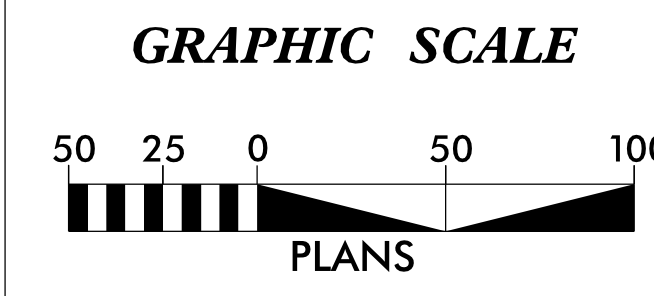
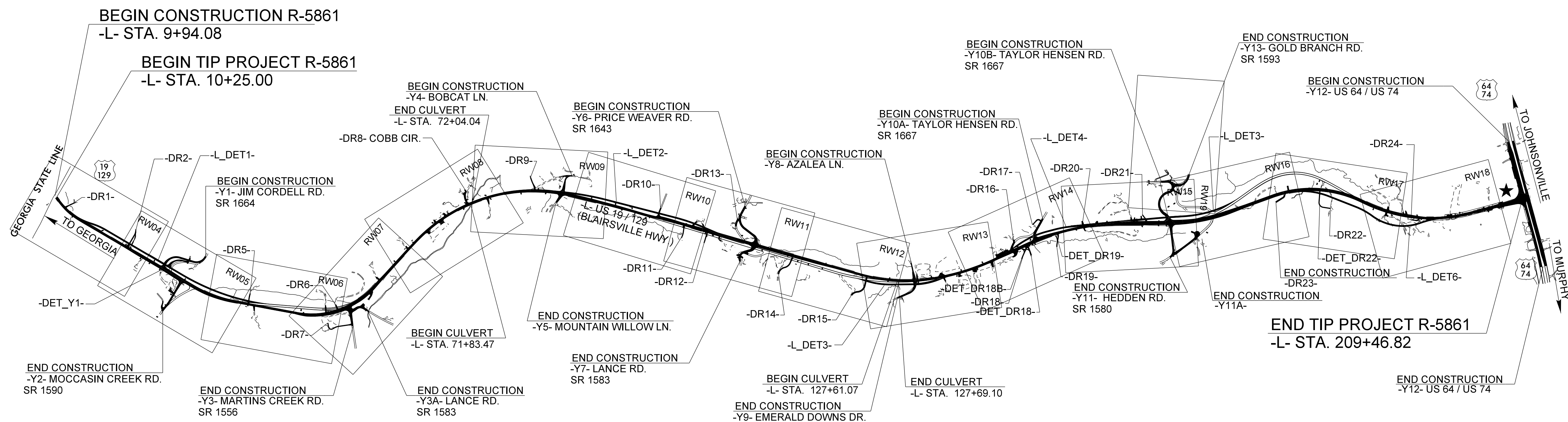
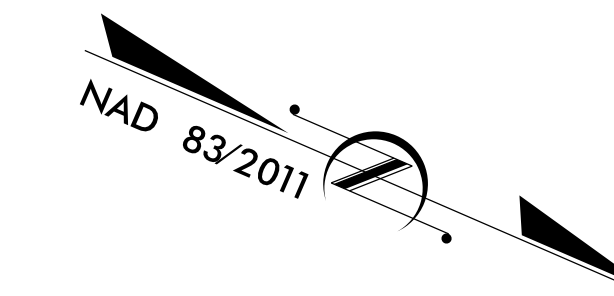


STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 SURVEY CONTROL, EXISTING CENTERLINES,
 RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

CHEROKEE COUNTY

TIP PROJECT: R-5861



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R5861-5" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 500,131.564(ft) EASTING: 477,308.680(ft) ELEVATION: 1,684.35(ft)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999806199
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R5861-5" TO -L- STATION 9+94.08 IS S 18-43'17.0" E 11,627.33(ft)
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

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

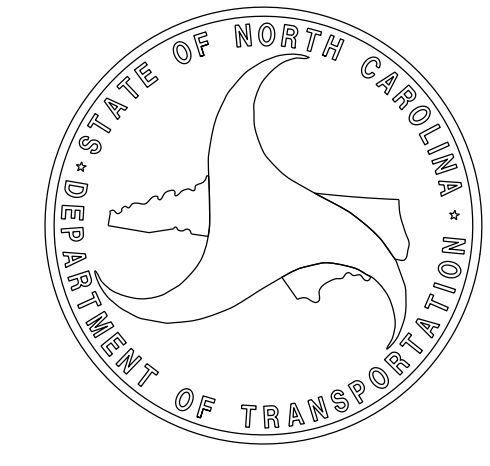
2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: 04/30/2020
LETTING DATE: 12/22/2022


PROFESSIONAL LAND SURVEYOR

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 SIGNATURE:

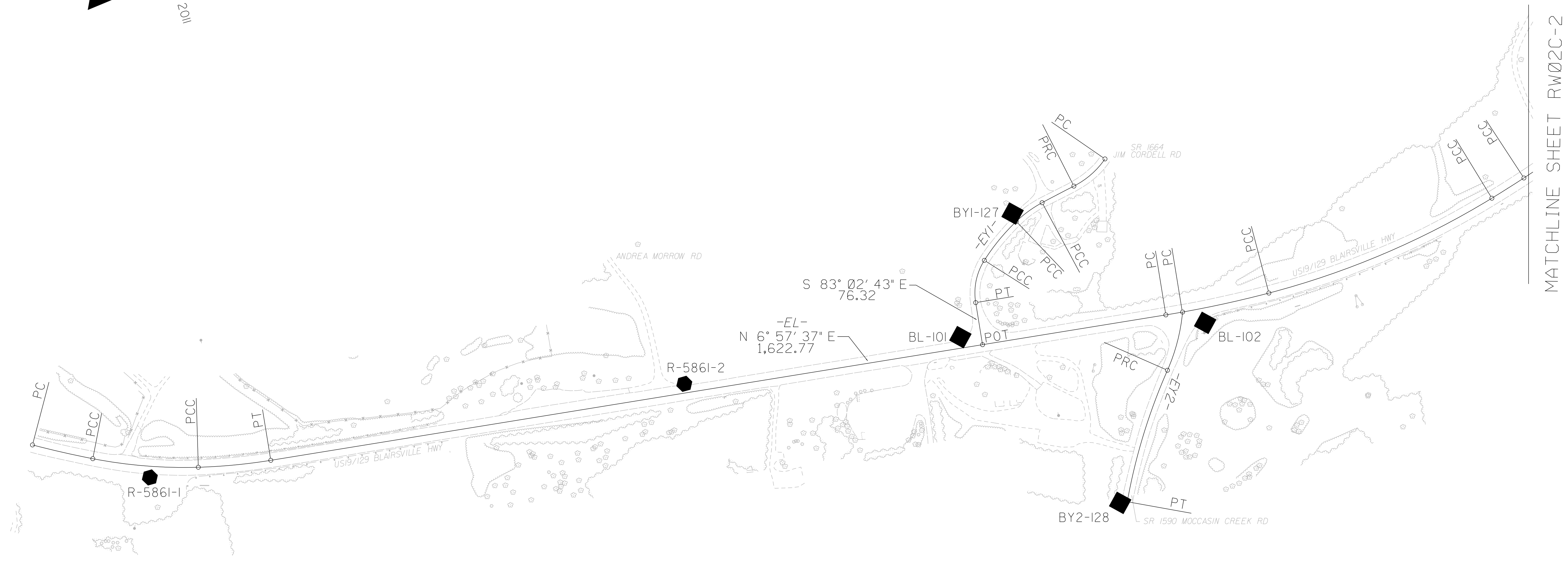
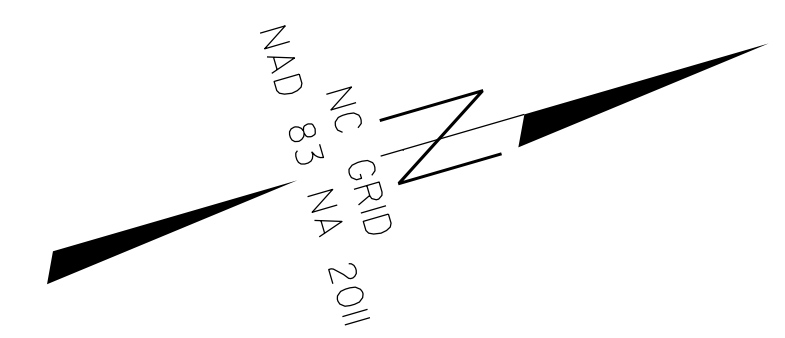


\$\$\$\$\$ SYSTEM TIME\$\$\$\$\$
 \$\$\$ DDNN\$\$\$\$\$
 \$\$\$ USERNAME\$\$\$\$\$

PROJECT REFERENCE NO.	SHEET NO.
R-5861	RW02C-1
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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

NOTES:

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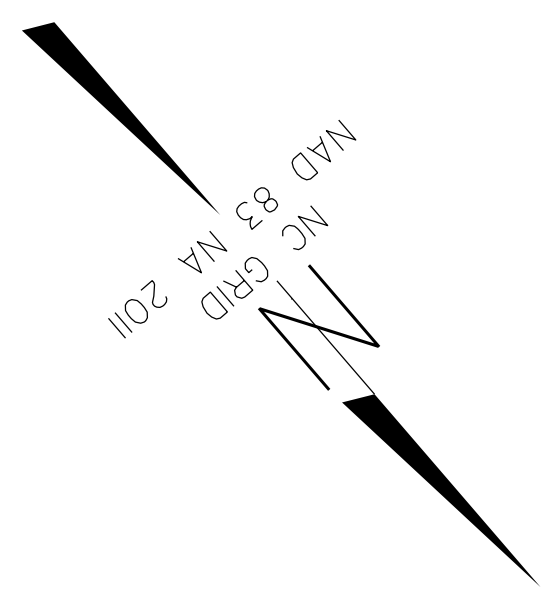
REVISIONS

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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


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REVISIONS

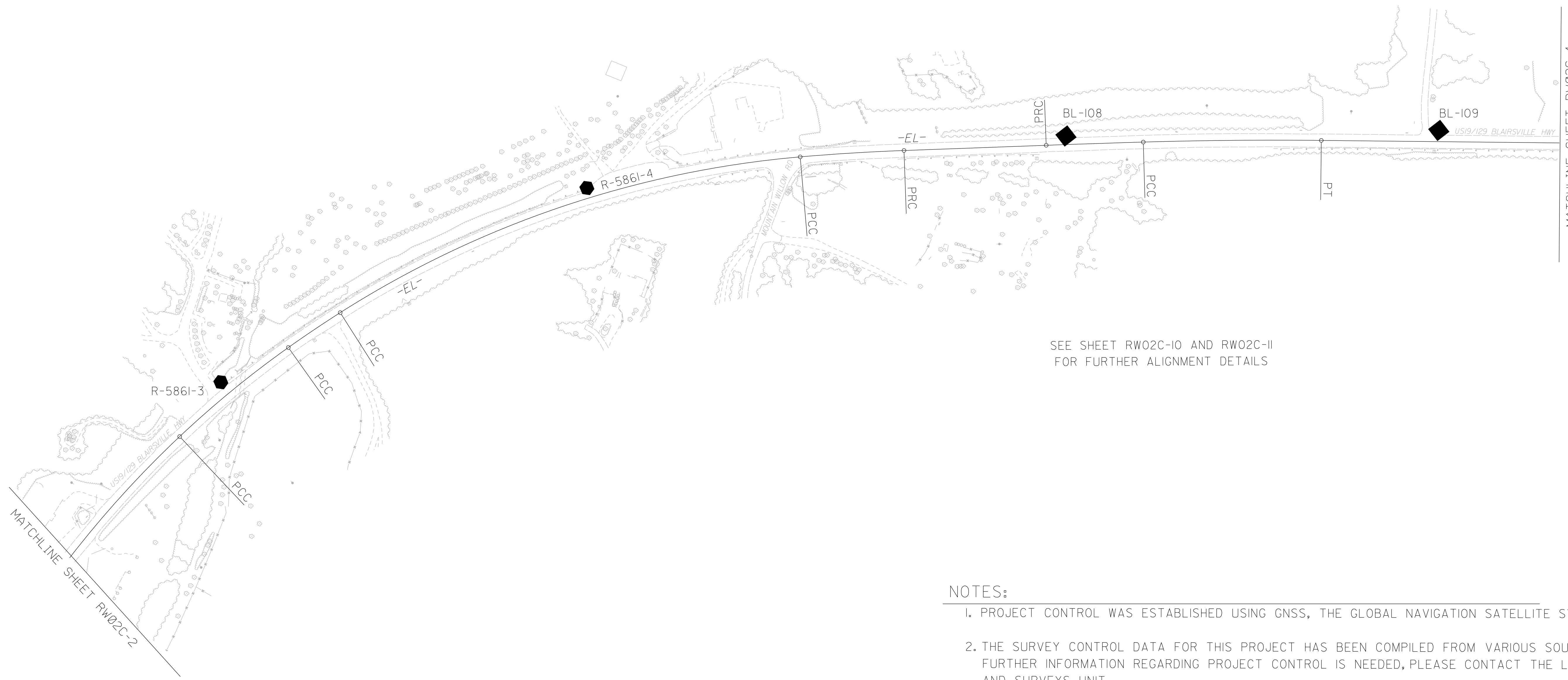
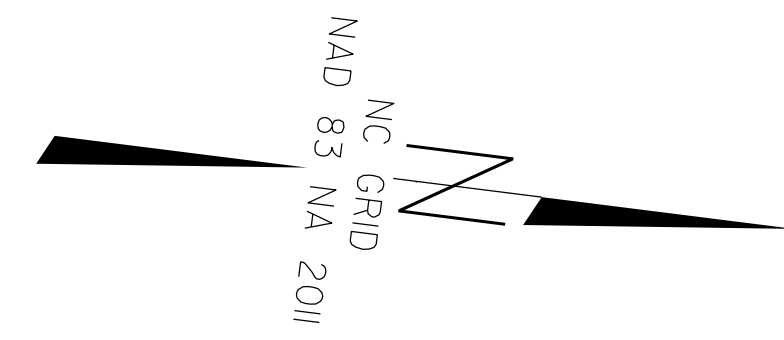
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PROJECT REFERENCE NO.	SHEET NO.
R-5861	RW02C-3
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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

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REVISIONS


6/2/19

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 csharlett 01/15/2021

MATCHLINE SHEET RW02C-2

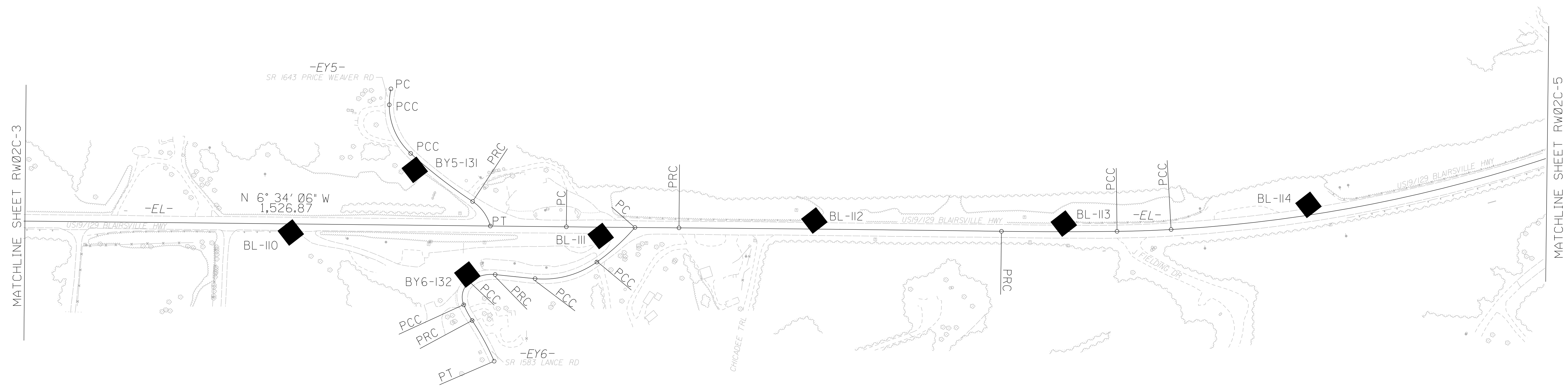
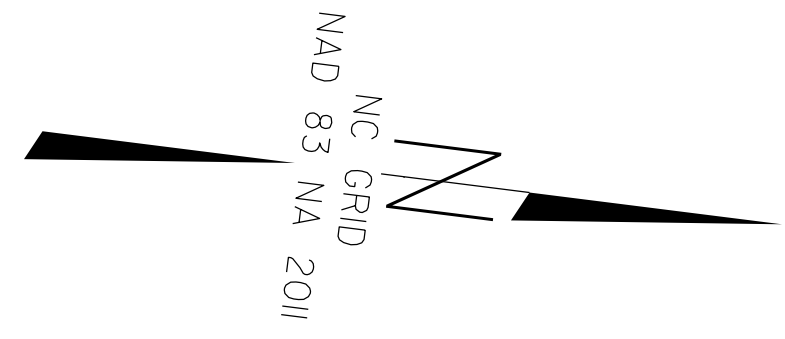
MATCHLINE SHEET RW02C-4

