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09/06/19

TIP PROJECT: B-5301

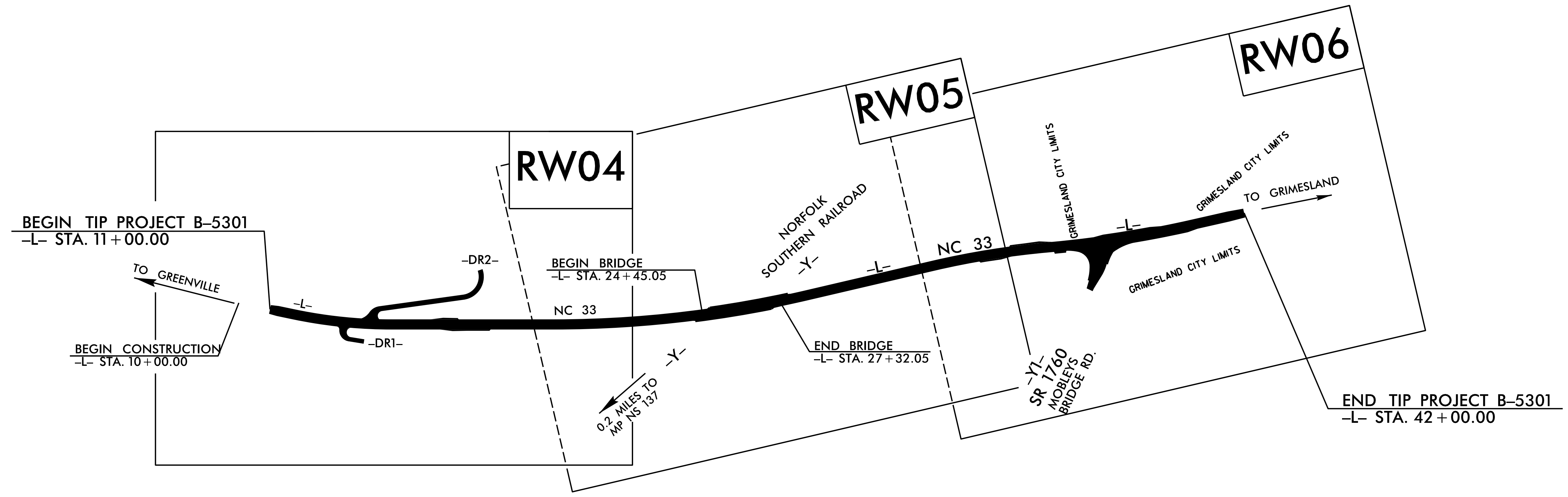
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-------|-----------------------------|-----------|--------------|
| N.C. | 46015.1.1 | RW01 | 11 |

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

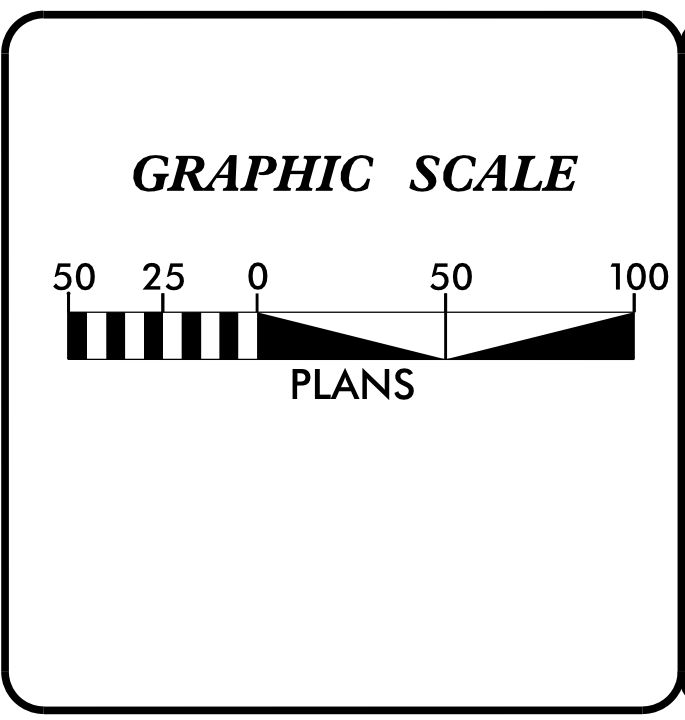
SURVEY CONTROL, EXISTING CENTERLINES,
 RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

PITT COUNTY

LOCATION: BRIDGE NO. 87 OVER NORFOLK SOUTHERN RAILROAD
 ON NC 33



\$\$\$\$\$ SYSTEM \$\$\$\$\$\$
 \$\$\$ DDN \$\$\$
 \$\$\$ USERNAME \$\$\$



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B5301 GPS-1" WITH NAD 83/2011 STATE PLANE GRID COORDINATES OF NORTHING: 668079.599(ft) EASTING: 2533218.779(ft) ELEVATION: 32.32(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99989207

