

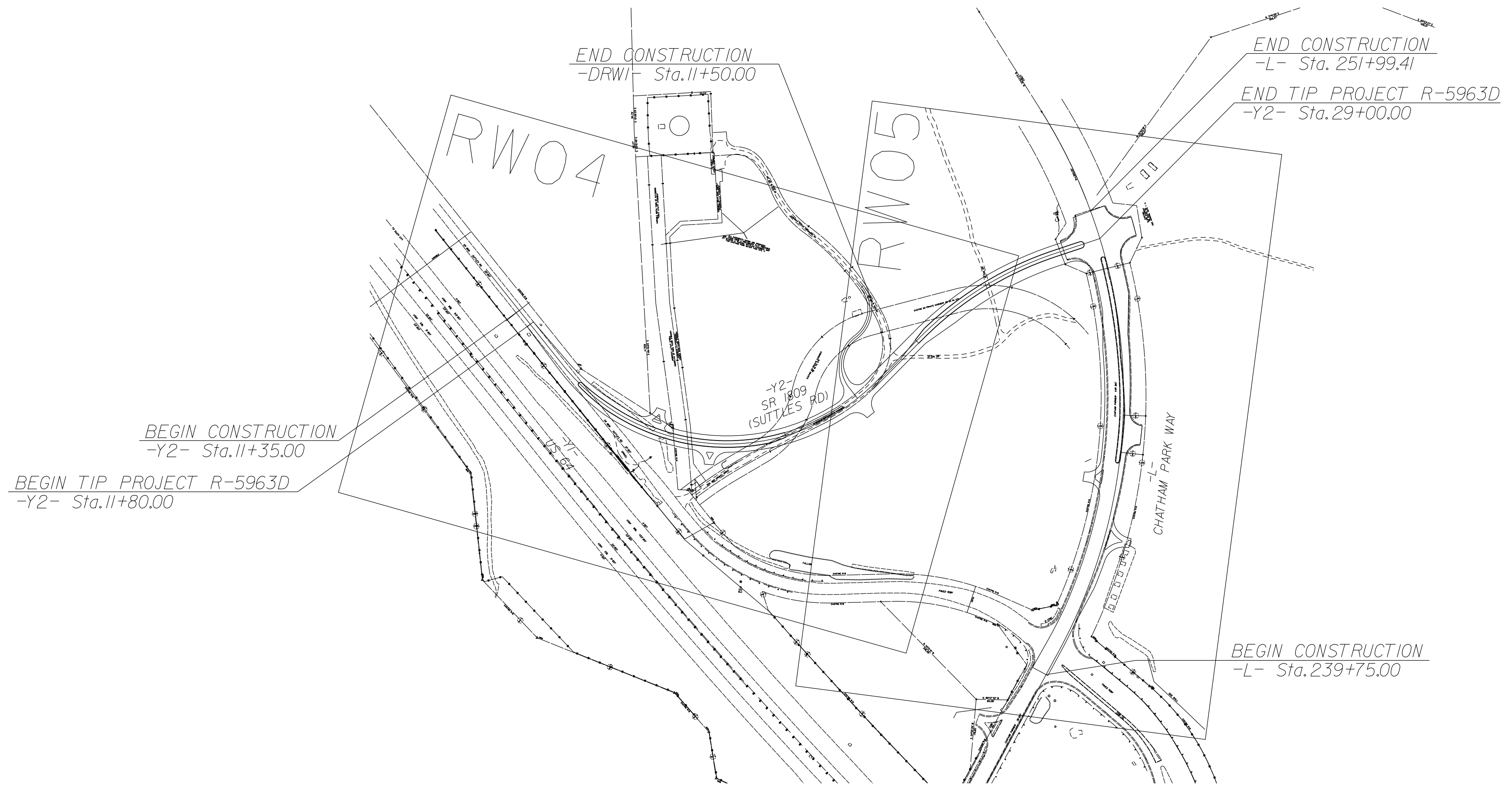
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-------|-----------------------------|-----------|--------------|
| N.C.  | R-5963D                     | RW01      | 08           |

**TIP PROJECT: R-5963D**

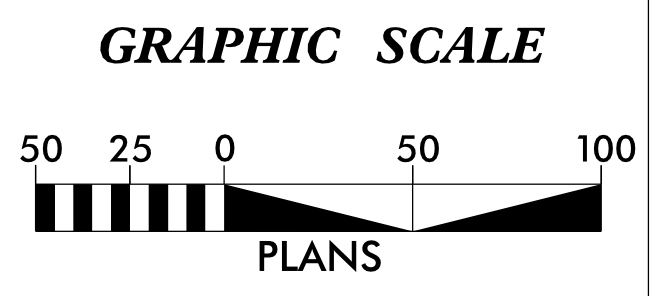
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

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

**CHATHAM COUNTY**



CHATHAM PARK WAY IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS LIMITED TO POINTS AS SHOWN ON THE PLANS



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "R5930-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 721,723.517(ft) EASTING: 1,956,011.320(ft) ELEVATION: 539.764(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999886829

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R5930-1" TO -L- STATION 239+75.00 IS N 31°-34'34.8" E 775.23(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88 - GEOID 12B

Prepared in the Office of:

**NV15**

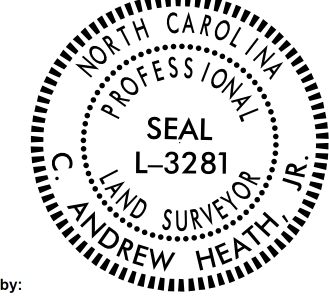
NV5 ENGINEERS & CONSULTANTS, INC.  
 3300 REGENCY PARKWAY, SUITE 100  
 CARY, NC 27513  
 P: 919.851.1912 www.NV5.com  
 NC License # F. 1533  
 Member: IACM Engineers & Consultants

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
 06/28/2023

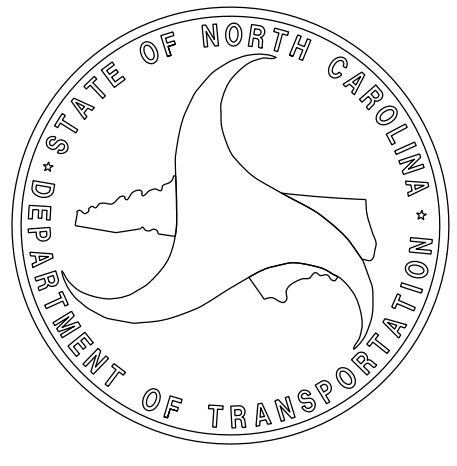
**LETTING DATE:**  
 04/16/2024

**PROFESSIONAL LAND SURVEYOR**



DocuSigned by:  
 C. Andrew Heath Jr.  
 SIGNATURE:

2/1/2024  
 Date:





# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

I, C. Andrew Heath, Jr., PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA  
Type of GPS field procedure: RTN  
Dates of survey: 3/01/2020 - 3/09/2020  
Datum/Epoch: nad83 (2011)  
Published/Fixed-control use: N/A  
Localized around: R5930-1  
Northing: 721,723.517  
Easting: 1,956,011.32  
Combined grid factor: 0.9998868290  
Geoid model: 12B (Conus)  
Units: US Survey Feet

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 3/11/2020 to 4/22/2020, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

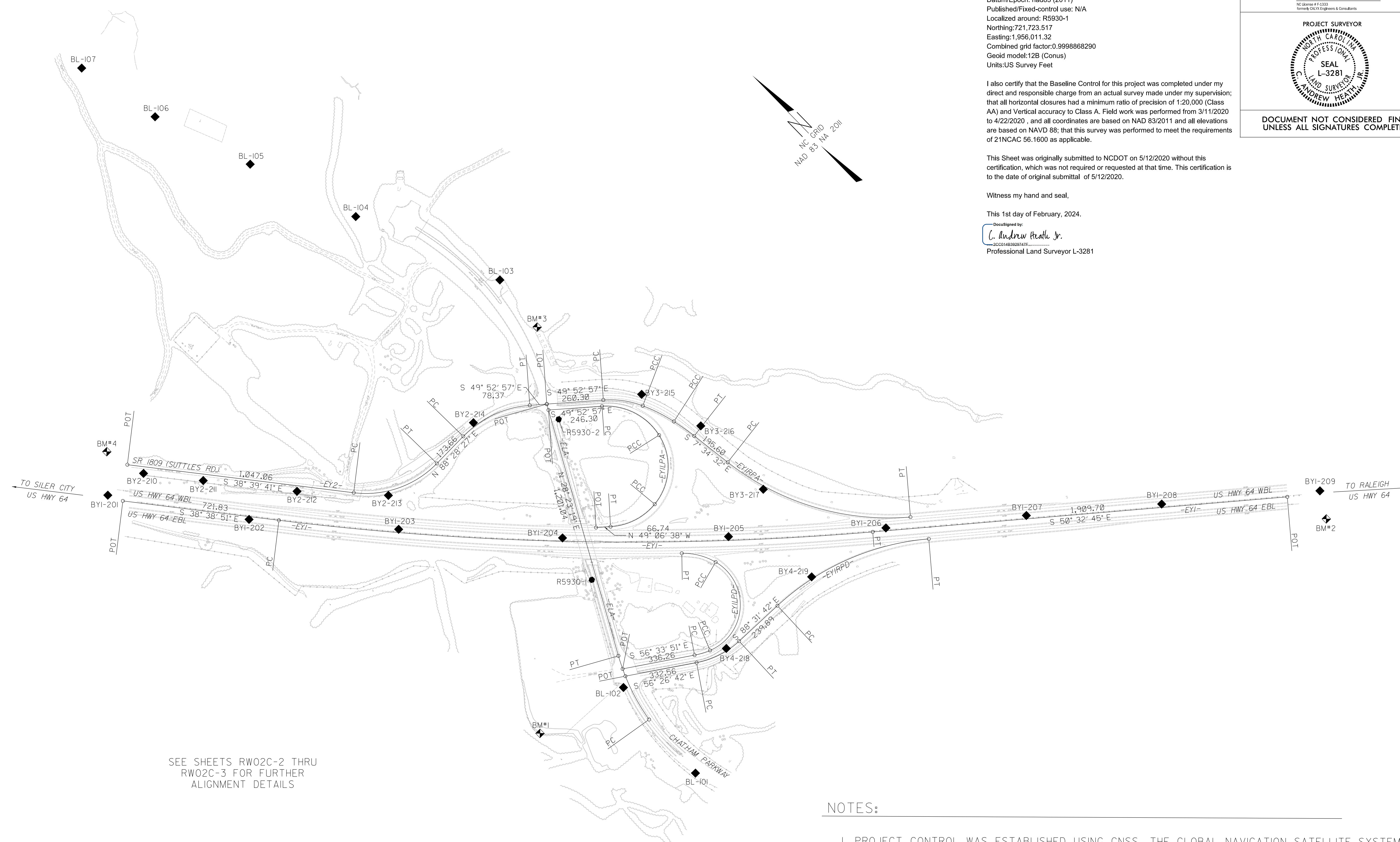
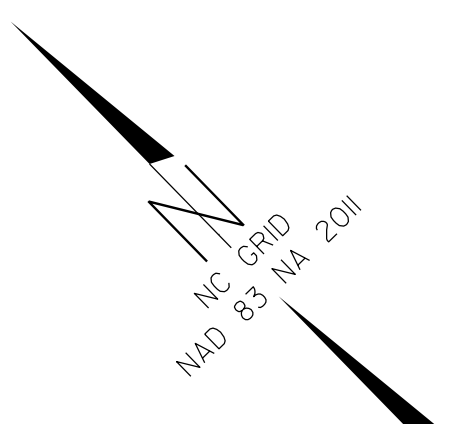
This Sheet was originally submitted to NCDOT on 5/12/2020 without this certification, which was not required or requested at that time. This certification is to the date of original submittal of 5/12/2020.

Witness my hand and seal,

This 1st day of February, 2024.

Declassified by:  
*C. Andrew Heath Jr.*  
2024014839297437  
Professional Land Surveyor L-3281

|  |                      |
|--|----------------------|
| PROJECT REFERENCE NO.<br>R-5963D   | SHEET NO.<br>RW02C-1 |
| <b>Location and Surveys</b>  |                      |
| <b>NV5</b>   |                      |
| <small>NV5 ENGINEERS &amp; CONSULTANTS, INC.<br/>6750 TRYON ROAD<br/>CARY, NC 27538<br/>P: 919.851.1912 www.NV5.com<br/>NC License # F 1333<br/>Formerly C&amp;A Engineers &amp; Consultants</small> |                      |
|  |                      |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>   |                      |