6/2/99

PROJECT REFERENCE NO. R-5861	SHEET NO. RW02C-4
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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

NOTES:

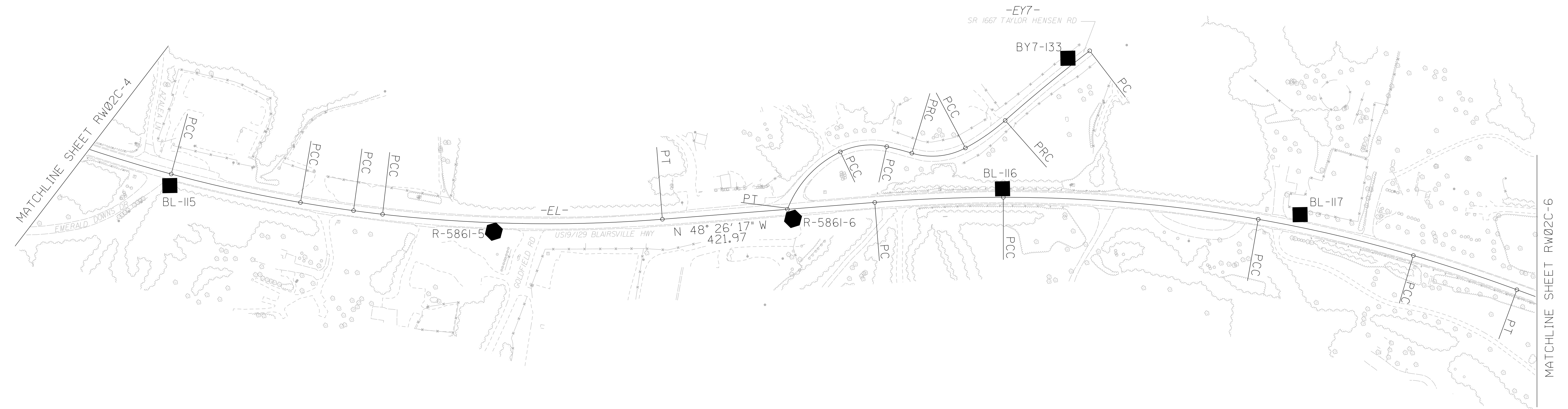
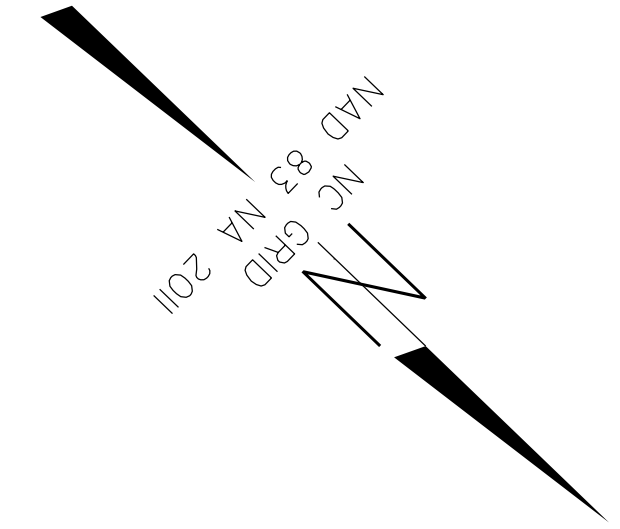
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REVISIONS

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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

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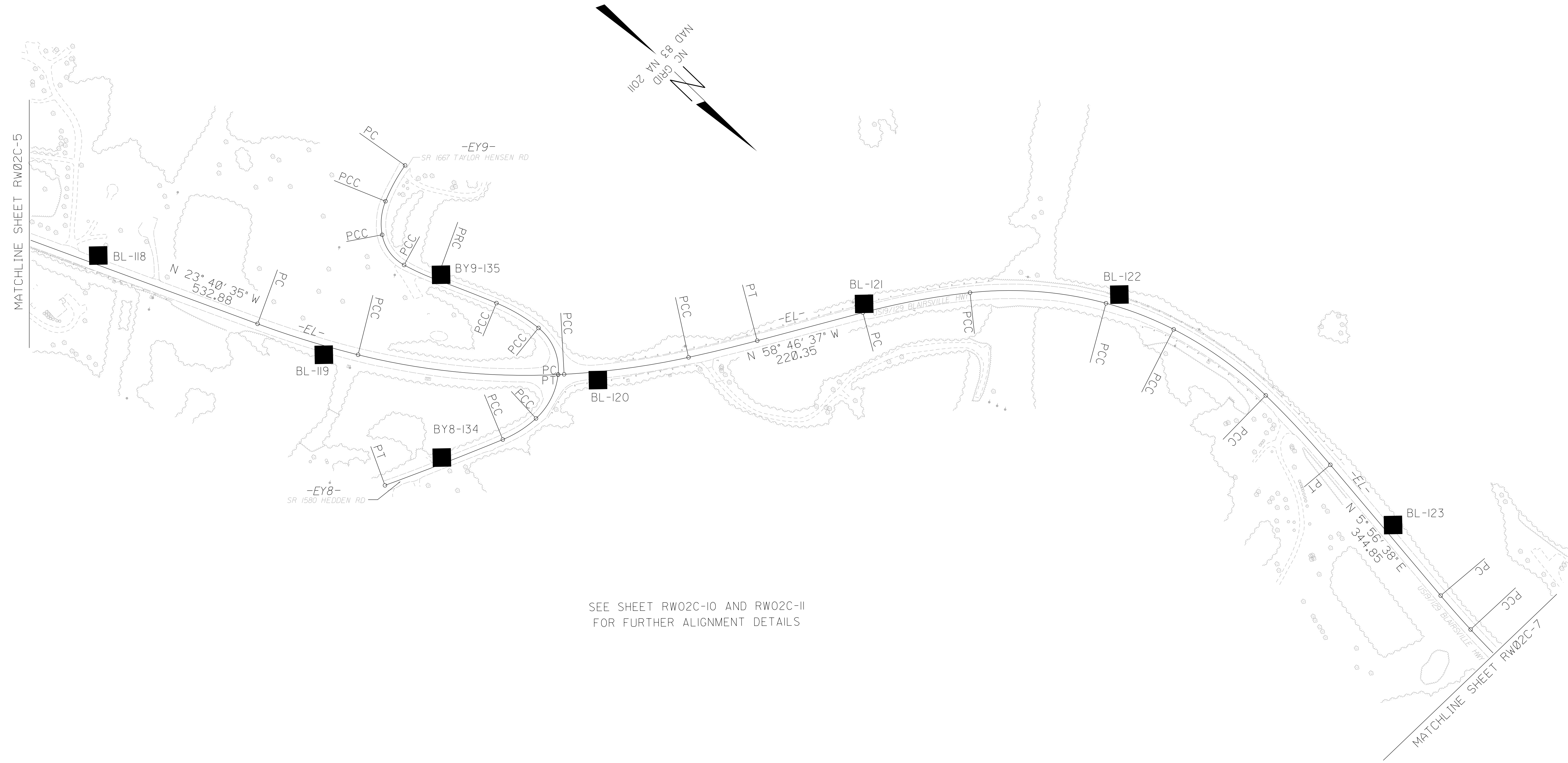
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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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

- NOTES:**
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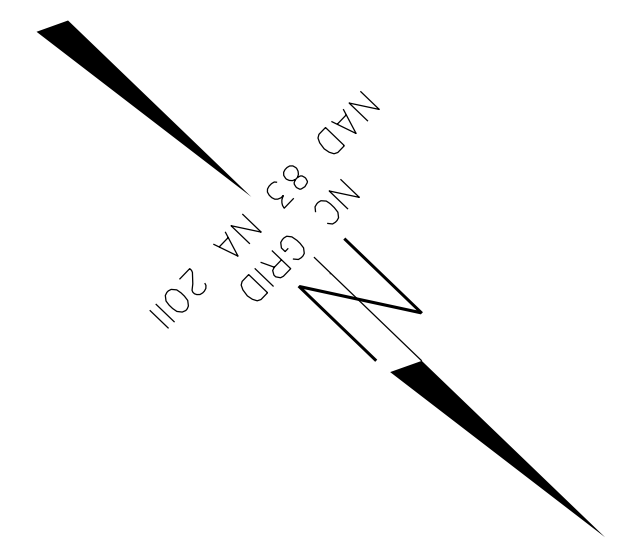
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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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

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REVISIONS

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-5861	SHEET NO. RW02C-8
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		R5861-1	489329.5620	481170.4510	1706.15
2		R5861-2	490294.8190	481276.1950	1761.21
101		BL-101	490792.4410	481333.5220	1777.17
102		BL-102	491220.2060	481431.1110	1766.32
103		BL-103	491948.2650	481325.0220	1733.06
104		BL-104	492388.8080	481138.0960	1723.05
105		BL-105	493134.4920	480866.7560	1671.96
106		BL-106	493349.8810	480387.1210	1652.94
107		BL-107	493613.8580	479631.1430	1637.93
3		R5861-3	493958.9700	479032.8150	1629.89
4		R5861-4	494622.2250	478566.1940	1638.32
108		BL-108	495539.6360	478348.0230	1689.82
109		BL-109	496262.1300	478246.1190	1715.09
110		BL-110	497019.6600	478197.9410	1744.73
111		BL-111	497622.2710	478128.9490	1751.81
112		BL-112	498033.2770	478046.7210	1745.84
113		BL-113	498518.4000	477991.7350	1712.89
114		BL-114	498988.8540	477895.6040	1673.36
115		BL-115	499605.8620	477687.7580	1664.87
5		R5861-5	500131.5640	477308.6800	1684.35
6		R5861-6	500540.9800	476879.5210	1680.60
116		BL-116	500798.6850	476548.7050	1676.00
117		BL-117	501258.9390	476176.9410	1708.48
118		BL-118	501832.7350	475896.0480	1736.87
119		BL-119	502299.0970	475724.7720	1763.34
120		BL-120	502732.6280	475378.3390	1765.85
121		BL-121	503012.8710	474895.5900	1731.63
122		BL-122	503370.7260	474525.2900	1690.60
123		BL-123	504090.2820	474477.2030	1658.85
124		BL-124	504753.1380	474532.3340	1619.54
125		BL-125	505412.6550	474298.7570	1621.64
126		BL-126	505834.3520	474000.9370	1632.89
8		R5861-8	506160.6610	473771.6290	1625.19

BY5	POINT	DESC.	NORTH	EAST	ELEVATION
131		BY5-131	497245.1190	478046.0350	1779.65
111		BL-111	497622.2710	478128.9490	1751.81

BY6	POINT	DESC.	NORTH	EAST	ELEVATION
111		BL-111	497622.2710	478128.9490	1751.81
132		BY6-132	497372.6750	478236.2640	1769.51

BY7	POINT	DESC.	NORTH	EAST	ELEVATION
133		BY7-133	500712.5660	476272.4290	1668.66
6		R5681-6	500540.9800	476879.5210	1680.60

BY8	POINT	DESC.	NORTH	EAST	ELEVATION
120		BL-120	502732.6280	475378.3390	1765.85
134		BY8-134	502614.1070	475709.0860	1777.81

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
127		BY1-127	490943.8890	481147.0640	1797.48
101		BL-101	490792.4410	481333.5220	1777.17

BY9	POINT	DESC.	NORTH	EAST	ELEVATION
135		BY9-135	502357.6130	475444.7300	1784.65
120		BL-120	502732.6280	475378.3390	1765.85

BY2	POINT	DESC.	NORTH	EAST	ELEVATION
102		BL-102	491220.2060	481431.1110	1766.32
128		BY2-128	490984.2900	481698.2440	1790.68

BY10	POINT	DESC.	NORTH	EAST	ELEVATION
7		R5861-7	505801.6170	473215.4450	1648.37
8		R5861-8	506160.6610	473771.6290	1625.19

BY3	POINT	DESC.	NORTH	EAST	ELEVATION
105		BL-105	493134.4920	480866.7560	1671.96
129		BY3-129	493462.6330	481463.4860	1667.38

BY4	POINT	DESC.	NORTH	EAST	ELEVATION
105		BL-105	493134.4920	480866.7560	1671.96
130		BY4-130	493607.2870	480850.8100	1658.71

NOTES:


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REVISIONS

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-5861	SHEET NO. RW02C-9
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
<small>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION</small>	

REVISIONS

 TBM1 ELEVATION = 1725.95
 N 489269 E 481219
 BENCHTIE NAIL IN 26" OAK

 TBM7 ELEVATION = 1676.09
 N 498955 E 477848
 BENCHTIE NAIL IN 24" OAK

 TBM2 ELEVATION = 1745.61
 N 491975 E 481428
 BENCHTIE NAIL IN 8" POPLAR

 TBM8 ELEVATION = 1680.13
 N 500442 E 476827
 BENCHTIE NAIL IN 18" OAK

 TBM3 ELEVATION = 1660.06
 N 493170 E 480207
 BENCHTIE NAIL IN 36" HARDWOOD

 TBM9 ELEVATION = 1764.86
 N 502205 E 475639
 BENCHTIE NAIL IN 30" POPLAR

 TBM4 ELEVATION = 1630.12
 N 493887 E 479285
 BENCHTIE NAIL IN 20" PINE

 TBM10 ELEVATION = 1690.40
 N 503403 E 474621
 BENCHTIE NAIL IN 18" OAK

 TBM5 ELEVATION = 1731.58
 N 496343 E 478149
 BENCHTIE NAIL IN 30" OAK

 TBM11 ELEVATION = 1631.69
 N 504717 E 474597
 BENCHTIE NAIL IN 18" OAK

 TBM6 ELEVATION = 1756.60
 N 497615 E 478021
 BENCHTIE NAIL IN 18" MAPLE

 TBM12 ELEVATION = 1626.29
 N 506160 E 473783
 BONNET BOLT OF FIRE HYDRANT

NOTES:

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EY6

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	497686.759	478104.248							
CURVE			S 49°22'33.8" E	100.55	13°20'46.0"(RT)	13°14'35.4"	100.78	50.62	432.64
PCC	497621.292	478180.565	S 22°12'40.2" E	125.26	40°59'01.2"(RT)	32°01'31.4"	127.97	66.86	178.91
CURVE			S 01°20'29.4" E	78.53	00°45'20.4"(RT)	00°57'44.1"	78.53	39.27	5954.35
PCC	497505.325	478227.916	S 22°50'23.9" E	51.48	43°45'09.5"(LT)	82°55'54.1"	52.76	27.74	69.09
CURVE			S 82°30'48.1" E	46.83	75°35'38.9"(LT)	149°57'37.0"	50.41	29.63	38.21
PCC	497373.265	478296.172	N 54°33'00.2" E	34.72	10°16'44.5"(LT)	29°33'46.1"	34.77	17.43	193.81
CURVE			N 54°25'57.9" E	90.50	10°02'39.9"(RT)	11°05'05.2"	90.61	45.42	516.89
PCC	497393.404	478324.458							
CURVE									
PT	497393.404	478324.458							

EY7

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	500733.566	476231.964							
CURVE			S 83°23'58.4" E	217.02	04°00'06.8"(LT)	01°50'37.2"	217.06	108.57	3107.69
PCC	500708.621	476447.542	S 78°37'11.1" E	95.81	13°33'41.3"(RT)	14°07'19.7"	96.03	48.24	405.72
CURVE			S 49°26'53.6" E	106.69	44°46'53.9"(RT)	40°54'41.7"	109.46	57.70	140.05
PCC	500689.717	476541.464	S 29°12'44.4" E	51.30	04°18'35.6"(LT)	08°23'58.8"	51.31	25.67	682.12
CURVE			S 50°24'55.3" E	92.49	38°05'46.1"(LT)	40°26'06.8"	94.22	48.92	141.70
PCC	500620.351	476622.533	N 88°45'04.0" E	154.75	43°34'15.3"(LT)	27°28'55.4"	158.54	83.33	208.48
CURVE									
PCC	500575.577	476647.569							
CURVE									
PCC	500516.641	476718.849							
CURVE									
PT	500516.641	476718.849							

EY8

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	502667.173	475426.298							
CURVE			N 72°48'04.0" E	98.87	41°29'32.7"(RT)	41°03'23.1"	101.06	52.86	139.55
PCC	502696.407	475520.745	S 76°19'51.3" E	79.33	20°14'36.7"(RT)	25°23'08.3"	79.74	40.29	225.70
CURVE			S 65°07'54.4" E	254.89	02°09'17.0"(RT)	00°50'43.0"	254.91	127.47	6778.23
PCC	502677.660	475597.828							
CURVE									
PT	502677.660	475597.828							

EY9

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	502152.562	475336.390							
CURVE			N 74°42'26.8" E	82.33	13°15'43.9"(LT)	16°04'22.4"	82.51	41.44	356.47
PCC	502174.276	475415.803	N 51°45'41.4" E	68.01	32°37'46.9"(LT)	47°20'02.5"	68.93	35.43	121.05
CURVE			N 10°03'43.5" E	75.17	50°46'08.9"(LT)	65°20'53.6"	77.69	41.60	87.68
PCC	502216.368	475469.219	N 19°30'49.1" W	71.95	08°22'56.3"(LT)	11°38'22.6"	72.02	36.07	492.25
CURVE			N 22°36'14.4" W	129.46	02°12'05.6"(RT)	01°42'01.5"	129.47	64.74	3369.51
PCC	502290.385	475482.353	N 13°19'19.4" W	98.52	16°21'44.3"(RT)	16°33'07.7"	98.85	49.77	346.15
CURVE			N 23°16'09.7" E	102.01	56°49'14.1"(RT)	53°26'39.4"	106.32	57.99	107.21
PCC	502477.723	475408.558							
CURVE									
PCC	502573.589	475385.857							
CURVE									
PT	502573.589	475385.857							

EY10

POINT	N	E	BEARING	DIST
POT	505943.189	473294.534		
LINE			N 51°30'06.1" E	1145.39
POT	506656.187	474190.950		

NOTES:


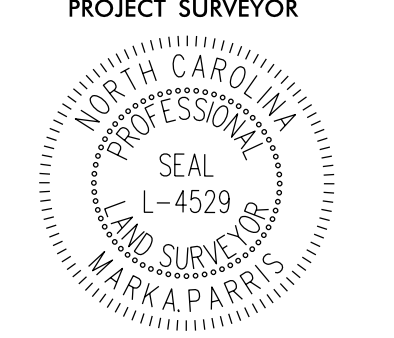
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/99

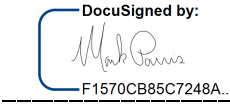
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PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. R-5861	SHEET NO. RW02D-2
Location and Surveys	
 1318-F Patton Avenue Asheville, NC 28806 Firm License # F-1088	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Mark A. Parris, PLS, certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

This 19 day of July, 2021.

