95.00	148.00	878075.6138	1662662.1640
L2	228-43.00	150.00	878186.8746	1663088.5882
L2	228-95.00	260.00	878086.6551	1663132.6815
L2	228-70.00	157.00	878137.6894	1663036.8556
L2	228-70.00	147.00	878144.8934	1663088.3753
L2	229-00.00	225.00	878181.8219	1663094.8868
L2	229-05.00	197.00	878144.2899	1663045.6617
L2	229-05.00	223.00	878186.8641	1663094.8868
L2	229-05.00	147.00	878155.6148	1663037.9814
L2	229-15.00	225.00	878113.1424	1663184.9022
L2	230-46.00	75.00	878318.2154	1663073.8827
L2	231-62.00	77.00	878423.6888	1663167.8983
L2	231-62.00	75.00	878423.9455	1663166.1424
L2	232-81.00	75.00	878438.9486	1663171.8316
L2	232-81.00	77.00	878428.4639	1663174.8453
L2	234-15.00	75.00	878694.9138	1663285.4762
L2	234-15.00	82.90	878695.8684	1663311.7170
L2	234-24.00	75.00	878648.4529	1663314.2548
L2	234-24.00	75.00	878687.8713	1663311.8266
L2	235-18.00	129.00	878778.8485	1663226.4438
L2	235-18.00	129.00	878744.8811	1663288.8524
L2	235-50.00	150.00	878884.9353	1663253.7444
L2	235-50.00	129.00	878623.8239	1663331.1523
L2	236-14.00	91.14	878784.4258	1663339.7447
L2	236-14.00	84.42	878784.4258	1663331.1523
L2	236-24.00	84.15	878747.5769	1663444.2359
L2	236-24.00	88.84	878762.6248	1663437.6394
L2	237-56.00	84.86	878951.2862	1663396.2555
L2	237-56.00	85.26	878958.5369	1663388.8658
L2	237-56.00	84.86	878941.7388	1663485.4688
L2	237-56.00	158.28	880013.8442	1663376.8798
L2	238-65.00	84.00	878984.8844	1663386.5882
L2	239-00.00	85.27	878968.9889	1663430.2443
L2	239-28.00	129.00	878971.3328	1663448.6225
L2	240-80.00	119.00	880188.8882	1663589.6844
L2	240-80.00	119.00	880289.7188	1663544.8395
L2	240-70.00	118.00	880232.2383	1663563.1218
L2	240-70.00	78.65	880211.1982	1663588.9653

ALIGN	STATION	OFFSET	NORTH	EAST
Y1A	11-72.00	43.14	862256.9484	1648699.6464
Y1A	11-80.00	67.87	862252.8869	1648717.2427
Y1A	11-80.00	38.81	862333.8385	1648658.8849
Y1A	11-94.00	44.80	862383.3883	1648738.1453
Y1A	11-94.00	44.80	862295.4311	1648716.8549
Y1A	12-88.38	161.84	862442.6588	1648972.7489

ALIGN	STATION	OFFSET	NORTH	EAST
Y1B	12-82.00	76.89	862694.5173	1649446.9728
Y1B	12-82.00	76.48	862692.4388	1649446.9728
Y1B	12-13.00	88.73	862692.6394	1649464.8594
Y1B	12-13.00	81.08	862714.8474	1649456.8288
Y1B	12-32.00	48.87	862731.6884	1649574.9114
Y1B	12-32.00	54.29	862724.2865	1649579.8666
Y1B	12-32.00	109.08	862914.8849	1649688.8748
Y1B	14-68.00	69.51	862943.9372	1649742.8118
Y1B	14-78.34	29.38	862988.8287	1649716.1292
Y1B	14-78.91	57.62	862824.6431	1649789.8742
Y1B	14-79.42	24.80	862891.9446	1649784.5899
Y1B	14-87.76	92.24	862828.4223	1649786.9946
Y1B	15-85.00	58.00	862898.4838	1649838.9232
Y1B	15-85.00	38.00	862818.1788	1649887.4447
Y1B	16-18.00	88.00	862825.2891	1649928.7599
Y1B	16-25.00	38.00	862877.1368	1649938.8351
Y1B	16-25.00	65.00	862841.6846	1649932.9864
Y1B	17-86.00	69.14	862988.4286	1649989.9448
Y1B	17-86.00	75.28	862988.8636	1649988.8788
Y1B	19-75.00	58.00	862987.8128	1650272.9343
Y1B	19-75.00	46.62	862973.5127	1650274.8884

ALIGN	STATION	OFFSET	NORTH	EAST
Y1C	11-81.00	42.48	862414.7287	1648898.8811
Y1C	11-81.00	38.00	862485.6288	1648882.1933
Y1C	11-86.00	42.83	862411.5328	1648893.6122

ALIGN	STATION	OFFSET	NORTH	EAST
Y1D	12-85.43	78.88	862945.5282	1649885.3682
Y1D	12-86.00	67.87	862847.8817	1649887.8288
Y1D	12-86.00	35.96	862824.3916	1649887.8288

ALIGN	STATION	OFFSET	NORTH	EAST
Y1E	12-86.20	78.27	862915.4428	1649913.1237
Y1E	14-34.00	72.42	862862.5415	1649918.1833
Y1E	14-34.00	62.61	862859.7481	1649925.4368
Y1E	14-42.00	63.66	862845.1132	1649918.8711
Y1E	14-42.00	74.18	862856.7461	1649918.8711
Y1E	15-16.00	181.13	862963.8634	1649933.4812
Y1E	15-18.00	98.36	862578.8225	1649843.4425
Y1E	15-26.00	96.88	862570.4287	1649834.9812
Y1E	15-26.00	196.80	862574.2868	1649824.7633

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	11-80.00	38.00	864282.2426	1658487.1868
Y3	11-15.00	48.00	864194.7952	1658505.8474
Y3	11-15.00	38.00	864152.3873	1658498.4239
Y3	11-25.00	38.00	864185.6838	1658505.8474
Y3	11-25.00	48.00	864193.1757	1658512.5314
Y3	11-38.78	74.18	864898.4884	1658447.3814
Y3	11-38.78	88.00	864311.5528	1658475.2416

ALIGN	STATION	OFFSET	NORTH	EAST
Y5	19-78.00	90.00	868865.2966	1658711.1237
Y5	19-78.00	90.00	868827.7788	1652433.5324
Y5	21-80.00	105.00	867882.9928	1653085.4148
Y5	22-38.00	65.00	867824.4687	1653214.6474
Y5	22-38.00	48.00	867889.9789	1653285.8122
Y5	22-38.00	105.00	867788.7858	1653185.1678
Y5	22-71.59	185.00	867768.4373	1653179.8845
Y5	22-87.85	75.00	867896.2753	1653267.7488