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B5301 GPS-1" TO -L- STATION 11+00.00 IS N 22-38'58" W 171.60(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD88

Prepared in the Office of:

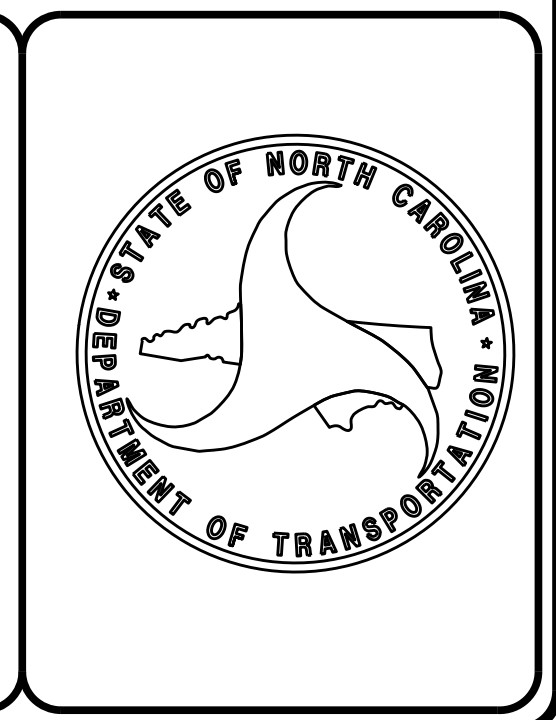
**DIVISION 2
 LOCATION & SURVEYS**

2019 STANDARD SPECIFICATIONS

| | |
|---|---------------------------------------|
| RIGHT OF WAY DATE: MAY 16, 2019 | LETTING DATE: JUNE 16, 2020 |
|---|---------------------------------------|

PROFESSIONAL LAND SURVEYOR

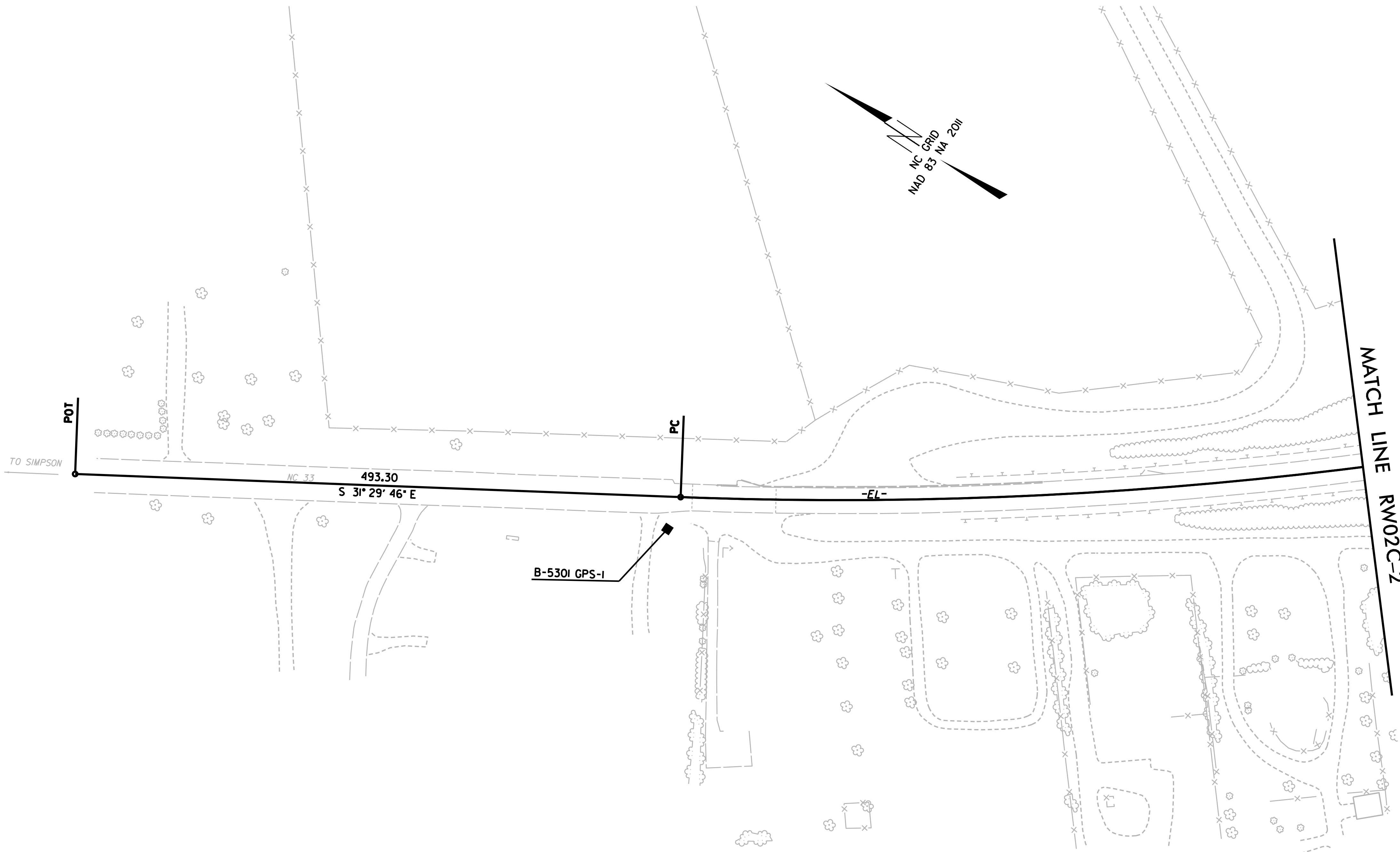
DocSigned by:
 R.J. Reigner
 SIGNATURE: _____ Date: 3/3/2020