SEE SHEETS RW02C-2 THRU RW02C-3 FOR FURTHER ALIGNMENT DETAILS

### 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.


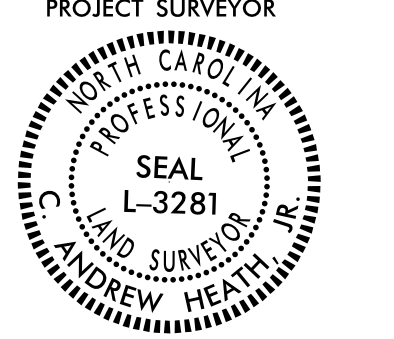
REVISIONS

O:\FEB-2024\_0854 C:\Projects\2024\713324-2024014\02\SUR\Right of Way sheets\5963d-1s-rw02c-1.dgn AT NCCAR-CRANS10V



# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

|   |           |
|---|-----------|
| PROJECT REFERENCE NO.   | SHEET NO. |
| R-5930  | RW02C-4   |
| <b>Location and Surveys</b>   |           |
| <br><small>NV5 ENGINEERS &amp; CONSULTANTS, INC.<br/>         6750 TRYON ROAD<br/>         DARTMOUTH, NC 27716<br/>         P: 919.851.1912 www.NV5.com<br/>         NC License # P-1203<br/>         Formerly C&amp;A Engineers &amp; Consultants</small> |           |
|    |           |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>  |           |

| BL    | POINT   | DESC. | NORTH       | EAST         | ELEVATION |
|-------|---------|-------|-------------|--------------|-----------|
| 101   | BL-101  |       | 720756.4790 | 1955732.5440 | 478.31    |
| 102   | BL-102  |       | 721268.5690 | 1955770.2670 | 513.57    |
| 1     | R5930-1 |       | 721723.5170 | 1956011.3200 | 539.76    |
| EOBY1 |         |       | 721889.4791 | 1956117.4966 | UNKNOWN   |
| 2     | R5930-2 |       | 722357.1830 | 1956416.7170 | 546.27    |
| 103   | BL-103  |       | 723003.2180 | 1956669.6370 | 544.52    |
| 104   | BL-104  |       | 723673.3200 | 1956399.0540 | 545.11    |
| 105   | BL-105  |       | 724183.5890 | 1956219.9480 | 565.64    |
| 106   | BL-106  |       | 724644.2560 | 1956059.3490 | 548.07    |
| 107   | BL-107  |       | 725039.3860 | 1955974.0860 | 531.54    |

.....  
 BM1 ELEVATION = 470.55  
 N 721385 E 1955349  
 RRS IN 12" PINE  
 .....  
 BM2 ELEVATION = 419.12  
 N 719570 E 1958620  
 RRS IN 12" POP  
 .....  
 BM3 ELEVATION = 540.21  
 N 722729 E 1956641  
 RRS IN 20" OAK  
 .....  
 BM4 ELEVATION = 573.48  
 N 723699 E 1954828  
 RRS IN 12" GUM  
 .....

| BY1   | POINT   | DESC. | NORTH       | EAST         | ELEVATION |
|-------|---------|-------|-------------|--------------|-----------|
| 201   | BY1-201 |       | 723552.8080 | 1954691.7550 | 550.36    |
| 202   | BY1-202 |       | 723020.5420 | 1955078.3590 | 539.96    |
| 203   | BY1-203 |       | 722508.5700 | 1955538.2250 | 530.42    |
| 204   | BY1-204 |       | 721955.1490 | 1956049.0890 | 519.40    |
| EOBY1 |         |       | 721889.4791 | 1956117.4966 | UNKNOWN   |
| 205   | BY1-205 |       | 721427.4990 | 1956598.7360 | 508.52    |
| 206   | BY1-206 |       | 720951.4050 | 1957143.7760 | 492.35    |
| 207   | BY1-207 |       | 720542.1690 | 1957645.2720 | 470.32    |
| 208   | BY1-208 |       | 720146.0130 | 1958126.5820 | 445.64    |
| 209   | BY1-209 |       | 719682.2280 | 1958688.8700 | 416.69    |

| BY2 | POINT   | DESC. | NORTH       | EAST         | ELEVATION |
|-----|---------|-------|-------------|--------------|-----------|
| 210 | BY2-210 |       | 723509.9430 | 1954878.9720 | 565.94    |
| 211 | BY2-211 |       | 723294.9370 | 1955052.2020 | 556.60    |
| 212 | BY2-212 |       | 722958.9890 | 1955325.8060 | 530.26    |
| 213 | BY2-213 |       | 722652.7810 | 1955613.0420 | 520.25    |
| 214 | BY2-214 |       | 722619.1810 | 1956125.4400 | 528.72    |
| A2  |         |       | 722357.1830 | 1956416.7170 | UNKNOWN   |

| BY3  | POINT   | DESC. | NORTH       | EAST         | ELEVATION |
|------|---------|-------|-------------|--------------|-----------|
| B2   |         |       | 722357.1830 | 1956416.7170 | UNKNOWN   |
| 215  | BY3-215 |       | 722173.1640 | 1956769.0190 | 537.66    |
| 216  | BY3-216 |       | 721880.0160 | 1956862.3840 | 524.02    |
| 217  | BY3-217 |       | 721471.3100 | 1956864.7640 | 506.21    |
| A206 |         |       | 720951.4050 | 1957143.7760 | UNKNOWN   |

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 C. Andrew Heath, Jr.  
 Professional Land Surveyor L-3281


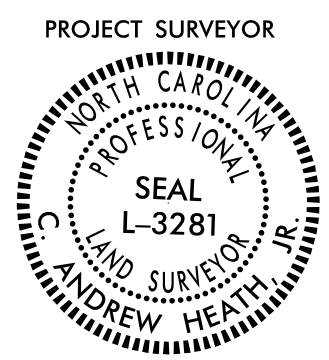
REVISIONS

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# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

|   |           |
|---|-----------|
| PROJECT REFERENCE NO.   | SHEET NO. |
| R-5963D   | RW02C-3   |
| <b>Location and Surveys</b>   |           |
| <br><small>NV5 ENGINEERS &amp; CONSULTANTS, INC.<br/>         6750 TRYON ROAD<br/>         CHARLOTTE, NC 27275<br/>         P: 919.851.1912 www.NV5.com<br/>         NC License # P-1233<br/>         Formerly C&amp;A Engineers &amp; Consultants</small> |           |
|    |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED  |           |