DocuSigned by:

 F1570C885C7245A
 Professional Land Surveyor L-4529

DR8

TYPE	STATION	NORTH	EAST
POT	10+00.00	493913.1124	478721.8324
PC	11+92.12	493877.9276	478910.7027
PT	13+10.85	493912.7426	479019.1965
POT	13+80.26	493962.7885	479067.2979

DR17

TYPE	STATION	NORTH	EAST
POT	10+00.00	500626.3730	476466.7056
PC	10+90.57	500656.7025	476381.3616
PT	11+30.78	500688.2872	476361.5913
EOB	28+63.13	501930.6953	475154.3381
EOA	10+00.00	501930.6953	475154.3381

DR9

TYPE	STATION	NORTH	EAST
PC	10+00.00	494549.3974	478424.6975
PT	11+00.05	494619.1730	478496.2289
PC	11+26.91	494639.5135	478513.7677
PT	11+68.18	494663.6127	478546.8235
POT	11+90.31	494672.2449	478567.2016

DR18

TYPE	STATION	NORTH	EAST
POT	10+00.00	500666.2605	476710.7573
PC	10+63.57	500713.6765	476753.0952
PT	10+74.21	500721.2223	476760.5911
POT	11+46.20	500769.5274	476813.9740

DR10

TYPE	STATION	NORTH	EAST
POT	10+00.00	496223.3805	478021.5069
PC	11+37.52	496226.0470	478158.9966
PT	12+09.08	496233.8111	478230.0438
POT	12+39.84	496239.8712	478260.2018

DR18B

TYPE	STATION	NORTH	EAST
POT	10+00.00	500649.3205	476729.7354
PC	10+23.65	500666.9630	476745.4833
PT	10+49.33	500676.9826	476768.2856
PC	11+15.97	500676.0465	476834.9136
PT	12+12.45	500680.2952	476931.2498

DR11

TYPE	STATION	NORTH	EAST
POT	10+00.00	496581.4055	478203.8448
PC	10+97.32	496607.7956	478297.5229
PT	11+48.67	496615.2656	478348.7316
POT	12+30.36	496616.5002	478430.4126

DR19

TYPE	STATION	NORTH	EAST
POT	10+00.00	500963.2140	476423.0586
PC	10+17.96	500974.7469	476436.8283
PT	10+64.71	500995.4563	476478.2636
PC	11+30.06	501010.3391	476541.8969
PT	11+76.00	501024.1781	476585.6535

DR12

TYPE	STATION	NORTH	EAST
POT	10+00.00	496885.1187	478165.0747
PC	11+09.25	496898.9527	478273.4468
PT	11+51.33	496903.1834	478315.3385
POT	11+94.56	496906.3931	478358.4414

DR20

TYPE	STATION	NORTH	EAST
POT	10+00.00	501169.2821	476132.9446
POT	11+10.35	501235.6199	476221.1254

DR13

TYPE	STATION	NORTH	EAST
POT	10+00.00	497199.1073	477860.4847
PC	10+16.56	497186.5598	477871.2939
PT	10+38.01	497177.8768	477890.1901
PC	10+57.35	497177.8422	477909.5350
PT	11+83.78	497237.2122	478018.9069
POT	12+44.89	497288.5221	478052.1121

DR21

TYPE	STATION	NORTH	EAST
POT	10+00.00	501859.8441	475783.3801
PC	10+38.78	501893.6230	475802.4373
PT	11+14.83	501951.7616	475851.9875
POT	11+25.84	501958.6242	475860.5995

DR14

TYPE	STATION	NORTH	EAST
POT	10+00.00	498005.6589	478019.9896
PC	10+98.42	498005.3332	478118.4117
PRC	11+88.48	497963.7937	478199.2130
PT	13+06.59	497926.4398	478308.9761
POT	13+55.29	497940.3844	478355.6417

DR22

TYPE	STATION	NORTH	EAST
POT	10+00.00	503798.4549	474601.4295
PC	11+52.84	503848.6843	474745.7823
PT	12+42.02	503920.2181	474784.1933
POT	13+37.99	504013.1903	474760.4159

DR15

TYPE	STATION	NORTH	EAST
POT	10+00.00	498965.8495	477884.8920
PC	11+24.81	498987.6206	478007.7888
PRC	12+47.25	498933.9024	478114.6612
PRC	13+34.29	498880.5532	478184.6790
PT	13+67.51	498867.2121	478217.0379
POT	14+18.26	498839.1147	478259.2987

DR23

TYPE	STATION	NORTH	EAST
POT	10+00.00	503397.9888	474816.4753
PC	10+13.20	503405.9877	474826.9812
PT	10+63.33	503407.1187	474873.8809
POT	12+09.01	503324.5640	474993.9015

DR16

TYPE	STATION	NORTH	EAST
POT	10+00.00	500446.2171	476710.0920
PC	10+43.91	500486.7104	476727.0735
PRC	10+84.08	500504.6996	476759.6752
PT	11+99.13	500523.0839	476871.1597

DR24

TYPE	STATION	NORTH	EAST
POT	10+00.00	505100.0990	474417.8425
PC	10+23.51	505094.3459	474440.6366
PT	10+66.26	505065.6475	474469.5557
POT	11+39.06	504995.2000	474487.9108

NOTES:

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

REVISIONS

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6/2/19

RIGHT OF WAY CONTROL SHEET

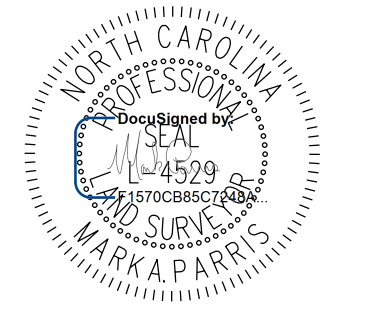
PROJECT REFERENCE NO. SHEET NO.

R-5861 RW03E-2

Location and Surveys



PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Rows for Y9.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Rows for Y10A.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Rows for Y10B.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Rows for Y11.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Rows for Y11A.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Rows for Y13.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Multiple rows for alignment L from station 12+56.00 to 94+40.00.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Multiple rows for alignment L from station 95+85.00 to 197+85.00.

REVISIONS

I, MARK A. PARRIS, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May, 2021 to July, 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 July, 2021.

Professional Land Surveyor L-4529

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 May,2021 TO July, 2021 .

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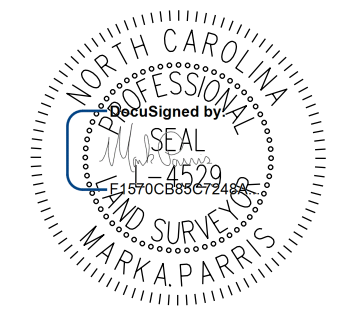
RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5861	RW03E-3

Location and Surveys



PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	15+55.00	35.00	490723.5927	481211.8537

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	14+25.00	-60.00	491015.2193	481816.3471
Y2	14+25.00	-51.58	491007.1004	481814.1082
Y2	14+40.00	80.00	490875.9619	481795.4483
Y2	14+45.00	-60.00	491010.6747	481833.8924
Y2	14+60.00	-50.00	490997.8290	481845.1222
Y2	15+05.00	-24.84	490964.4892	481882.9984
Y2	15+05.00	-30.00	490969.5630	481883.9378

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	11+97.00	-101.83	493288.9196	480951.1396
Y3	11+97.00	-135.00	493317.1111	480933.6586
Y3	12+25.00	-99.43	493301.6356	480976.2008
Y3	12+25.00	-135.00	493331.8667	480957.4551
Y3	13+55.00	75.00	493221.9020	481178.6060
Y3	13+55.00	11.04	493276.2635	481144.8976

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y3A	11+70.00	-21.13	493265.4142	480772.2801

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	12+00.00	0.00	495101.7927	478188.3424
Y4	12+34.88	0.00	495067.7095	478195.7602
Y4	12+56.25	-0.00	495046.9025	478200.8686

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y5	10+95.00	-31.92	495021.6001	478556.8049

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y9	11+90.00	-55.00	499579.7413	477906.0085
Y9	11+90.00	-43.58	499571.4709	477898.1369
Y9	12+75.00	-85.00	499542.8701	477988.2613
Y9	12+75.00	-40.19	499510.4130	477957.3689
Y9	12+75.00	-50.00	499517.5178	477964.1312
Y9	13+20.00	-85.00	499511.8457	478020.8571
Y9	13+20.00	-38.40	499478.0882	477988.7270
Y9	13+20.00	-45.00	499482.8716	477993.2798
Y9	14+70.00	-20.74	499378.0830	478088.9654

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y10A	11+50.00	84.00	500631.1033	476372.7832
Y10A	12+00.00	94.00	500615.6368	476421.3712
Y10A	12+25.00	90.00	500616.8485	476446.6601
Y10A	12+25.00	69.46	500637.2606	476448.9307

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y10B	10+96.00	-24.63	501822.5417	475321.9826

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
DR8	11+58.00	33.00	493851.7344	478871.1165
DR8	11+58.00	0.00	493884.1763	478877.1601
DR8	11+92.12	0.00	493877.9276	478910.7027
DR8	12+00.00	33.00	493843.9712	478914.5898
DR8	12+50.00	28.00	493854.4278	478976.1558
DR8	12+88.24	-0.00	493898.0122	479002.0940

I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision, that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May, 2021 to July, 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 July, 2021.

 Professional Land Surveyor L-4529

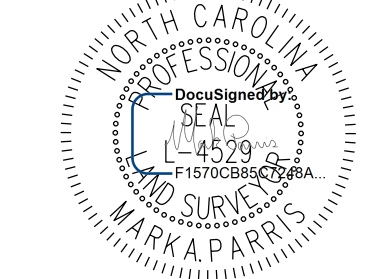
NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED MAY, 2021 TO JULY, 2021 .

Location and Surveys



PROJECT SURVEYOR



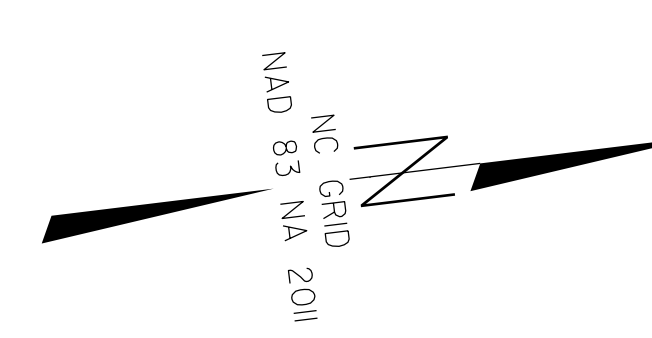
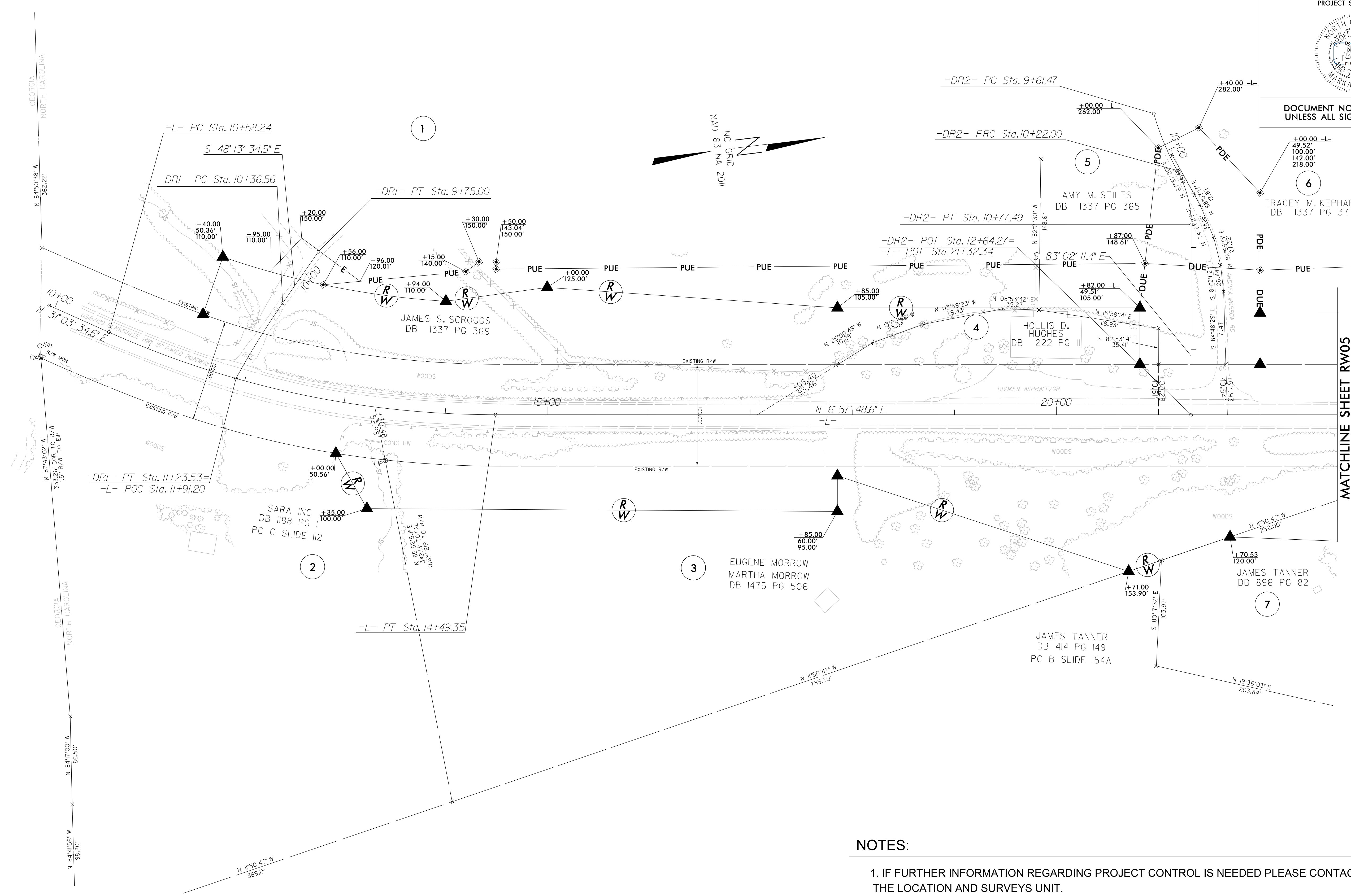
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L-	-DRI-	-DR2-	-DR2-
PI Sta 12+56.73	PI Sta 10+80.09	PI Sta 9+91.87	PI Sta 10+50.35
$\Delta = 24^{\circ}05'46.1''$ (LT)	$\Delta = 6^{\circ}06'49.5''$ (LT)	$\Delta = 13^{\circ}05'15.7''$ (LT)	$\Delta = 28^{\circ}53'59.0''$ (RT)
D = 6'09'39.0"	D = 7'01'48.6"	D = 21'37'15.8"	D = 52'05'13.5"
L = 391.12'	L = 86.96'	L = 60.53'	L = 55.48'
T = 198.49'	T = 43.52'	T = 30.40'	T = 28.35'
R = 930.00'	R = 815.00'	R = 265.00'	R = 110.00'

I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 19 day of July, 2021.
 Mark A. Parris
 Professional Land Surveyor L-4529

REVISIONS



2021-07-02 10:20:37
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 10/3/21

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 MAY 2021 TO JULY 2021 .