| | |
|----------------------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-5301 | RW02C-1 |
| Location and Surveys | |
| DIVISION 2 LOCATION & SURVEYS | |

SURVEY CONTROL SHEET B-5301

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



REVISIONS

6/2/09
I4-AUG-2018 16:51
N:\BRIDGE\JOBS\B5301\RW_Sheets\b5301_1s_rw02c-1.dgn
merhodes1 AT LS-299767

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.

6/2/09

SURVEY CONTROL SHEET B-5301

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

| | |
|----------------------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-5301 | RW02C-2 |
| Location and Surveys | |
| DIVISION 2 LOCATION & SURVEYS | |

REVISIONS



NOTES:

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

14-AUG-2018 16:53
 N:\BRIDGE\085\B5301\RW_Sheets\B5301_1s_rw02c-2.dgn
 mchodes1 AT LS-295767

6/2/09

SURVEY CONTROL SHEET B-5301

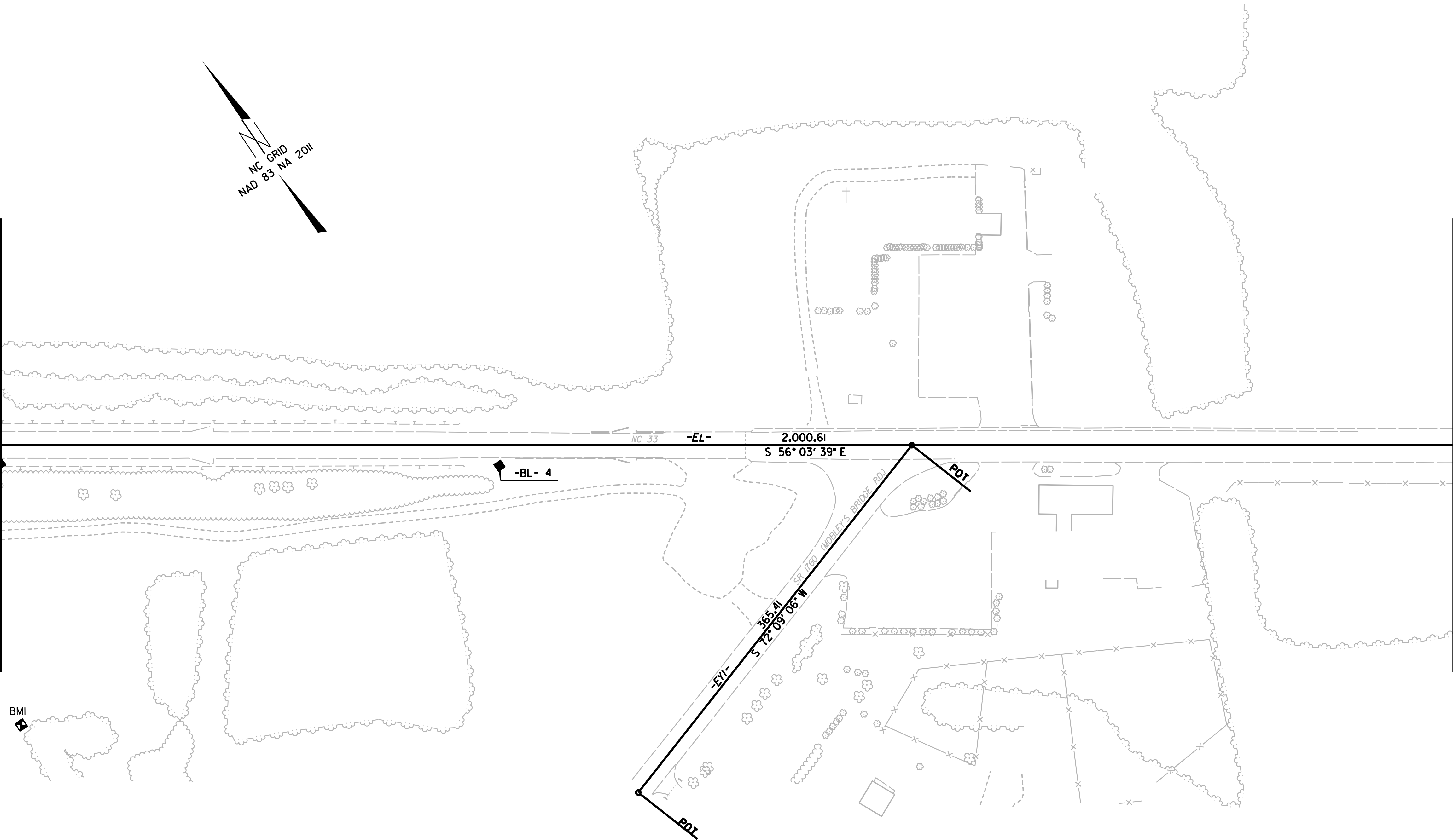
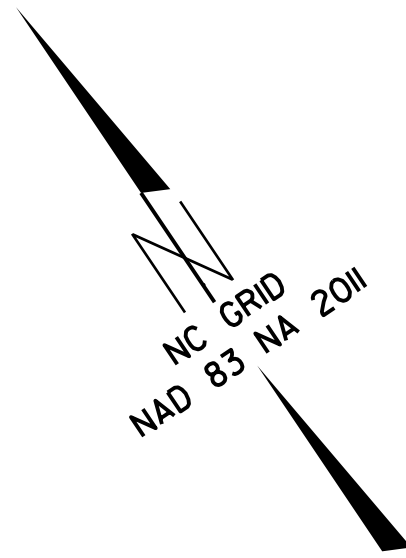
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

