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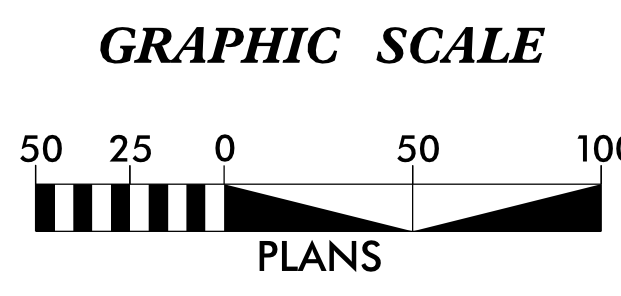
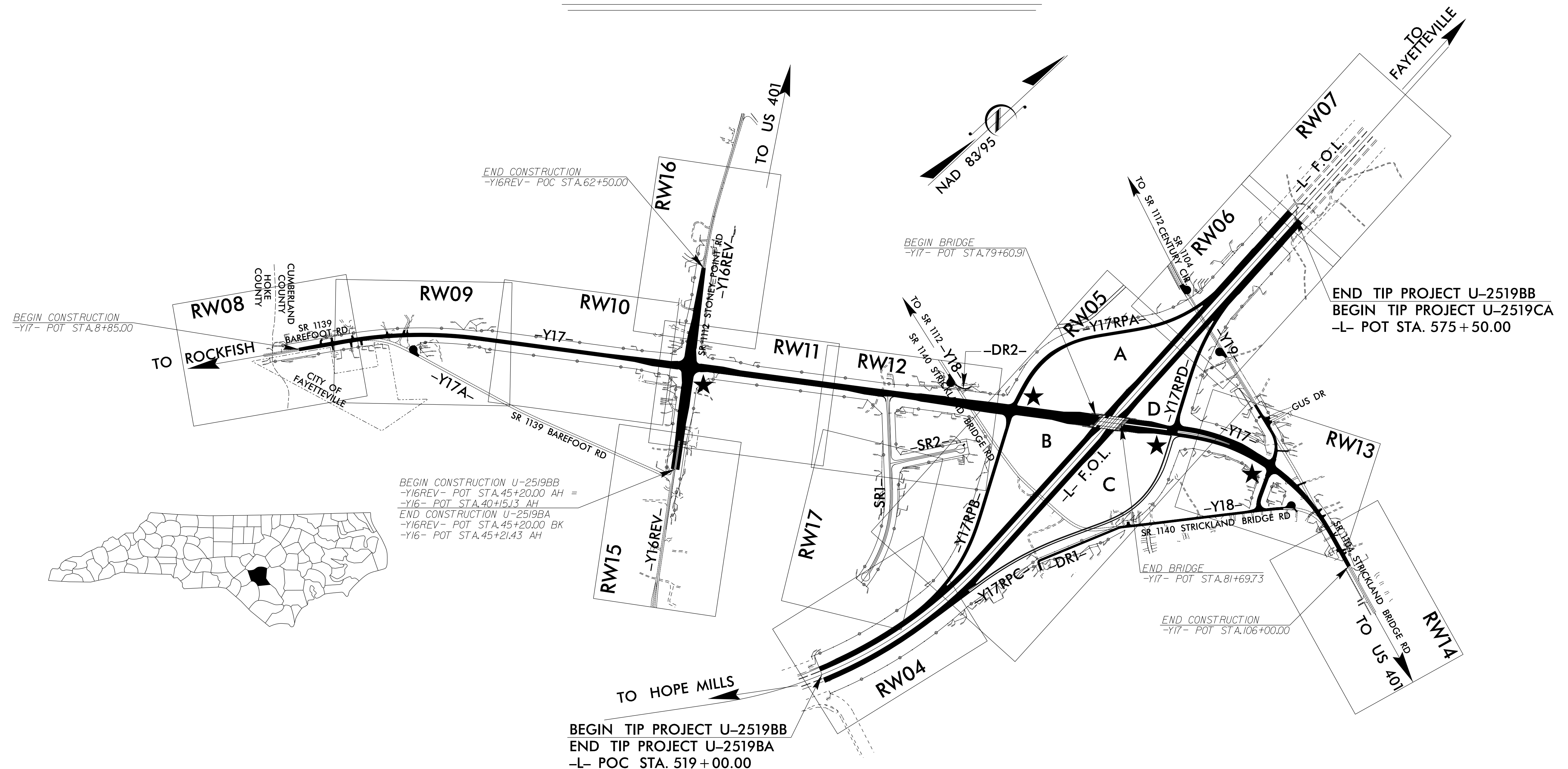
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TIP PROJECT: U-2519BB

| | | | |
|-------|-----------------------------|-----------|--------------|
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
| N.C. | U-2519BB | RW01 | 31 |

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

CUMBERLAND COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "BREEZE" WITH NAD 83/95 STATE PLANE GRID COORDINATES OF: NORTHING: 455,401.488 (FT) EASTING: 2,024,426.703 (FT) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS 0.999880000 THE N.C. LAMBERT GRID BEARING & LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BREEZE" TO -L- STATION 519+00.00 IS N88°48'27.9"E 35,208.196' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES. VERTICAL DATUM USED IS NAVD 88.

Prepared in the Office of:

Dewberry Engineers Inc.
 2610 Wycliff Road
 Raleigh, NC 27607

2018 STANDARD SPECIFICATIONS

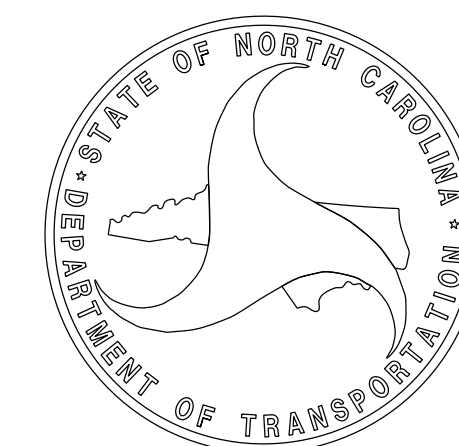
RIGHT OF WAY DATE:
SEPTEMBER 29, 2016

LETTING DATE:
JUNE 21, 2022

PROFESSIONAL LAND SURVEYOR



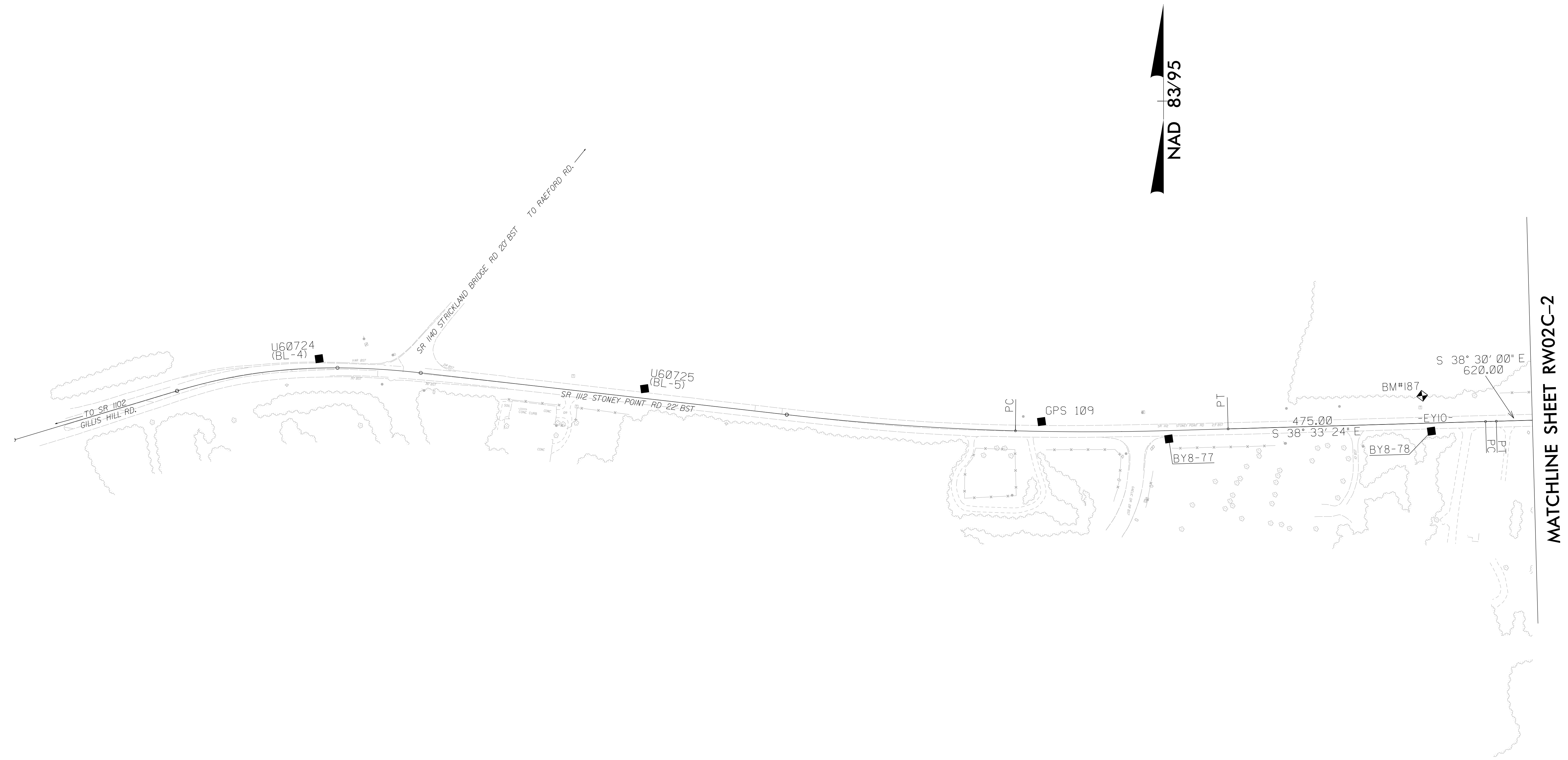
DocuSigned by:
 Adam Hales
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 3/9/2022
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| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW02C-1 |
| Location and Surveys | |
| NCDOT LOCATION & SURVEYS DIVISION 6 FIELD OFFICE | |

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



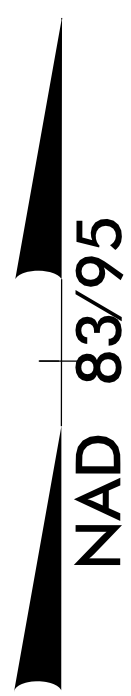
NOTES:

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

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| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW02C-2 |
| Location and Surveys | |
| NCDOT LOCATION & SURVEYS DIVISION 6 FIELD OFFICE | |

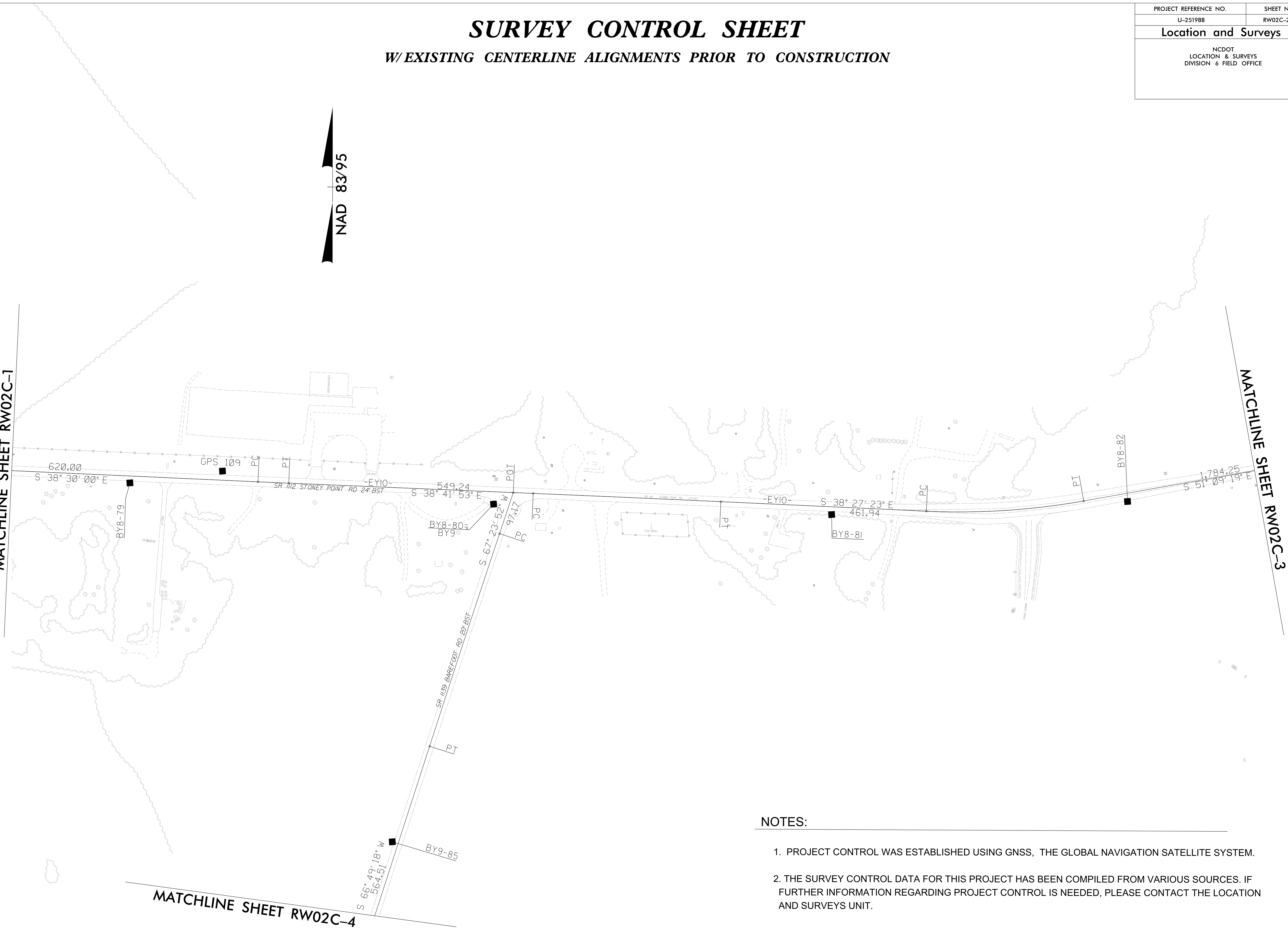
SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



MATCHLINE SHEET RW02C-1

MATCHLINE SHEET RW02C-3



NOTES:

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MATCHLINE SHEET RW02C-4

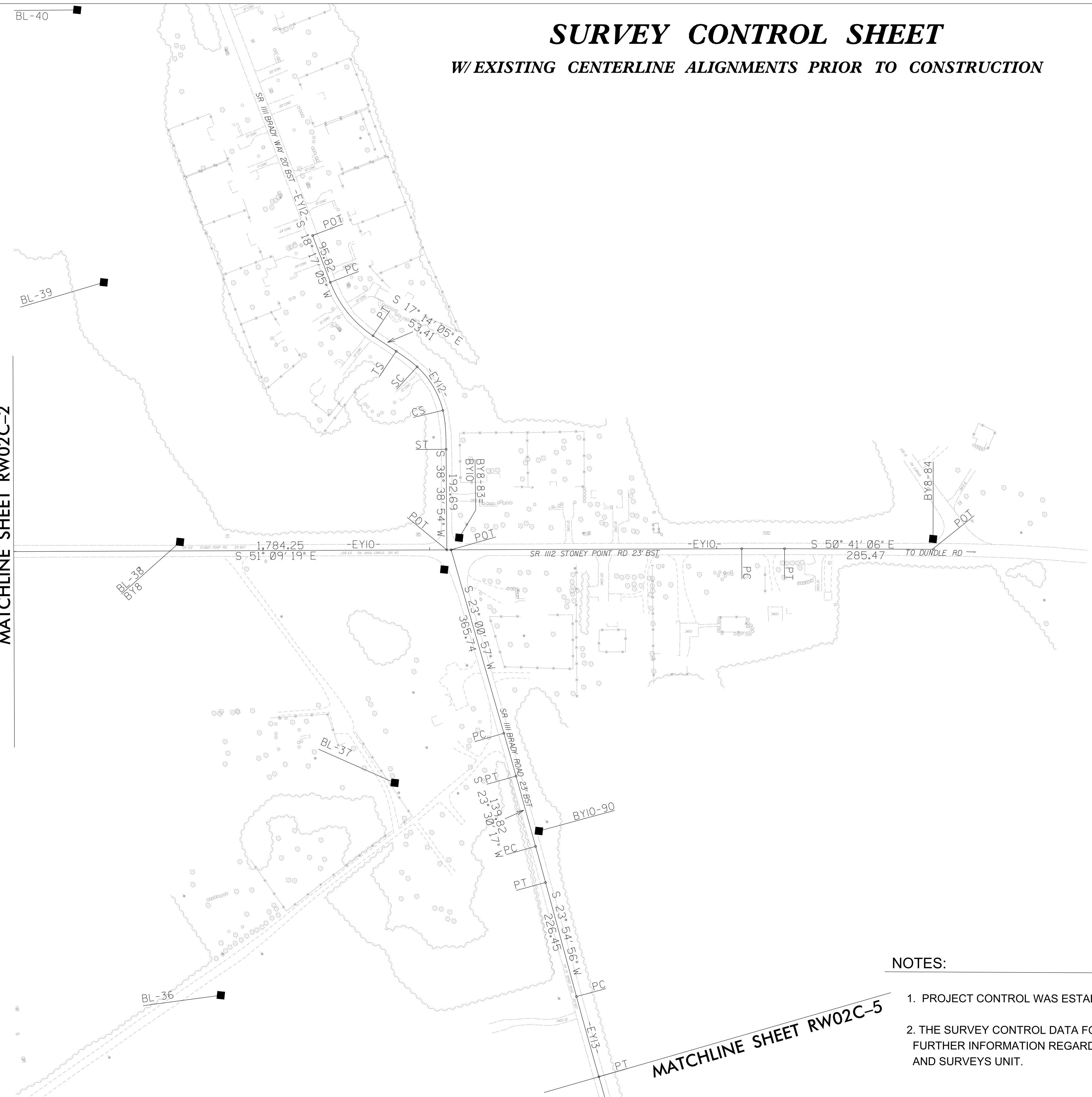
6/2/09

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|--|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW02C-3 |
| Location and Surveys | |
| NCDOT LOCATION & SURVEYS DIVISION 6 FIELD OFFICE | |

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

MATCHLINE SHEET RW02C-2



NOTES:

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2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

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 wilson AT DIV06-314142

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| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW02C-4 |
| Location and Surveys | |
| NCDOT LOCATION & SURVEYS DIVISION 6 FIELD OFFICE | |

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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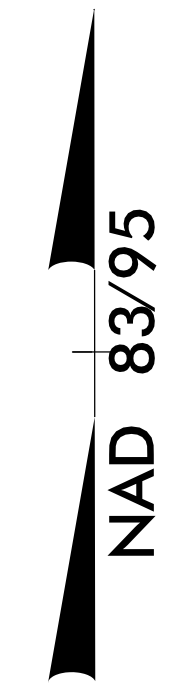
MATCHLINE SHEET RW02C-3



SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

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| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW02C-5 |
| Location and Surveys | |
| NCDOT LOCATION & SURVEYS DIVISION 6 FIELD OFFICE | |



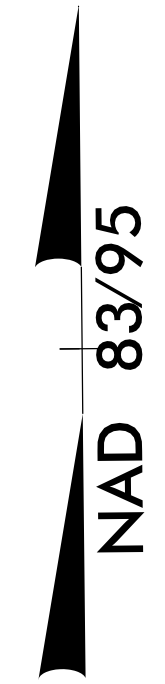
NOTES:

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| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW02C-6 |
| Location and Surveys | |
| NCDOT LOCATION & SURVEYS DIVISION 6 FIELD OFFICE | |

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



NOTES:

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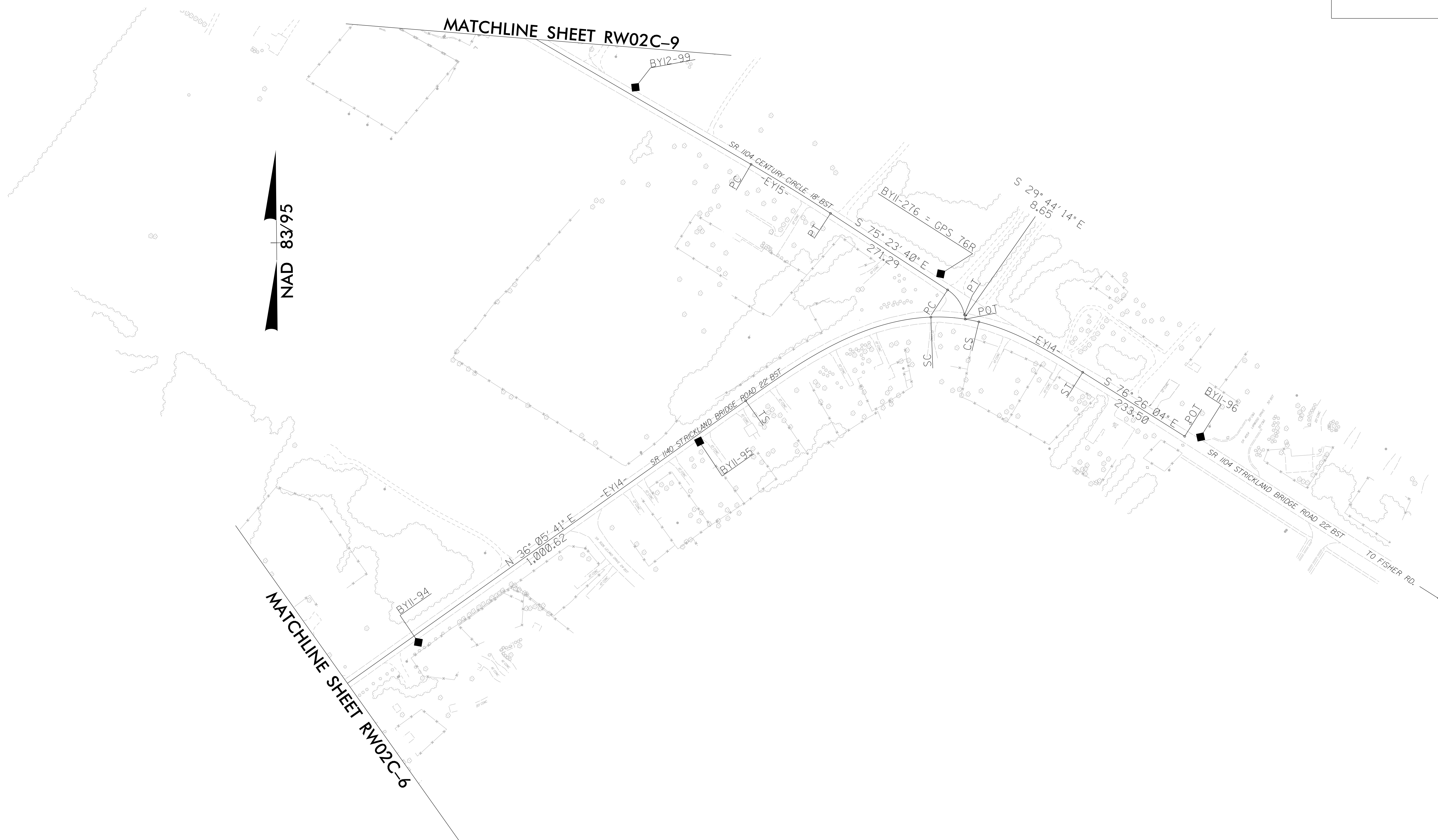
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|--|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW02C-7 |
| Location and Surveys | |
| NCDOT LOCATION & SURVEYS DIVISION 6 FIELD OFFICE | |

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

REVISIONS

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wilson AT DIV06-314142



NOTES:

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

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| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW02C-8 |
| Location and Surveys | |
| NCDOT LOCATION & SURVEYS DIVISION 6 FIELD OFFICE | |



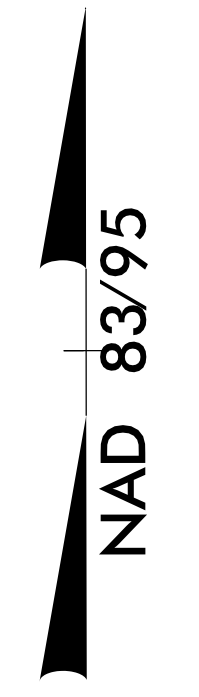
NOTES:

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| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW02C-9 |
| Location and Surveys | |
| NCDOT LOCATION & SURVEYS DIVISION 6 FIELD OFFICE | |

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

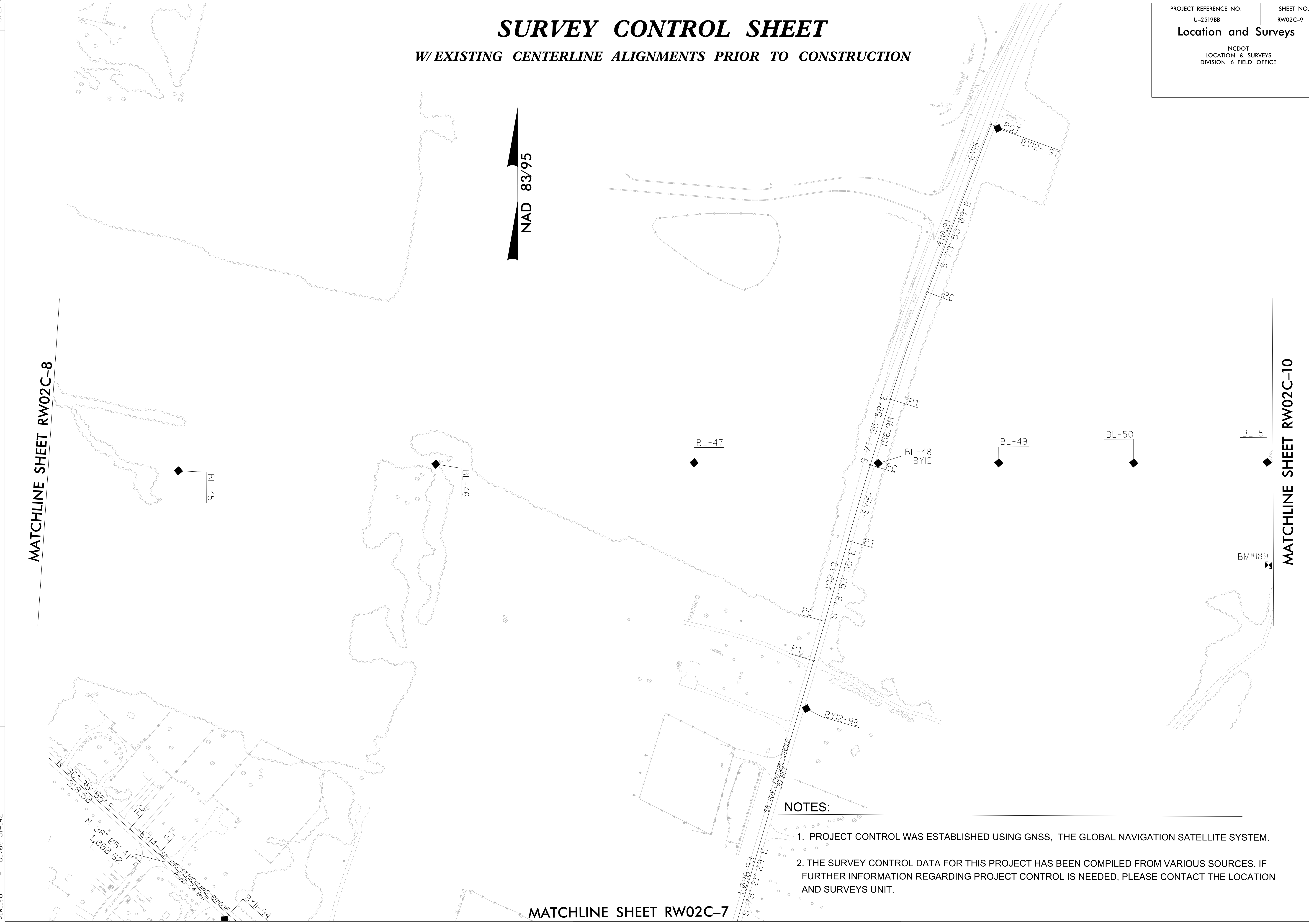


REVISIONS

MATCHLINE SHEET RW02C-8

MATCHLINE SHEET RW02C-10

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 wilson AT DIV06-314142



NOTES:

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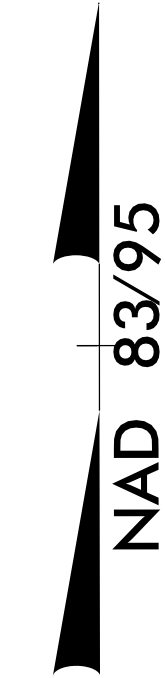
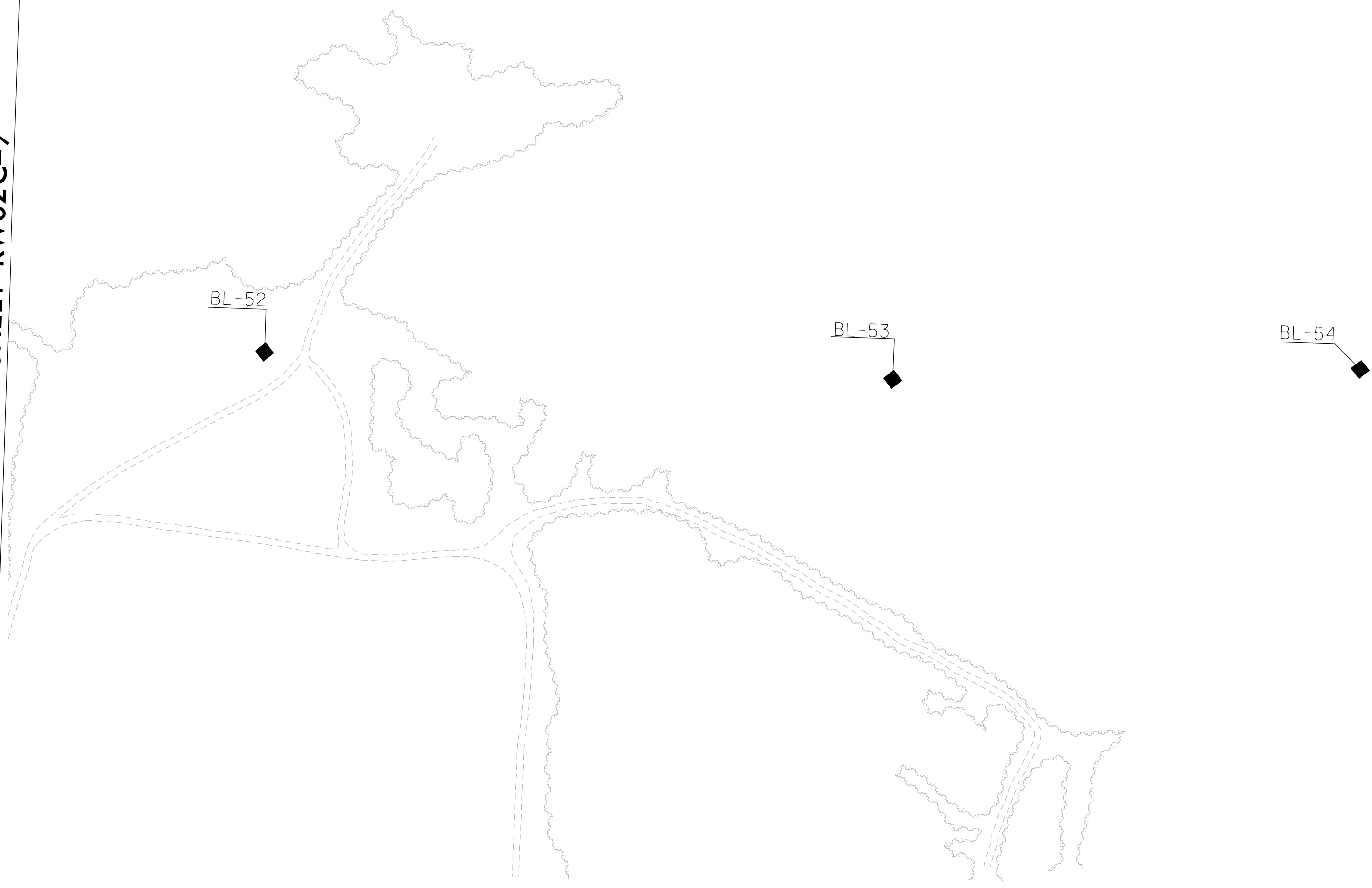
MATCHLINE SHEET RW02C-7