| ELA POINT |            |             |                 |         |                 |             |        |        |        |
|-----------|------------|-------------|-----------------|---------|-----------------|-------------|--------|--------|--------|
| POINT     | N          | E           | BEARING         | DIST    | DELTA           | D           | L      | T      | R      |
| PC        | 721081.228 | 1955752.031 |                 |         |                 |             |        |        |        |
| CURVE     |            |             | N 18°34'01.3" E | 324.10  | 19°38'35.6"(RT) | 06°01'52.1" | 325.70 | 164.46 | 950.00 |
| PT        | 721388.463 | 1955855.230 |                 |         |                 |             |        |        |        |
| LINE      |            |             | N 28°23'19.1" E | 1201.04 |                 |             |        |        |        |
| POT       | 722445.068 | 1956426.264 |                 |         |                 |             |        |        |        |

| EY2 POINT |            |             |                 |         |                 |             |        |        |        |
|-----------|------------|-------------|-----------------|---------|-----------------|-------------|--------|--------|--------|
| POINT     | N          | E           | BEARING         | DIST    | DELTA           | D           | L      | T      | R      |
| POT       | 723590.233 | 1954853.781 |                 |         |                 |             |        |        |        |
| LINE      |            |             | S 38°39'40.7" E | 1047.06 |                 |             |        |        |        |
| PC        | 722772.636 | 1955507.893 |                 |         |                 |             |        |        |        |
| CURVE     |            |             | S 65°05'37.0" E | 404.71  | 52°51'52.5"(LT) | 12°36'14.2" | 419.43 | 225.98 | 454.59 |
| PT        | 722602.198 | 1955874.963 |                 |         |                 |             |        |        |        |
| LINE      |            |             | N 88°28'26.8" E | 173.66  |                 |             |        |        |        |
| PC        | 722606.822 | 1956048.559 |                 |         |                 |             |        |        |        |
| CURVE     |            |             | S 70°42'15.1" E | 336.69  | 41°38'36.3"(RT) | 12°05'53.1" | 344.21 | 180.11 | 473.59 |
| PT        | 722495.565 | 1956366.334 |                 |         |                 |             |        |        |        |
| LINE      |            |             | S 49°52'56.9" E | 78.37   |                 |             |        |        |        |
| POT       | 722445.068 | 1956426.264 |                 |         |                 |             |        |        |        |

| EY1 POINT |            |             |                 |         |                 |             |         |         |          |
|-----------|------------|-------------|-----------------|---------|-----------------|-------------|---------|---------|----------|
| POINT     | N          | E           | BEARING         | DIST    | DELTA           | D           | L       | T       | R        |
| POT       | 723485.655 | 1954723.002 |                 |         |                 |             |         |         |          |
| LINE      |            |             | S 38°38'51.1" E | 721.83  |                 |             |         |         |          |
| PC        | 722921.904 | 1955173.804 |                 |         |                 |             |         |         |          |
| CURVE     |            |             | S 44°35'47.9" E | 2726.26 | 11°53'53.6"(LT) | 00°26'08.3" | 2731.17 | 1370.51 | 13151.93 |
| PT        | 720980.621 | 1957087.946 |                 |         |                 |             |         |         |          |
| LINE      |            |             | S 50°32'44.7" E | 1909.70 |                 |             |         |         |          |
| POT       | 719767.079 | 1958562.486 |                 |         |                 |             |         |         |          |

| EY1LPA POINT |            |             |                 |        |                 |             |        |        |        |
|--------------|------------|-------------|-----------------|--------|-----------------|-------------|--------|--------|--------|
| POINT        | N          | E           | BEARING         | DIST   | DELTA           | D           | L      | T      | R      |
| POT          | 722420.136 | 1956412.789 |                 |        |                 |             |        |        |        |
| LINE         |            |             | S 49°52'56.9" E | 246.30 |                 |             |        |        |        |
| PC           | 722261.434 | 1956601.138 |                 |        |                 |             |        |        |        |
| CURVE        |            |             | S 18°49'55.6" E | 293.87 | 61°29'04.7"(RT) | 19°55'58.0" | 308.46 | 170.96 | 287.44 |
| PCC          | 721983.294 | 1956695.998 |                 |        |                 |             |        |        |        |
| CURVE        |            |             | S 47°51'10.4" W | 317.72 | 71°53'14.0"(RT) | 21°10'15.7" | 339.55 | 196.22 | 270.63 |
| PCC          | 721770.094 | 1956460.435 |                 |        |                 |             |        |        |        |
| CURVE        |            |             | N 72°39'25.2" W | 227.77 | 47°05'34.8"(RT) | 20°05'53.5" | 234.31 | 124.23 | 285.08 |
| PT           | 721837.992 | 1956243.016 |                 |        |                 |             |        |        |        |
| LINE         |            |             | N 49°06'37.7" W | 66.74  |                 |             |        |        |        |
| POT          | 721881.682 | 1956192.561 |                 |        |                 |             |        |        |        |

| EY1RPA POINT |            |             |                 |        |                 |             |        |        |         |
|--------------|------------|-------------|-----------------|--------|-----------------|-------------|--------|--------|---------|
| POINT        | N          | E           | BEARING         | DIST   | DELTA           | D           | L      | T      | R       |
| POT          | 722445.068 | 1956426.264 |                 |        |                 |             |        |        |         |
| LINE         |            |             | S 49°52'56.9" E | 260.30 |                 |             |        |        |         |
| PC           | 722277.341 | 1956625.323 |                 |        |                 |             |        |        |         |
| CURVE        |            |             | S 37°21'58.6" E | 183.06 | 25°01'56.7"(RT) | 13°33'57.0" | 184.53 | 93.76  | 422.35  |
| PCC          | 722131.849 | 1956736.425 |                 |        |                 |             |        |        |         |
| CURVE        |            |             | S 18°56'37.2" E | 160.05 | 11°48'46.1"(RT) | 07°22'02.7" | 160.34 | 80.45  | 777.69  |
| PCC          | 721980.463 | 1956788.385 |                 |        |                 |             |        |        |         |
| CURVE        |            |             | S 10°18'23.3" E | 114.31 | 05°27'41.6"(RT) | 04°46'33.5" | 114.36 | 57.22  | 1199.67 |
| PT           | 721867.995 | 1956808.836 |                 |        |                 |             |        |        |         |
| LINE         |            |             | S 07°34'32.5" E | 195.60 |                 |             |        |        |         |
| PC           | 721674.105 | 1956834.623 |                 |        |                 |             |        |        |         |
| CURVE        |            |             | S 29°02'04.2" E | 875.57 | 42°55'03.6"(LT) | 04°47'16.4" | 896.38 | 470.39 | 1196.68 |
| PT           | 720908.572 | 1957259.568 |                 |        |                 |             |        |        |         |