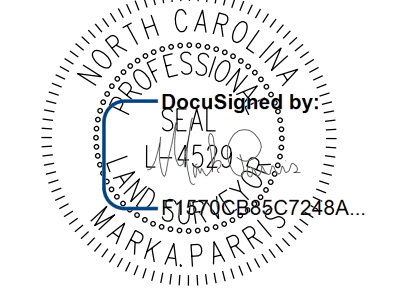
MATCHLINE SHEET RW05

Location and Surveys



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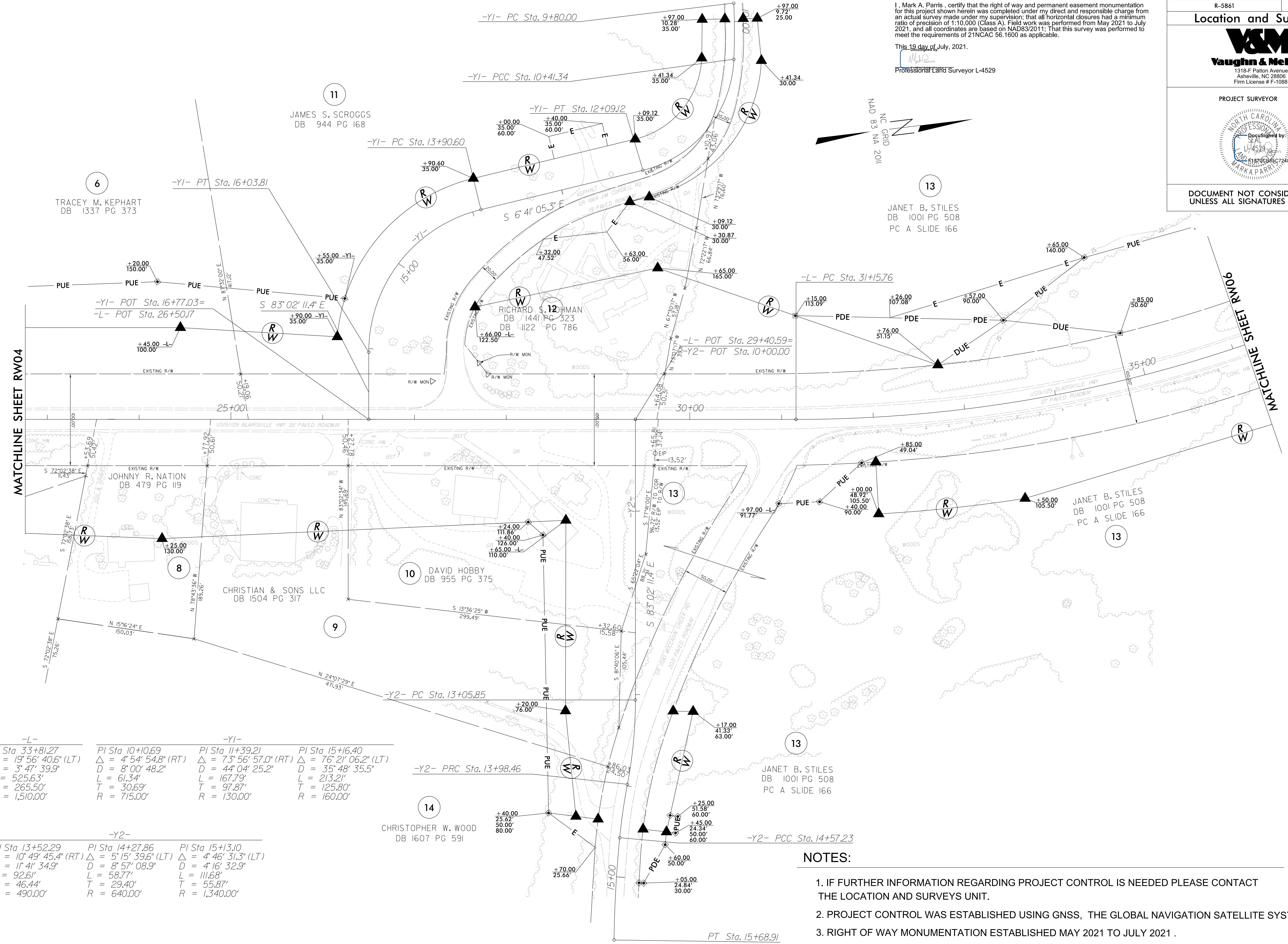
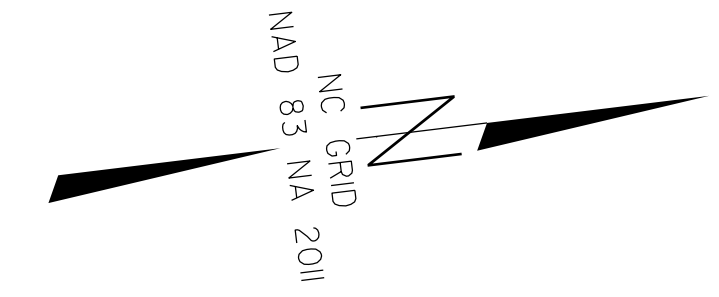
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 is a day of July, 2021.
Professional Land Surveyor L-4629



-L-		-Y1-	
PI Sta 33+81.27	PI Sta 10+10.69	PI Sta 11+39.21	PI Sta 15+16.40
$\Delta = 19^{\circ} 56' 40.6" (LT)$	$\Delta = 4^{\circ} 54' 54.8" (RT)$	$\Delta = 73^{\circ} 56' 57.0" (RT)$	$\Delta = 76^{\circ} 21' 06.2" (LT)$
D = 3' 47' 39.9"	D = 8' 00' 48.2"	D = 44' 04' 25.2"	D = 35' 48' 35.5"
L = 525.63'	L = 61.34'	L = 167.79'	L = 213.21'
T = 265.50'	T = 30.69'	T = 97.87'	T = 125.80'
R = 1510.00'	R = 715.00'	R = 130.00'	R = 160.00'

-Y2-		
PI Sta 13+52.29	PI Sta 14+27.86	PI Sta 15+13.10
$\Delta = 10^{\circ} 49' 45.4" (RT)$	$\Delta = 5^{\circ} 15' 39.6" (LT)$	$\Delta = 4^{\circ} 46' 31.3" (LT)$
D = 11' 41' 34.9"	D = 8' 57' 08.9"	D = 4' 16' 32.9"
L = 92.61'	L = 58.77'	L = 111.68'
T = 46.44'	T = 29.40'	T = 55.87'
R = 490.00'	R = 640.00'	R = 1,340.00'

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 MAY 2021 TO JULY 2021 .

REVISIONS

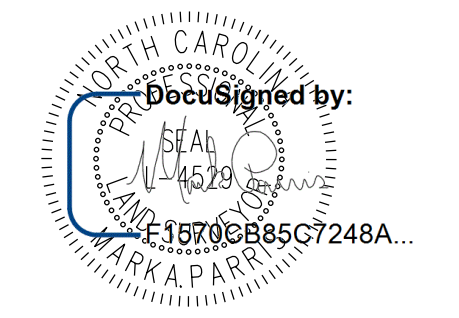
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Location and Surveys



1318-F Patton Avenue Asheville, NC 28806 Firm License # F-1088

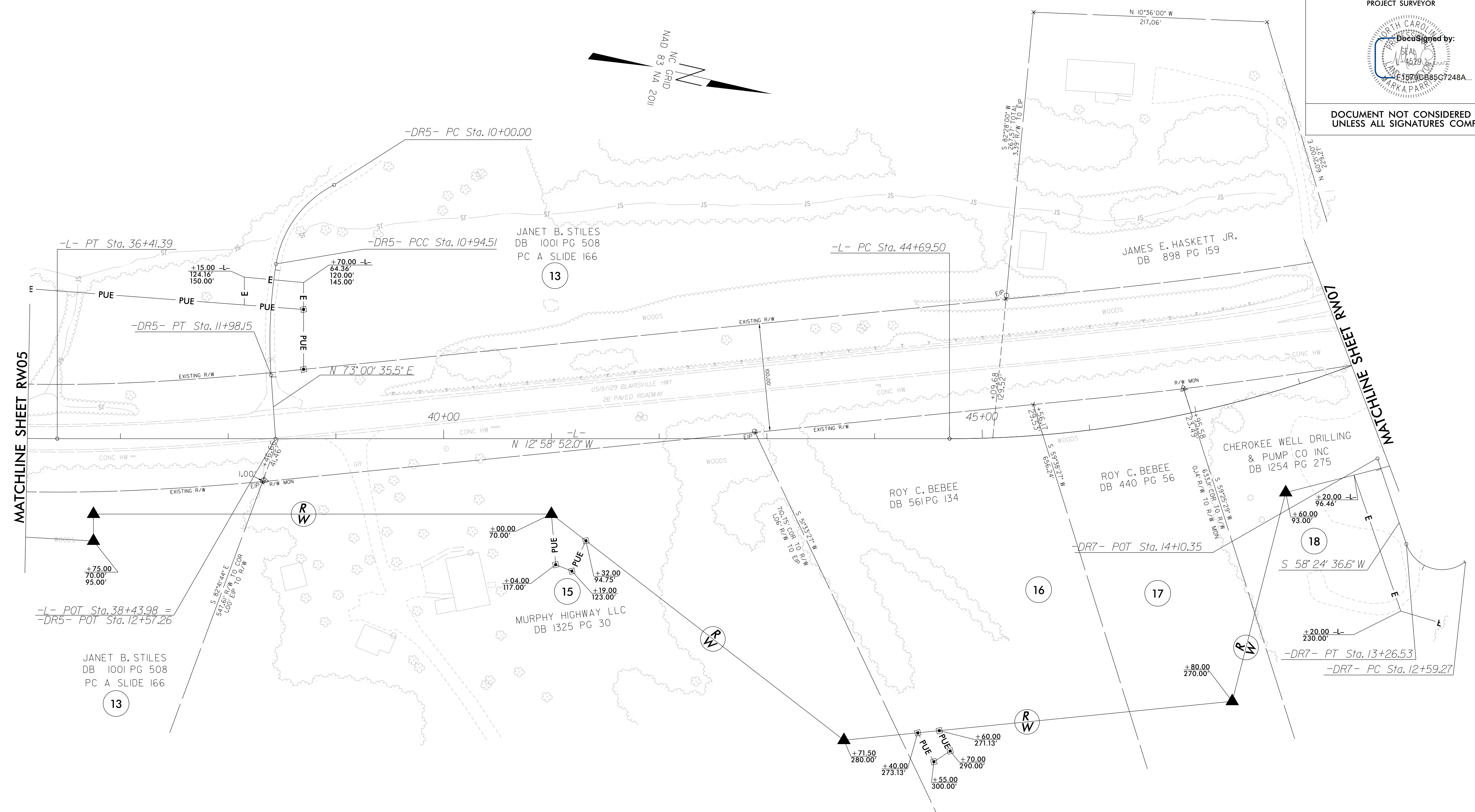
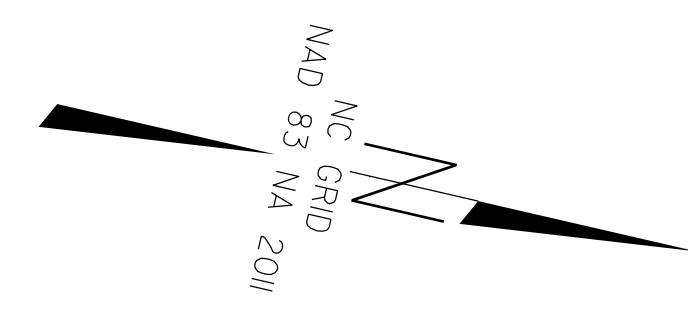
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 19 day of July, 2021. Professional Land Surveyor L-4529

-L-		-DR5-		-DR7-	
PI Sta. 33+81.27	PI Sta. 50+66.87	PI Sta. 10+51.11	PI Sta. 11+46.56	PI Sta. 13+09.35	
$\Delta = 19^{\circ} 56' 40.6" (LT)$	$\Delta = 58^{\circ} 48' 26.3" (LT)$	$\Delta = 54^{\circ} 08' 51.5" (LT)$	$\Delta = 13^{\circ} 11' 45.2" (LT)$	$\Delta = 110^{\circ} 06' 07.5" (RT)$	
D = 3' 47' 39.9"	D = 5' 24' 18.9"	D = 57' 17' 44.8"	D = 12' 43' 56.6"	D = 163' 42' 08.0"	
L = 525.63'	L = 1,087.96'	L = 94.51'	L = 103.64'	L = 67.26'	
T = 265.50'	T = 597.37'	T = 51.11'	T = 52.05'	T = 50.08'	
R = 1,510.00'	R = 1,060.00'	R = 100.00'	R = 450.00'	R = 35.00'	



REVISIONS

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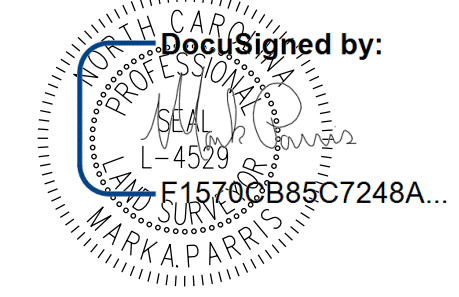
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED MAY 2021 TO JULY 2021 .

Location and Surveys



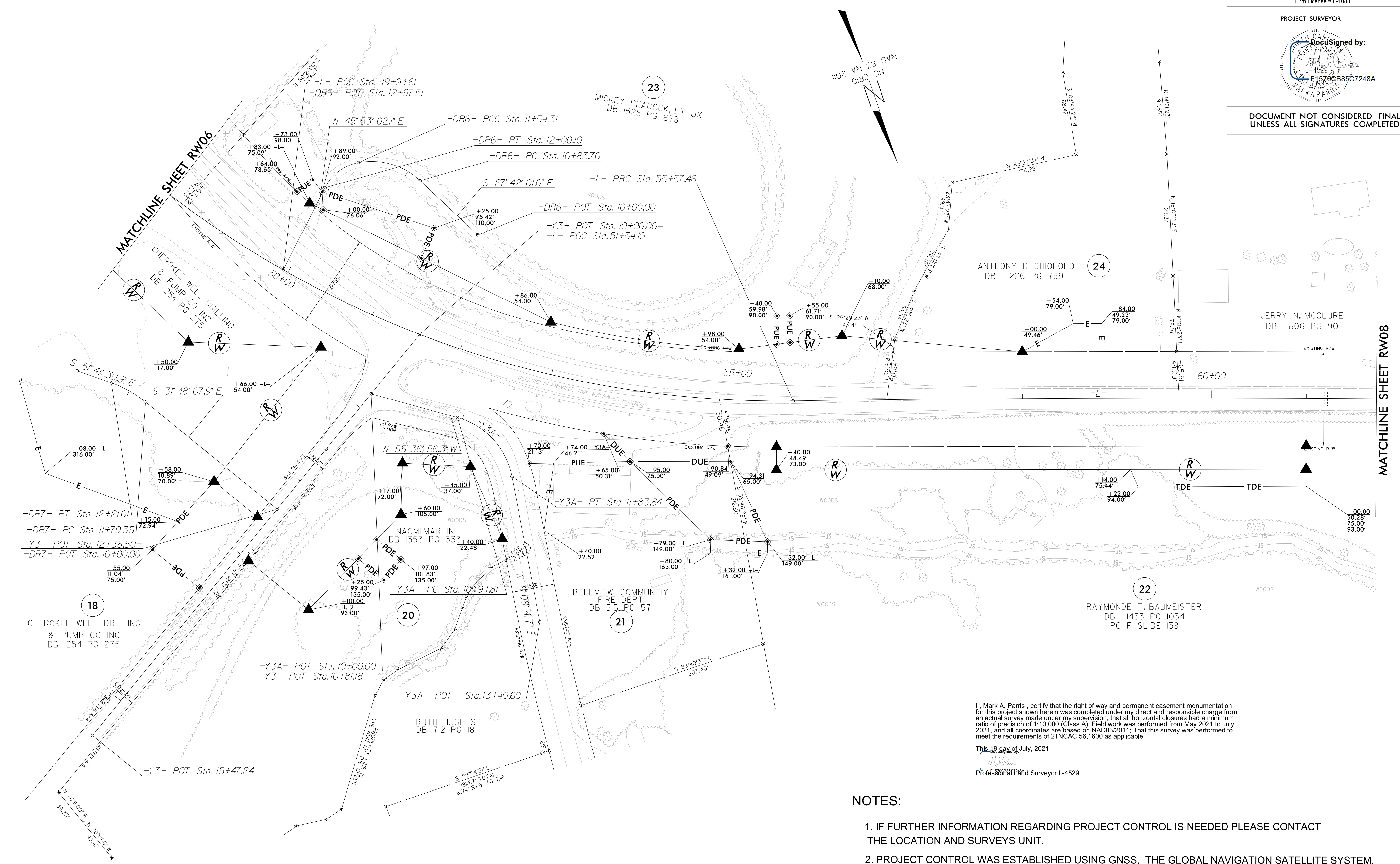
1318-F Patton Avenue
Asheville, NC 28906
Firm License # F-1088

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L-	-Y3A-	-DR6-	-DR7-
PI Sta 50+66.87 Δ = 58° 48' 26.3" (LT) D = 5' 24' 18.9" L = 1,087.96' T = 597.37' R = 1,060.00'	PI Sta 59+39.36 Δ = 1° 27' 31.2" (RT) D = 0' 11' 27.5" L = 763.75' T = 381.90' R = 30,000.00'	PI Sta 11+44.57 Δ = 63° 45' 38.0" (RT) D = 7' 37' 11.0" L = 89.03' T = 49.76' R = 80.00'	PI Sta 12+21.86 Δ = 53° 56' 30.0" (LT) D = 76' 23' 39.7" L = 70.61' T = 38.17' R = 75.00'
		PI Sta 11+78.95 Δ = 52° 28' 26.9" (LT) D = 114' 35' 29.6" L = 45.79' T = 24.64' R = 50.00'	PI Sta 12+00.39 Δ = 19° 53' 23.0" (LT) D = 47' 44' 47.3" L = 41.66' T = 21.04' R = 120.00'



I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 19 day of July, 2021.