ALIGN	STATION	OFFSET	NORTH	EAST
Y5A	15-92.00	78.00	868187.8151	1652872.3673

ALIGN	STATION	OFFSET	NORTH	EAST
Y7	13-35.00	158.00	867956.2888	1653824.8882
Y7	13-35.00	158.00	867956.4367	1653834.1215
Y7	13-68.00	32.24	867847.8278	1653843.8431
Y7	13-68.00	128.00	867917.4438	1653838.2555
Y7	13-78.00	208.00	867976.6378	1653932.8959
Y7	13-78.00	208.00	867962.2626	1653933.3316
Y7	13-99.82	208.00	867958.3838	1653975.3516

ALIGN	STATION	OFFSET	NORTH	EAST
Y8	11-80.00	46.88	868384.8588	1653878.2486
Y8	11-78.00	38.00	868272.5638	1653954.1982
Y8	11-78.00	48.00	868364.8787	1653947.7782
Y8	11-76.11	75.00	868237.9938	1653925.3927
Y8	11-75.00	45.00	868336.9578	1653986.1733
Y8	11-75.00	38.00	868315.3564	1653994.5434
Y8	12-80.00	38.00	868253.2848	1653977.1114
Y8	12-80.00	48.00	868245.6369	1653976.7718
Y8	12-90.00	75.00	868218.8821	1653948.3817
Y8	12-32.00	38.00	868232.7681	1653981.7261
Y8	12-32.00	34.00	868229.6933	1653994.1581


ALIGN	STATION	OFFSET	NORTH	EAST
Y9	13-58.00	38.00	869563.4888	1654483.6183
Y9	13-58.00	45.00	869574.1685	1654494.1513
Y9	14-25.00	75.00	869546.8718	1654462.2866
Y9	14-25.00	38.00	869468.8771	1654494.8954
Y9	14-58.00	168.00	869514.6287	1654575.8826
Y9	14-78.00	88.00	869514.8155	1654684.1662

ALIGN	STATION	OFFSET	NORTH	EAST
Y10	11-62.00	38.83	878231.1825	1659582.1431

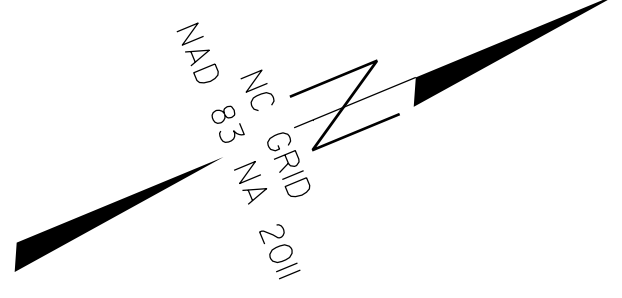
ALIGN	STATION	OFFSET	NORTH	EAST
Y11	11-87.00	228.00	878682.7598	1659227.8238
Y11	12-80.00	58.00	878788.6782	1659291.4822
Y11	12-80.00	38.00	878745.9387	1659364.3488
Y11	12-80.00	38.00	878788.7117	1659486.7734
Y11	12-85.00	58.00	878884.8242	1659476.6382
Y11	12-85.45	238.00	878986.7867	1659242.9255
Y11	12-37.84	38.00	878729.8888	1659395.6648
Y11	13-85.00	58.00	878688.2323	1659557.4515
Y11</				

Location and Surveys

PROJECT SURVEYOR



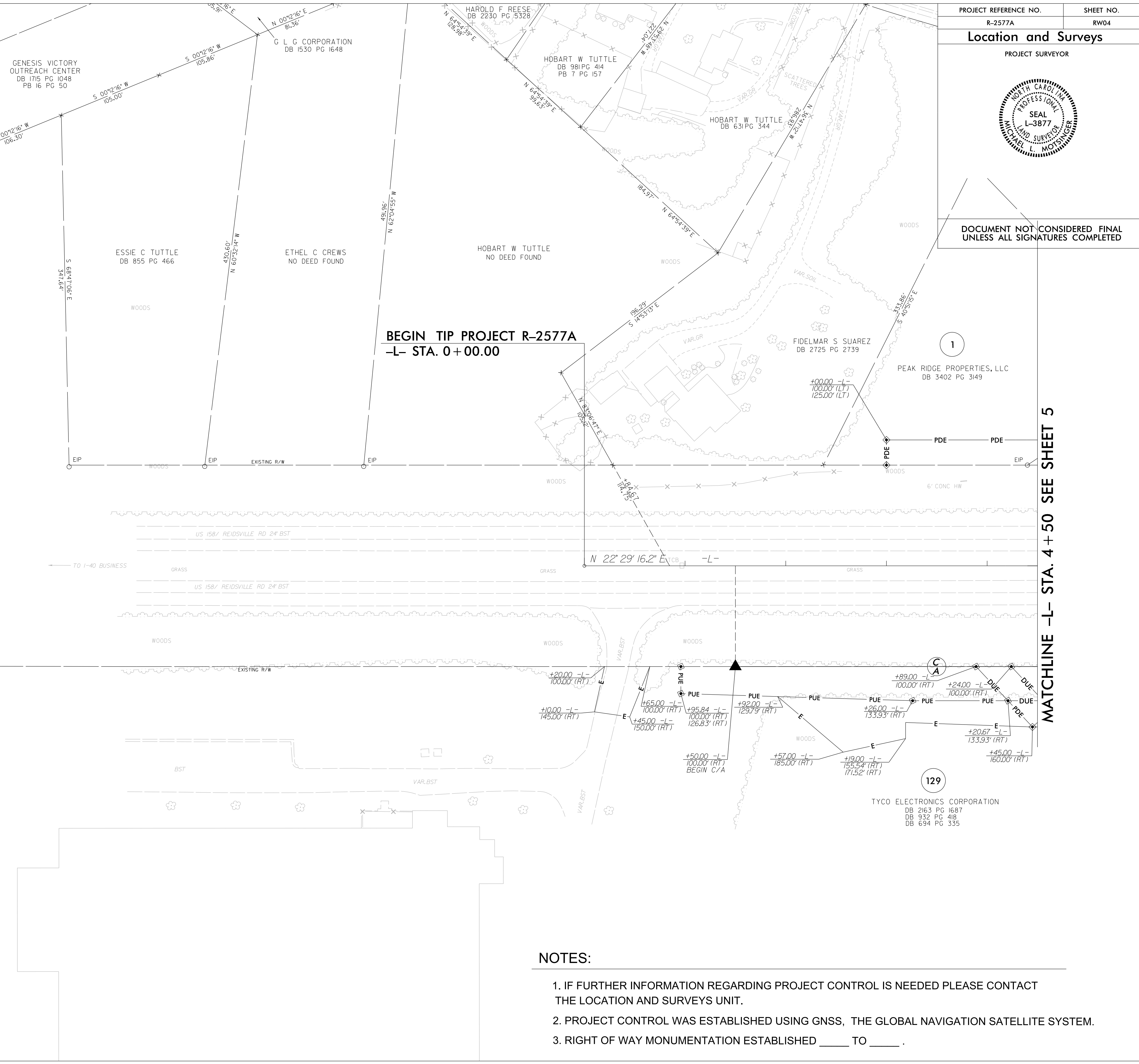
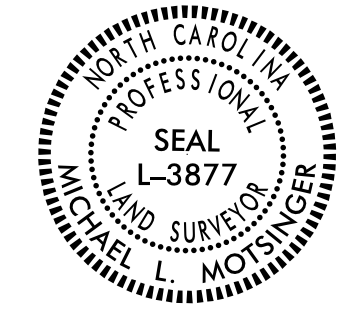
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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 March 2021 to November 2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCA 56.1600 as applicable.