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REVISIONS

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MATCHLINE SHEET RW02C-9



SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

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| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW02C-10 |
| Location and Surveys | |
| NCDOT LOCATION & SURVEYS DIVISION 6 FIELD OFFICE | |

NOTES:

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

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|--|-----------------------|
| PROJECT REFERENCE NO. U-2519BB | SHEET NO. RW02C-11 |
| Location and Surveys | |
| NCDOT LOCATION & SURVEYS DIVISION 6 FIELD OFFICE | |

REVISIONS

| BL | POINT | DESC. | NORTH | EAST | ELEVATION |
|----|-------|-------|-------------|--------------|-----------|
| 32 | | | 451099.5160 | 1987403.7670 | 205.76 |
| 33 | | | 451602.8640 | 1987502.4130 | 203.50 |
| 34 | | | 452050.8000 | 1987662.3640 | 197.01 |
| 35 | | | 452407.3910 | 1987839.8140 | 199.83 |
| 36 | | | 452740.9470 | 1988043.8260 | 209.11 |
| 37 | | | 452846.9000 | 1988559.0610 | 219.82 |
| 38 | | | 453464.4280 | 1988530.7290 | 217.96 |
| 39 | | | 453942.6210 | 1988730.9060 | 214.87 |
| 40 | | | 454388.6360 | 1989026.7400 | 211.02 |
| 41 | | | 455073.2000 | 1989310.9010 | 210.96 |
| 42 | | | 455619.7120 | 1989382.0730 | 213.09 |
| 43 | | | 456460.2110 | 1989390.2400 | 209.00 |
| 44 | | | 457038.8790 | 1989310.5810 | 208.64 |
| 45 | | | 457541.9120 | 1989302.3970 | 206.10 |
| 46 | | | 458126.9620 | 1989238.7900 | 210.19 |
| 47 | | | 458715.5020 | 1989186.9320 | 207.29 |
| 48 | | | 459134.7510 | 1989153.6930 | 205.20 |
| 49 | | | 459409.5650 | 1989130.1010 | 194.49 |
| 50 | | | 459716.9100 | 1989104.8040 | 191.09 |
| 51 | | | 460021.0460 | 1989078.0710 | 207.35 |
| 52 | | | 460313.2610 | 1989052.6070 | 207.34 |
| 53 | | | 460996.8020 | 1989000.1340 | 194.43 |
| 54 | | | 461501.6360 | 1988928.2250 | 145.90 |

| BY11 | POINT | DESC. | NORTH | EAST | ELEVATION |
|------|-------|-------|-------------|--------------|-----------|
| 91 | | | 457216.2389 | 1987935.6477 | 212.82 |
| 92 | | | 457110.9870 | 1988524.4430 | 212.26 |
| 244 | | | 457038.8790 | 1989310.5810 | 208.64 |
| 93 | | | 457170.0420 | 1989898.4250 | 201.26 |
| 94 | | | 457731.4625 | 1990316.4125 | 211.32 |
| 95 | | | 458273.7520 | 1990708.8993 | 213.21 |
| 276 | | | 458731.1568 | 1991049.3404 | 218.44 |
| 96 | | | 458591.5893 | 1991627.7536 | 209.20 |

| BY8 | POINT | DESC. | NORTH | EAST | ELEVATION |
|-----|-------|-------|-------------|--------------|-----------|
| 77 | | | 456269.0730 | 1986007.1190 | 214.66 |
| 78 | | | 455890.4550 | 1986309.3840 | 213.61 |
| 79 | | | 455535.7080 | 1986591.0387 | 210.47 |
| 80 | | | 454889.1092 | 1987091.8140 | 213.96 |
| 81 | | | 454301.7561 | 1987573.0711 | 216.33 |
| 82 | | | 453820.4870 | 1988031.9231 | 218.56 |
| 338 | | | 461503.2260 | 1988694.8670 | 141.66 |
| 83 | | | 453133.7535 | 1988950.8784 | 216.82 |
| 84 | | | 452559.8096 | 1989653.9479 | 216.05 |

.....
 186 ELEVATION = 208.51
 N 451124 E 1987248
 BL STATION 160+02.00 158 RIGHT

| BY9 | POINT | DESC. | NORTH | EAST | ELEVATION |
|------|-------|-------|-------------|--------------|-----------|
| 1180 | | | 454889.1092 | 1987091.8140 | 213.82 |
| 85 | | | 454561.9931 | 1986370.9152 | 208.92 |
| 86 | | | 454321.9281 | 1985793.7182 | 207.85 |
| 87 | | | 454077.3172 | 1985066.1310 | 216.14 |
| 88 | | | 453893.8334 | 1984593.9066 | 204.56 |
| 89 | | | 453295.2559 | 1984143.1959 | 168.89 |

.....
 187 ELEVATION = 216.48
 N 455943 E 1986351
 EY10 STATION 17+52.00 51 LEFT

| BY10 | POINT | DESC. | NORTH | EAST | ELEVATION |
|------|-------|-------|-------------|--------------|-----------|
| 1183 | | | 453133.7535 | 1988950.8784 | 217.10 |
| 90 | | | 452601.2536 | 1988715.2153 | 211.22 |

.....
 188 ELEVATION = 211.91
 N 457126 E 1988919
 EY14 STATION 22+60.00 57 LEFT

.....
 189 ELEVATION = 210.81
 N 460044 E 1989312
 L STATION 573+04.00 169 RIGHT

NOTES:

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

| | |
|--|-----------------------|
| PROJECT REFERENCE NO. U-2519BB | SHEET NO. RW02C-12 |
| Location and Surveys | |
| NCDOT LOCATION & SURVEYS DIVISION 6 FIELD OFFICE | |

EY10

| POINT | N | E | BEARING | DIST | DELTA | D | L | T | R |
|-------|------------|-------------|-----------------|---------|-----------------|-------------|--------|--------|-----------|
| PC | 456504.226 | 1985849.225 | | | | | | | |
| CURVE | | | S 37°25'58.7" E | 392.23 | 02°14'50.8"(LT) | 00°34'22.6" | 392.25 | 196.15 | 10000.00 |
| PT | 456192.772 | 1986087.634 | S 38°33'24.1" E | 475.00 | | | | | |
| LINE | | | | | | | | | |
| PC | 455821.326 | 1986383.696 | S 38°31'42.0" E | 19.79 | 00°03'24.1"(RT) | 00°17'11.3" | 19.79 | 9.89 | 20000.00 |
| CURVE | | | | | | | | | |
| PT | 455805.846 | 1986396.021 | S 38°30'00.0" E | 620.00 | | | | | |
| LINE | | | | | | | | | |
| PC | 455320.629 | 1986781.980 | S 38°35'56.5" E | 69.13 | 00°11'53.0"(LT) | 00°17'11.3" | 69.13 | 34.57 | 20000.00 |
| CURVE | | | | | | | | | |
| PT | 455266.598 | 1986825.111 | S 38°41'53.0" E | 549.24 | | | | | |
| LINE | | | | | | | | | |
| PC | 454837.944 | 1987168.504 | S 38°34'38.1" E | 421.71 | 00°14'29.8"(RT) | 00°03'26.3" | 421.71 | 210.86 | 100000.00 |
| CURVE | | | | | | | | | |
| PT | 454508.264 | 1987431.469 | S 38°27'23.2" E | 461.94 | | | | | |
| LINE | | | | | | | | | |
| PC | 454146.525 | 1987718.761 | S 44°48'20.8" E | 353.89 | 12°41'55.4"(LT) | 03°34'51.6" | 354.61 | 178.04 | 1600.00 |
| CURVE | | | | | | | | | |
| PT | 453895.441 | 1987968.149 | S 51°09'18.5" E | 1784.25 | | | | | |
| LINE | | | | | | | | | |
| PC | 452776.334 | 1989357.807 | S 50°55'12.4" E | 82.04 | 00°28'12.2"(RT) | 00°34'22.6" | 82.04 | 41.02 | 10000.00 |
| CURVE | | | | | | | | | |
| PT | 452724.616 | 1989421.493 | S 50°41'06.3" E | 285.47 | | | | | |
| LINE | | | | | | | | | |
| POT | 452543.747 | 1989642.354 | | | | | | | |

EY11

| POINT | N | E | BEARING | DIST | DELTA | D | L | T | R | DELTA S | Ls | LT | ST |
|--------|------------|-------------|-----------------|--------|-----------------|-------------|--------|--------|----------|-----------------|--------|--------|--------|
| POT | 454872.832 | 1987140.556 | | | | | | | | | | | |
| LINE | | | S 67°23'51.7" W | 97.17 | | | | | | | | | |
| PC | 454835.487 | 1987050.851 | S 67°06'34.7" W | 502.71 | 00°34'33.8"(LT) | 00°06'52.5" | 502.71 | 251.36 | 50000.00 | | | | |
| CURVE | | | | | | | | | | | | | |
| PT | 454639.949 | 1986587.729 | S 66°49'17.8" W | 564.51 | | | | | | | | | |
| LINE | | | | | | | | | | | | | |
| PC | 454417.760 | 1986068.785 | S 69°15'50.6" W | 511.39 | 04°53'05.6"(RT) | 00°57'17.7" | 511.55 | 255.93 | 6000.00 | | | | |
| CURVE | | | | | | | | | | | | | |
| PT | 454236.697 | 1985590.521 | S 71°42'23.5" W | 753.01 | | | | | | | | | |
| LINE | | | | | | | | | | | | | |
| TS | 454000.338 | 1984875.564 | S 67°43'44.8" W | 249.52 | | | | | | 11°56'11.8"(LT) | 250.00 | 167.05 | 83.68 |
| SPIRAL | | | | | | | | | | | | | |
| SC | 453905.774 | 1984644.660 | S 54°44'04.5" W | 105.32 | 10°04'14.4"(LT) | 09°32'57.5" | 105.46 | 52.87 | 6000.00 | | | | |
| CURVE | | | | | | | | | | | | | |
| CS | 453844.963 | 1984558.664 | S 38°33'15.8" W | 348.68 | | | | | | 16°42'40.6"(LT) | 350.00 | 234.38 | 117.62 |
| SPIRAL | | | | | | | | | | | | | |
| ST | 453572.291 | 1984341.348 | S 32°59'16.7" W | 238.34 | | | | | | | | | |
| LINE | | | | | | | | | | | | | |
| POT | 453372.374 | 1984211.580 | | | | | | | | | | | |

EY12

| POINT | N | E | BEARING | DIST | DELTA | D | L | T | R | DELTA S | Ls | LT | ST |
|--------|------------|-------------|-----------------|--------|-----------------|-------------|--------|-------|--------|-----------------|-------|-------|-------|
| POT | 453760.333 | 1989097.894 | | | | | | | | | | | |
| LINE | | | S 18°17'04.5" W | 95.82 | | | | | | | | | |
| PC | 453669.350 | 1989067.831 | S 00°31'30.0" W | 131.16 | 35°31'09.1"(LT) | 26°38'57.1" | 133.28 | 68.86 | 215.00 | | | | |
| CURVE | | | | | | | | | | | | | |
| PT | 453538.196 | 1989066.630 | S 17°14'04.6" E | 53.41 | | | | | | | | | |
| LINE | | | | | | | | | | | | | |
| TS | 453487.186 | 1989082.454 | S 14°20'29.2" E | 49.95 | | | | | | 08°40'52.2"(RT) | 50.00 | 33.37 | 16.70 |
| SPIRAL | | | | | | | | | | | | | |
| SC | 453438.793 | 1989094.826 | S 08°32'11.6" W | 96.98 | 34°10'48.0"(RT) | 34°43'29.0" | 98.43 | 50.73 | 165.00 | | | | |
| CURVE | | | | | | | | | | | | | |
| CS | 453342.889 | 1989080.431 | S 34°18'34.7" W | 74.83 | | | | | | 13°01'18.4"(RT) | 75.00 | 50.14 | 25.12 |
| SPIRAL | | | | | | | | | | | | | |
| ST | 453281.081 | 1989038.253 | S 38°38'54.0" W | 192.69 | | | | | | | | | |
| LINE | | | | | | | | | | | | | |
| POT | 453130.589 | 1988917.909 | | | | | | | | | | | |

REVISIONS

I:\MAR-2022_09\01_C:\Projects\Control_Sheets\ur-2519bb\Final-LET_control_sheets\revised_C-series-220302\ur2519bb.ls_rw02c-12.dgn
 At DIV06-314142
 wwilson

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. |
| U-2519BB | RW02C-13 |
| Location and Surveys | |
| NCDOT LOCATION & SURVEYS DIVISION 6 FIELD OFFICE | |

| EY13 | | N | E | BEARING | DIST | DELTA | D | L | T | R |
|-------|-------|------------|-------------|-----------------|--------|-----------------|-------------|--------|-------|----------|
| POT | POINT | 453125.516 | 1988924.209 | | | | | | | |
| LINE | | | | S 23°00'57.4" W | 365.74 | | | | | |
| PC | | 452788.892 | 1988781.209 | | | | | | | |
| CURVE | | | | S 23°15'37.1" W | 85.29 | 00°29'19.3"(RT) | 00°34'22.6" | 85.29 | 42.65 | 10000.00 |
| PT | | 452710.530 | 1988747.526 | | | | | | | |
| LINE | | 452582.314 | 1988691.764 | S 23°30'16.7" W | 139.82 | | | | | |
| PC | | | | | | | | | | |
| CURVE | | | | S 23°42'36.5" W | 71.73 | 00°24'39.5"(RT) | 00°34'22.6" | 71.73 | 35.86 | 10000.00 |
| PT | | 452516.642 | 1988662.922 | | | | | | | |
| LINE | | 452309.638 | 1988571.123 | S 23°54'56.2" W | 226.45 | | | | | |
| PC | | | | | | | | | | |
| CURVE | | | | S 23°27'31.3" W | 159.50 | 00°54'49.9"(LT) | 00°34'22.6" | 159.50 | 79.75 | 10000.00 |
| PT | | 452163.324 | 1988507.629 | | | | | | | |
| LINE | | | | S 23°00'06.3" W | 379.18 | | | | | |
| POT | | 451814.292 | 1988359.461 | | | | | | | |