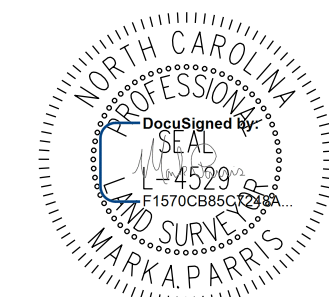
 Professional Land Surveyor L-4529

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED MAY 2021 TO JULY 2021.

REVISIONS

P:\NCS\2021\18-322012-19_R-5861_R07\Survey\DWG\Survey\RW07.dgn
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PROJECT REFERENCE NO.	SHEET NO.
R-5861	RW08
Location and Surveys	
 1318-F Patton Avenue Asheville, NC 28906 Firm License # F-1088	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

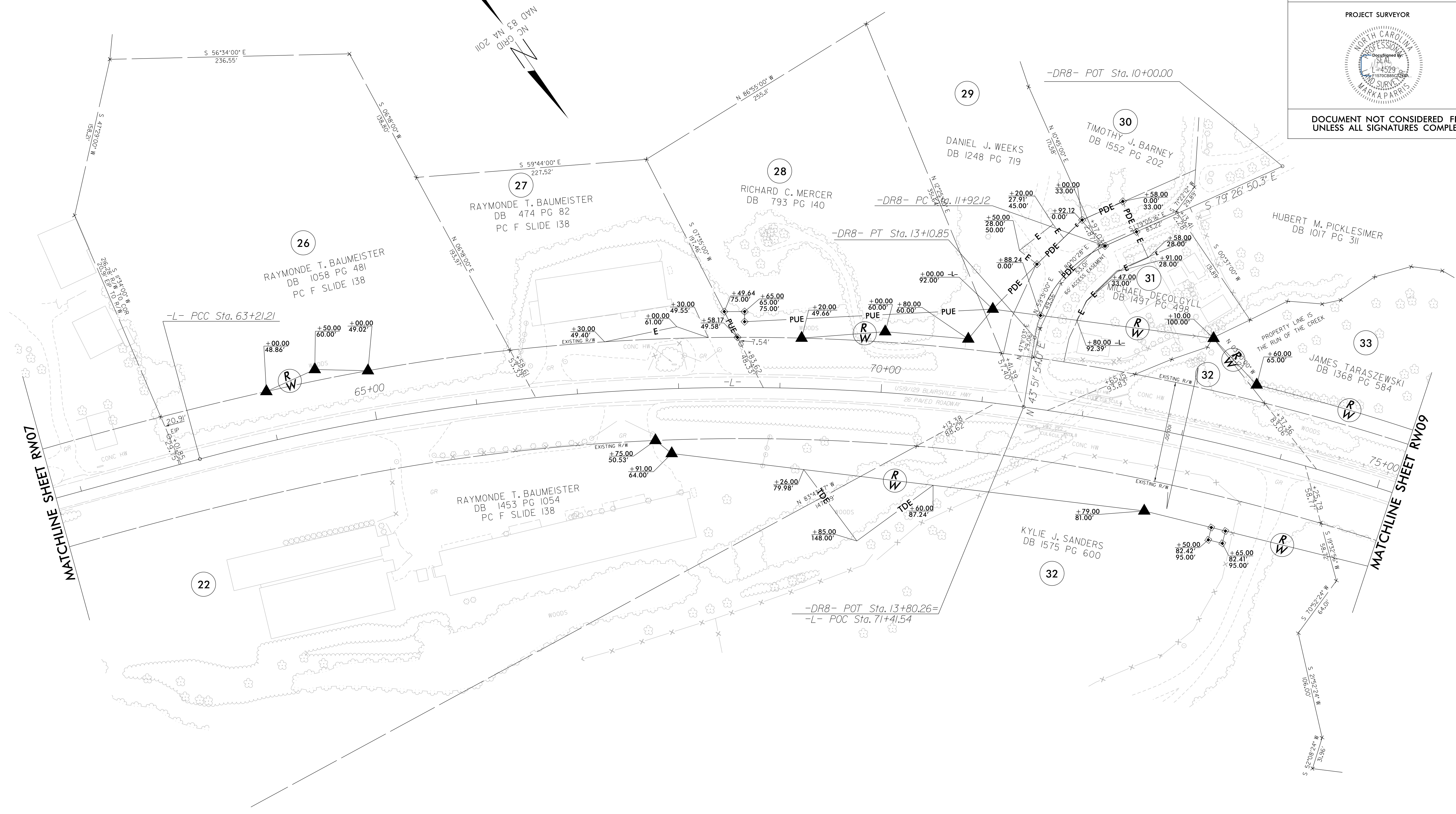
-L-	-DR8-
PI Sta 59+39.36	PI Sta 12+56.85
$\Delta = 1^{\circ} 27' 31.2''$ (RT)	$\Delta = 56^{\circ} 41' 15.7''$ (LT)
D = 0' 11' 27.5"	D = 47' 44' 47.3"
L = 763.75'	L = 118.73'
T = 381.90'	T = 64.73'
R = 30,000.00'	R = 120.00'

I, Mark A. Paris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 is a day of July, 2021.

Mark A. Paris
 Professional Land Surveyor L-4529

REVISIONS



NOTES:

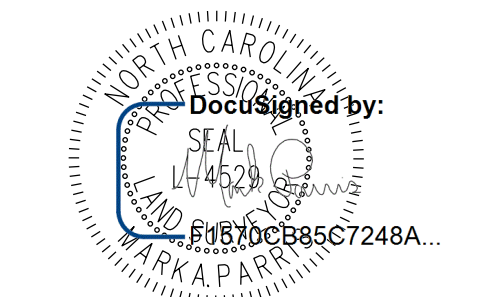
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED MAY 2021 TO JULY 2021 .

20210714.dwg
 V:\NCS\5861\32012-19_R-5861_ROW\SURVEY\Data
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 10/31/2021 10:31 AM
 Jcgaradon

Location and Surveys

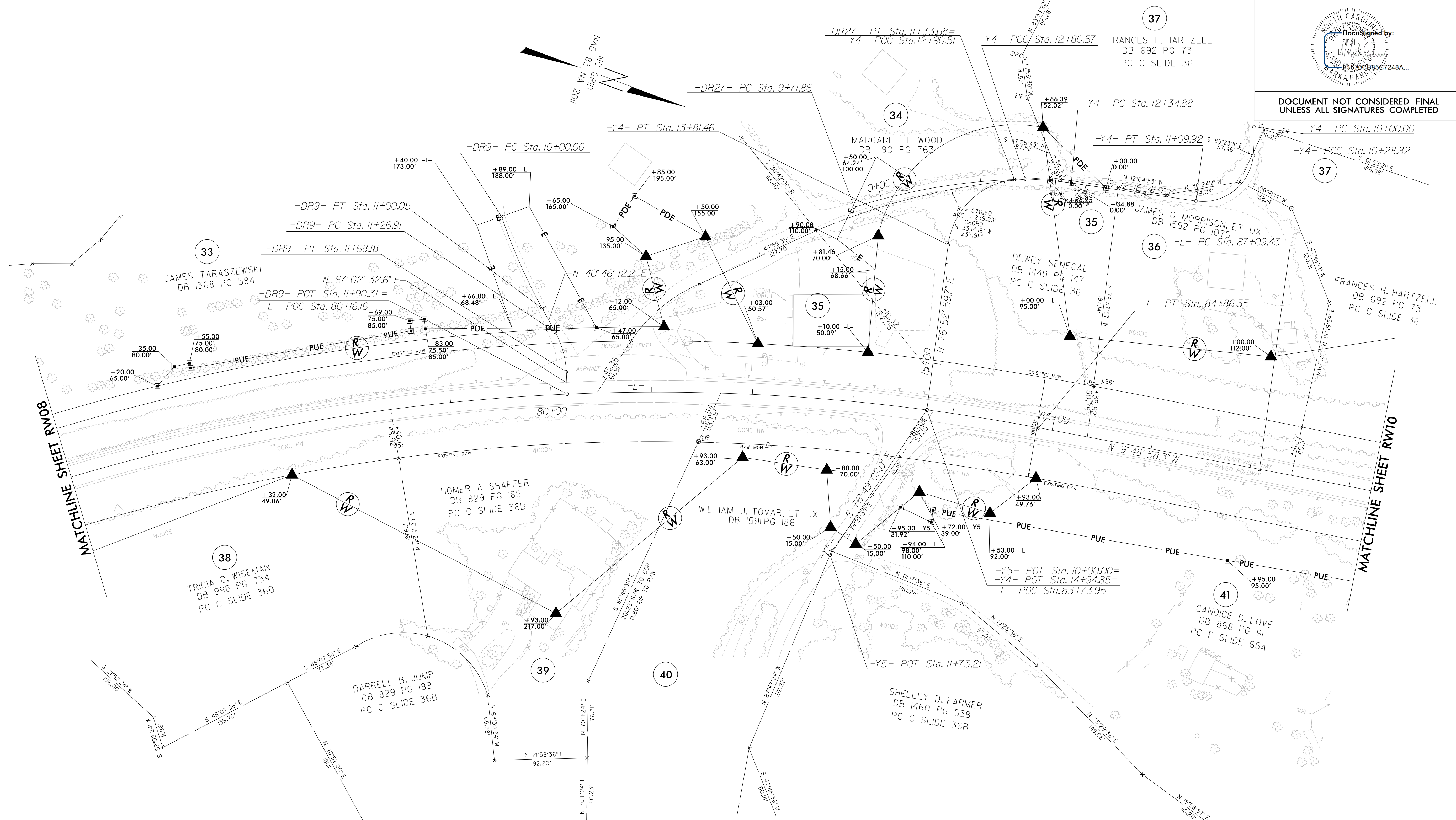


PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-DR9-		-L-		-Y4-		-DR27-	
PI Sta 10+50.15	PI Sta 11+47.91	PI Sta 75+17.07	PI Sta 90+43.98	PI Sta 10+14.44	PI Sta 10+81.45	PI Sta 12+57.81	PI Sta 13+48.53
$\Delta = 9^{\circ} 53' 01.0" (LT)$	$\Delta = 26^{\circ} 16' 20.4" (RT)$	$\Delta = 60^{\circ} 30' 48.9" (RT)$	$\Delta = 2^{\circ} 47' 40.83" (RT)$	$\Delta = 7^{\circ} 51' 52.2" (RT)$	$\Delta = 92^{\circ} 55' 38.0" (RT)$	$\Delta = 6^{\circ} 28' 50.8" (LT)$	$\Delta = 84^{\circ} 21' 27.6" (LT)$
D = 9' 52' 42.9"	D = 63' 39' 43.1"	D = 2' 47' 41.7"	D = 0' 25' 03.9"	D = 27' 17' 01.3"	D = 114' 35' 29.6"	D = 14' 10' 59.9"	D = 83' 37' 14.3"
L = 100.05'	L = 41.27'	L = 2,165.13'	L = 668.97'	L = 28.82'	L = 81.09'	L = 45.69'	L = 100.88'
T = 50.15'	T = 21.00'	T = 1,195.85'	T = 334.55'	T = 14.44'	T = 52.62'	T = 22.93'	T = 67.96'
R = 580.00'	R = 90.00'	R = 2,050.00'	R = 13,715.00'	R = 210.00'	R = 50.00'	R = 405.00'	R = 75.00'



REVISIONS

I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 19 day of July, 2021.
 Professional Land Surveyor L-4529

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED MAY 2021 TO JULY 2021 .

20210719_1032012-19_R-5861_R09A_Survey_Data - Work\to_send\VR5861_1s_RW09.dgn
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REVISIONS

MATCHLINE SHEET RW10


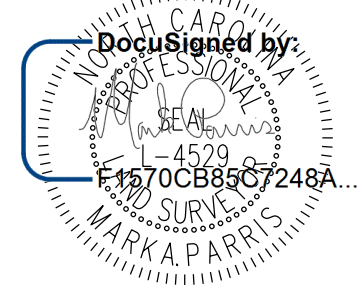
MATCHLINE SHEET RW11

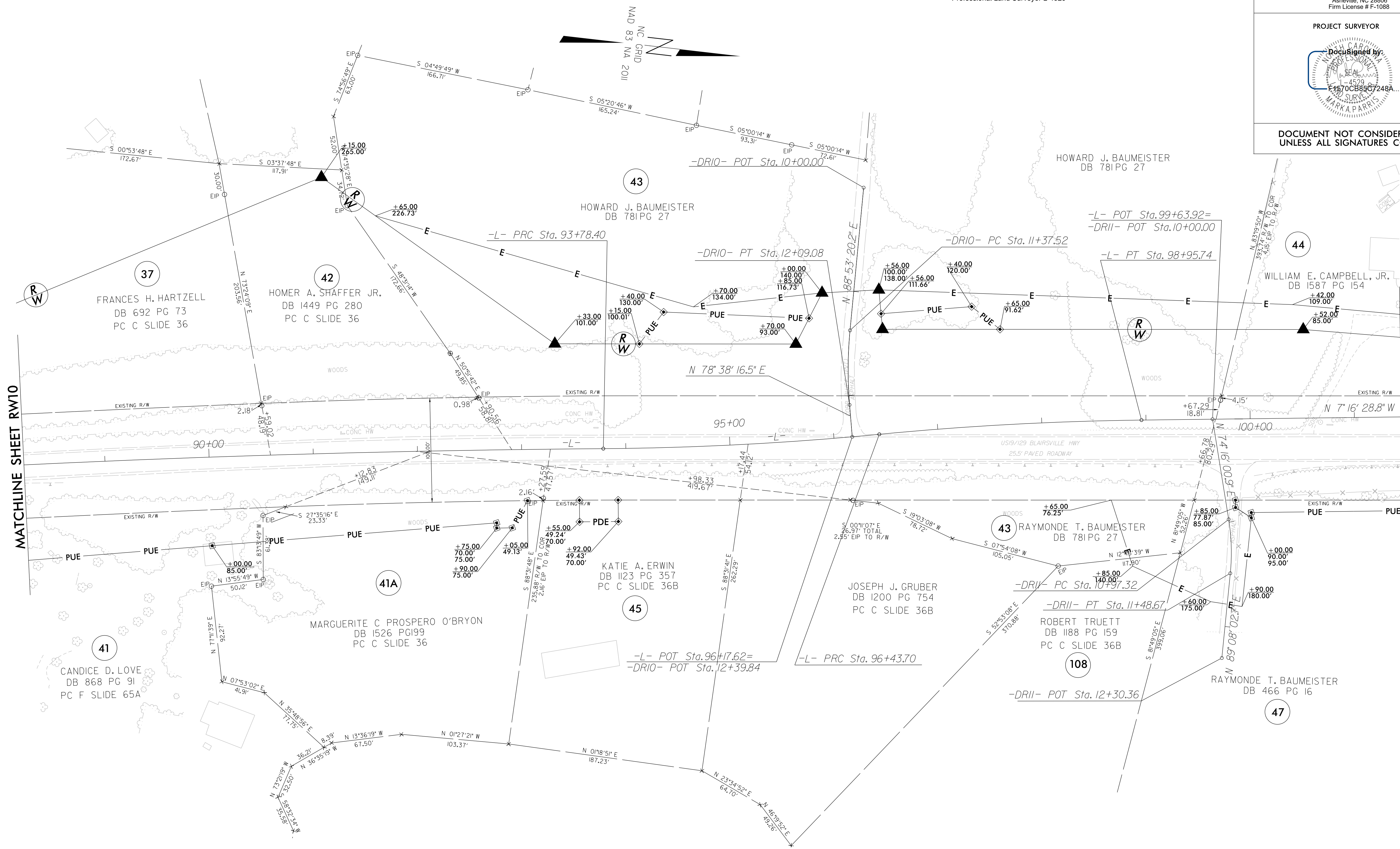
-L-		-DRIO-		-DRII-	
PI Sta 90+43.98	PI Sta 95+111.3	PI Sta 97+69.79	PI Sta 11+73.39	PI Sta 11+23.42	
$\Delta = 2^{\circ} 47' 40.83''$ (RT)	$\Delta = 5^{\circ} 4' 00.1''$ (LT)	$\Delta = 4^{\circ} 48' 49.0''$ (RT)	$\Delta = 10^{\circ} 15' 03.7''$ (LT)	$\Delta = 14^{\circ} 52' 01.7''$ (RT)	
D = 0' 25' 03.9"	D = 1' 54' 35.49"	D = 1' 54' 35.49"	D = 14' 19' 26.2"	D = 28' 57' 18.1"	
L = 668.97'	L = 265.30'	L = 252.04'	L = 71.57'	L = 51.35'	
T = 334.55'	T = 132.73'	T = 126.09'	T = 35.88'	T = 26.09'	
R = 13,715.00'	R = 3,000.00'	R = 3,000.00'	R = 400.00'	R = 200.00'	

I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 is a day of July, 2021.

Mark A. Parris
Professional Land Surveyor L-4529

PROJECT REFERENCE NO. R-5861	SHEET NO. RW10
Location and Surveys	
	
1318-F Patton Avenue Asheville, NC 28806 Firm License # F-1088	
PROJECT SURVEYOR	
DocuSigned by:  E1570CB85C7248A...	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



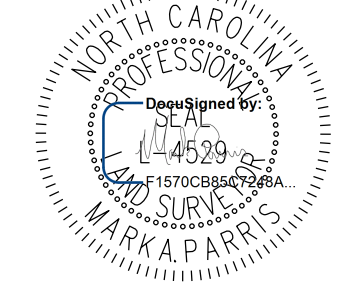
NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED MAY 2021 TO JULY 2021 .