This 19th day of December, 2023.

DocuSigned by:
Michael L. Motsinger
 F0B6FE7E23C40E
 Professional Land Surveyor L-3877



REVISIONS

MATCHLINE -L- STA. 4 + 50 SEE SHEET 5

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 ____.

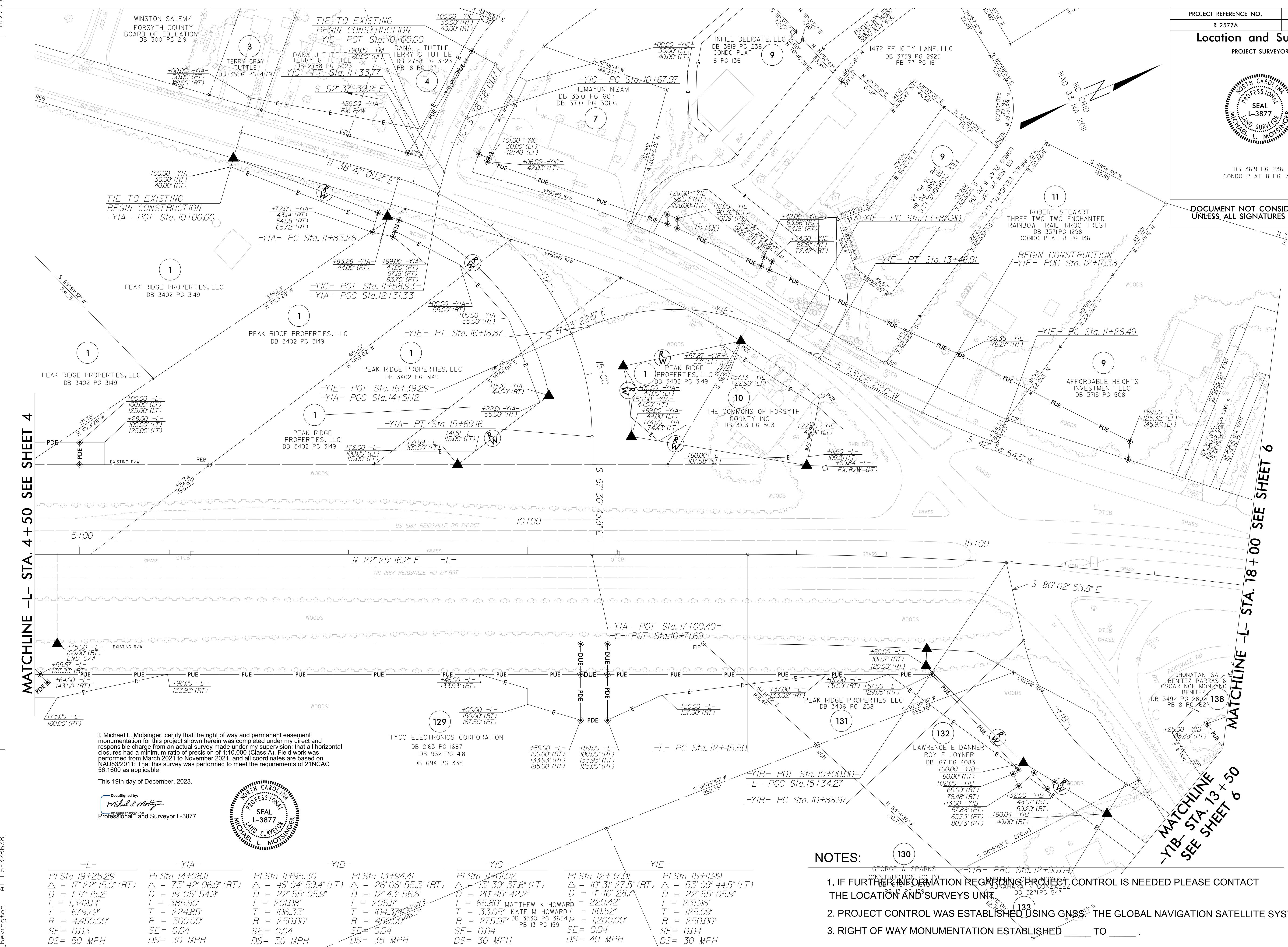
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 AT LS-3286081 Bevington

Location and Surveys

PROJECT SURVEYOR

DB 3619 PG 236
CONDO PLAT 8 PG 136

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



REVISIONS

MATCHLINE -L- STA. 4+50 SEE SHEET 4

MATCHLINE -L- STA. 18+00 SEE SHEET 6

MATCHLINE -YIB- STA. 13+50 SEE SHEET 6

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 March 2021 to November 2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 19th day of December, 2023.