| EY14 | | N | E | BEARING | DIST | DELTA | D | L | T | R | DELTA S | Ls | LT | ST |
|--------|-------|------------|-------------|-----------------|---------|-----------------|-------------|--------|--------|----------|-----------------|--------|--------|--------|
| POT | POINT | 457282.273 | 1987670.702 | | | | | | | | | | | |
| LINE | | | | S 79°07'31.5" E | 150.69 | | | | | | | | | |
| PC | | 457253.845 | 1987818.682 | | | | | | | | | | | |
| CURVE | | | | S 79°45'12.7" E | 701.60 | 01°15'22.4"(LT) | 00°10'44.6" | 701.61 | 350.82 | 32000.00 | | | | |
| PT | | 457129.042 | 1988509.092 | | | | | | | | | | | |
| LINE | | 457103.144 | 1988661.913 | S 80°22'53.9" E | 155.00 | | | | | | | | | |
| PC | | | | | | | | | | | | | | |
| CURVE | | | | S 81°48'50.6" E | 199.98 | 02°51'53.2"(LT) | 01°25'56.6" | 200.00 | 100.02 | 4000.00 | | | | |
| PT | | 457074.670 | 1988859.854 | | | | | | | | | | | |
| LINE | | 457055.464 | 1989022.035 | S 83°14'47.2" E | 163.31 | | | | | | | | | |
| PC | | | | | | | | | | | | | | |
| CURVE | | | | S 88°51'01.0" E | 214.83 | 11°12'27.7"(LT) | 05°12'31.3" | 215.17 | 107.93 | 1100.00 | | | | |
| PT | | 457051.154 | 1989236.821 | | | | | | | | | | | |
| LINE | | 457076.782 | 1989565.825 | N 85°32'45.1" E | 330.00 | | | | | | | | | |
| PC | | | | | | | | | | | | | | |
| CURVE | | | | N 80°46'16.4" E | 199.77 | 09°32'57.5"(LT) | 04°46'28.7" | 200.00 | 100.23 | 1200.00 | | | | |
| PCC | | 457108.820 | 1989763.007 | | | | | | | | | | | |
| CURVE | | | | N 62°58'29.3" E | 99.14 | 26°02'36.7"(LT) | 26°02'36.7" | 100.00 | 50.88 | 220.00 | | | | |
| PT | | 457153.868 | 1989851.323 | | | | | | | | | | | |
| LINE | | 457166.117 | 1989865.896 | N 49°57'10.9" E | 19.04 | | | | | | | | | |
| PC | | | | | | | | | | | | | | |
| CURVE | | | | N 43°16'33.1" E | 104.65 | 13°21'15.8"(LT) | 12°43'56.6" | 104.89 | 52.68 | 450.00 | | | | |
| PT | | 457242.307 | 1989937.633 | | | | | | | | | | | |
| LINE | | 457498.090 | 1990127.586 | N 36°35'55.2" E | 318.60 | | | | | | | | | |
| PC | | | | | | | | | | | | | | |
| CURVE | | | | N 36°20'47.9" E | 87.97 | 00°30'14.5"(LT) | 00°34'22.6" | 87.97 | 43.99 | 10000.00 | | | | |
| PT | | 457568.945 | 1990179.723 | | | | | | | | | | | |
| LINE | | 458377.491 | 1990769.208 | N 36°05'40.7" E | 1000.62 | | | | | | | | | |
| TS | | | | | | | | | | | | | | |
| SPIRAL | | | | N 47°08'04.3" E | 394.06 | | | | | | 33°12'53.8"(RT) | 400.00 | 271.52 | 137.75 |
| SC | | 458645.560 | 1991058.034 | | | | | | | | | | | |
| CURVE | | | | N 77°05'45.0" E | 93.48 | 15°34'21.1"(RT) | 16°36'26.9" | 93.77 | 47.17 | 345.00 | | | | |
| CS | | 458666.436 | 1991149.153 | | | | | | | | | | | |
| SPIRAL | | | | S 82°39'24.0" E | 223.94 | | | | | | 18°41'00.3"(RT) | 225.00 | 150.84 | 75.77 |
| ST | | 458637.814 | 1991371.255 | | | | | | | | | | | |
| LINE | | | | S 76°26'04.2" E | 233.50 | | | | | | | | | |
| POT | | 458583.046 | 1991598.236 | | | | | | | | | | | |


| EY15 | | N | E | BEARING | DIST | DELTA | D | L | T | R |
|-------|-------|------------|-------------|-----------------|---------|-----------------|-------------|--------|--------|----------|
| POT | POINT | 459328.671 | 1988360.197 | | | | | | | |
| LINE | | | | S 73°53'08.7" E | 410.21 | | | | | |
| PC | | 459214.815 | 1988754.293 | | | | | | | |
| CURVE | | | | S 75°44'33.4" E | 259.22 | 03°42'49.3"(LT) | 01°25'56.6" | 259.26 | 129.68 | 4000.00 |
| PT | | 459150.975 | 1989005.528 | | | | | | | |
| LINE | | 459117.270 | 1989158.818 | S 77°35'58.0" E | 156.95 | | | | | |
| PC | | | | | | | | | | |
| CURVE | | | | S 78°14'46.5" E | 180.61 | 01°17'36.9"(LT) | 00°42'58.3" | 180.62 | 90.31 | 8000.00 |
| PT | | 459080.478 | 1989335.644 | | | | | | | |
| LINE | | 459043.466 | 1989524.173 | S 78°53'34.9" E | 192.13 | | | | | |
| PC | | | | | | | | | | |
| CURVE | | | | S 78°37'32.0" E | 93.36 | 00°32'05.7"(RT) | 00°34'22.6" | 93.36 | 46.68 | 10000.00 |
| PT | | 459025.054 | 1989615.700 | | | | | | | |
| LINE | | 458815.403 | 1990633.260 | S 78°21'29.2" E | 1038.93 | | | | | |
| PC | | | | | | | | | | |
| CURVE | | | | S 76°52'34.8" E | 181.01 | 02°57'48.7"(RT) | 01°38'13.3" | 181.03 | 90.54 | 3500.00 |
| PT | | 458774.304 | 1990809.544 | | | | | | | |
| LINE | | 458705.895 | 1991072.070 | S 75°23'40.5" E | 271.29 | | | | | |
| PC | | | | | | | | | | |
| CURVE | | | | S 52°33'57.1" E | 58.20 | 45°39'26.7"(RT) | 76°23'39.7" | 59.77 | 31.57 | 75.00 |
| PT | | 458670.520 | 1991118.282 | | | | | | | |
| LINE | | | | S 29°44'13.8" E | 8.65 | | | | | |
| POT | | 458663.010 | 1991122.571 | | | | | | | |

NOTES:

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

REVISIONS

RIGHT OF WAY CONTROL SHEET

| | |
|---|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW03E-2 |
| Location and Surveys | |
| DEWBERRY ENGINEERS INC. | |
| PROJECT SURVEYOR | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

ROW MARKER PERMANENT EASEMENT-E

| ALIGN | STATION | OFFSET | NORTH | EAST |
|-------|-----------|---------|-------------|--------------|
| L | 569+74.00 | -195.00 | 459683.5240 | 1988978.2197 |
| L | 569+74.00 | -175.00 | 459685.2371 | 1988998.1462 |
| L | 568+39.89 | -195.00 | 459549.9021 | 1988989.7083 |
| L | 568+39.83 | -175.00 | 459551.5631 | 1989009.6393 |

ROW MARKER PERMANENT EASEMENT-E

| ALIGN | STATION | OFFSET | NORTH | EAST |
|-------|----------|--------|-------------|--------------|
| DR1 | 15+24.04 | 65.00 | 457071.3010 | 1989993.5844 |
| DR1 | 15+95.00 | 75.00 | 457134.2385 | 1990027.8510 |
| DR1 | 15+95.00 | 55.09 | 457141.2272 | 1990009.2033 |

ROW MARKER PERMANENT EASEMENT-E

| ALIGN | STATION | OFFSET | NORTH | EAST |
|-------|----------|--------|-------------|--------------|
| SR2 | 15+90.00 | -65.00 | 456857.7703 | 1988560.8814 |
| SR2 | 15+90.00 | -55.00 | 456852.5625 | 1988569.4184 |
| SR2 | 16+20.00 | 55.00 | 456820.8877 | 1988678.9478 |
| SR2 | 16+20.00 | -65.00 | 456883.3810 | 1988576.5048 |
| SR2 | 16+20.00 | -55.00 | 456878.1733 | 1988585.0417 |
| SR2 | 16+45.00 | 85.00 | 456826.6066 | 1988717.5780 |

ROW MARKER PERMANENT EASEMENT-E

| ALIGN | STATION | OFFSET | NORTH | EAST |
|-------|----------|--------|-------------|--------------|
| Y16 | 37+66.00 | 49.00 | 454776.6572 | 1987280.3303 |
| Y16 | 39+73.00 | 83.00 | 454959.6641 | 1987177.7952 |
| Y16 | 42+08.35 | 83.00 | 455143.6240 | 1987031.0015 |
| Y16 | 50+70.39 | 82.00 | 455816.8061 | 1986492.5462 |
| Y16 | 56+11.18 | 82.00 | 456239.5118 | 1986155.2418 |
| Y16 | 58+15.00 | 75.00 | 456394.5426 | 1986025.2145 |
| Y16 | 59+35.00 | 53.00 | 456476.4051 | 1985935.7795 |
| Y16 | 59+95.00 | 42.00 | 456517.8167 | 1985891.3730 |
| Y16 | 59+95.00 | 30.00 | 456510.6963 | 1985881.7111 |

ROW MARKER PERMANENT EASEMENT-E

| ALIGN | STATION | OFFSET | NORTH | EAST |
|--------|----------|--------|-------------|--------------|
| Y16REV | 42+71.01 | 39.86 | 454776.6572 | 1987280.3303 |
| Y16REV | 44+78.14 | 73.11 | 454959.6641 | 1987177.7952 |
| Y16REV | 47+12.68 | 72.70 | 455143.6240 | 1987031.0015 |
| Y16REV | 55+75.45 | 82.30 | 455816.8061 | 1986492.5462 |
| Y16REV | 61+16.24 | 82.00 | 456239.5118 | 1986155.2418 |
| Y16REV | 63+19.77 | 76.30 | 456394.5426 | 1986025.2145 |
| Y16REV | 64+40.54 | 53.96 | 456476.4051 | 1985935.7795 |
| Y16REV | 65+00.52 | 30.22 | 456510.6963 | 1985881.7111 |
| Y16REV | 65+00.71 | 42.22 | 456517.8167 | 1985891.3730 |

ROW MARKER PERMANENT EASEMENT-E

| ALIGN | STATION | OFFSET | NORTH | EAST |
|-------|----------|--------|-------------|--------------|
| Y17 | 10+15.00 | -72.00 | 453261.2853 | 1984053.2918 |
| Y17 | 10+15.00 | -60.00 | 453254.7268 | 1984063.3410 |
| Y17 | 12+75.00 | -84.00 | 453485.5770 | 1984185.3419 |

ROW MARKER PERMANENT EASEMENT-E

| ALIGN | STATION | OFFSET | NORTH | EAST |
|-------|----------|--------|-------------|--------------|
| Y17A | 19+55.20 | -57.00 | 454058.0338 | 1984868.4922 |
| Y17A | 20+35.00 | -30.00 | 454057.4476 | 1984952.7380 |

ROW MARKER PERMANENT EASEMENT-E

| ALIGN | STATION | OFFSET | NORTH | EAST |
|-------|----------|--------|-------------|--------------|
| Y19 | 22+00.00 | -30.13 | 459063.1521 | 1989579.6292 |
| Y19 | 22+00.00 | -45.00 | 459077.7311 | 1989582.5678 |
| Y19 | 27+00.00 | -45.00 | 458976.8856 | 1990072.4893 |

REVISIONS

I, Adam C. Hales, 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 February 1 to March 1, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of March, 2022.

Designed by

 Adam Hales
 Professional Land Surveyor L-4980

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 FEBRUARY 1 TO MARCH 1, 2022.

6/2/19

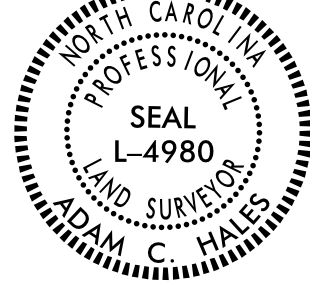
N 02°23'14" E
34.47'

| | | | | |
|--------------------------|-----------------------------|--------------------------|-------------------------|-----------------------------|
| <i>Pls Sta 510+25.55</i> | <i>Pl Sta 523+30.69</i> | <i>Pls Sta 535+60.37</i> | <i>Pls Sta 11+82.77</i> | <i>Pls Sta 16+57.95</i> |
| $\Theta_s = 2'14'59.4"$ | $\Delta = 35'01'11.1" (LT)$ | $\Theta_s = 2'14'59.4"$ | $\Theta_s = 2'26'11.1"$ | $\Delta = 24'54'41.2" (LT)$ |
| $L_s = 300.00'$ | $D = 1'29'59.6"$ | $L_s = 300.00'$ | $\Theta_s = 5'59'34.0"$ | $D = 3'44'41.4"$ |
| $LT = 200.02'$ | $L = 2,334.82'$ | $LT = 200.02'$ | $L_s = 320.00'$ | $L = 665.22'$ |
| $ST = 100.01'$ | $T = 1,205.17'$ | $ST = 100.01'$ | $LT = 182.77'$ | $T = 337.95'$ |
| | $R = 3,820.00'$ | | $ST = 137.78'$ | $R = 1,530.00'$ |
| | $V_d = 70 \text{ MPH}$ | | | $V_d = 60 \text{ MPH}$ |
| | $SUPER = 6\%$ | | | $SUPER = 8\%$ |

I Adam Hales, 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 February 1 to March 1, 2022, and all coordinates are based on NAD83/95. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of March, 2022.

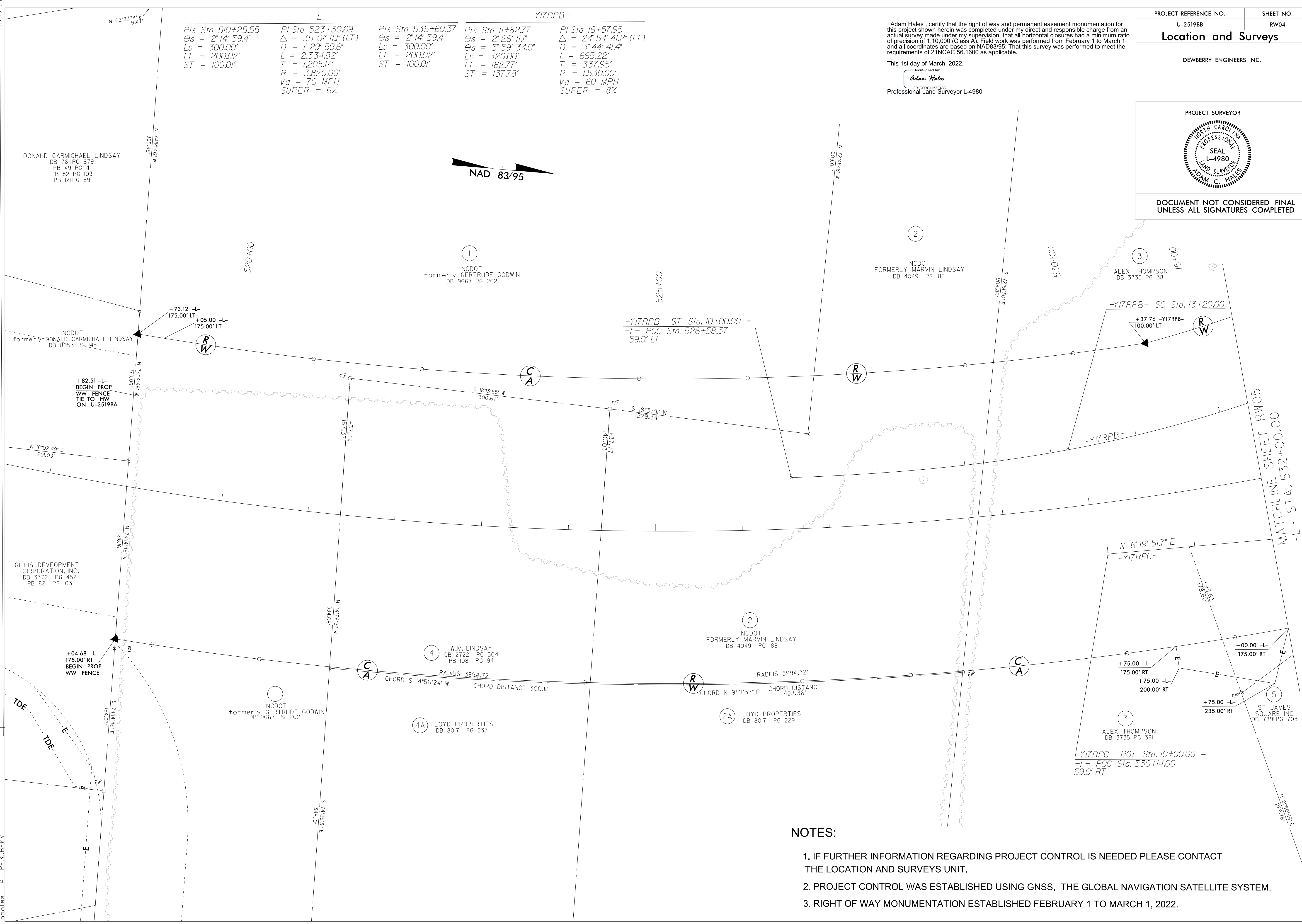
DocuSigned by:
Adam Hales
Professional Land Surveyor L-4980

| | |
|---|-------------------|
| PROJECT REFERENCE NO. U-2519BB | SHEET NO. RW04 |
| Location and Surveys | |
| DEWBERRY ENGINEERS INC. | |
| PROJECT SURVEYOR | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |


REVISIONS

RIGHT OF WAY REVISION - 10/3/2019 - REMOVED TEMPORARY CONSTRUCTION EASEMENT FROM PARCELS 2A & 4A.

P:\M\2022\16\19\Survey\U2519bb_1s_rw04.dgn
6/2/2022 10:48:57 AM
A:\Users\ahales



- 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 FEBRUARY 1 TO MARCH 1, 2022.