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|----------------------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-5301 | RW02C-3 |
| Location and Surveys | |
| DIVISION 2 LOCATION & SURVEYS | |

REVISIONS

MATCH LINE RW02C-2

MATCH LINE RW02C-4



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.

I4-AUG-2018 16:54
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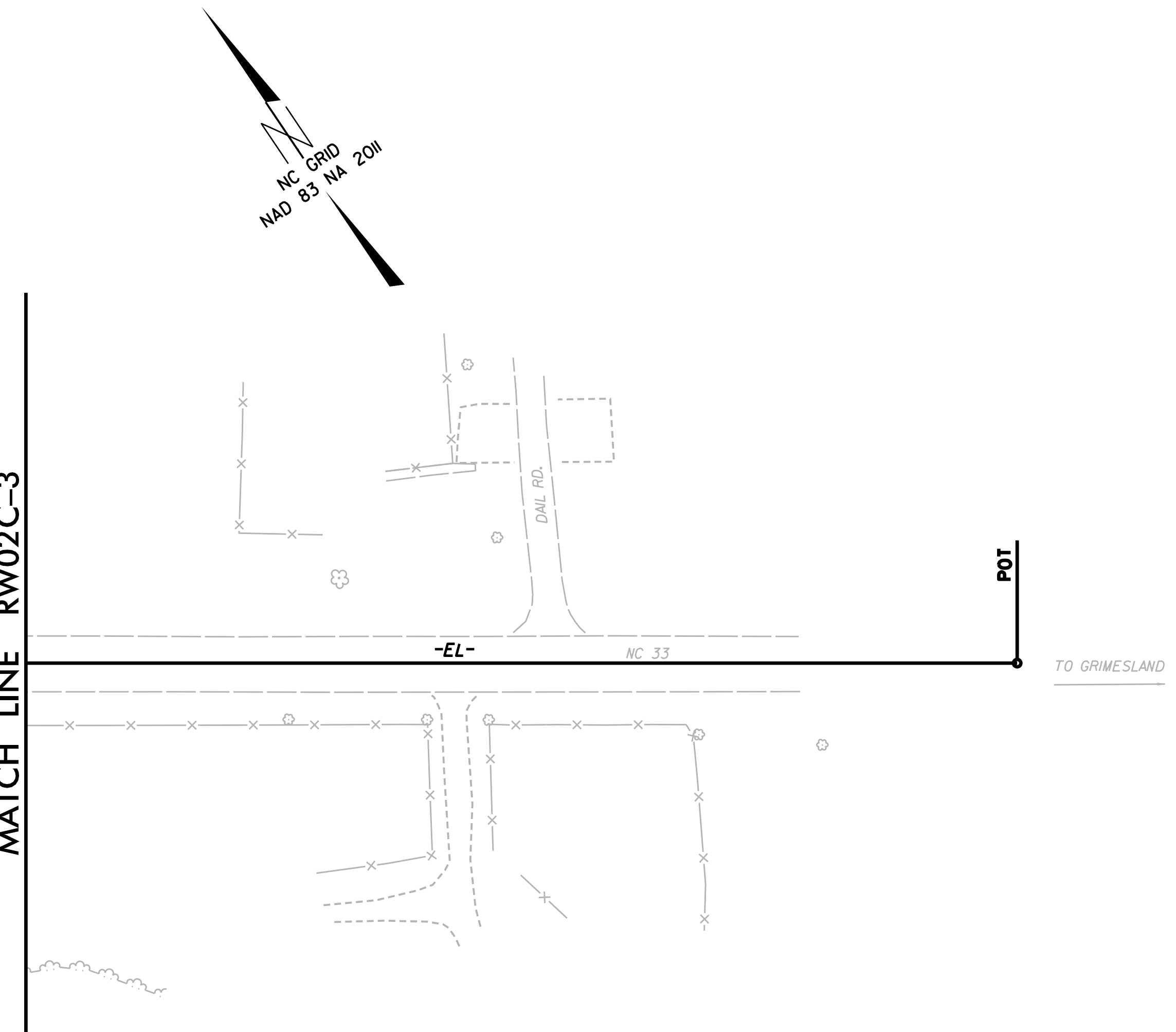
SURVEY CONTROL SHEET B-5301