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



-L-	-YIA-	-YIB-	-YIC-	-YIE-
PI Sta 19+25.29 Δ = 17° 22' 15.0" (RT) D = 17' 15.2" L = 1,349.14' T = 679.79' R = 4,450.00' SE = 0.03 DS = 50 MPH	PI Sta 14+08.11 Δ = 73° 42' 06.9" (RT) D = 19' 05' 54.9" L = 385.90' T = 224.85' R = 300.00' SE = 0.04 DS = 30 MPH	PI Sta 11+95.30 Δ = 46° 04' 59.4" (LT) D = 22° 55' 05.9" L = 201.08' T = 106.33' R = 250.00' SE = 0.04 DS = 30 MPH	PI Sta 13+94.41 Δ = 26° 06' 55.3" (RT) D = 12° 43' 56.6" L = 205.11' T = 104.37' R = 450.00' SE = 0.04 DS = 35 MPH	PI Sta 11+01.02 Δ = 13° 39' 37.6" (LT) D = 20° 45' 42.2" L = 65.80' T = 33.05' R = 275.97' SE = 0.04 DS = 30 MPH
PI Sta 12+37.01 Δ = 10° 31' 27.5" (RT) D = 4° 46' 28.7" L = 220.42' T = 110.52' R = 1,200.00' SE = 0.04 DS = 40 MPH	PI Sta 15+11.99 Δ = 53° 09' 44.5" (LT) D = 22° 55' 05.9" L = 231.96' T = 125.09' R = 250.00' SE = 0.04 DS = 30 MPH	PI Sta 10+00.00 Δ = 17° 22' 15.0" (RT) D = 17' 15.2" L = 1,349.14' T = 679.79' R = 4,450.00' SE = 0.03 DS = 50 MPH	PI Sta 12+37.01 Δ = 10° 31' 27.5" (RT) D = 4° 46' 28.7" L = 220.42' T = 110.52' R = 1,200.00' SE = 0.04 DS = 40 MPH	PI Sta 15+11.99 Δ = 53° 09' 44.5" (LT) D = 22° 55' 05.9" L = 231.96' T = 125.09' R = 250.00' SE = 0.04 DS = 30 MPH

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 _____.

B:\DEC-2023\01545\Winston_Ruths Computer\Drawings\2577A\Right of Way\Contra-01Sheets.231214\Files Pulled 2023-12-13\AR-2577A_rdy_psh05.dgn
 AT LS-3246081



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

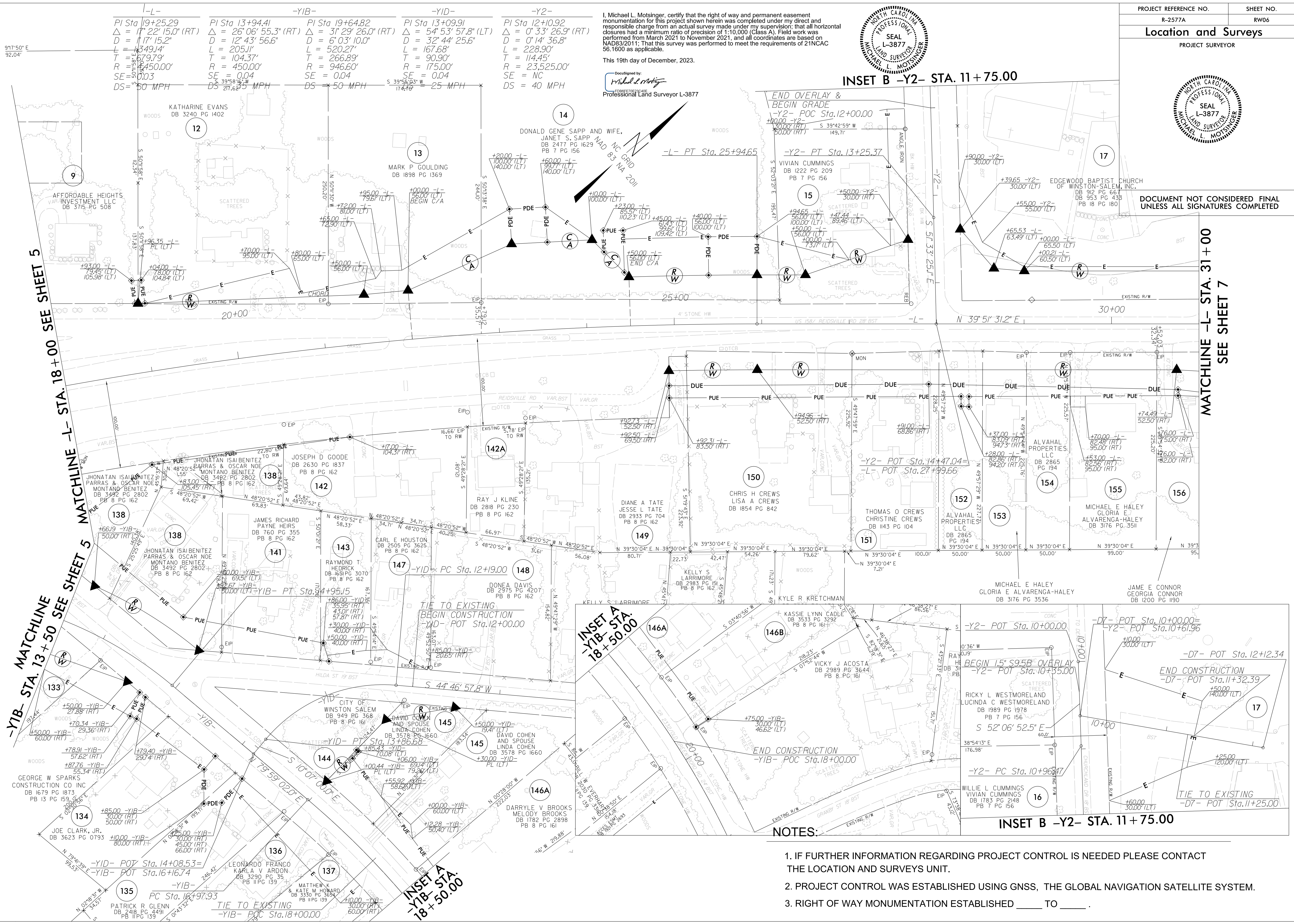
MATCHLINE -L- STA. 31+00
SEE SHEET 7

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 March 2021 to November 2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 19th day of December, 2023.
 Michael L. Molsinger
 Professional Land Surveyor L-3877



INSET B -Y2- STA. 11+75.00



INSET A -Y1B- STA. 18+50.00

INSET B -Y2- STA. 11+75.00

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 _____.

