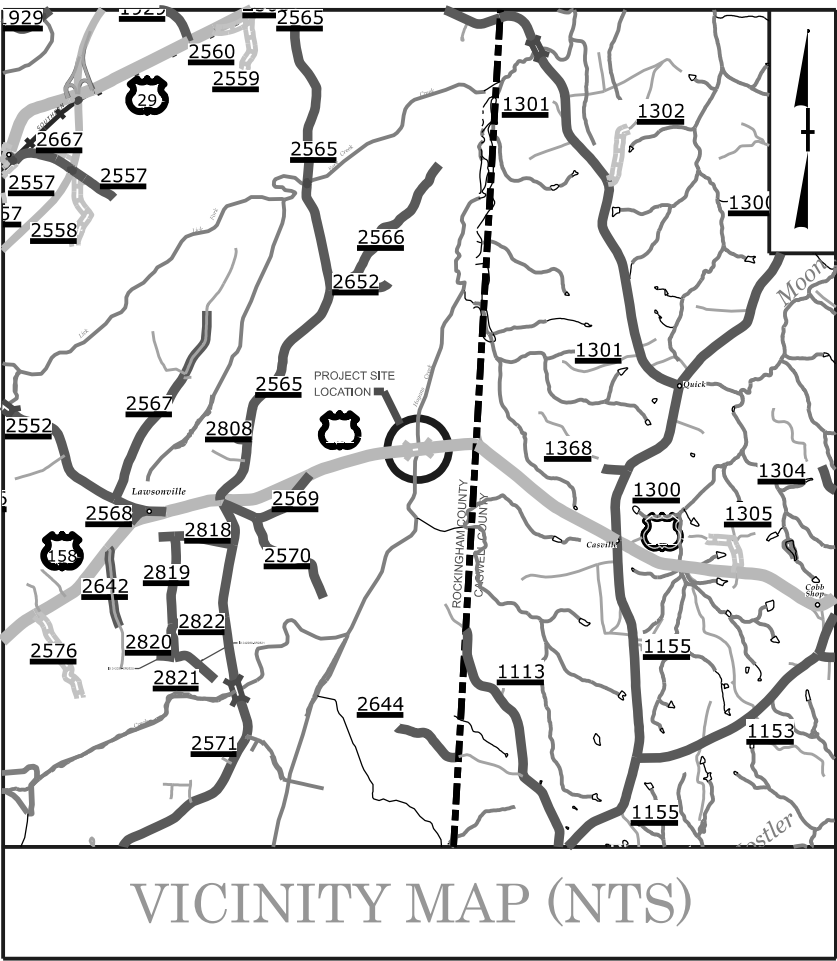


TIP PROJECT: BR-0155

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

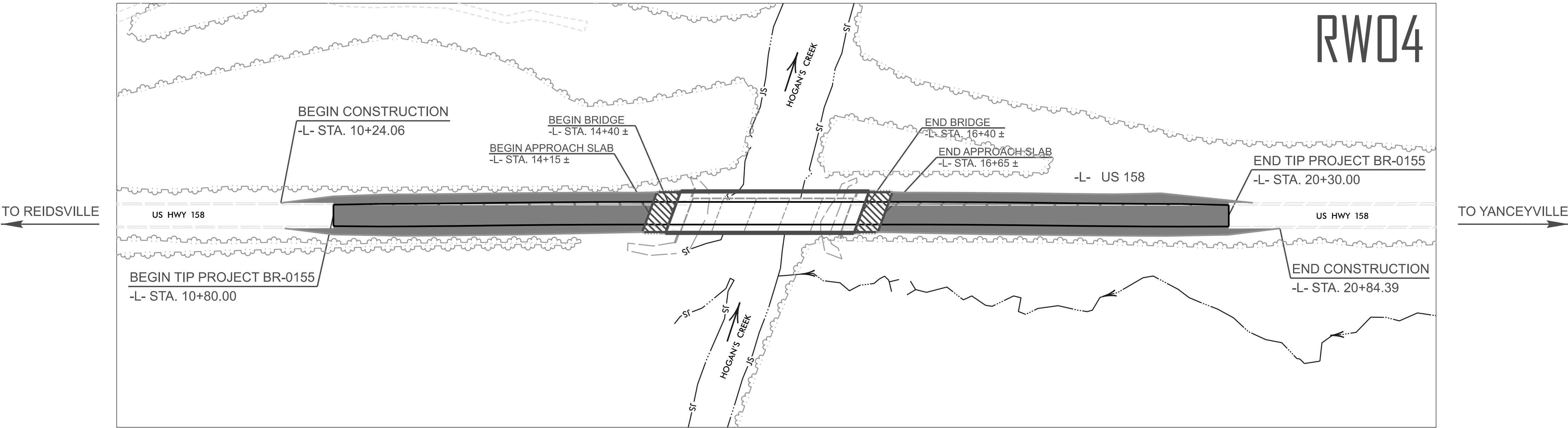
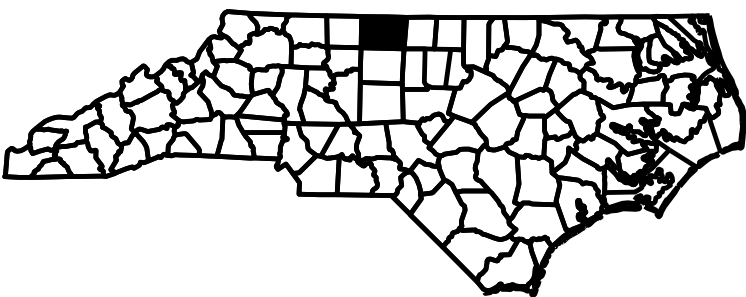
SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