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

| | |
|----------------------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-5301 | RW02C-4 |
| Location and Surveys | |
| DIVISION 2 LOCATION & SURVEYS | |

REVISIONS

MATCH LINE RW02C-3



NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
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 merhodes1 AT LS-299767

6/2/09

SURVEY CONTROL SHEET B-5301

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

| | |
|----------------------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-5301 | RW02C-5 |
| Location and Surveys | |
| DIVISION 2 LOCATION & SURVEYS | |

REVISIONS

BASELINE

| BL | POINT | DESC. | NORTH | EAST | ELEVATION |
|------|--------|-------|-------------|--------------|-----------|
| GPS1 | B-5301 | GPS1 | 668079.5990 | 2533218.7790 | 32.32 |
| 1 | | BL-1 | 667548.2800 | 2533633.0080 | 52.64 |
| 2 | | BL-2 | 667080.4130 | 2534162.1120 | 62.36 |
| 3 | | BL-3 | 666862.0230 | 2534486.8290 | 54.34 |
| 4 | | BL-4 | 666630.4160 | 2534828.1360 | 40.48 |

EXISTING ALIGNMENT

| EL | | N | E | BEARING | DIST | DELTA | D | L | T | R |
|-------|--|------------|-------------|-----------------|---------|-------------------|-------------|---------|--------|---------|
| POT | | 668505.688 | 2532988.660 | | | | | | | |
| LINE | | | | S 31°29'45.8" E | 493.30 | | | | | |
| PC | | 668085.061 | 2533246.381 | | | | | | | |
| CURVE | | | | S 41°04'34.1" E | 1126.53 | 19°09'36.5" (L T) | 01°41'34.4" | 1131.79 | 571.23 | 3384.48 |
| PT | | 667235.842 | 2533986.579 | | | | | | | |
| LINE | | | | S 50°39'24.0" E | 0.00 | | | | | |
| PC | | 667235.842 | 2533986.579 | | | | | | | |
| CURVE | | | | S 53°21'30.5" E | 326.27 | 05°24'16.5" (L T) | 01°39'21.1" | 326.39 | 163.32 | 3460.17 |
| PT | | 667041.123 | 2534240.373 | | | | | | | |
| LINE | | | | S 56°03'38.8" E | 2000.61 | | | | | |
| POT | | 665924.153 | 2535908.143 | | | | | | | |

BENCHMARK

.....
 BM1 ELEVATION = 41.36
 N 666673 E 2534381
 R/R SPIKE SET IN BASE OF 36" TWIN OAKTREE

EY

| POINT | N | E | BEARING | DIST |
|-------|------------|-------------|-----------------|--------|
| POT | 667192.058 | 2533773.115 | | |
| LINE | | | S 84°50'10.5" E | 628.86 |
| POT | 667135.458 | 2534399.427 | | |

EY

| POINT | N | E | BEARING | DIST |
|-------|------------|-------------|-----------------|--------|
| POT | 667192.058 | 2533773.115 | | |
| LINE | | | S 84°50'10.5" E | 628.86 |
| POT | 667135.458 | 2534399.427 | | |