REVISIONS

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 AT 15:32:46:08

MATCHLINE -L- STA. 18+00 SEE SHEET 5

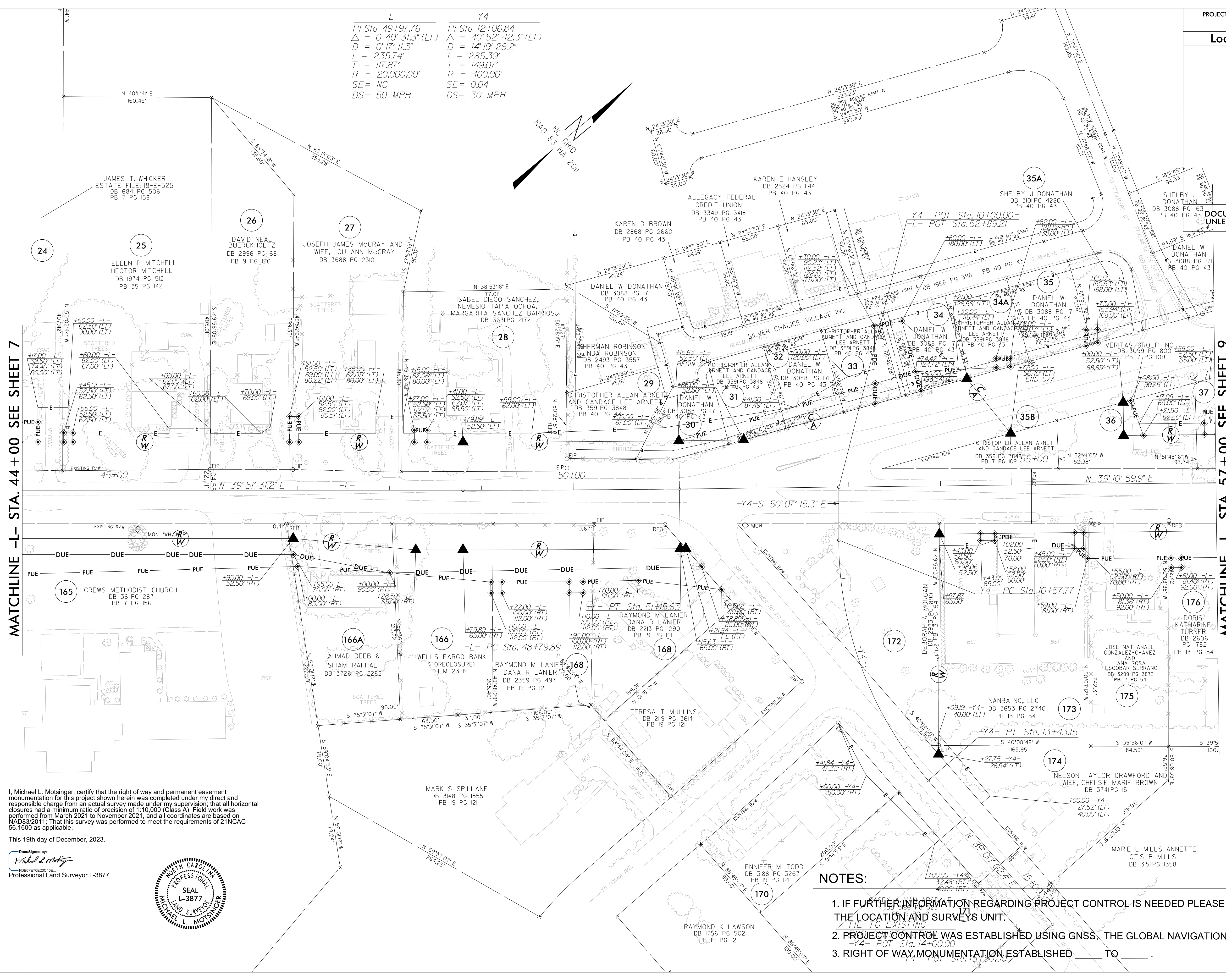
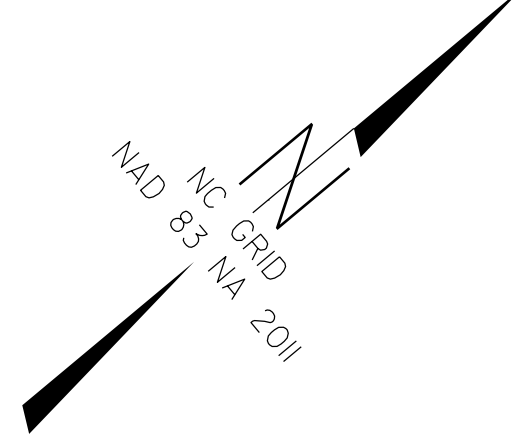
MATCHLINE -Y1B- STA. 13+50 SEE SHEET 5

INSET A -Y1B- STA. 18+50.00



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

-L-	-Y4-
PI Sta 49+97.76	PI Sta 12+06.84
$\Delta = 0' 40' 31.3" (LT)$	$\Delta = 40' 52' 42.3" (LT)$
$D = 0' 17' 11.3"$	$D = 14' 19' 26.2"$
$L = 235.74'$	$L = 285.39'$
$T = 117.87'$	$T = 149.07'$
$R = 20,000.00'$	$R = 400.00'$
$SE = NC$	$SE = 0.04$
$DS = 50 MPH$	$DS = 30 MPH$



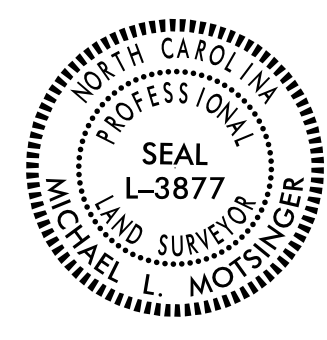
MATCHLINE -L- STA. 44 + 00 SEE SHEET 7

MATCHLINE -L- STA. 57 + 00 SEE SHEET 9

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 March 2021 to November 2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 19th day of December, 2023.

Designed by
Michael L. Molsinger
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 _____

6/2/2019
6/2/2023
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AT LS-326081
Bevington