| EY1LPD POINT |            |             |                 |        |                  |             |        |        |        |
|--------------|------------|-------------|-----------------|--------|------------------|-------------|--------|--------|--------|
| POINT        | N          | E           | BEARING         | DIST   | DELTA            | D           | L      | T      | R      |
| POT          | 721332.270 | 1955827.219 |                 |        |                  |             |        |        |        |
| LINE         |            |             | S 56°33'51.3" E | 336.26 |                  |             |        |        |        |
| PC           | 721146.987 | 1956107.834 |                 |        |                  |             |        |        |        |
| CURVE        |            |             | S 62°31'29.9" E | 74.12  | 11°55'17.1"(LT)  | 16°03'21.5" | 74.25  | 37.26  | 356.85 |
| PCC          | 721112.793 | 1956173.590 |                 |        |                  |             |        |        |        |
| CURVE        |            |             | N 47°56'04.6" E | 406.22 | 127°09'34.1"(LT) | 25°15'47.1" | 503.34 | 456.47 | 226.80 |
| PCC          | 721384.950 | 1956475.158 |                 |        |                  |             |        |        |        |
| CURVE        |            |             | N 31°10'55.6" W | 160.62 | 31°04'26.3"(LT)  | 19°06'36.7" | 162.60 | 83.36  | 299.82 |
| PT           | 721522.363 | 1956391.996 |                 |        |                  |             |        |        |        |

| EY1RPD POINT |            |             |                 |        |                 |             |        |        |         |
|--------------|------------|-------------|-----------------|--------|-----------------|-------------|--------|--------|---------|
| POINT        | N          | E           | BEARING         | DIST   | DELTA           | D           | L      | T      | R       |
| POT          | 721299.519 | 1955812.963 |                 |        |                 |             |        |        |         |
| LINE         |            |             | S 56°26'41.7" E | 332.56 |                 |             |        |        |         |
| PC           | 721115.699 | 1956090.105 |                 |        |                 |             |        |        |         |
| CURVE        |            |             | S 72°29'11.7" E | 218.80 | 32°05'00.1"(LT) | 14°28'21.2" | 221.68 | 113.83 | 395.89  |
| PT           | 721049.856 | 1956298.762 |                 |        |                 |             |        |        |         |
| LINE         |            |             | S 88°31'41.0" E | 239.89 |                 |             |        |        |         |
| PC           | 721043.694 | 1956538.573 |                 |        |                 |             |        |        |         |
| CURVE        |            |             | S 69°30'38.9" E | 759.29 | 38°02'05.7"(RT) | 04°55'04.0" | 773.42 | 401.56 | 1165.07 |
| PT           | 720777.919 | 1957249.831 |                 |        |                 |             |        |        |         |

I, C. Andrew Heath, Jr., PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

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DocuSigned by:  
  
 Professional Land Surveyor L-3281

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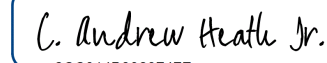
REVISIONS

# PROPOSED ALIGNMENT CONTROL SHEET

|   |                      |
|---|----------------------|
| PROJECT REFERENCE NO.<br>R-5963D  | SHEET NO.<br>RW02D-1 |
| <b>Location and Surveys</b>   |                      |
| <br><small>NV5 ENGINEERS &amp; CONSULTANTS, INC.<br/>6750 TRYON ROAD<br/>DURHAM, NC 27715<br/>P: 919.851.1912 www.NV5.com<br/>NC License # P-1203<br/>Formerly C&amp;A Engineers &amp; Consultants</small> |                      |
| PROJECT SURVEYOR<br>   |                      |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED  |                      |

I, C. Andrew Heath, Jr., 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 1st day of February, 2024.

DocuSigned by:  
  
 20001483929747F  
 Professional Land Surveyor L-3281

| L    |           |             |              |
|------|-----------|-------------|--------------|
| TYPE | STATION   | NORTH       | EAST         |
| POT  | 10+00.00  | 704887.5958 | 1947252.9033 |
| PC   | 18+51.04  | 705084.4934 | 1948080.8514 |
| PT   | 24+54.90  | 705134.0738 | 1948680.3722 |
| PC   | 30+58.40  | 705092.7950 | 1949282.4598 |
| PT   | 44+12.98  | 705447.4843 | 1950563.0860 |
| PC   | 76+48.92  | 707298.1678 | 1953217.5759 |
| PT   | 77+20.44  | 707341.1288 | 1953274.7269 |
| PC   | 78+10.24  | 707397.6185 | 1953344.5327 |
| PRC  | 79+76.71  | 707483.1651 | 1953486.7225 |
| PT   | 81+21.72  | 707555.5120 | 1953611.9910 |
| PC   | 86+33.76  | 707863.1795 | 1954021.2934 |
| PT   | 94+78.78  | 708581.4205 | 1954417.1355 |
| PC   | 107+84.54 | 709882.8814 | 1954523.0474 |
| PT   | 125+13.14 | 711522.8301 | 1955025.4509 |
| PC   | 136+66.64 | 712527.6457 | 1955591.9310 |
| PT   | 151+72.93 | 713984.8471 | 1955792.4965 |
| PC   | 161+80.67 | 714963.7530 | 1955553.1558 |
| PT   | 168+17.57 | 715595.6428 | 1955535.7788 |
| PC   | 185+26.42 | 717275.3953 | 1955849.7930 |
| PT   | 190+55.06 | 717780.9402 | 1956000.9494 |
| PC   | 195+69.78 | 718255.7701 | 1956199.6170 |
| PT   | 209+92.98 | 719642.1836 | 1956200.9098 |
| PC   | 219+49.04 | 720524.8438 | 1955833.5398 |
| PT   | 228+38.99 | 721384.6186 | 1955877.0625 |
| PC   | 240+45.29 | 722445.8013 | 1956450.6802 |
| PT   | 254+81.73 | 723815.6765 | 1956406.0757 |

| Y1   |          |             |              |
|------|----------|-------------|--------------|
| TYPE | STATION  | NORTH       | EAST         |
| PC   | 10+00.00 | 725146.5297 | 1953353.1724 |
| PT   | 18+46.80 | 724506.1746 | 1953906.9447 |
| PC   | 36+58.25 | 723091.4278 | 1955038.2452 |
| PT   | 38+03.83 | 722978.3959 | 1955129.9878 |
| PC   | 41+15.23 | 722738.0503 | 1955327.9841 |
| PT   | 65+22.78 | 721033.6338 | 1957023.3692 |
| POT  | 74+08.72 | 720471.3106 | 1957707.9829 |