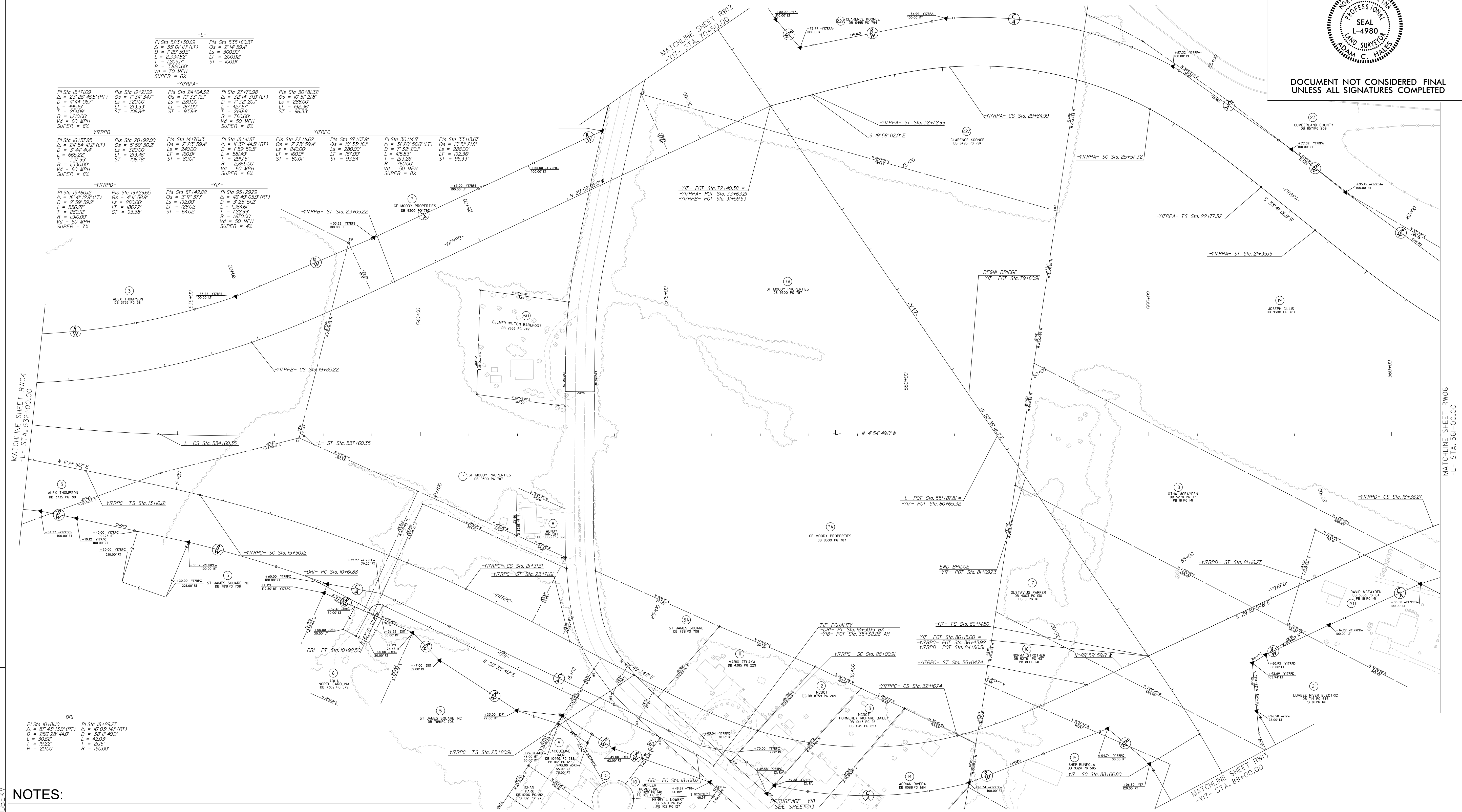
| | |
|---|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW05 |
| Location and Surveys | |
| DEWBERRY ENGINEERS INC. | |
| PROJECT SURVEYOR | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

I Adam Hales, 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 February 1 to March 1, 2022 and all coordinates are based on NAD83/95; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of March, 2022.

Adam Hales
Professional Land Surveyor L-4980

NAD 83/95



| -YITRPA- | | -YITRPA- | | -YITRPA- | | -YITRPA- | | -YITRPA- | |
|-----------------------------------|------------------------------|----------------------------------|------------------------------|----------------------------------|-----------------------------|------------------------------|------------------------------|----------------------------------|------------------------------|
| PI Sta 523+30.69 | PI Sta 535+60.37 | PI Sta 27+76.98 | PI Sta 30+81.32 | PI Sta 15+71.09 | PI Sta 19+21.99 | PI Sta 24+64.32 | PI Sta 27+76.98 | PI Sta 30+81.32 | PI Sta 33+31.07 |
| $\Delta = 35^{\circ}01'11.17(LT)$ | $\Delta = 21^{\circ}14'59.4$ | $\Delta = 32^{\circ}14'31.0(LT)$ | $\Delta = 10^{\circ}51'21.8$ | $\Delta = 23^{\circ}26'46.5(RT)$ | $\Delta = 7^{\circ}34'34.7$ | $\Delta = 17^{\circ}33'16.1$ | $\Delta = 17^{\circ}33'16.1$ | $\Delta = 32^{\circ}14'31.0(LT)$ | $\Delta = 10^{\circ}51'21.8$ |
| D = 299.5501 | D = 300.00 | D = 298.00 | D = 298.00 | D = 299.5501 | D = 300.00 | D = 298.00 | D = 298.00 | D = 298.00 | D = 298.00 |
| L = 2334.82 | L = 2000.0 | L = 2334.82 | L = 2000.0 | L = 2334.82 | L = 2000.0 | L = 2334.82 | L = 2000.0 | L = 2334.82 | L = 2000.0 |
| T = 1203.07 | T = 1000.0 | T = 1203.07 | T = 1000.0 | T = 1203.07 | T = 1000.0 | T = 1203.07 | T = 1000.0 | T = 1203.07 | T = 1000.0 |
| R = 1200.00 | R = 1200.00 | R = 1200.00 | R = 1200.00 | R = 1200.00 | R = 1200.00 | R = 1200.00 | R = 1200.00 | R = 1200.00 | R = 1200.00 |
| Vd = 70 MPH | Vd = 70 MPH | Vd = 70 MPH | Vd = 70 MPH | Vd = 70 MPH | Vd = 70 MPH | Vd = 70 MPH | Vd = 70 MPH | Vd = 70 MPH | Vd = 70 MPH |
| SUPER = 6X | SUPER = 6X | SUPER = 6X | SUPER = 6X | SUPER = 6X | SUPER = 6X | SUPER = 6X | SUPER = 6X | SUPER = 6X | SUPER = 6X |

- 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 FEBRUARY 1 TO MARCH 1, 2022.

REVISIONS

U:\M\B\2022\1341\Survey\U2519bb_1s_rw05.dgn
 P:\014867\AT PF\30BEK\A1

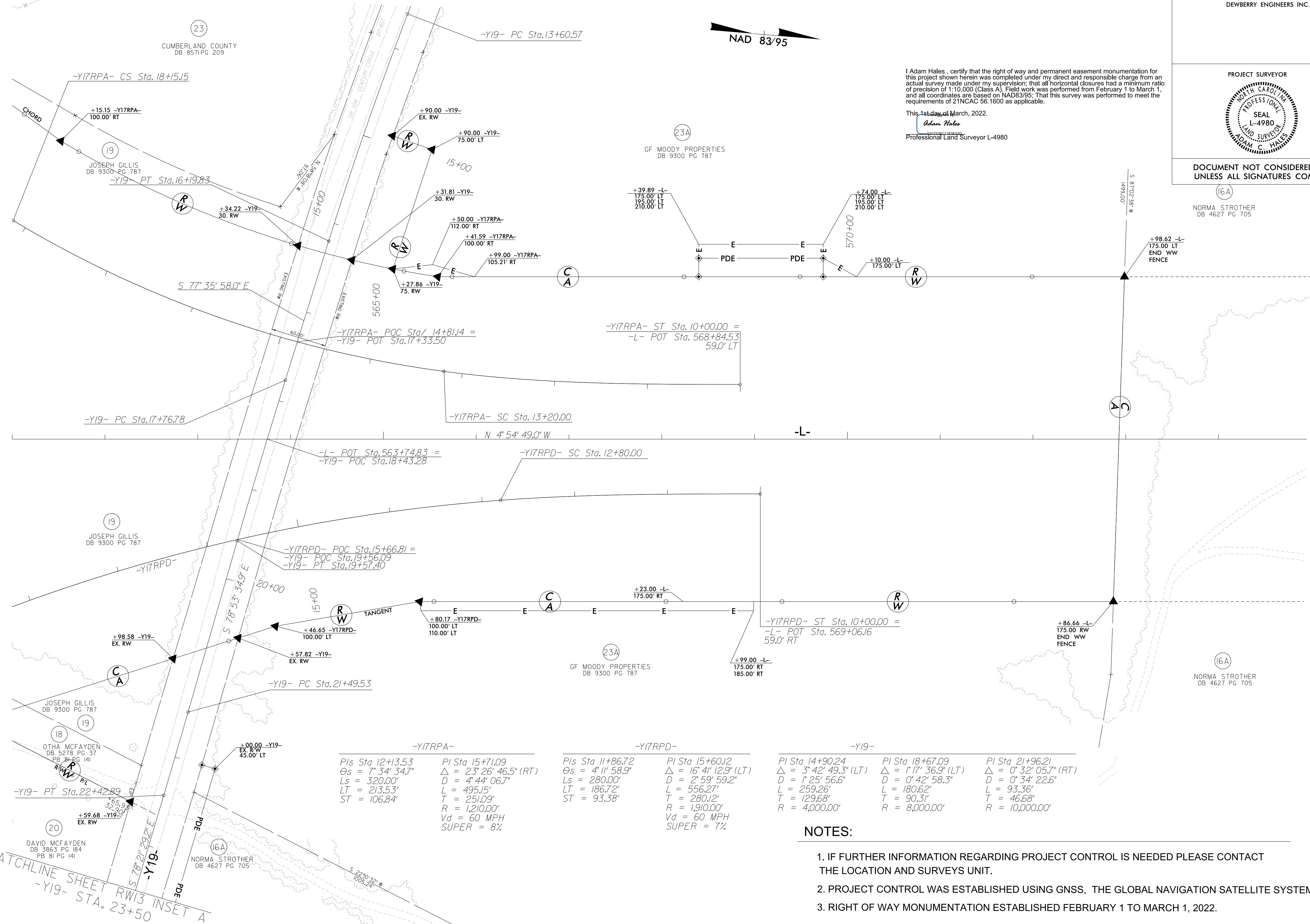
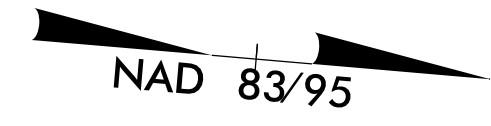
RIGHT OF WAY CONTROL SHEET

| | |
|--|----------------------|
| PROJECT REFERENCE NO. U2519BB | SHEET NO. RW02C-6 |
| Location and Surveys | |
| DEWBERRY ENGINEERS INC. | |
| PROJECT SURVEYOR | |
| | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |
| (16A) NORMA STROTHER DB 4627 PG 705 | |

I Adam Hales, 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 February 1 to March 1, and all coordinates are based on NAD83/95; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of March, 2022.

Adam Hales
Professional Land Surveyor L-4980



| -Y17RPA- | | -Y17RPD- | | -Y19- | | |
|-------------------|------------------------|-------------------|------------------------|-----------------------|-----------------------|-----------------------|
| PIs Sta 12+13.53 | PI Sta 15+71.09 | PIs Sta 11+86.72 | PI Sta 15+60.12 | PI Sta 14+90.24 | PI Sta 18+67.09 | PI Sta 21+96.21 |
| Os = 7° 34' 34.7" | Δ = 23° 26' 46.5" (RT) | Os = 4° 11' 58.9" | Δ = 16° 41' 12.9" (LT) | Δ = 3° 42' 49.3" (LT) | Δ = 1° 17' 36.9" (LT) | Δ = 0° 32' 05.7" (RT) |
| Ls = 320.00' | D = 4° 44' 06.7" | Ls = 280.00' | D = 2° 59' 59.2" | D = 1° 25' 56.6" | D = 0° 42' 58.3" | D = 0° 34' 22.6" |
| LT = 213.53' | L = 495.15' | LT = 186.72' | L = 556.27' | L = 259.26' | L = 180.62' | L = 93.36' |
| ST = 106.84' | T = 251.09' | ST = 93.38' | T = 280.12' | T = 129.68' | T = 90.31' | T = 46.68' |
| | R = 1,210.00' | | R = 1,910.00' | R = 4,000.00' | R = 8,000.00' | R = 10,000.00' |
| | Vd = 60 MPH | | Vd = 60 MPH | | | |
| | SUPER = 8% | | SUPER = 7% | | | |

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 FEBRUARY 1 TO MARCH 1, 2022.

REVISIONS

MATCHLINE SHEET RW07
-L- STA. 575+00.00

MATCHLINE SHEET RW13 INSET A
-Y19- STA. 23+50

P:\MIS_2022_15659_Survey\U2519BB_1s_rw06.dgn
 6/2/2022 10:48:57 AM
 A:\PF30BEKY
 ahales

Location and Surveys

DEWBERRY ENGINEERS INC.

PROJECT SURVEYOR

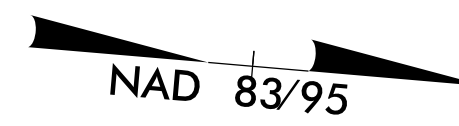


**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

I, Adam Hales, 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 February 1 to March 1, and all coordinates are based on NAD83/95. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of March, 2022.

Adam Hales
Professional Land Surveyor L-4980



(16A)
NORMA STROTHER
DB 4627 PG 705

N 4° 54' 49.0" W

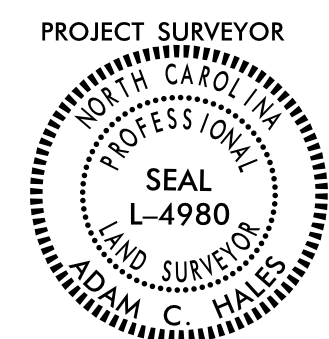
(16A)
NORMA STROTHER
DB 4627 PG 705

MATCHLINE SHEET RW06
-L- STA. 575+00.00

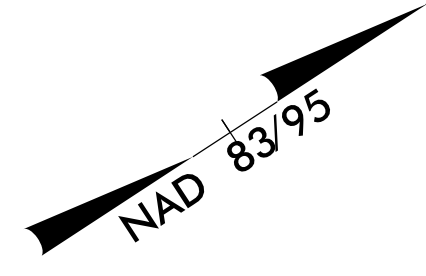
REVISIONS

NOTES:

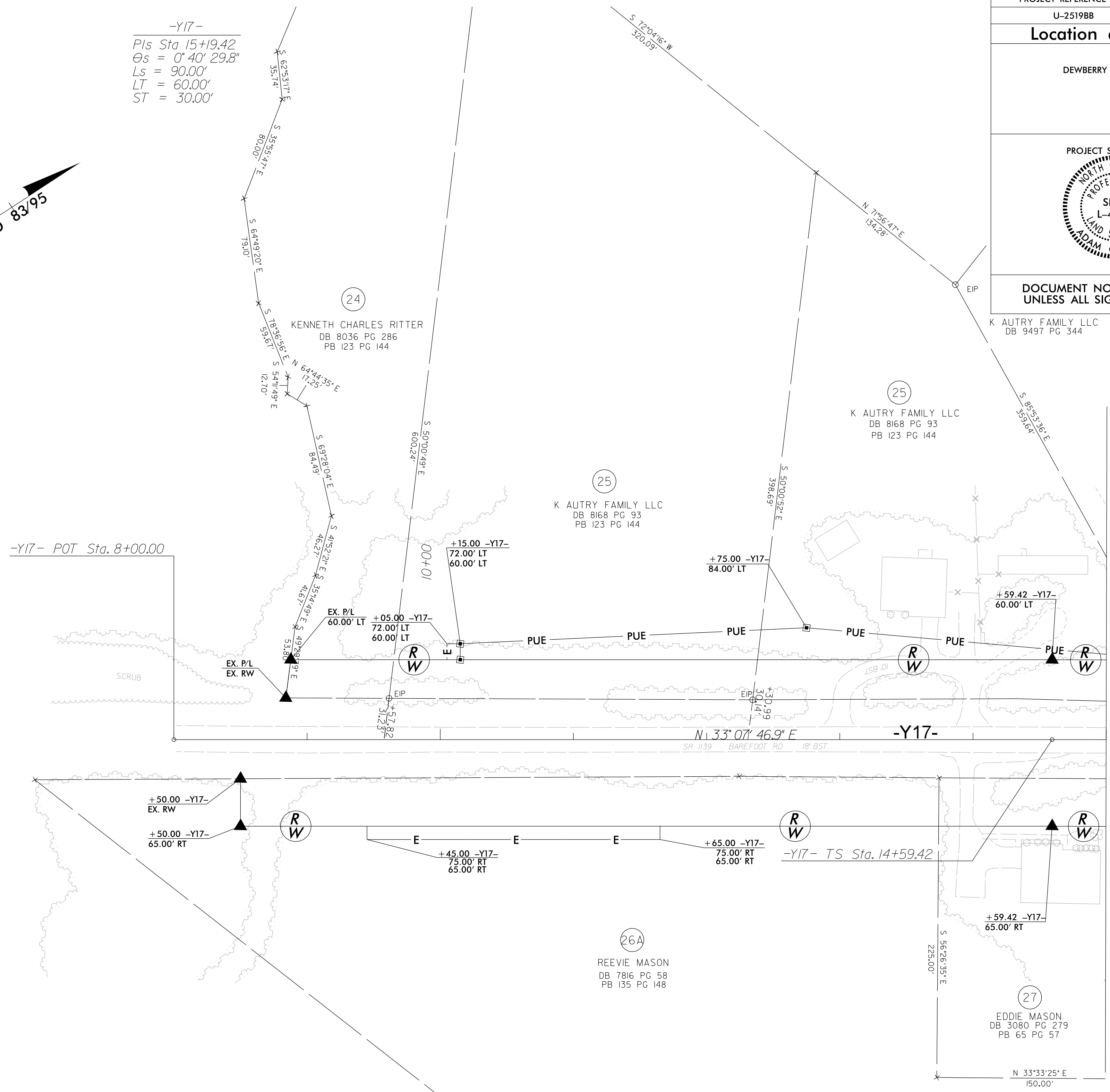
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED FEBRUARY 1 TO MARCH 1, 2022.

| | |
|---|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW08 |
| Location and Surveys | |
| DEWBERRY ENGINEERS INC. | |
| PROJECT SURVEYOR  ADAM HALES | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

K AUTRY FAMILY LLC
DB 9497 PG 344



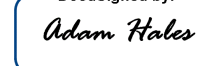
-Y17-
Pls Sta 15+19.42
Cs = 0° 40' 29.8"
Ls = 90.00'
LT = 60.00'
ST = 30.00'



MATCHLINE SHEET RW09
-Y17- STA. 15+00.00

REVISIONS


I Adam Hales, 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 February 1 to March 1, and all coordinates are based on NAD83/95; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of March, 2022.

 Adam Hales
 Professional Land Surveyor L-4980

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED FEBRUARY 1 TO MARCH 1, 2022.

10-MAR-2022 14:40
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 ahales


| | |
|---|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW09 |
| Location and Surveys | |
| DEWBERRY ENGINEERS INC. | |
| PROJECT SURVEYOR | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

-Y17-

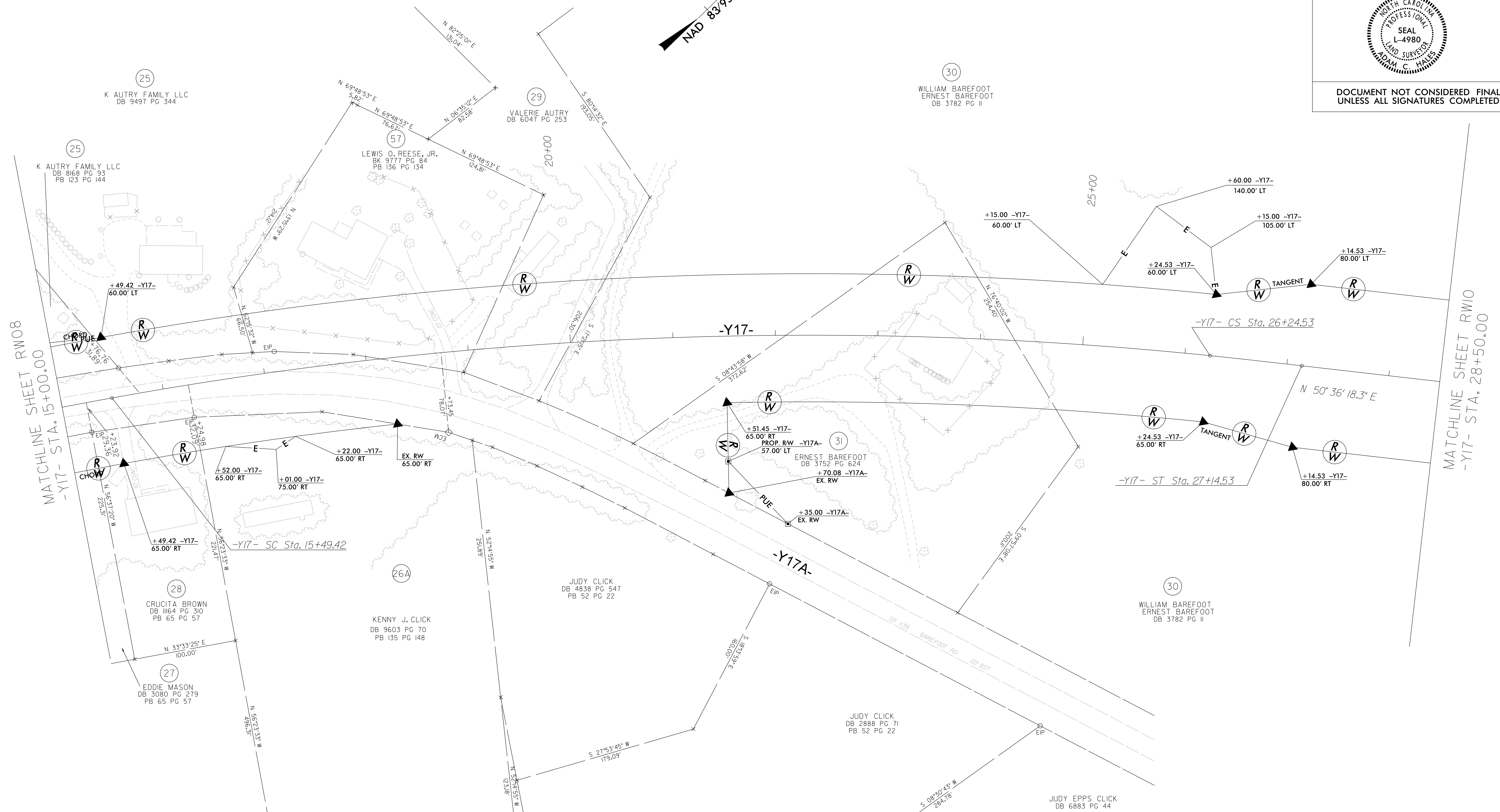
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|--|--|--|
| Pls Sta 15+19.42 $\Theta_s = 0^\circ 40' 29.8''$ Ls = 90.00' LT = 60.00' ST = 30.00' | PI Sta 20+90.55 $\Delta = 16^\circ 07' 31.8''$ (RT) D = 1' 29' 59.6" L = 1,075.11' T = 541.13' R = 3,820.00' Vd = 50 MPH SUPER = 3% | Pls Sta 26+54.53 $\Theta_s = 0^\circ 40' 29.8''$ Ls = 90.00' LT = 60.00' ST = 30.00' |
|--|--|--|

I Adam Hales, 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 February 1 to March 1, and all coordinates are based on NAD83/95; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of March, 2022.

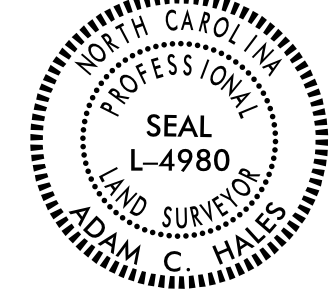
DocuSigned by:

Professional Land Surveyor L-4980

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 FEBRUARY 1 TO MARCH 1, 2022.

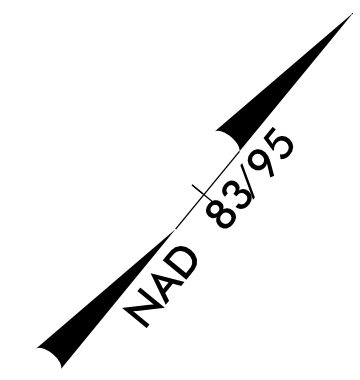
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| | |
|---|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW10 |
| Location and Surveys | |
| DEWBERRY ENGINEERS INC. | |
| PROJECT SURVEYOR | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

I Adam Hales, 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 February 1 to March 1, and all coordinates are based on NAD83/95. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of March, 2022.

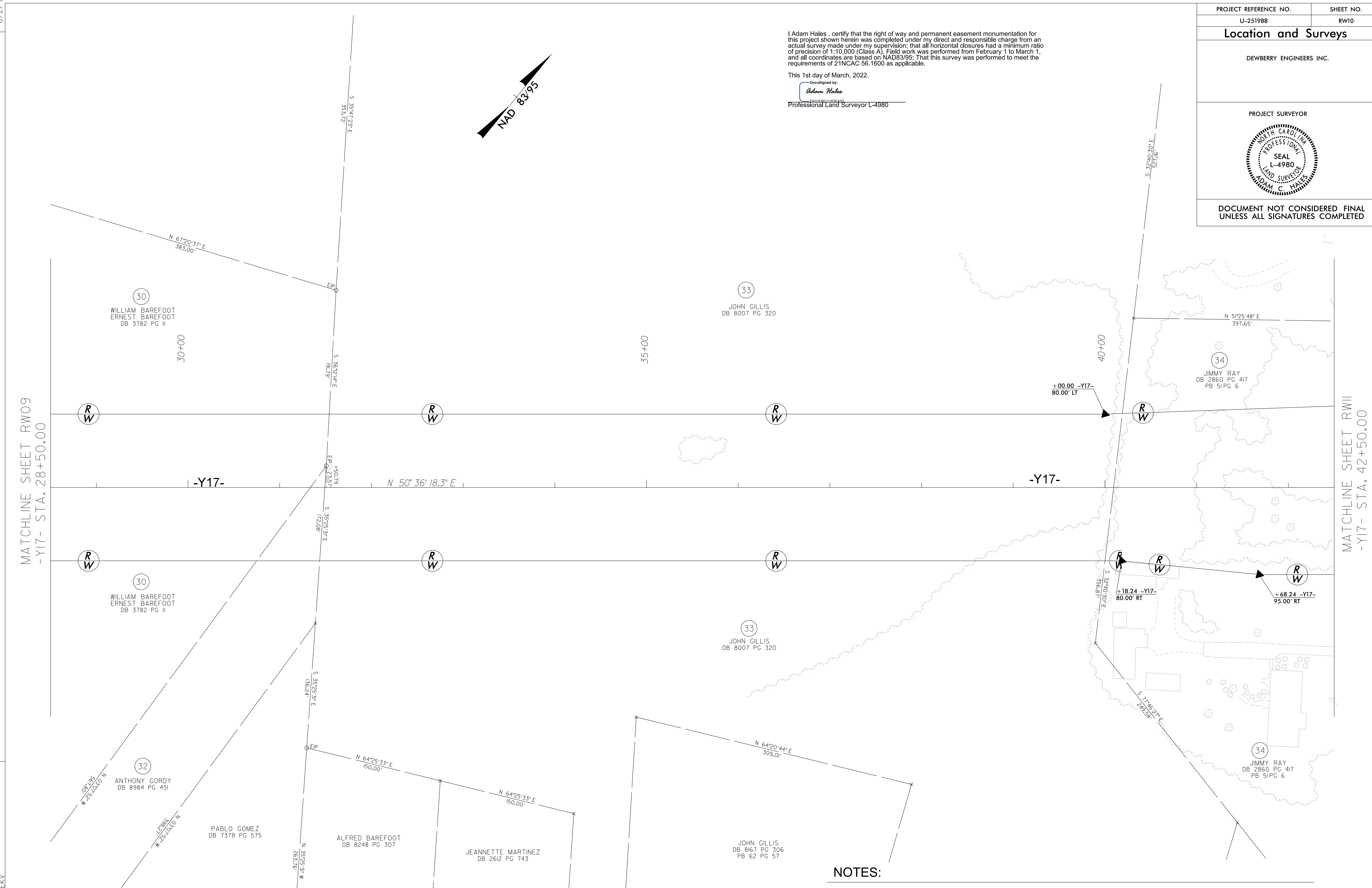
DocuSigned by:
Adam Hales
Professional Land Surveyor L-4980



REVISIONS

MATCHLINE SHEET RW09
-Y17- STA. 28+50.00


MATCHLINE SHEET RW11
-Y17- STA. 42+50.00




NOTES:

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

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ahales

| | |
|---|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW11 |
| Location and Surveys | |
| DEWBERRY ENGINEERS INC. | |
| PROJECT SURVEYOR | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |
| JOHN GILLIS DB 8729 PG 672 | |

I Adam Hales, 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 February 1 to March 1, and all coordinates are based on NAD83/95; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

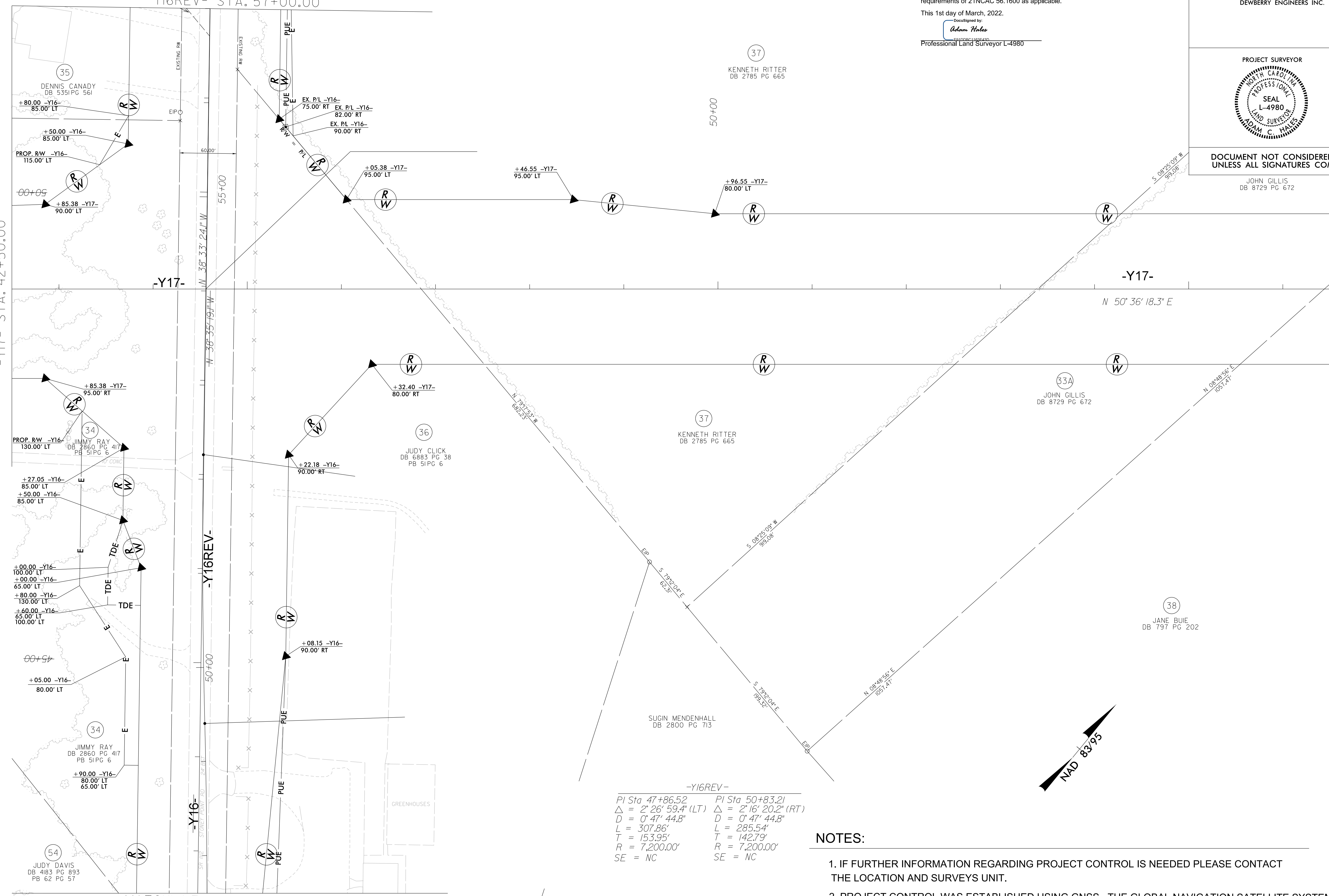
This 1st day of March, 2022.
 Designed by: 
 Professional Land Surveyor L-4980