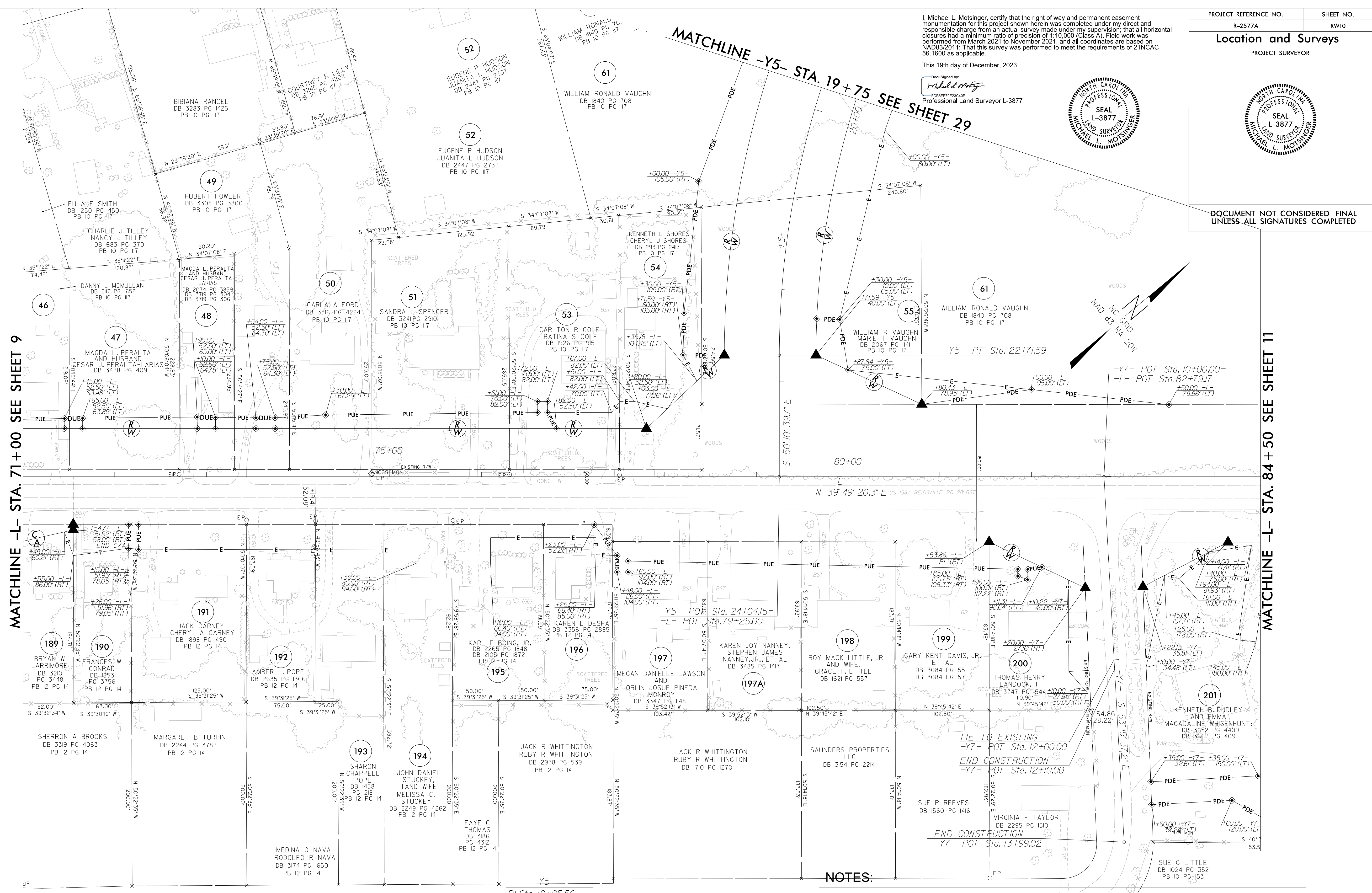
PROJECT REFERENCE NO.	SHEET NO.
R-2577A	RW10
Location and Surveys	
PROJECT SURVEYOR	

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 March 2021 to November 2021, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 19th day of December, 2023.

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



MATCHLINE -L- STA. 71 + 00 SEE SHEET 9

MATCHLINE -L- STA. 84 + 50 SEE SHEET 11

MATCHLINE -Y5- STA. 19 + 75 SEE SHEET 29

PI Sta 18+25.56
 $\Delta = 59' 56'' 31.1''$ (LT)
 $D = 6' 01'' 52.1''$
 $L = 993.88'$
 $T = 547.84'$
 $R = 950.00'$
 $SE = 0.04$
 $DS = 35$ MPH

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 _____

TIE TO EXISTING
 -Y7- POT Sta. 12+00.00
 END CONSTRUCTION
 -Y7- POT Sta. 12+10.00

END CONSTRUCTION
 -Y7- POT Sta. 13+99.02

-Y7- POT Sta. 10+00.00=
 -L- POT Sta. 82+79.17
 +50.00 -L-
 78.68' (LT)

-Y5- POT Sta. 24+04.15=
 -L- POT Sta. 79+25.00

-Y5- PT Sta. 22+71.59

Location and Surveys
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

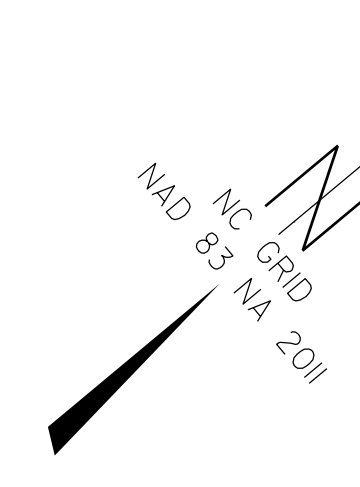
I, Michael L. Molsinger, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from March 2021 to November 2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 19th day of December, 2023.