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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 merhodes1 AT LS-299767

PROPOSED ALIGNMENT CONTROL SHEET B-5301

| | |
|----------------------------------|----------------------|
| PROJECT REFERENCE NO. B-5301 | SHEET NO. RW02D-1 |
| Location and Surveys | |
| DIVISION 2 LOCATION & SURVEYS | |

REVISIONS

DESIGN ALIGNMENTS

| | | L | |
|------|----------|-------------|--------------|
| TYPE | STATION | NORTH | EAST |
| POT | 10+00.00 | 668323.2278 | 2533100.4548 |
| PC | 11+76.64 | 668172.6122 | 2533192.7379 |
| PT | 14+85.46 | 667927.6905 | 2533379.9555 |
| PC | 19+96.18 | 667555.9559 | 2533730.1667 |
| PT | 27+99.91 | 667039.0807 | 2534343.3448 |
| PC | 32+06.67 | 666814.2781 | 2534682.3359 |
| PRC | 35+73.89 | 666590.4252 | 2534973.0506 |
| PT | 40+31.02 | 666310.5111 | 2535334.0310 |
| POT | 43+66.58 | 666123.1635 | 2535612.4217 |

| | | Y | |
|------|----------|-------------|--------------|
| TYPE | STATION | NORTH | EAST |
| POT | 10+00.00 | 667207.6080 | 2533601.0430 |
| POT | 19+93.83 | 667118.1609 | 2534590.8372 |

| | | Y1 | |
|------|----------|-------------|--------------|
| TYPE | STATION | NORTH | EAST |
| POT | 10+00.00 | 666484.2489 | 2535098.4346 |
| PC | 10+26.74 | 666463.4297 | 2535081.6514 |
| PT | 10+99.34 | 666422.8967 | 2535022.6476 |
| POT | 13+62.16 | 666342.3427 | 2534772.4780 |

| | | DR1 | |
|------|----------|-------------|--------------|
| TYPE | STATION | NORTH | EAST |
| POT | 10+00.00 | 668041.2655 | 2533283.1550 |
| PC | 10+26.89 | 668024.8628 | 2533261.8453 |
| PT | 10+64.65 | 667991.0309 | 2533256.3962 |
| POT | 11+12.61 | 667951.3240 | 2533283.2941 |

| | | DR2 | |
|------|----------|-------------|--------------|
| TYPE | STATION | NORTH | EAST |
| POT | 10+00.00 | 667864.9287 | 2533708.1759 |
| PC | 10+25.95 | 667841.9452 | 2533696.1366 |
| PT | 11+40.72 | 667821.4623 | 2533597.8125 |
| PC | 13+99.03 | 667983.3842 | 2533396.5539 |
| PT | 14+54.64 | 667982.4787 | 2533345.3201 |
| POT | 14+65.64 | 667975.2851 | 2533336.9990 |

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.

6/2/09
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 N:\BRI\DCI\08550\5550\1\RW_Sheets\B5301.L.S.rw02d.rdg
 Method:

I, Robert J. Reigner, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled come 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.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 13th day of August, 2019.