Location and Surveys



PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

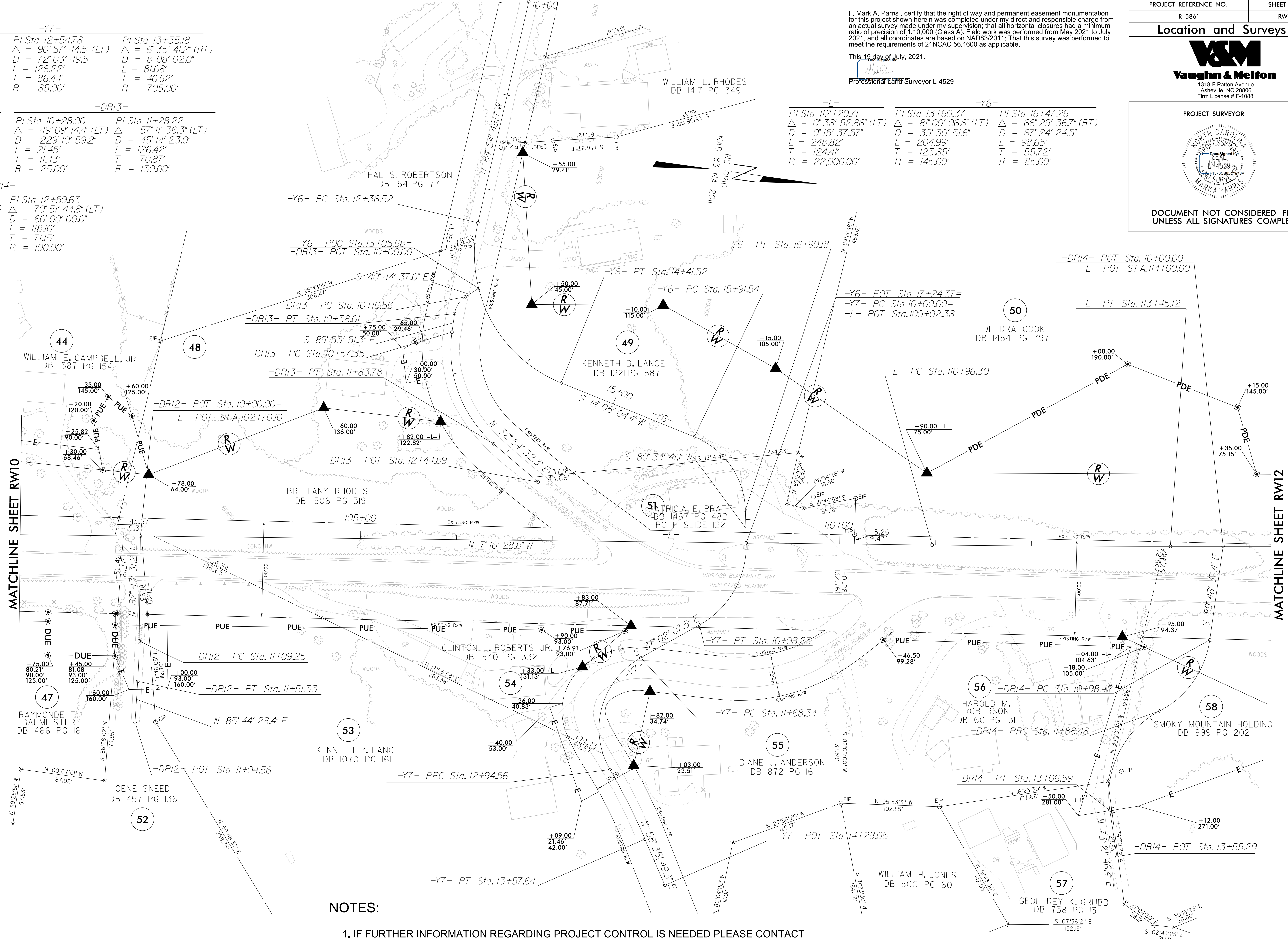
I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 is a true and correct copy of the original as shown on July 2021.

Professional Land Surveyor L-4529

-Y7-		
PI Sta 10+57.52 Δ = 62° 23' 11.4" (RT) D = 63° 30' 49.4" L = 98.23' T = 57.52' R = 95.00'	PI Sta 12+54.78 Δ = 90° 57' 44.5" (LT) D = 72° 03' 49.5" L = 126.22' T = 86.44' R = 85.00'	PI Sta 13+35.18 Δ = 6° 35' 41.2" (RT) D = 8° 08' 02.0" L = 81.08' T = 40.62' R = 705.00'
-DRI2-		
PI Sta 11+30.31 Δ = 3° 00' 57.2" (RT) D = 7° 09' 59.9" L = 42.08' T = 21.06' R = 800.00'	PI Sta 10+28.00 Δ = 49° 09' 14.4" (LT) D = 229° 10' 59.2" L = 21.45' T = 11.43' R = 25.00'	PI Sta 11+28.22 Δ = 57° 11' 36.3" (LT) D = 45° 14' 23.0" L = 126.42' T = 70.87' R = 130.00'
-DRI4-		
PI Sta 11+49.41 Δ = 54° 02' 08.7" (RT) D = 60° 00' 00.0" L = 90.06' T = 50.99' R = 100.00'	PI Sta 12+59.63 Δ = 70° 51' 44.8" (LT) D = 60° 00' 00.0" L = 118.10' T = 71.15' R = 100.00'	

-L-		
PI Sta 112+20.71 Δ = 0° 38' 52.86" (LT) D = 0° 15' 37.57" L = 248.82' T = 124.41' R = 22,000.00'	PI Sta 13+60.37 Δ = 81° 00' 06.6" (LT) D = 39° 30' 51.6" L = 204.99' T = 123.85' R = 145.00'	PI Sta 16+47.26 Δ = 66° 29' 36.7" (RT) D = 67° 24' 24.5" L = 98.65' T = 55.72' R = 85.00'



NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED MAY 2021 TO JULY 2021.

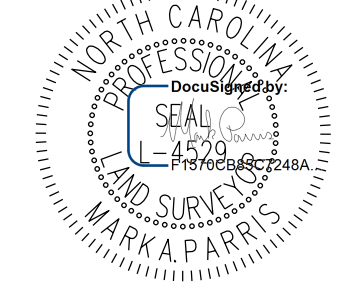
REVISIONS

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Location and Surveys



PROJECT SURVEYOR



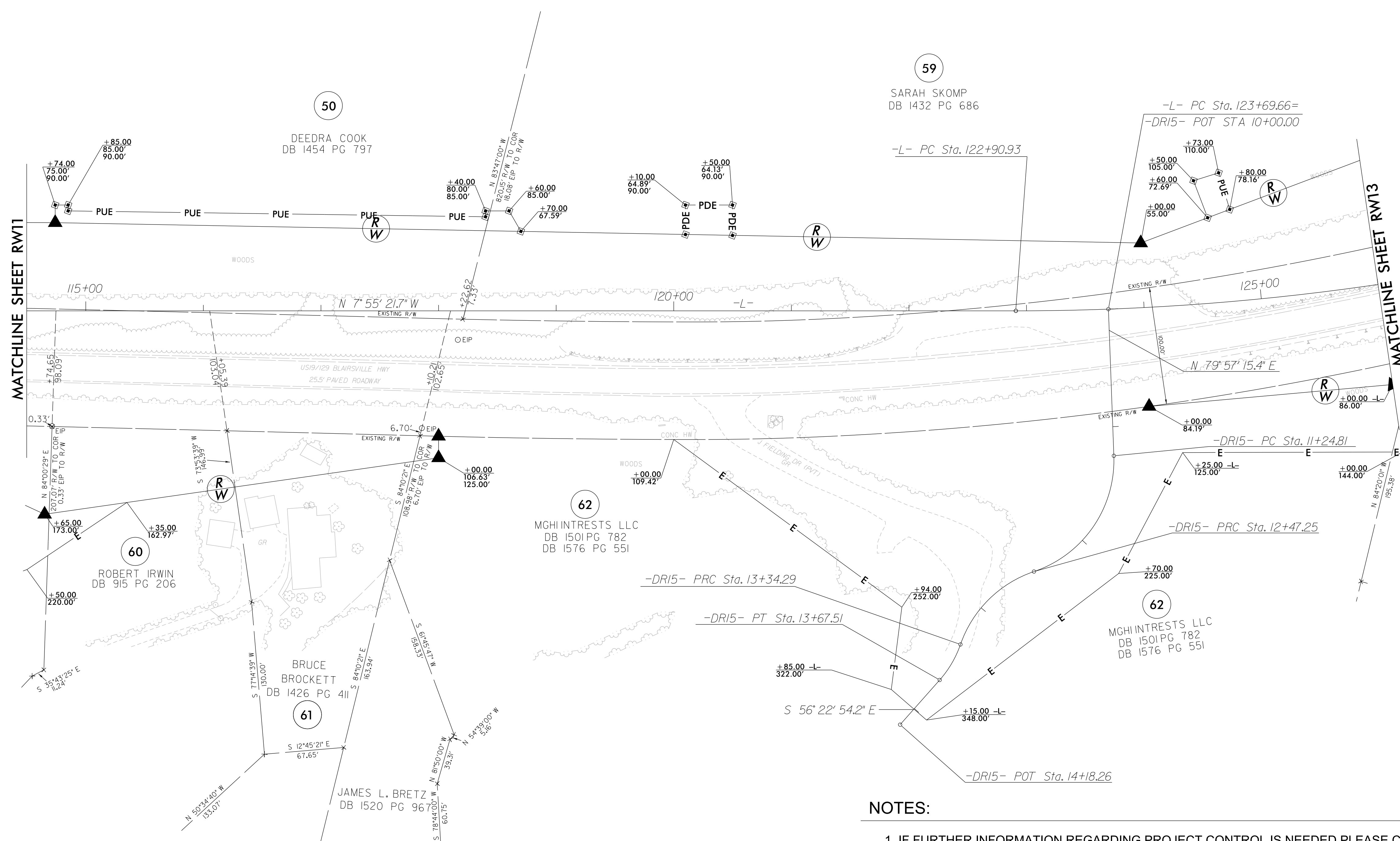
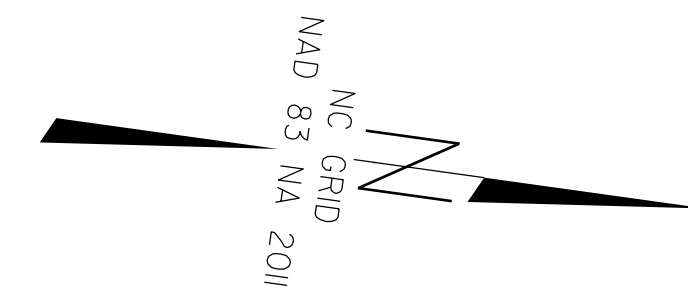
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 19 day of July, 2021.

Mark A. Parris
Professional Land Surveyor L-4529

-L-	-DR15-	-DR15-	-DR15-
PI Sta 127+30.02	PI Sta 11+99.43	PI Sta 12+96.26	PI Sta 13+52.13
$\Delta = 23^{\circ} 20' 58.3" (LT)$	$\Delta = 73^{\circ} 27' 47.3" (RT)$	$\Delta = 52^{\circ} 13' 28.3" (LT)$	$\Delta = 22^{\circ} 25' 31.3" (RT)$
$D = 2^{\circ} 4' 46.6"$	$D = 60^{\circ} 00' 00.0"$	$D = 60^{\circ} 00' 00.0"$	$D = 67^{\circ} 29' 52.7"$
$L = 865.99'$	$L = 122.44'$	$L = 87.04'$	$L = 33.22'$
$T = 439.09'$	$T = 74.62'$	$T = 49.02'$	$T = 17.84'$
$R = 2,125.00'$	$R = 100.00'$	$R = 100.00'$	$R = 90.00'$



NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED MAY 2021 TO JULY 2021 .

REVISIONS

C:\Users\m32012-19_R-5861_RDM\Survey\Data - Work\to_send\VR5861_1s_RW12.dgn
 2021/07/19 10:35
 JGP:don

-L-		-Y8-		-Y9-	
PI Sta 127+30.02	PI Sta 135+82.23	PI Sta 10+55.66	PI Sta 11+22.32	PI Sta 14+31.88	
$\Delta = 23^\circ 20' 58.3" (LT)$	$\Delta = 16^\circ 58' 31.5" (LT)$	$\Delta = 24^\circ 56' 46.9" (RT)$	$\Delta = 73^\circ 19' 25.7" (RT)$	$\Delta = 22^\circ 17' 24.8" (LT)$	
D = 2' 4" 46.6"	D = 2' 00' 37.4"	D = 35' 48' 35.5"	D = 45' 50' 11.8"	D = 20' 06' 13.6"	
L = 865.99'	L = 844.39'	L = 69.66'	L = 159.97'	L = 110.88'	
T = 439.09'	T = 425.31'	T = 35.39'	T = 93.04'	T = 56.15'	
R = 2,125.00'	R = 2,850.00'	R = 160.00'	R = 125.00'	R = 285.00'	

I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 is day of July, 2021.

Professional Land Surveyor L-4529

Location and Surveys



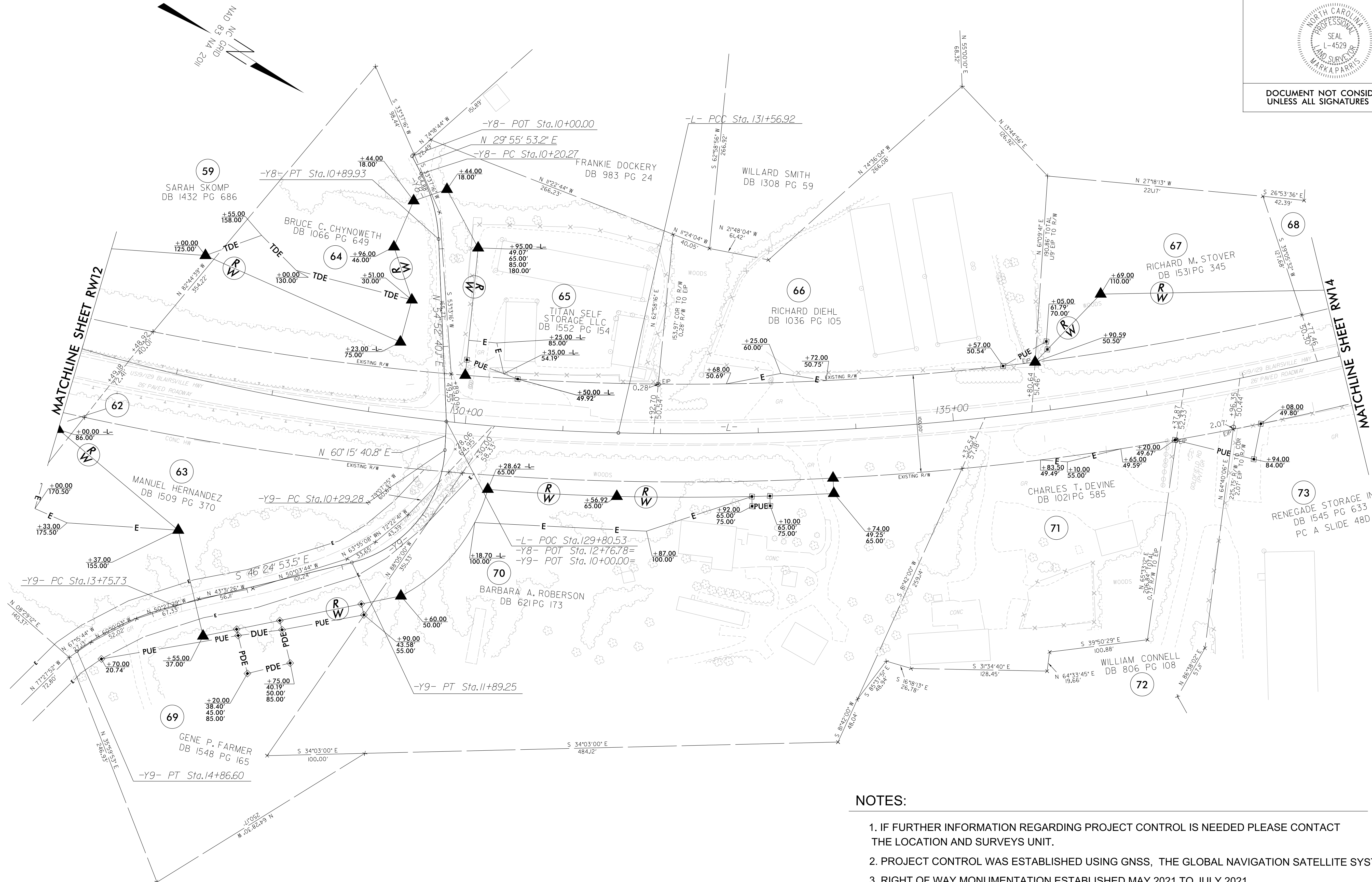
1318-F Patton Avenue
Asheville, NC 28806
Firm License # F-1088

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS



NOTES:

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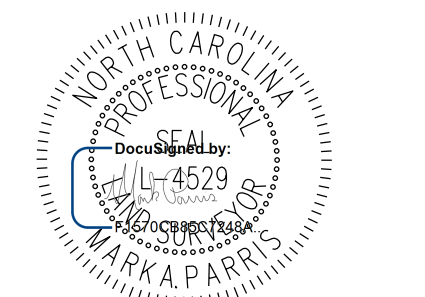
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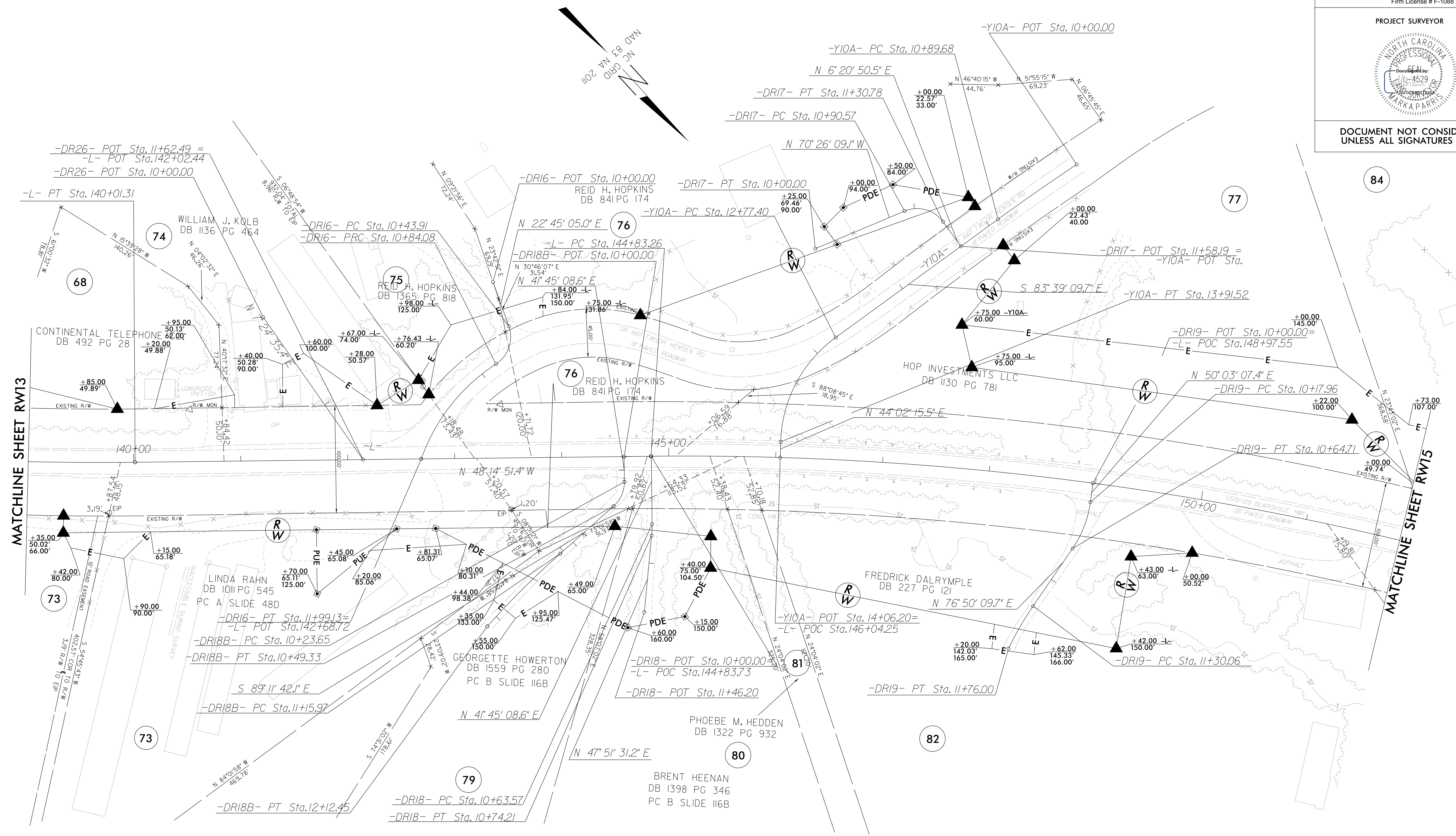
-L-		-Y10A-		-DR16-		-DR17-		-DR18-	
PI Sta 135+82.23	PI Sta 151+02.43	PI Sta 10+44.85	PI Sta 13+38.78	PI Sta 10+67.65	PI Sta 11+43.77	PI Sta 11+14.34	PI Sta 10+68.89	PI Sta 10+68.89	PI Sta 10+68.89
$\Delta = 16^{\circ} 58' 31.5" (LT)$	$\Delta = 24^{\circ} 25' 52.3" (RT)$	$\Delta = 2^{\circ} 20' 08.2" (LT)$	$\Delta = 52^{\circ} 18' 34.8" (LT)$	$\Delta = 76^{\circ} 43' 07.2" (RT)$	$\Delta = 37^{\circ} 40' 05.5" (LT)$	$\Delta = 76^{\circ} 46' 59.6" (RT)$	$\Delta = 6^{\circ} 05' 49.0" (RT)$	$\Delta = 57^{\circ} 17' 44.8"$	$\Delta = 6^{\circ} 05' 49.0" (RT)$
D = 2' 00' 37.4"	D = 2' 00' 12.1"	D = 2' 36' 15.7"	D = 45' 50' 11.8"	D = 190' 59' 09.4"	D = 32' 44' 25.6"	D = 190' 59' 09.4"	D = 40.20'	D = 10.64'	D = 57' 17' 44.8"
L = 844.39'	L = 1,219.52'	L = 89.68'	L = 114.12'	L = 40.17'	L = 115.05'	L = 40.20'	L = 10.64'	L = 10.64'	L = 10.64'
T = 425.31'	T = 619.17'	T = 44.85'	T = 61.39'	T = 23.74'	T = 59.69'	T = 23.77'	T = 5.33'	T = 5.33'	T = 5.33'
R = 2,850.00'	R = 2,860.00'	R = 2,200.00'	R = 125.00'	R = 30.00'	R = 175.00'	R = 30.00'	R = 100.00'	R = 100.00'	R = 100.00'

I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 19 day of July, 2021.

Professional Land Surveyor L-4529

PROJECT REFERENCE NO.	SHEET NO.
R-5861	RW14
Location and Surveys	
 1318-F Patton Avenue Asheville, NC 28806 Firm License # F-1088	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-DR18B-		-DR19-	
PI Sta 10+37.34	PI Sta 11+64.26	PI Sta 10+41.77	PI Sta 11+53.07
$\Delta = 49^{\circ} 03' 09.3" (RT)$	$\Delta = 6^{\circ} 39' 37.5" (LT)$	$\Delta = 26^{\circ} 47' 02.3" (RT)$	$\Delta = 8^{\circ} 46' 24.5" (LT)$
D = 190' 59' 09.4"	D = 6' 54' 11.2"	D = 57' 17' 44.8"	D = 19' 05' 54.9"
L = 25.68'	L = 96.48'	L = 46.75'	L = 45.94'
T = 13.69'	T = 48.30'	T = 23.81'	T = 23.01'
R = 30.00'	R = 830.00'	R = 100.00'	R = 300.00'

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 MAY 2021 TO JULY 2021 .

REVISIONS

20-JUL-2021 11:32
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 AT WKS-1903P-29
 Jcgaradon

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 MAY 2021 TO JULY 2021 .

I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 19 day of July, 2021.

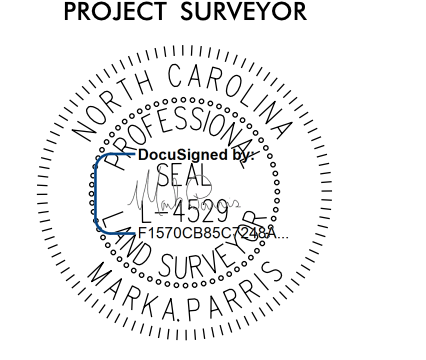
Mark A. Parris
Professional Land Surveyor L-4529

Location and Surveys

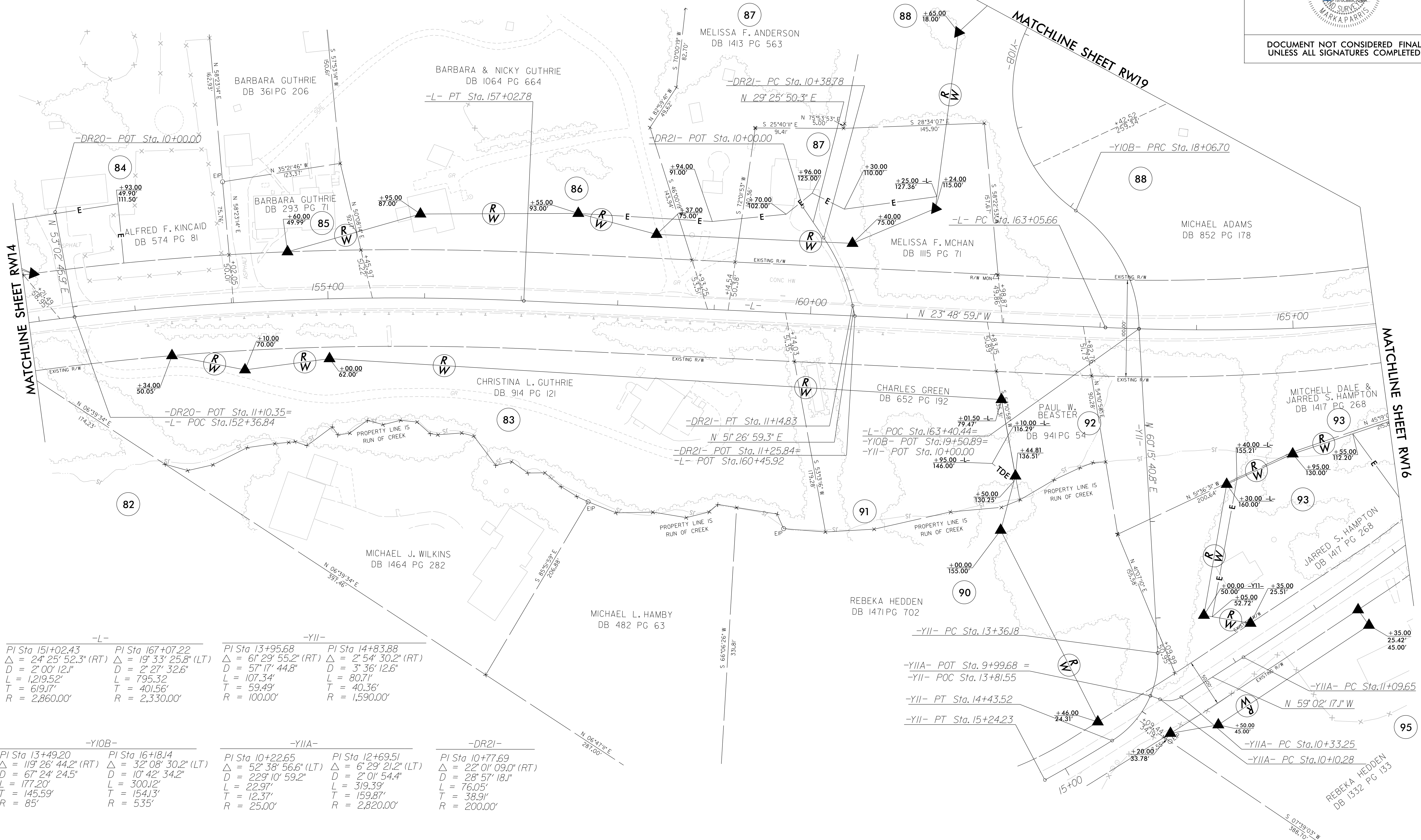


1318-F Patton Avenue
Asheville, NC 28906
Firm License # F-1088

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



-L-		-Y11-		-DR21-	
PI Sta 151+02.43	PI Sta 167+07.22	PI Sta 13+95.68	PI Sta 14+83.88	PI Sta 10+77.69	
Δ = 24° 25' 52.3" (RT)	Δ = 19° 33' 25.8" (LT)	Δ = 61° 29' 55.2" (RT)	Δ = 2° 54' 30.2" (RT)	Δ = 22° 01' 09.0" (RT)	
D = 2' 00' 12.1"	D = 2' 27' 32.6"	D = 57' 17' 44.8"	D = 3' 36' 12.6"	D = 28' 57' 18.1"	
L = 1,219.52'	L = 795.32'	L = 107.34'	L = 80.71'	L = 76.05'	
T = 619.17'	T = 401.56'	T = 59.49'	T = 40.36'	T = 38.91'	
R = 2,860.00'	R = 2,330.00'	R = 100.00'	R = 1,590.00'	R = 200.00'	
-Y10B-		-Y11A-			
PI Sta 13+49.20	PI Sta 16+18.14	PI Sta 10+22.65	PI Sta 12+69.51	PI Sta 10+77.69	
Δ = 119° 26' 44.2" (RT)	Δ = 32° 08' 30.2" (LT)	Δ = 52° 38' 56.6" (LT)	Δ = 6° 29' 21.2" (LT)	Δ = 22° 01' 09.0" (RT)	
D = 67' 24' 24.5"	D = 10' 42' 34.2"	D = 229' 10' 59.2"	D = 2' 01' 54.4"	D = 28' 57' 18.1"	
L = 177.20'	L = 300.12'	L = 22.97'	L = 319.39'	L = 76.05'	
T = 145.59'	T = 154.13'	T = 12.37'	T = 159.87'	T = 38.91'	
R = 85'	R = 535'	R = 25.00'	R = 2,820.00'	R = 200.00'	

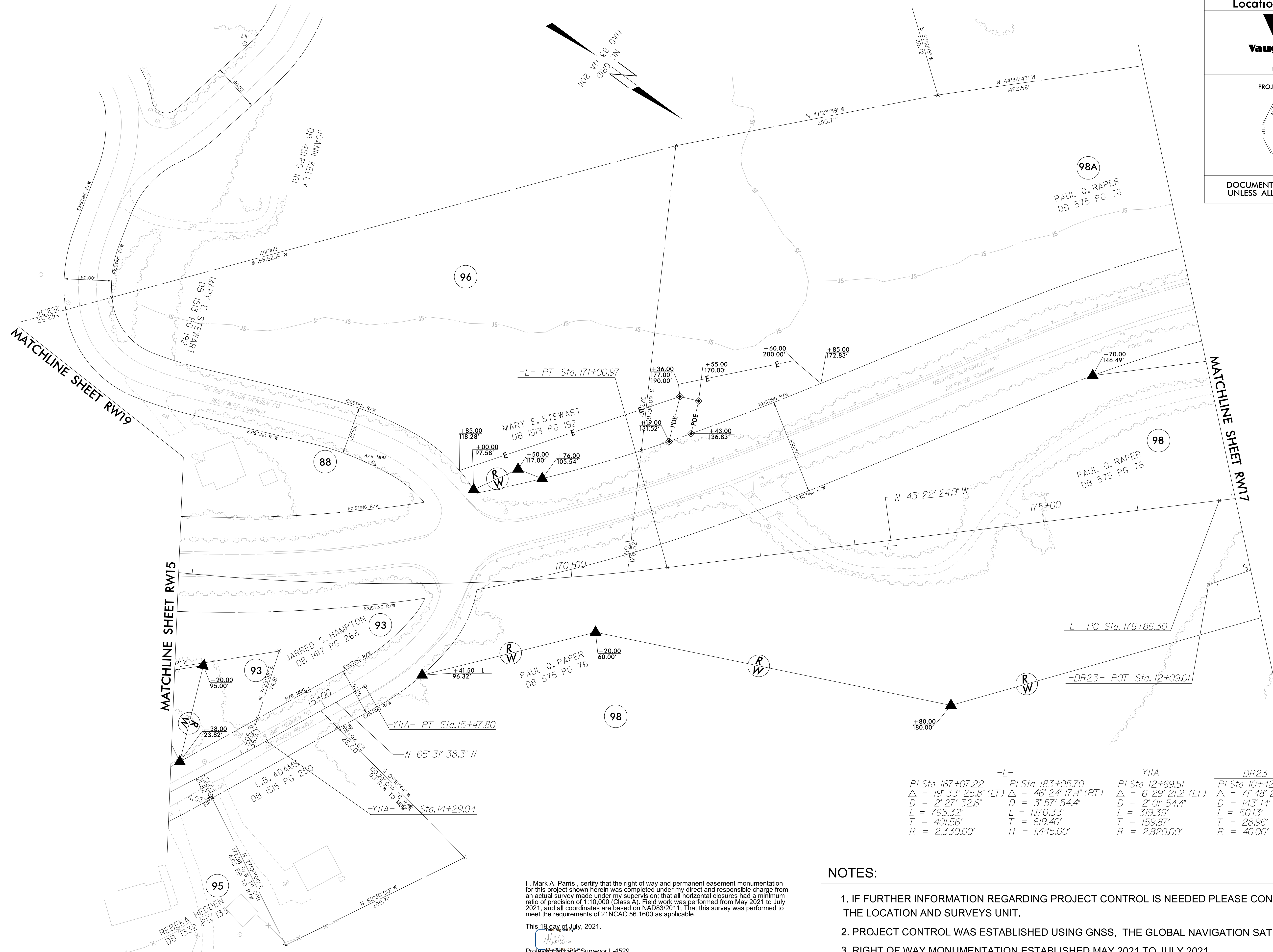
REVISIONS

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REVISIONS

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20-00000000-19_R-5861_RDM_Survey_Data - 10/3/2019



PROJECT REFERENCE NO. R-5861	SHEET NO. RW16
Location and Surveys	
 1318-F Patton Avenue Asheville, NC 28906 Firm License # F-1088	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L-	-YIIA-	-DR23-
PI Sta 167+07.22	PI Sta 183+05.70	PI Sta 12+69.51
$\Delta = 19' 33" 25.8"$ (LT)	$\Delta = 46' 24' 17.4"$ (RT)	$\Delta = 6' 29' 21.2"$ (LT)
$D = 2' 27' 32.6"$	$D = 3' 57' 54.4"$	$D = 2' 01' 54.4"$
$L = 795.32'$	$L = 1,170.33'$	$L = 319.39'$
$T = 401.56'$	$T = 619.40'$	$T = 159.87'$
$R = 2,330.00'$	$R = 1,445.00'$	$R = 2,820.00'$

I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 19 day of July, 2021.