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



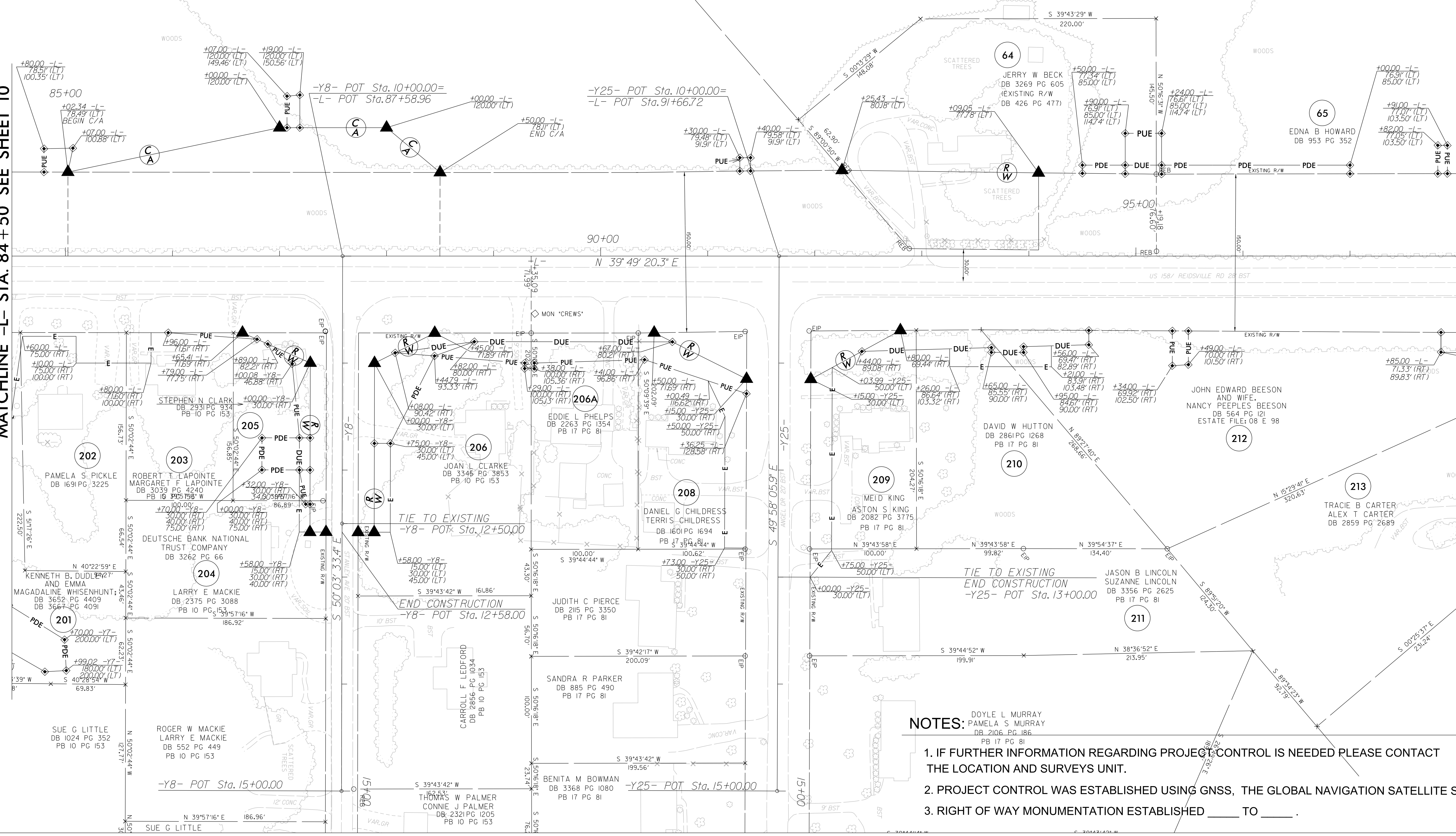
6/2/09



61
WILLIAM RONALD VAUGHN
DB 1840 PG 708
PB 10 PG 117

MATCHLINE -L- STA. 84 +50 SEE SHEET 10

MATCHLINE -L- STA. 98 +00 SEE SHEET 12




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

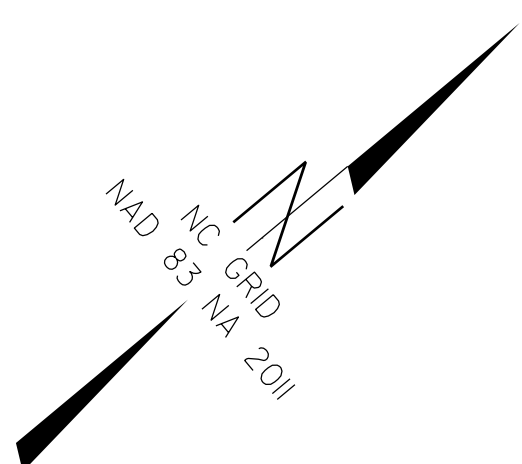
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AT LS-3286081

Location and Surveys
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

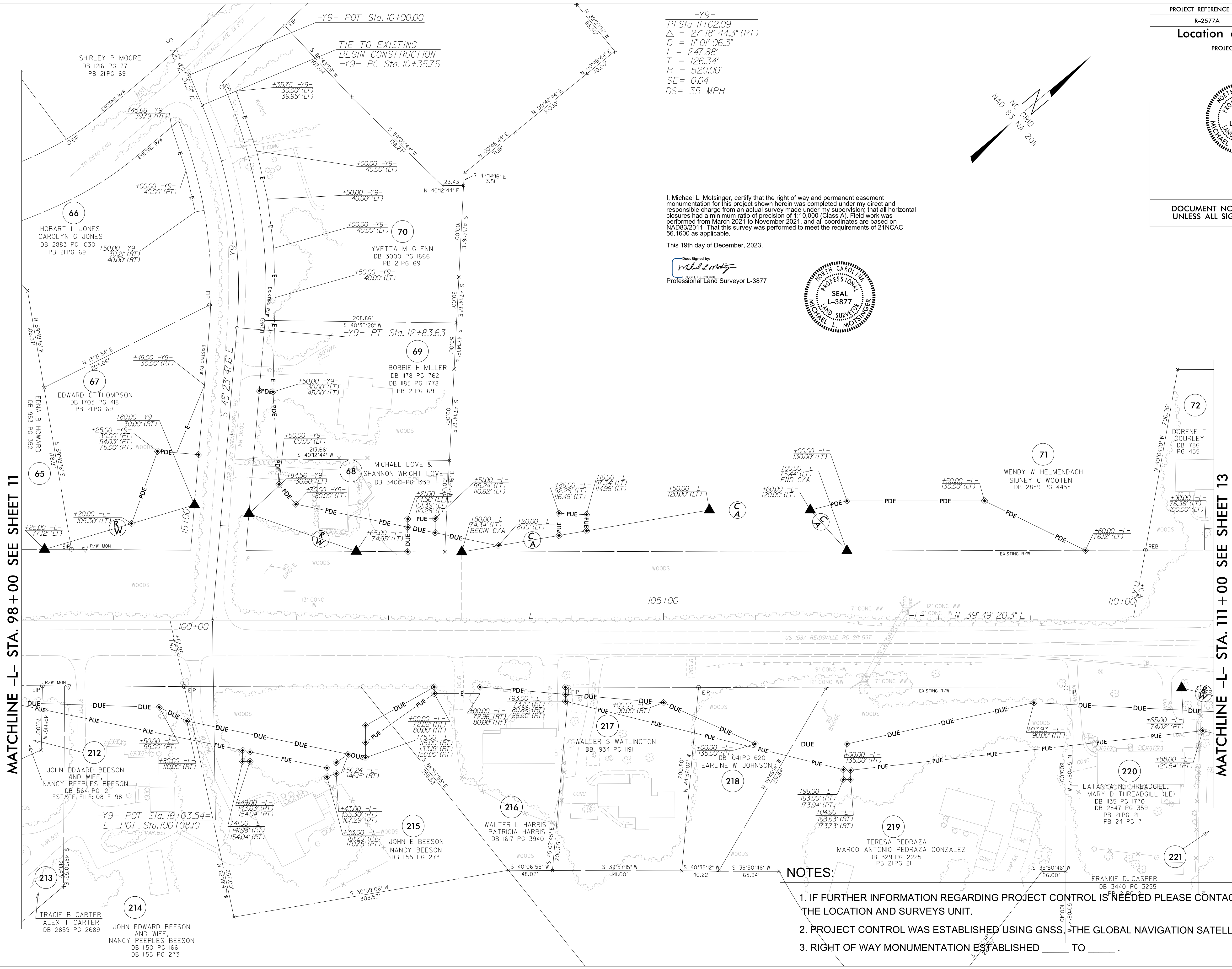
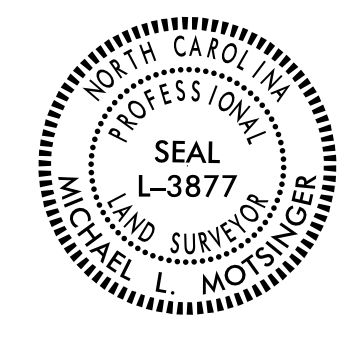
-Y9-
PI Sta 11+62.09
Δ = 27°18'44.3" (RT)
D = 11°01'06.3"
L = 247.88'
T = 126.34'
R = 520.00'
SE = 0.04
DS = 35 MPH