DocuSigned by: R.J. Reigner Professional Land Surveyor L-4007 PLS Seal

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

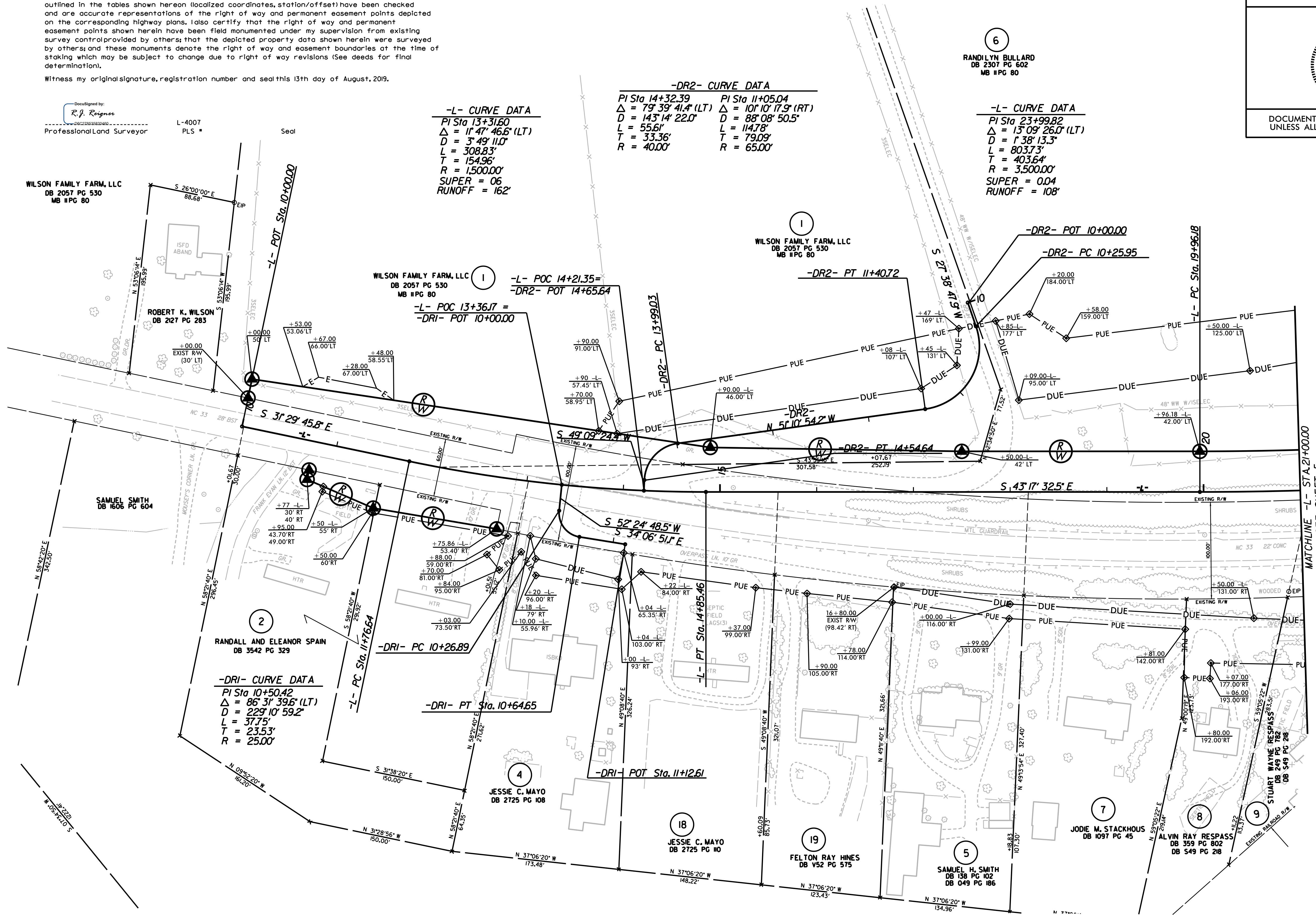
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

PROJECT REFERENCE NO. B-5301 SHEET NO. RW04 Location and Surveys DIVISION 2 LOCATION & SURVEYS PROJECT SURVEYOR RANDOLYN BULLARD DB 2307 PG 602 MB #PG 80 SEAL L-4007 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L- CURVE DATA PI Sta 13+31.60 Δ = 1° 47' 46.6" (LT) D = 3' 49' 11.0" L = 308.83' T = 154.96' R = 1,500.00' SUPER = 06 RUNOFF = 162'

-DR2- CURVE DATA PI Sta 14+32.39 Δ = 79° 39' 41.4" (LT) D = 143' 14' 22.0" L = 55.61' T = 33.36' R = 40.00' PI Sta 11+05.04 Δ = 10° 10' 17.9" (RT) D = 88' 08' 50.5" L = 114.78' T = 79.09' R = 65.00'

-L- CURVE DATA PI Sta 23+99.82 Δ = 13° 09' 26.0" (LT) D = 1' 38' 13.3" L = 803.73' T = 403.64' R = 3,500.00' SUPER = 0.04 RUNOFF = 108'




REVISIONS

NC-FEB-2020 15:37 1-2020\Revised R/W Sheets-1-2020\B5301.LS.rw04.dgn

MATCHLINE -L- STA. 21+00.00 SEE SHEET 5

THE PURPOSE OF THIS ADDENDUM IS TO SHOW THE REVISION MADE TO THE TUE BETWEEN STATIONS 35+00.00 AND 36+00.00. SAID REVISIONS AER SHOWN IN BOLD PRINT.

| | |
|---|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-5301 | RW06-A |
| Location and Surveys | |
| DIVISION 2 LOCATION & SURVEYS | |
| PROJECT SURVEYOR | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