Professional Land Surveyor L-4529

- NOTES:**
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
 2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
 3. RIGHT OF WAY MONUMENTATION ESTABLISHED MAY 2021 TO JULY 2021 .

REVISIONS

-L-		-DR22-	
PI Sta 183+05.70	PI Sta 191+58.44	PI Sta 12+07.98	
$\Delta = 46^{\circ} 24' 17.4''$ (RT)	$\Delta = 17^{\circ} 17' 27.2''$ (LT)	$\Delta = 85^{\circ} 09' 35.0''$ (LT)	
D = 3' 57' 54.4"	D = 2' 53' 11.2"	D = 95' 29' 34.7"	
L = 1,170.33'	L = 599.04'	L = 891.8'	
T = 619.40'	T = 301.81'	T = 55.13'	
R = 1,445.00'	R = 1,985.00'	R = 60.00'	

I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 19 day of July, 2021.

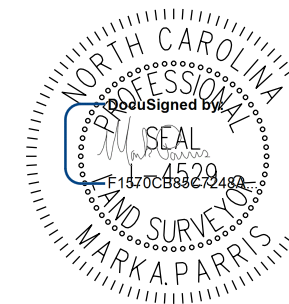
Professional Land Surveyor L-4529

Location and Surveys

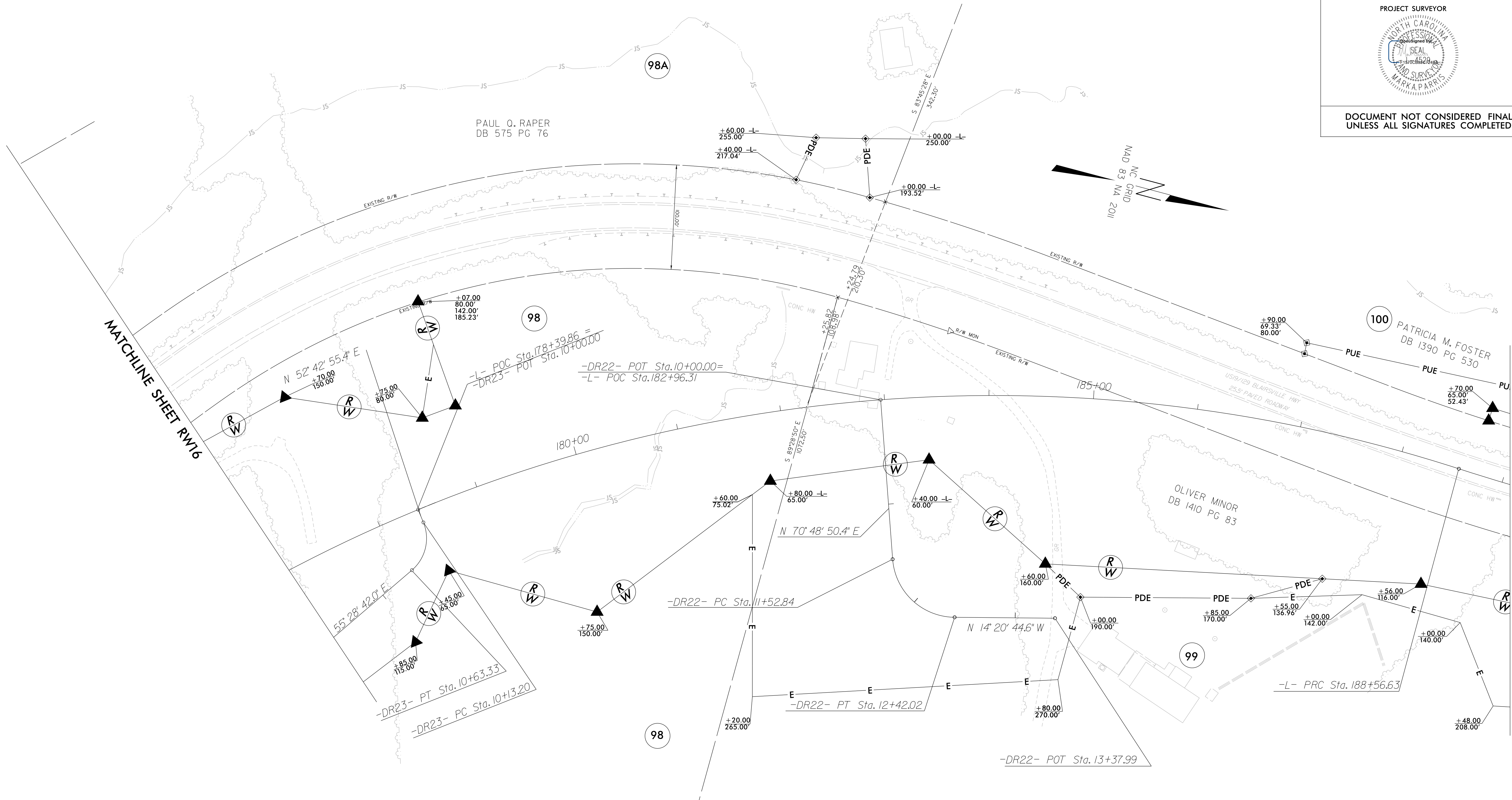


1318-F Patton Avenue
Asheville, NC 28806
Firm License # F-1088

PROJECT SURVEYOR



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UNLESS ALL SIGNATURES COMPLETED



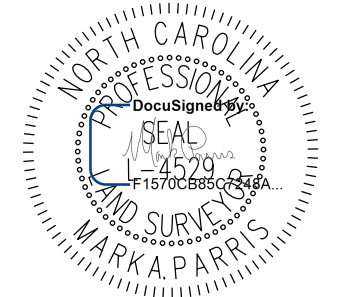
NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED MAY 2021 TO JULY 2021 .

Location and Surveys



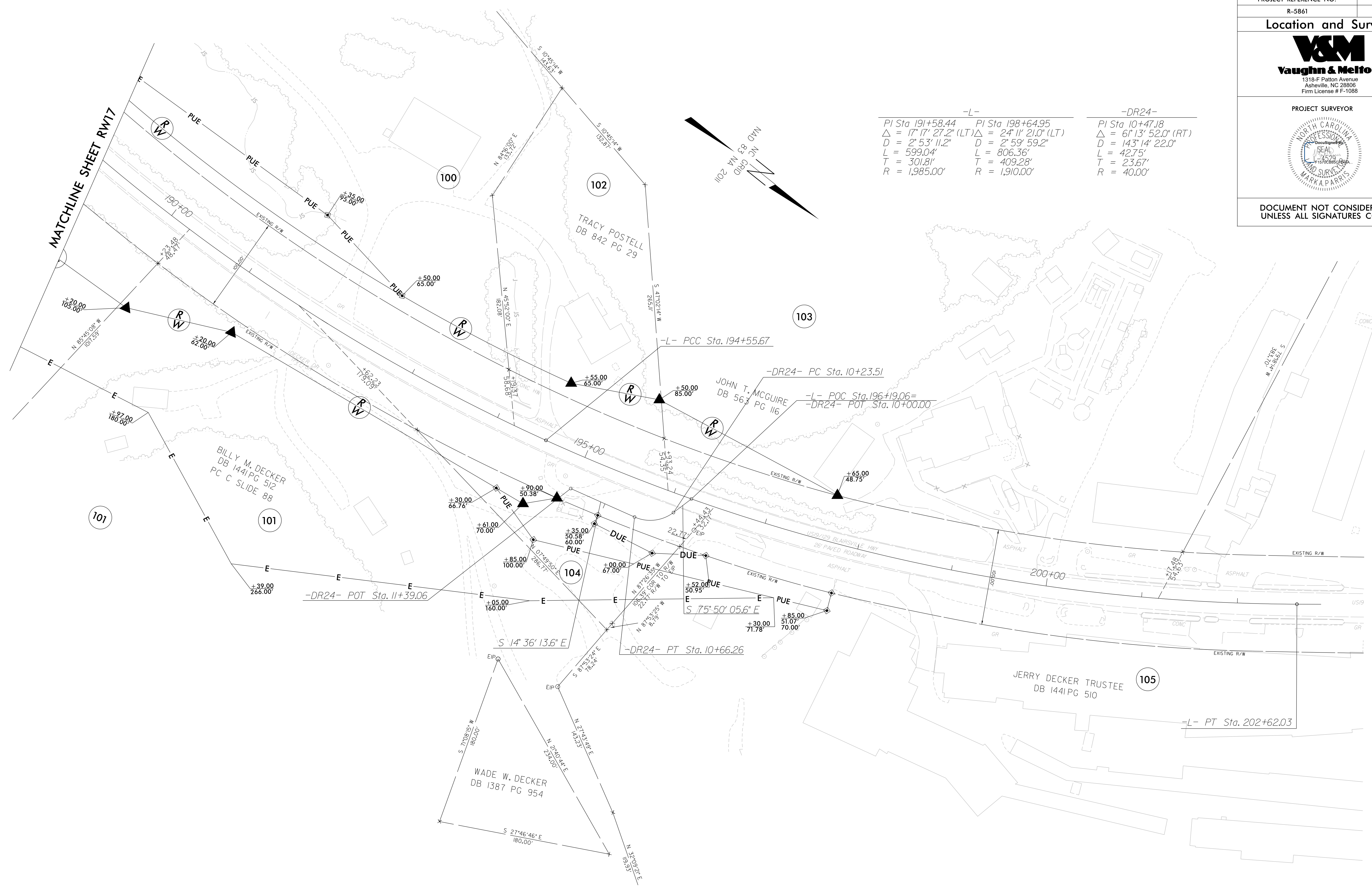
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L-		-DR24-	
PI Sta 191+58.44	PI Sta 198+64.95	PI Sta 10+47.18	
$\Delta = 17^{\circ} 17' 27.2''$ (LT)	$\Delta = 24^{\circ} 11' 21.0''$ (LT)	$\Delta = 61^{\circ} 13' 52.0''$ (RT)	
D = 2' 53' 11.2"	D = 2' 59' 59.2"	D = 143' 14' 22.0"	
L = 599.04'	L = 806.36'	L = 42.75'	
T = 301.81'	T = 409.28'	T = 23.67'	
R = 1,985.00'	R = 1,910.00'	R = 40.00'	

REVISIONS



I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 is a true and correct copy of the original survey as shown on the field notes.
 Mark A. Parris
 Professional Land Surveyor L-4529

NOTES:

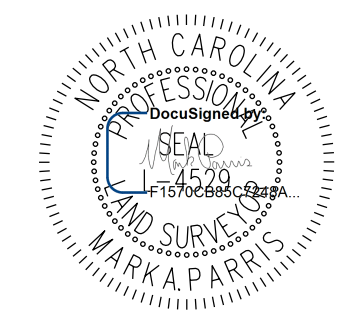
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED MAY 2021 TO JULY 2021 .

I:\AUC-2021\09-15-2021-19_R-5861_RDM\Survey\Draw - Work\to_send\VR5861_1s_RW18.dgn
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Location and Surveys



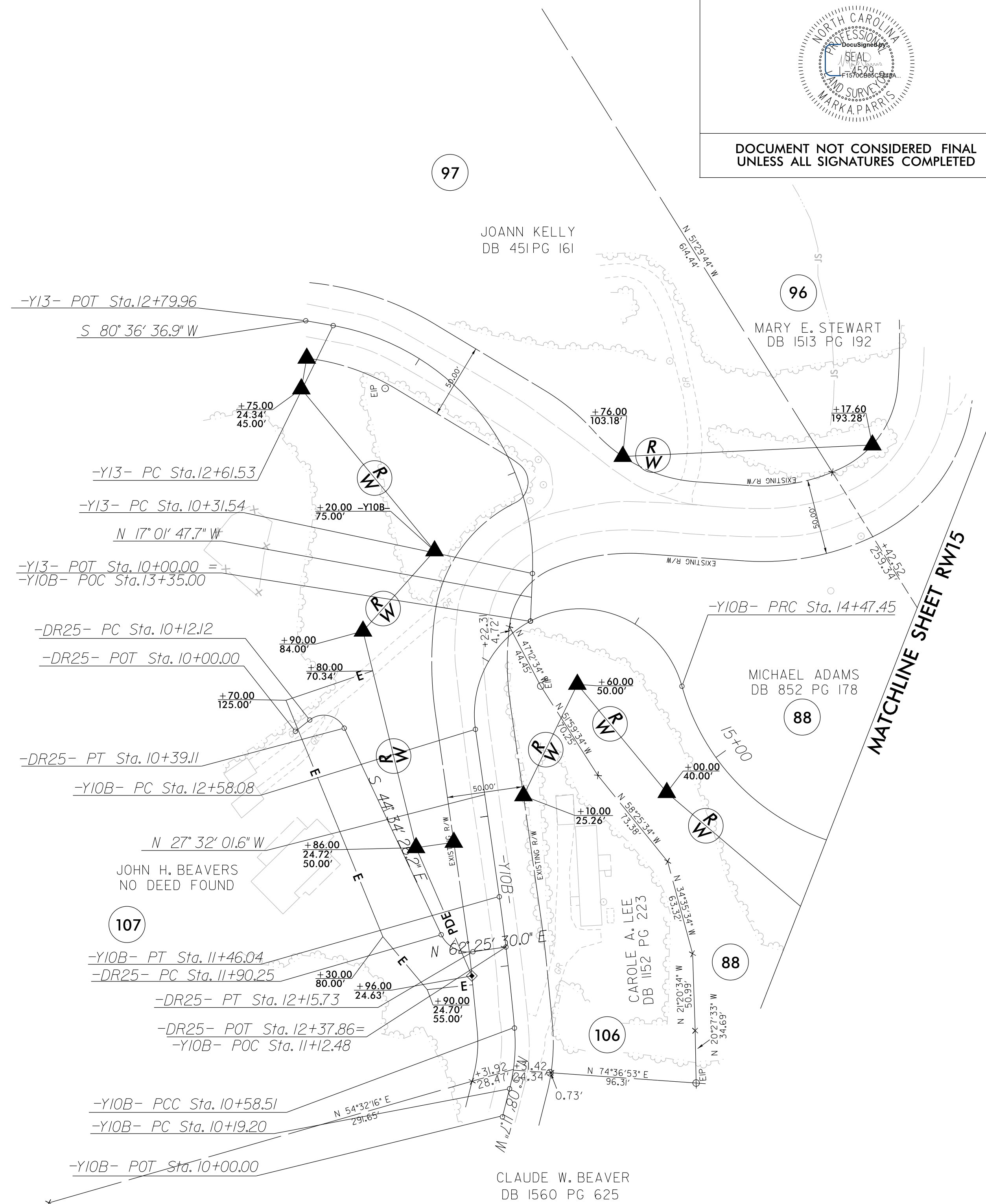
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-Y10B-				-Y13-		-DR25-	
PI Sta 10+39.67	PI Sta 11+02.29	PI Sta 13+52.77	PI Sta 18+30.42	PI Sta 11+71.51	PI Sta 10+31.01	PI Sta 12+05.05	
$\Delta = 19^{\circ} 21' 25.9''$ (LT)	$\Delta = 3^{\circ} 02' 24.0''$ (LT)	$\Delta = 17^{\circ} 38' 45.0''$ (RT)	$\Delta = 13^{\circ} 13' 19.0''$ (LT)	$\Delta = 82^{\circ} 21' 35.4''$ (LT)	$\Delta = 103^{\circ} 05' 47.7''$ (RT)	$\Delta = 73^{\circ} 00' 03.8''$ (LT)	
D = 49' 14" 55.1"	D = 3' 28" 22.8"	D = 9' 10" 09.8"	D = 38' 11" 49.9"	D = 35' 48" 35.5"	D = 38' 58" 18.7"	D = 286' 28" 44.0"	
L = 39.31'	L = 87.53'	L = 189.37'	L = 359.25'	L = 229.99'	L = 26.99'	L = 25.48'	
T = 20.47'	T = 43.78'	T = 1,089.23'	T = 382.97'	T = 139.97'	T = 18.89'	T = 14.80'	
R = 120.00'	R = 1,650.00'	R = 70.00'	R = 150.00'	R = 160.00'	R = 15.00'	R = 20.00'	

REVISIONS



Work to send VR5861_1s_RW19.dgn

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I, Mark A. Paris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from May 2021 to July 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 19 day of July, 2021.

Professional Land Surveyor L-4529

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED MAY 2021 TO JULY 2021 .