REVISIONS

MATCHLINE SHEET RW10
-Y17- STA. 42+50.00

MATCHLINE SHEET RW16
-Y16REV- STA. 57+00.00

MATCHLINE SHEET RW12
-Y17- STA. 56+50.00




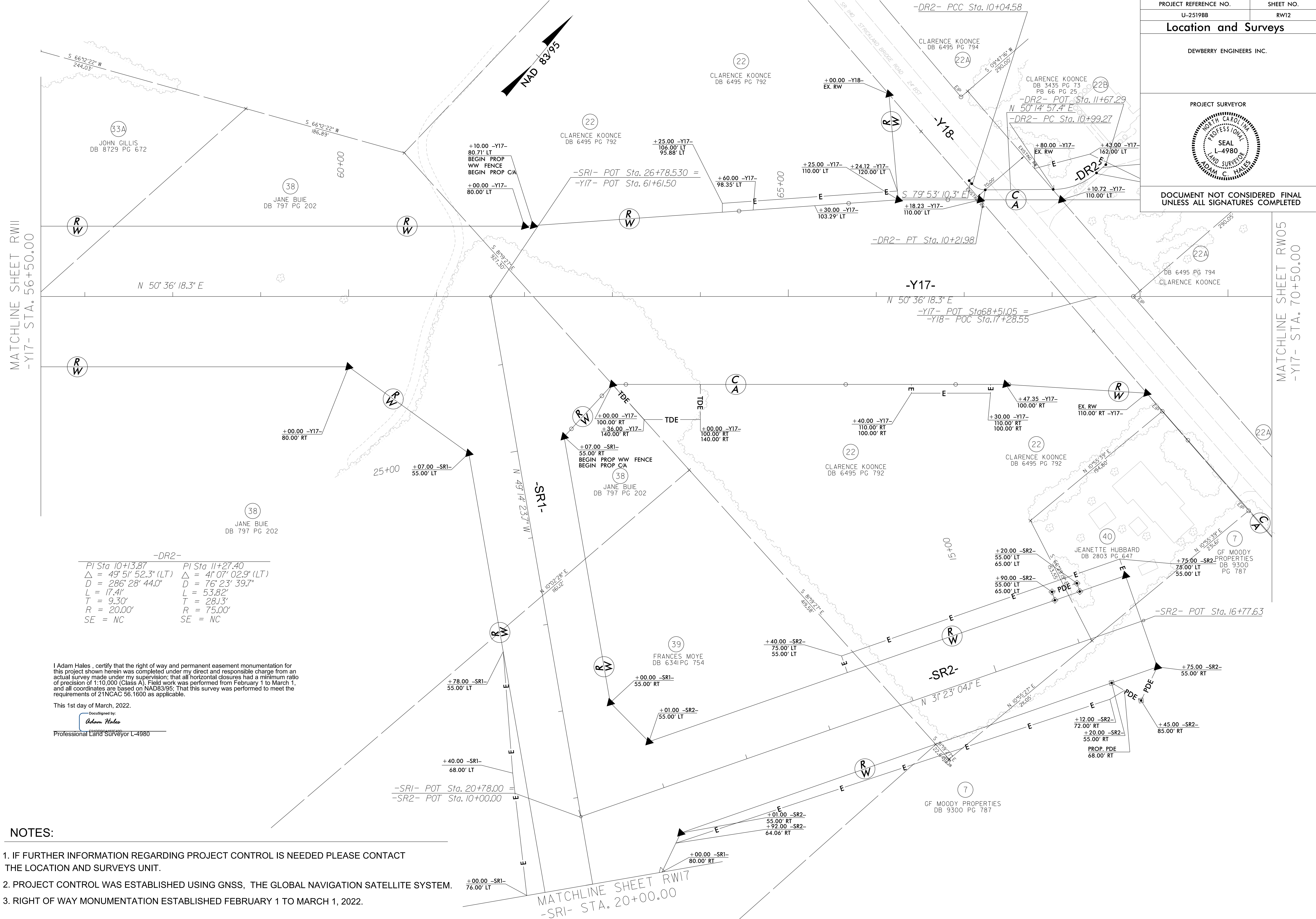
| | |
|-------------------------------|-------------------------------|
| -Y16REV- | |
| PI Sta 47+86.52 | PI Sta 50+83.21 |
| $\Delta = 2' 26' 59.4''$ (LT) | $\Delta = 2' 16' 20.2''$ (RT) |
| $D = 0' 47' 44.8''$ | $D = 0' 47' 44.8''$ |
| $L = 307.86'$ | $L = 285.54'$ |
| $T = 153.95'$ | $T = 142.79'$ |
| $R = 7,200.00'$ | $R = 7,200.00'$ |
| SE = NC | SE = NC |

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 FEBRUARY 1 TO MARCH 1, 2022.

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 ahales

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|---|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW12 |
| Location and Surveys | |
| DEWBERRY ENGINEERS INC. | |
| PROJECT SURVEYOR | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |



| -DR2- | |
|-------------------------------------|-------------------------------------|
| PI Sta 10+13.87 | PI Sta 11+27.40 |
| $\Delta = 49^\circ 51' 52.3''$ (LT) | $\Delta = 41^\circ 07' 02.9''$ (LT) |
| $D = 286' 28'' 44.0''$ | $D = 76' 23'' 39.7''$ |
| $L = 17.41'$ | $L = 53.82'$ |
| $T = 9.30'$ | $T = 28.13'$ |
| $R = 20.00'$ | $R = 75.00'$ |
| SE = NC | SE = NC |

I Adam Hales, 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 February 1 to March 1, and all coordinates are based on NAD83/95; That this survey was performed to meet the requirements of 21NCA 56.1600 as applicable.

This 1st day of March, 2022.

Designed by:
Adam Hales
Professional Land Surveyor L-4980

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 FEBRUARY 1 TO MARCH 1, 2022.

MATCHLINE SHEET RW11
-Y17- STA. 56+50.00

MATCHLINE SHEET RW05
-Y17- STA. 70+50.00

REVISIONS

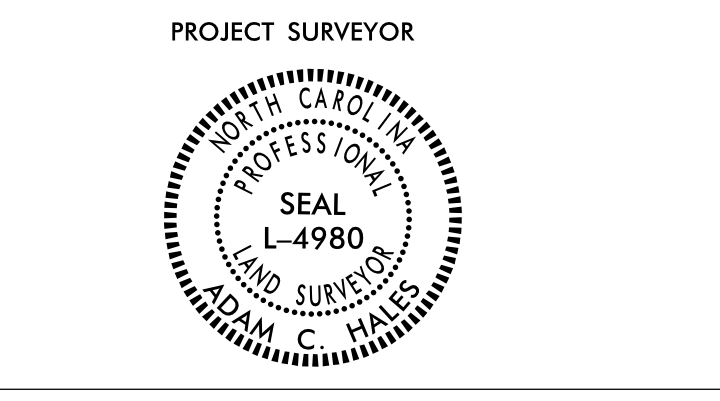
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 AHales

6/2/19

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|-----------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW13 |

Location and Surveys

DEWBERRY ENGINEERS INC.



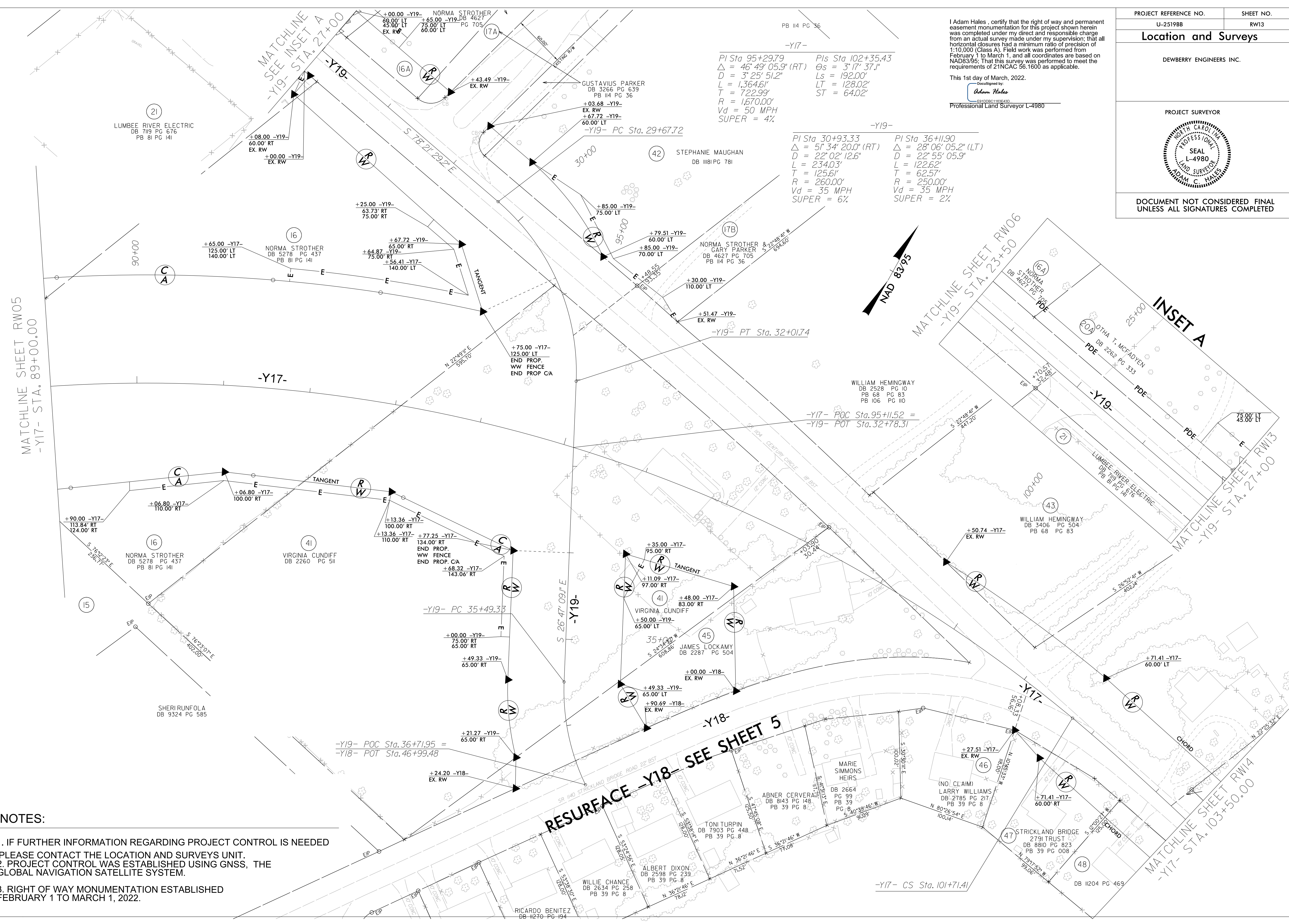
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I Adam Hales, 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 February 1 to March 1, and all coordinates are based on NAD83/95; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of March, 2022.

Adam Hales
Professional Land Surveyor L-4980

REVISIONS



NOTES:

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- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED FEBRUARY 1 TO MARCH 1, 2022.

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 6/2/19 14:55
 AHales

RESURFACE -Y18- SEE SHEET 5

INSET A

MATCHLINE SHEET RW05
-Y17- STA. 89+00.00

MATCHLINE SHEET RW06
-Y19- STA. 23+50

MATCHLINE SHEET RW13
-Y19- STA. 27+00

MATCHLINE SHEET RW14
-Y17- STA. 103+50.00

-Y17-

PI Sta 95+29.79
 $\Delta = 46^\circ 49' 05.9''$ (RT)
 $D = 3^\circ 25' 51.2''$
 $L = 1,364.6'$
 $T = 722.99'$
 $R = 1,670.00'$
 $Vd = 50$ MPH
 $SUPER = 4\%$

PIs Sta 102+35.43
 $\Theta_s = 3^\circ 17' 37.1''$
 $L_s = 192.00'$
 $LT = 128.02'$
 $ST = 64.02'$

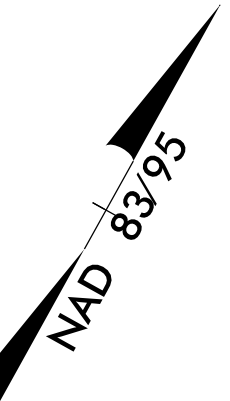
-Y19-


PI Sta 30+93.33
 $\Delta = 51^\circ 34' 20.0''$ (RT)
 $D = 22^\circ 02' 12.6''$
 $L = 234.03'$
 $T = 125.61'$
 $R = 260.00'$
 $Vd = 35$ MPH
 $SUPER = 6\%$

PI Sta 36+11.90
 $\Delta = 28^\circ 06' 05.2''$ (LT)
 $D = 22^\circ 55' 05.9''$
 $L = 122.62'$
 $T = 62.57'$
 $R = 250.00'$
 $Vd = 35$ MPH
 $SUPER = 2\%$

-Y19- POC Sta. 36+71.95 =
-Y18- POT Sta. 46+99.48


-Y17- POC Sta. 95+11.52 =
-Y19- POT Sta. 32+78.31



| | |
|---|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW14 |
| Location and Surveys | |
| DEWBERRY ENGINEERS INC. | |
| PROJECT SURVEYOR | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

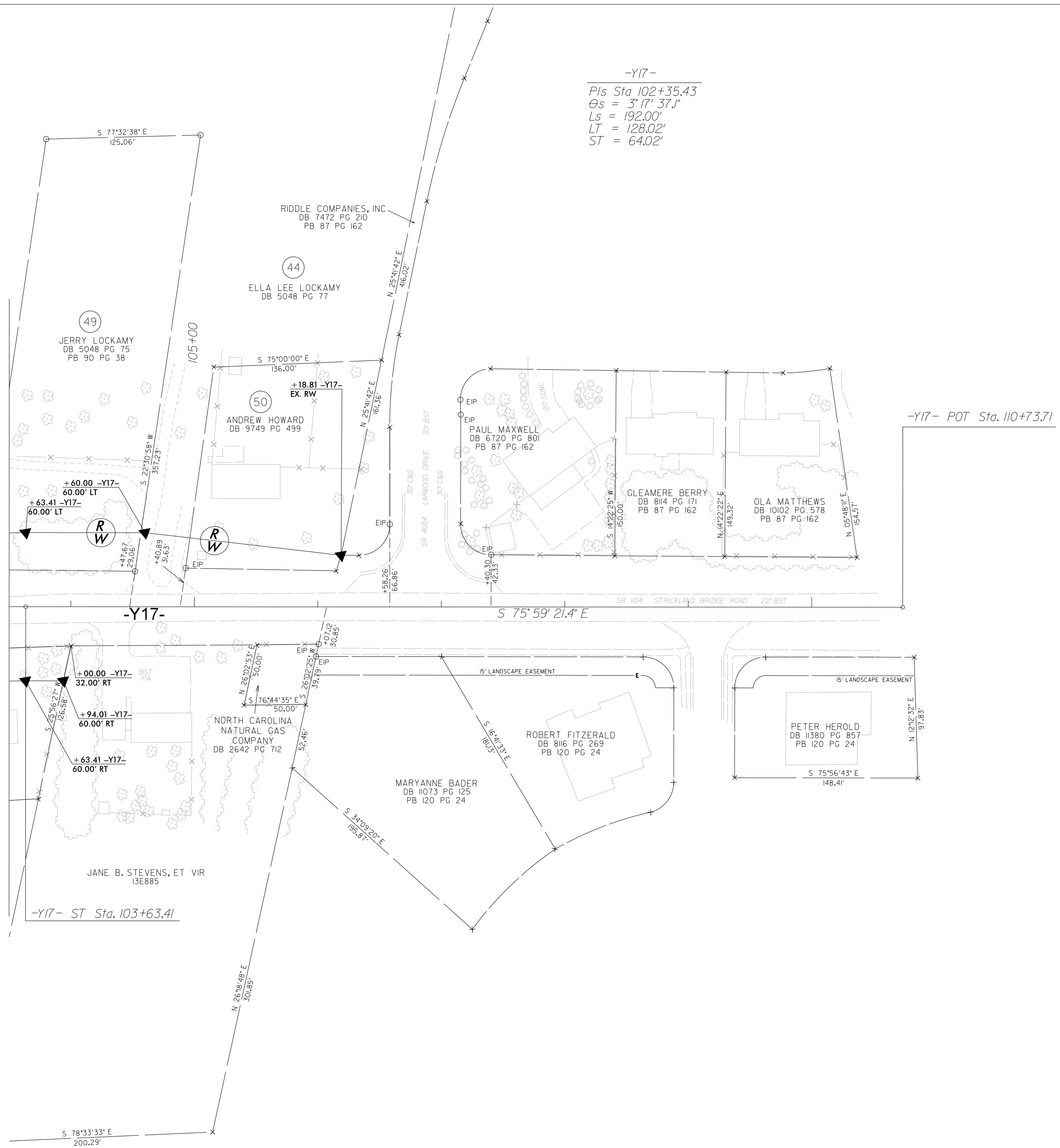
I, Adam Hales, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from February 1 to March 1, and all coordinates are based on NAD83/95. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of March, 2022.