ROCKINGHAM COUNTY



VICINITY MAP (NTS)

RIGHT OF WAY PLAN SET



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY
NCDOT FOR MONUMENT "NCGS DUMP"
WITH NAD 1983 (2011) STATE PLANE GRID COORDINATES OF
NORTHING: 964273.902 EASTING: 1842479.308
ELEVATION: 547.89

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 1.00005161
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:



Stantec

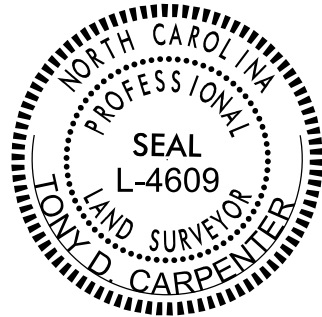
ONE WEST FOURTH ST., SUITE 820
WINSTON SALEM, N.C. 27101
LICENSE NO : F-0672
www.stantec.com

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MAY 1, 2024

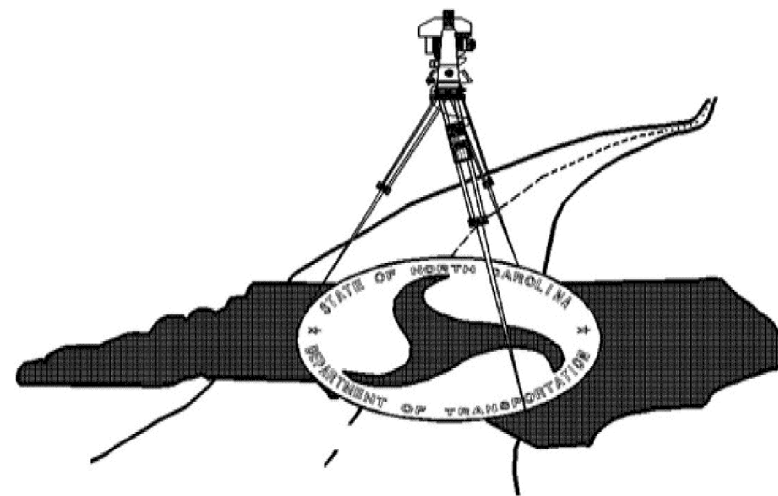
LETTING DATE:
DECEMBER 16, 2025

PROFESSIONAL LAND
SURVEYOR



Signed by:
Tony D. Carpenter
SIGNATURE:

9/3/2025
DATE:



I, Clinton B. Osborne, PLS, CERTIFY THAT THE PRIMARY 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: OPUS
DATES OF SURVEY: 10/3/22 & 10/5/22
DATUM/EPOCH: NAD83 NA2011
PUBLISHED/FIXED-CONTROL USE: NA
LOCALIZED AROUND: NCGS "DUMP"/BL-2
NORTHING: 964273.902
EASTING: 1842479.308
COMBINED GRID FACTOR: 1.00005161
GEOID MODEL: GEOID 18
UNITS: US SURVEY FOOT