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 March 2021 to November 2021, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 19th day of December, 2023.

DocuSigned by:
Michael Mottsinger
Professional Land Surveyor L-3877



MATCHLINE -L- STA. 98 + 00 SEE SHEET 11

MATCHLINE -L- STA. 111 + 00 SEE SHEET 13


- 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 _____.

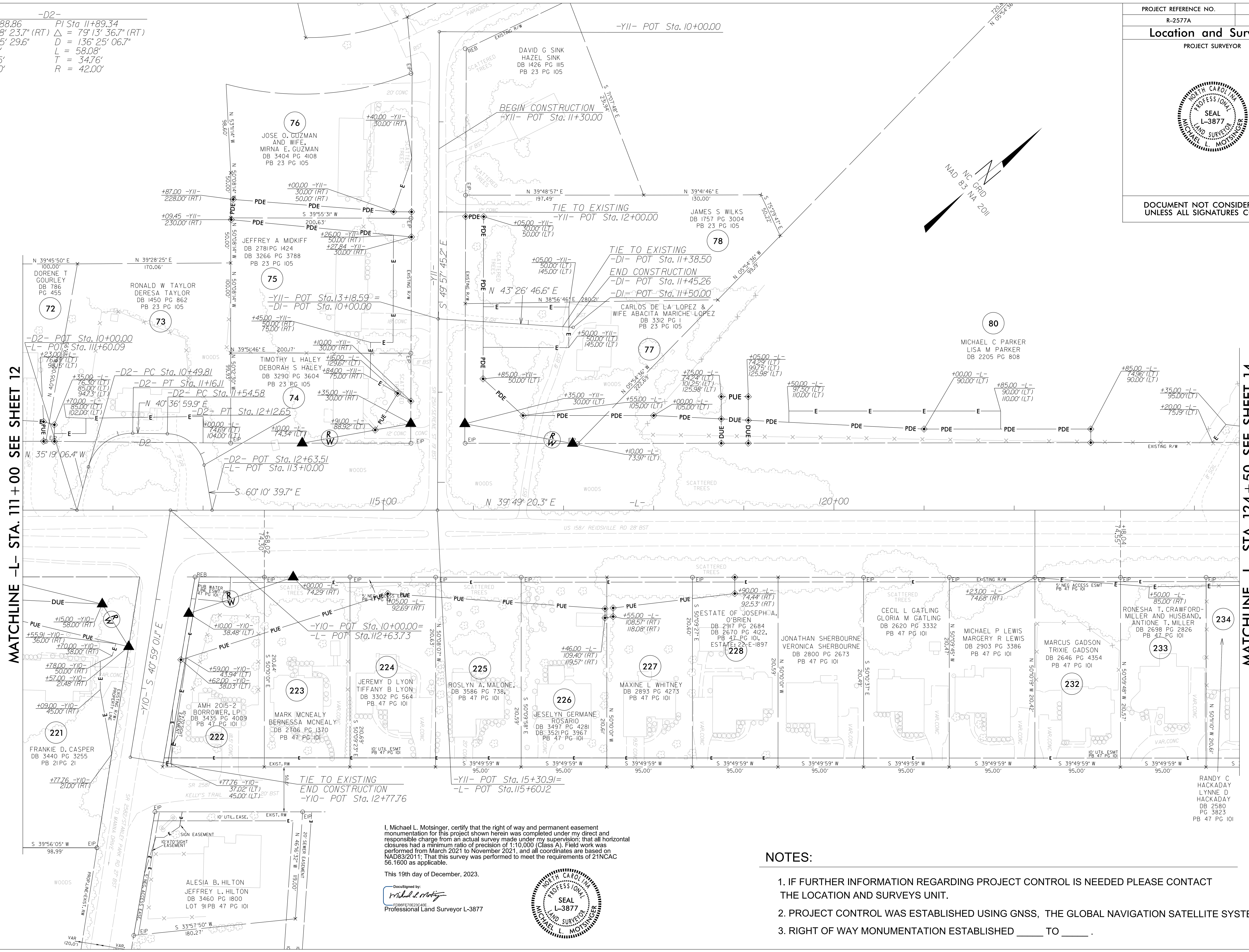
REVISIONS

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6/2/2023

6/2/09
 6/2/2023
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 AT LS-3246081
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 6/2/2023
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 AT LS-3246081

-D2-
 PI Sta 10+88.86 Δ = 75° 58' 23.7" (RT) D = 136° 25' 06.7" L = 66.30' T = 39.05' R = 50.00'
 PI Sta 11+89.34 Δ = 79° 13' 36.7" (RT) D = 136° 25' 06.7" L = 58.08' T = 34.76' R = 42.00'

PROJECT REFERENCE NO. R-2577A	SHEET NO. RW13
Location and Surveys	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



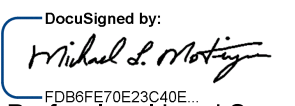
REVISIONS

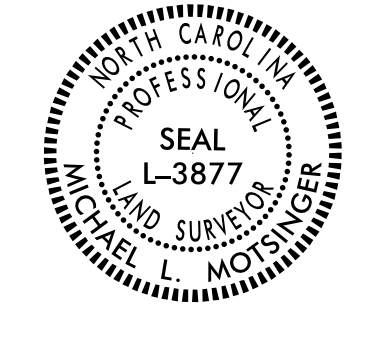
MATCHLINE -L- STA. 111+00 SEE SHEET 12

MATCHLINE -L- STA. 124+50 SEE SHEET 14

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 March 2021 to November 2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 19th day of December, 2023.

DocuSigned 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 ____.