| Y2   |          |             |              |
|------|----------|-------------|--------------|
| TYPE | STATION  | NORTH       | EAST         |
| POT  | 10+00.00 | 723415.3325 | 1954993.7084 |
| PC   | 13+13.72 | 723170.3601 | 1955189.6968 |
| PT   | 22+12.75 | 723128.4488 | 1955984.7717 |
| PC   | 23+72.75 | 723242.1840 | 1956097.3075 |
| PT   | 27+78.92 | 723454.5657 | 1956439.1532 |
| POT  | 29+00.00 | 723492.7844 | 1956554.0433 |

| DRW1 |          |             |              |
|------|----------|-------------|--------------|
| TYPE | STATION  | NORTH       | EAST         |
| POT  | 10+00.00 | 723086.5408 | 1955938.1154 |
| PC   | 10+34.50 | 723113.5174 | 1955916.6124 |
| PRC  | 11+78.74 | 723241.7439 | 1955933.1620 |
| PT   | 13+23.16 | 723370.1114 | 1955949.5989 |
| POT  | 13+50.00 | 723391.0698 | 1955932.8242 |

## 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 INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.


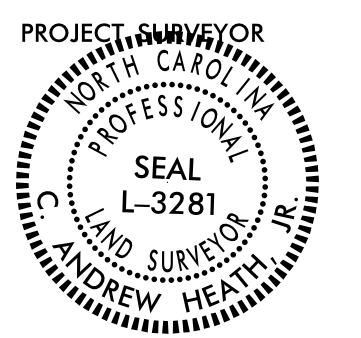
6/2/09

REVISIONS

O:\FEB-2024\_0854\0334\713324-2024014.02\SUR\Right of Way sheets\5963d.1s\_r\w02d-1.dgn  
 C:\Users\andrew.heath\Documents\2023\AT\_NCCAR-CRANSI00



# RIGHT OF WAY CONTROL SHEET

|  |                      |
|--|----------------------|
| PROJECT REFERENCE NO.<br>R-5963D   | SHEET NO.<br>RW03E-1 |
| <b>Location and Surveys</b>  |                      |
| <br><small>NV5 ENGINEERS &amp; CONSULTANTS, INC.<br/>6750 TRYON ROAD<br/>DARTMOUTH, NC 27716<br/>P: 919.851.1912 www.nv5.com<br/>NC License # P-1233<br/>Formerly C&amp;A Engineers &amp; Consultants</small> |                      |
|   |                      |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>   |                      |

REVISIONS

ROW MARKER IRON PIN AND CAP-E

| ALIGN | STATION   | OFFSET | NORTH       | EAST         |
|-------|-----------|--------|-------------|--------------|
| L     | 241+45.16 | -60.00 | 722559.9105 | 1956440.1734 |
| L     | 243+10.00 | 57.00  | 722672.5212 | 1956607.6108 |
| L     | 244+10.00 | 57.00  | 722773.0759 | 1956634.8076 |
| L     | 244+45.00 | -60.00 | 722832.1393 | 1956527.9410 |
| L     | 244+60.00 | -87.00 | 722851.3181 | 1956504.2242 |
| L     | 245+40.00 | -87.00 | 722925.2189 | 1956516.2419 |
| L     | 245+50.00 | -72.00 | 722932.6407 | 1956532.3218 |
| L     | 248+40.00 | -72.00 | 723206.7241 | 1956537.2078 |
| L     | 249+45.00 | -60.00 | 723307.3178 | 1956536.4118 |
| L     | 250+49.83 | -60.00 | 723405.4071 | 1956516.0643 |

ROW MARKER PERMANENT EASEMENT-E

| ALIGN | STATION  | OFFSET  | NORTH       | EAST         |
|-------|----------|---------|-------------|--------------|
| Y2    | 11+35.00 | -30.00  | 723328.6588 | 1955101.4706 |
| Y2    | 11+35.00 | -38.00  | 723333.6566 | 1955107.7174 |
| Y2    | 13+26.00 | -46.00  | 723190.4202 | 1955232.7233 |
| Y2    | 13+90.00 | -76.00  | 723169.8635 | 1955293.4063 |
| Y2    | 15+55.00 | -130.00 | 723139.2963 | 1955433.0155 |
| Y2    | 17+05.00 | -145.00 | 723120.4092 | 1955543.3372 |
| Y2    | 17+25.00 | 38.00   | 722936.7463 | 1955535.0391 |
| Y2    | 17+33.66 | 152.60  | 722821.7393 | 1955531.8861 |
| Y2    | 17+67.00 | -115.00 | 723085.7681 | 1955586.8346 |
| Y2    | 17+67.00 | -42.00  | 723012.8440 | 1955583.5065 |
| Y2    | 19+00.00 | -80.00  | 723059.7200 | 1955697.6304 |
| Y2    | 19+45.00 | -42.00  | 723032.6051 | 1955745.5186 |
| Y2    | 21+45.00 | 47.00   | 723046.4167 | 1955963.1405 |
| Y2    | 21+45.00 | 38.00   | 723053.5067 | 1955957.5969 |
| Y2    | 21+64.00 | -95.00  | 723168.1168 | 1955887.8021 |
| Y2    | 21+80.00 | -106.00 | 723184.9315 | 1955890.4069 |
| Y2    | 22+44.00 | -42.00  | 723180.2029 | 1955976.8955 |
| Y2    | 23+72.75 | 46.00   | 723209.8296 | 1956130.0060 |
| Y2    | 24+85.00 | 105.00  | 723233.7476 | 1956245.6610 |
| Y2    | 24+85.00 | 50.00   | 723277.1657 | 1956211.8991 |
| Y2    | 24+85.00 | 60.00   | 723269.2715 | 1956218.0376 |
| Y2    | 26+25.00 | 56.00   | 723344.1079 | 1956324.9857 |
| Y2    | 27+00.00 | 110.00  | 723325.4968 | 1956409.5941 |
| Y2    | 27+43.00 | -42.00  | 723481.7915 | 1956390.4146 |
| Y2    | 27+67.00 | -75.00  | 723521.5582 | 1956403.2170 |
| Y2    | 28+18.60 | 55.00   | 723414.9027 | 1956494.1660 |

ROW MARKER PERMANENT EASEMENT-E

| ALIGN | STATION   | OFFSET  | NORTH       | EAST         |
|-------|-----------|---------|-------------|--------------|
| L     | 241+40.00 | 132.00  | 722476.0957 | 1956612.9894 |
| L     | 241+40.00 | 57.00   | 722507.0722 | 1956544.6898 |
| L     | 243+00.00 | 100.00  | 722649.5352 | 1956645.4591 |
| L     | 250+27.15 | -86.63  | 723378.3459 | 1956495.1550 |
| L     | 252+80.04 | -124.98 | 723587.4607 | 1956385.7871 |