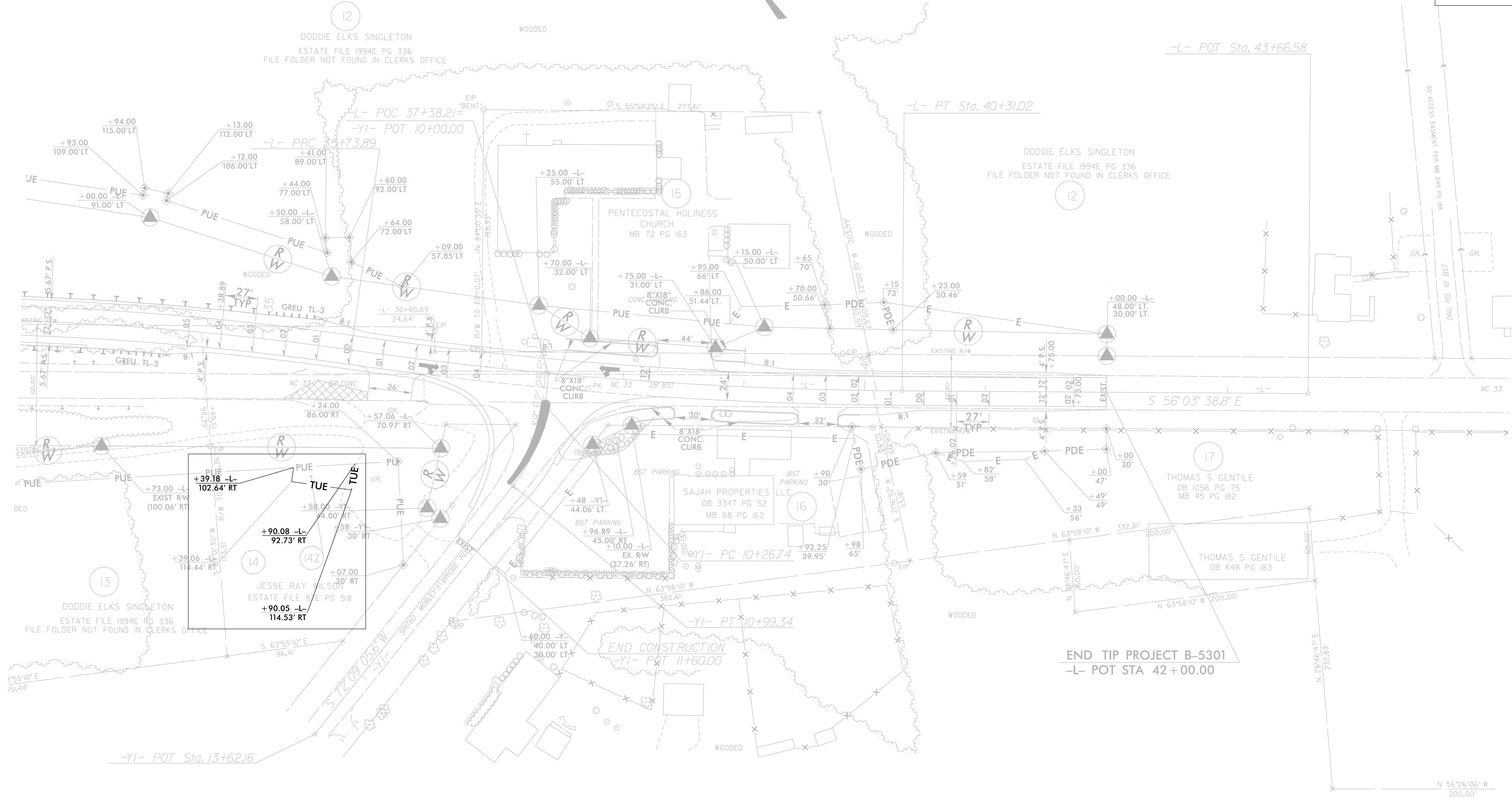
I, James C. Green, III, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed on May 3, 2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 12th day of May, 2022.
DocuSigned by:
James C. Green
Professional Land Surveyor L-5082



-L- CURVE DATA

| | |
|-----------------------------------|-----------------------------------|
| PI Sta 33+90.59 | PI Sta 38+02.80 |
| $\Delta = 8^{\circ}05'32.4"$ (RT) | $\Delta = 7^{\circ}42'12.7"$ (LT) |
| D = 2'12'13.3" | D = 1'41'06.6" |
| L = 367.22' | L = 457.14' |
| T = 183.91' | T = 228.91' |
| R = 2,600.00' | R = 3,400.00' |
| SUPER = 0.05 | SUPER = 0.04 |
| RUNOFF = 135' | RUNOFF = 108' |



5" MONLITHIC CONCRETE ISLAND

-YI- CURVE DATA

| |
|------------------------------------|
| PI Sta 10+64.00 |
| $\Delta = 33^{\circ}16'40.2"$ (RT) |
| D = 45'50'11.8" |
| L = 72.60' |
| T = 37.36' |
| R = 125.00' |

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 JUNE 2019 TO JULY 2019, JANUARY 2020 FEBRUARY 2022 AND MAY 2022.

REVISIONS

6/2/19