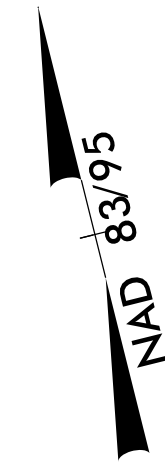
DocuSigned by:

 Adam Hales
 Professional Land Surveyor L-4980

REVISIONS

MATCHLINE SHEET RW13
 -Y17- STA. 103+50.00




-Y17-
 PIs Sta 102+35.43
 $\theta_s = 3^\circ 17' 37.1''$
 $L_s = 192.00'$
 $LT = 128.02'$
 $ST = 64.02'$



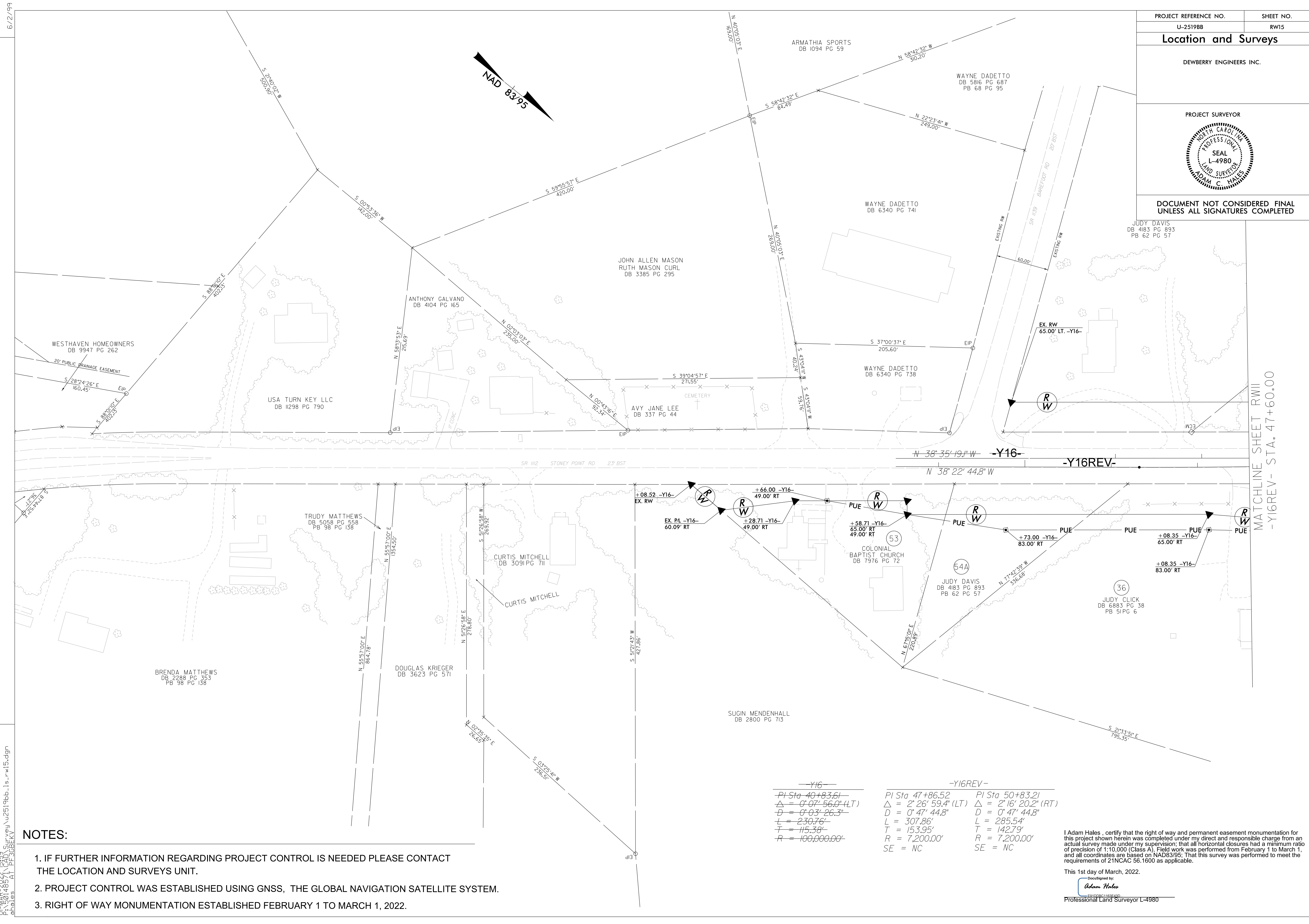
NOTES:

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 FEBRUARY 1 TO MARCH 1, 2022.

6/2/09

| | |
|---|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW15 |
| Location and Surveys | |
| DEWBERRY ENGINEERS INC. | |
| PROJECT SURVEYOR | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

REVISIONS



MATCHLINE SHEET RW11
-Y16REV- STA. 47+60.00


| -Y16- | -Y16REV- | -Y16REV- |
|-----------------------|-----------------------|-----------------------|
| PI Sta 40+83.61 | PI Sta 47+86.52 | PI Sta 50+83.21 |
| Δ = 0° 07' 56.0" (LT) | Δ = 2° 26' 59.4" (LT) | Δ = 2° 16' 20.2" (RT) |
| D = 0° 03' 26.3" | D = 0° 47' 44.8" | D = 0° 47' 44.8" |
| L = 230.76' | L = 307.86' | L = 285.54' |
| T = 115.38' | T = 153.95' | T = 142.79' |
| R = 100,000.00' | R = 7,200.00' | R = 7,200.00' |
| | SE = NC | SE = NC |

NOTES:

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- RIGHT OF WAY MONUMENTATION ESTABLISHED FEBRUARY 1 TO MARCH 1, 2022.

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This 1st day of March, 2022.

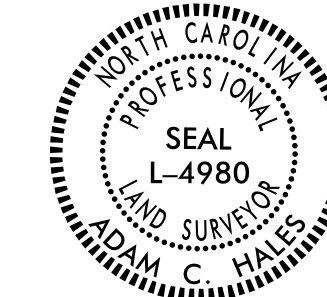

 Adam Hales
 Professional Land Surveyor L-4980

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 AHales

Location and Surveys

DEWBERRY ENGINEERS INC.

PROJECT SURVEYOR

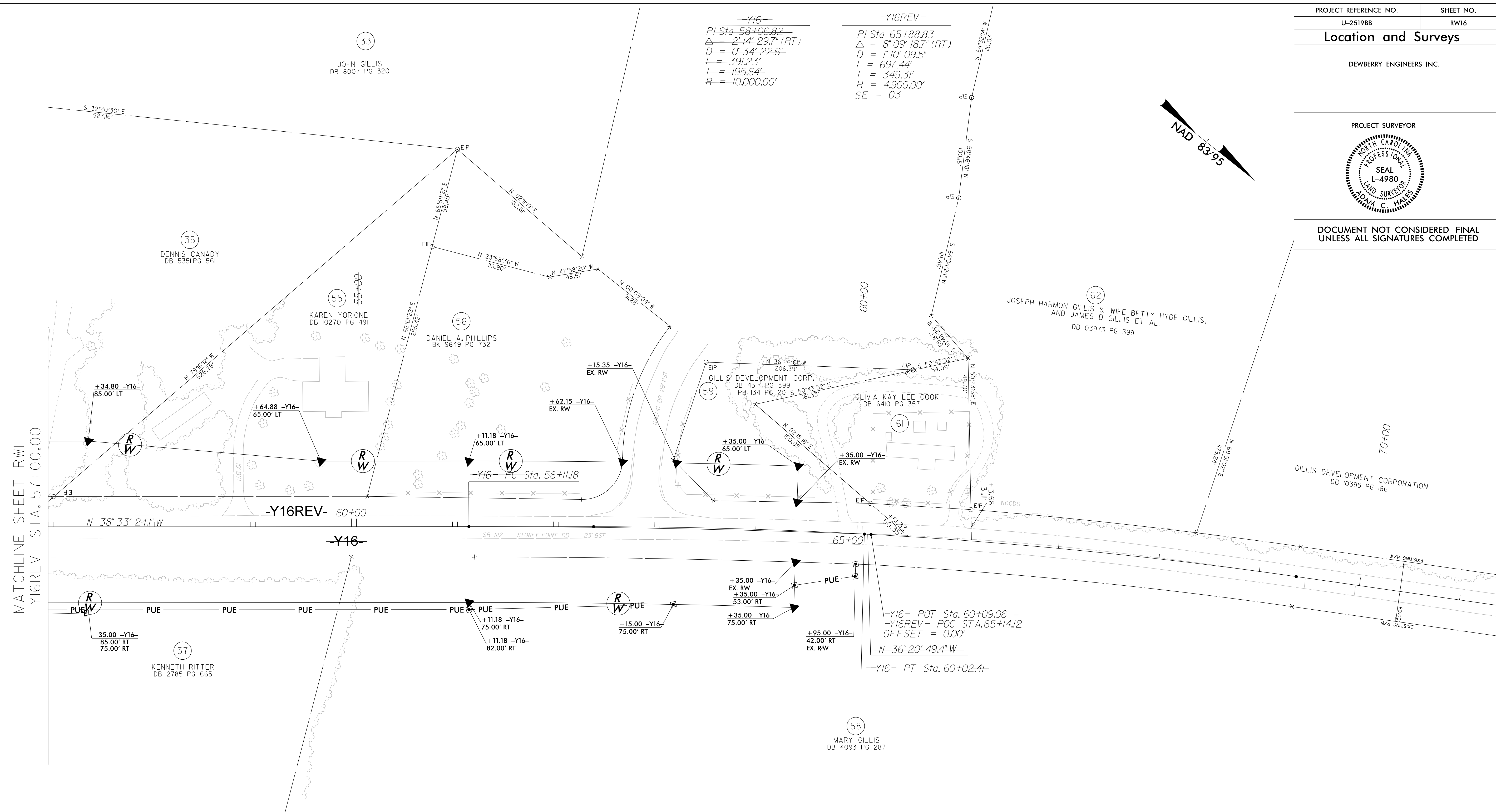


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



-Y16-
 PI Sta 58+06.82
 $\Delta = 2^{\circ}14'29.7''$ (RT)
 $D = 0^{\circ}34'22.6''$
 $L = 391.23'$
 $T = 195.64'$
 $R = 10,000.00'$

-Y16REV-
 PI Sta 65+88.83
 $\Delta = 8^{\circ}09'18.7''$ (RT)
 $D = 1^{\circ}10'09.5''$
 $L = 697.44'$
 $T = 349.31'$
 $R = 4,900.00'$
 $SE = 03$



REVISIONS

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED FEBRUARY 1 TO MARCH 1, 2022.


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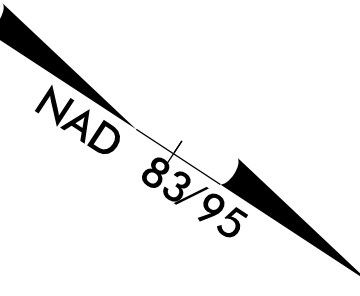
This 10th day of March, 2022.

DocuSigned by:
 Adam Hales
 Professional Land Surveyor L-4980

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 ahales

6/2/09

| | |
|---|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | RW17 |
| Location and Surveys | |
| DEWBERRY ENGINEERS INC. | |
| PROJECT SURVEYOR | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |



-SRI-
 PI Sta 14+45.78
 $\Delta = 40^\circ 34' 21.1''$ (LT)
 $D = 4' 45'' 03.2''$
 $L = 854.00'$
 $T = 445.78'$
 $R = 1,206.00'$
 $Vd = 40$ MPH
 SUPER = 4%

TRUDY MATTHEWS
 DB 5058 PG 558
 PB 98 PG 138

DOUGLAS KRIEGER
 DB 3623 PG 571

DOUGLAS KRIEGER
 DB 3945 PG 884

SUGIN MENDENHALL
 DB 2800 PG 713

(38)
 JANE BUIE
 DB 191 PG 202

(39)
 FRANCES MOYE
 DB 634 PG 754

(1)
 NCDOT
 formerly GERTRUDE CODWIN
 DB 9667 PG 262

(2)
 MARVIN LINDSAY
 DB 4049 PG 189

(7)
 GF MOODY PROPERTIES
 DB 9300 PG 787

(3)
 ALEX THOMPSON
 DB 3735 PG 381

(39)
 FRANCES MOYE
 DB 634 PG 754

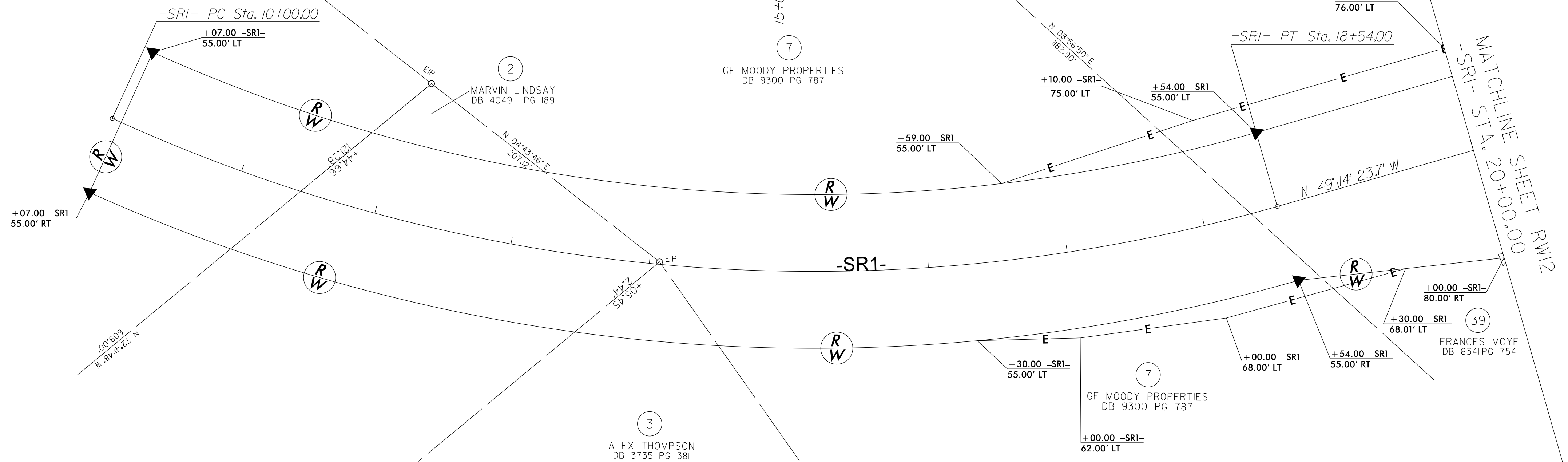
I, Adam Hales, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from February 1 to March 1, 2022, and all coordinates are based on NAD83/95; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of March, 2022.

Adam Hales
 Professional Land Surveyor L-4980

REVISIONS

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 6/2/2022 10:48:57 AM AT PF30BEKY
 ahales



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 FEBRUARY 1 TO MARCH 1, 2022.