ROW MARKER IRON PIN AND CAP-E

| ALIGN | STATION  | OFFSET | NORTH       | EAST         |
|-------|----------|--------|-------------|--------------|
| Y2    | 11+80.00 | -30.00 | 723293.5205 | 1955129.5828 |
| Y2    | 13+13.72 | -36.30 | 723193.0406 | 1955218.0391 |
| Y2    | 14+08.49 | -39.80 | 723131.9700 | 1955281.3370 |
| Y2    | 15+48.23 | -42.00 | 723062.5133 | 1955389.6537 |
| Y2    | 16+99.26 | 38.00  | 722940.8274 | 1955507.7693 |
| Y2    | 22+12.75 | 38.00  | 723101.7215 | 1956011.7838 |
| Y2    | 22+12.75 | -42.00 | 723157.9894 | 1955954.9162 |
| Y2    | 23+72.75 | 38.00  | 723215.4568 | 1956124.3196 |
| Y2    | 23+72.75 | -42.00 | 723271.7246 | 1956067.4520 |
| Y2    | 24+70.00 | 50.00  | 723268.3939 | 1956200.8180 |
| Y2    | 27+78.92 | 50.00  | 723407.1219 | 1956454.9356 |
| Y2    | 27+78.92 | -42.00 | 723494.4185 | 1956425.8960 |
| Y2    | 28+02.68 | -42.00 | 723501.9197 | 1956448.4453 |
| Y2    | 28+13.02 | 50.00  | 723417.8845 | 1956487.2894 |

I, C. Andrew Heath, Jr., 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 01/30/2024 to 2/29/2024, 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 February, 2024.

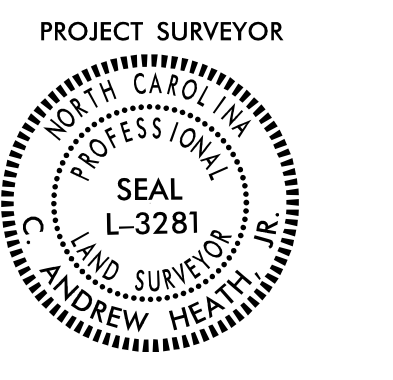
  
Professional Land Surveyor L-3281

**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 01/30/24 TO 2/29/2024 .



**Location and Surveys**



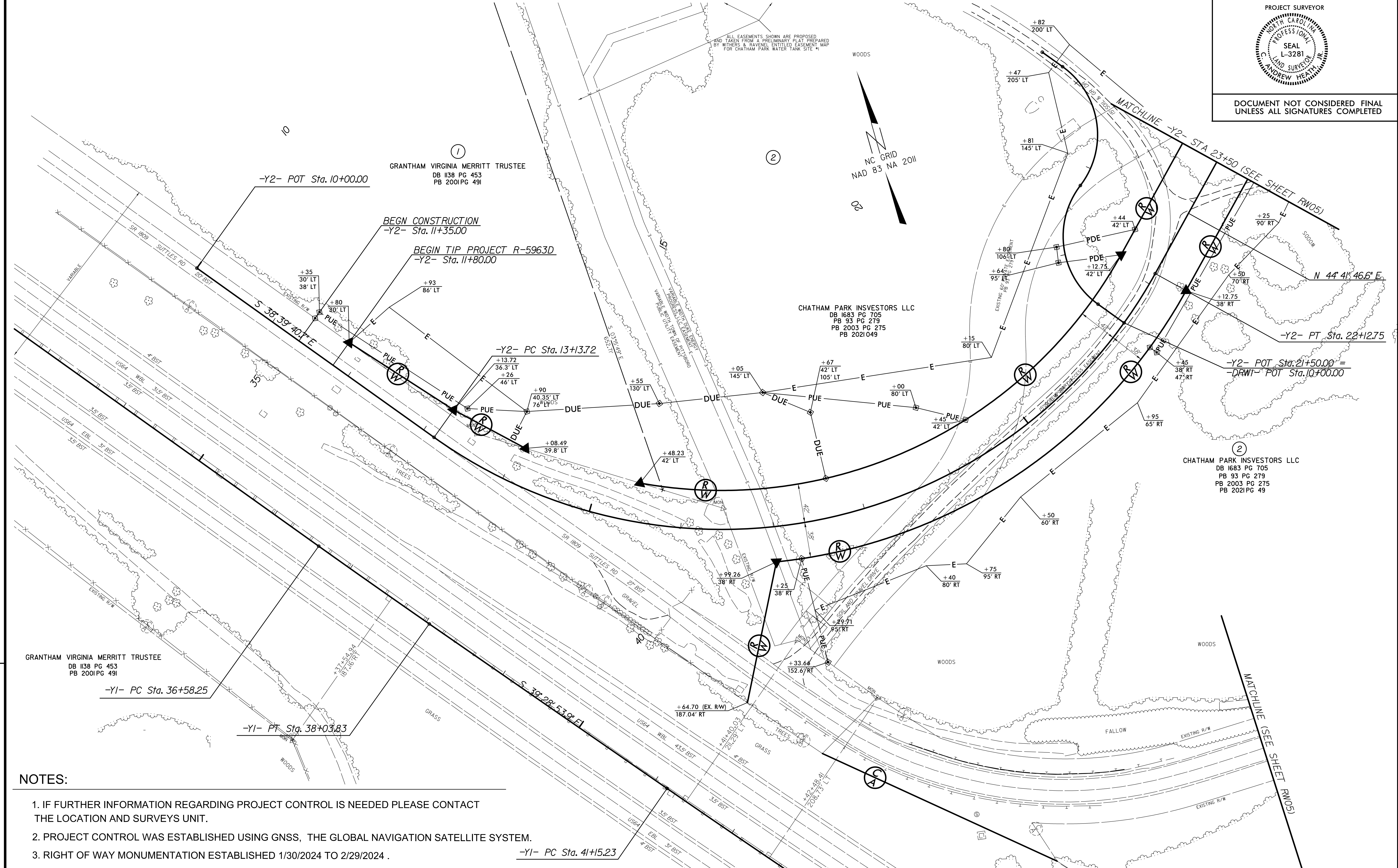
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

I, C. Andrew Heath, Jr. 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 01/30/2024 to 2/29/2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 28th day of February, 2024.

C. Andrew Heath, Jr.  
Professional Land Surveyor L-3281

| -Y1- US 64                          | -Y2- SUTTLES ROAD                    | -DRWI-                               |
|-------------------------------------|--------------------------------------|--------------------------------------|
| PI Sta 37+31.04                     | PI Sta 19+12.40                      | PI Sta 11+27.41                      |
| $\Delta = 0^{\circ} 50' 02.8" (LT)$ | $\Delta = 96^{\circ} 38' 32.8" (LT)$ | $\Delta = 91^{\circ} 49' 29.9" (RT)$ |
| $D = 0^{\circ} 34' 22.6"$           | $D = 10^{\circ} 44' 58.8"$           | $D = 63^{\circ} 39' 43.1"$           |
| $L = 145.58'$                       | $L = 899.03'$                        | $L = 144.24'$                        |
| $T = 72.79'$                        | $T = 598.67'$                        | $T = 92.91'$                         |
| $R = 10,000.00'$                    | $R = 533.00'$                        | $R = 90.00'$                         |
| $SE = EXIST$                        | $SE = 04$                            | $SE = N/A$                           |
| $RO = EXIST$                        | $RO = 120'$                          | $RO = N/A$                           |



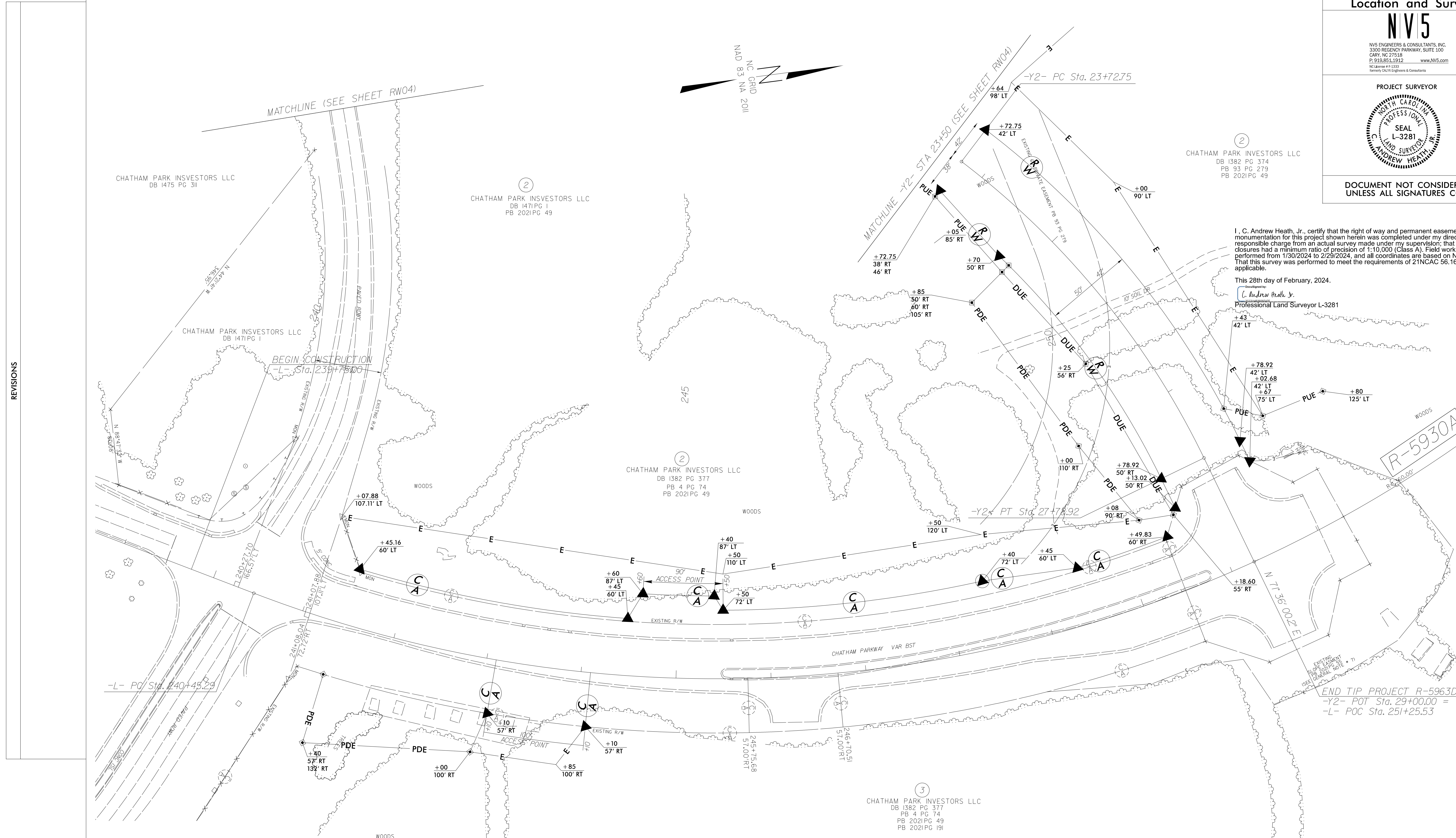
REVISIONS

**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 1/30/2024 TO 2/29/2024 .

-Y1- PC Sta. 41+15.23





I. C. Andrew Heath, Jr., 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 1/30/2024 to 2/29/2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 28th day of February, 2024.  
 I, Andrew Heath, Jr.,  
 Professional Land Surveyor L-3281

REVISIONS

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| -Y2- SUTTLES ROAD                     | -L- CHATHAM PARK WAY                  |
| PI Sta 25+79.65                       | PI Sta 248+38.68                      |
| $\Delta = 26^{\circ} 54' 13.7''$ (RT) | $\Delta = 60^{\circ} 30' 59.0''$ (LT) |
| D = 6' 37" 25.6"                      | D = 4' 12" 46.5"                      |
| L = 406.17'                           | L = 1,436.45'                         |
| T = 206.90'                           | T = 793.39'                           |
| R = 865.00'                           | R = 1,360.00'                         |
| SE = 04                               | SE = EXIST                            |
| RO = 120'                             | RO = N/A                              |

③  
 CHATHAM PARK INVESTORS LLC  
 DB 1382 PG 377  
 PB 4 PG 74  
 PB 2021PG 49  
 PB 2021PG 191

**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 1/30/2024 TO 2/29/2024 .

END TIP PROJECT R-5963D  
 -Y2- POT Sta. 29+00.00 =  
 -L- POC Sta. 251+25.53