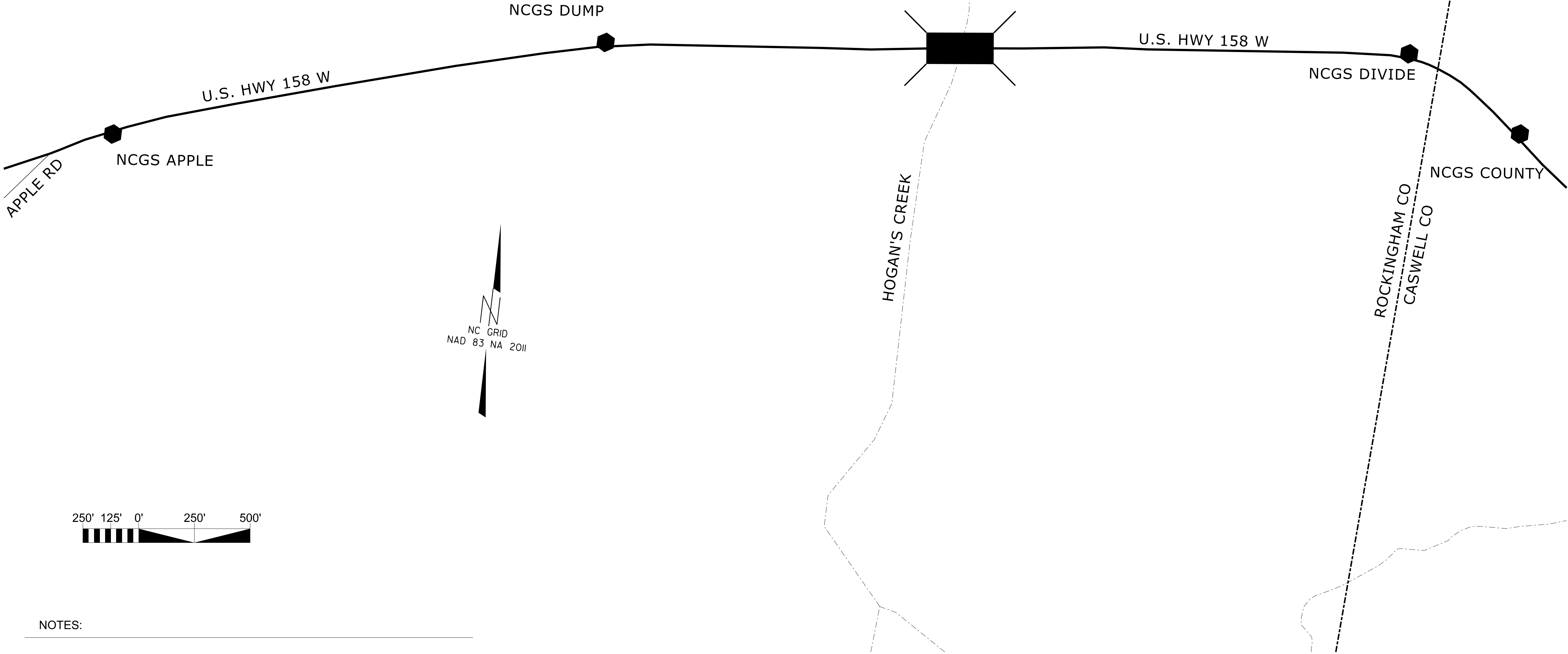
THIS 3rd DAY OF SEPTEMBER, 2025

DocuSigned by:
Clinton B. Osborne
0A5F6B085F6449B...

PROFESSIONAL LAND SURVEYOR L-3834

PRIMARY SURVEY CONTROL SHEET

Primary Control Table				
Benchmark	Description	Northing	Easting	Elevation
1	NCGS APPLE	963606.6357	1840332.5772	633.80
2	NCGS DUMP	964273.9020	1842479.3080	547.89
3	NCGS DIVIDE	964645.5480	1846064.3285	596.21
4	NCGS COUNTY	964346.5898	1846599.7100	609.88



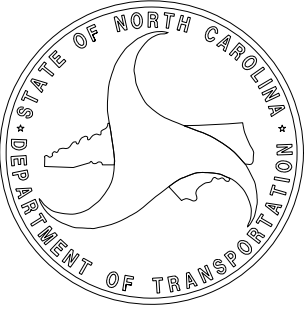
NOTES:

1. 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.

BR-0155

R/W 02C-1

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR

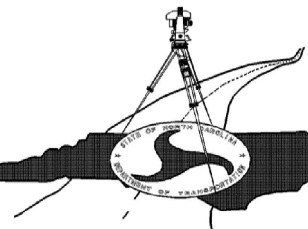


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ARE COMPLETED

2024 STANDARD
SPECIFICATIONS

TIP PROJECT: BR-0155
County: ROCKINGHAM

PREPARED FOR



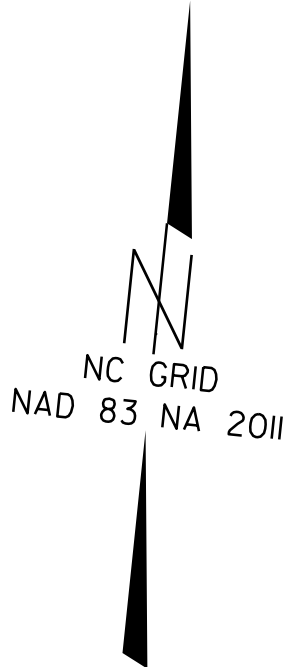
LOCATION AND
SURVEYS UNIT

PREPARED BY



SECONDARY SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



Baseline Points Table				
Benchmark	Description	Northing	Easting	Elevation
5	BL-5	963865.5921	1841027.6041	608.67
6	BL-6	964047.7291	1841794.5206	576.99
7	BL-7	964304.7166	1843112.4024	512.86
8	BL-8	964440.0011	1843965.7042	497.66
9	BL-9	964472.8094	1844620.7420	520.65
10	BL-10	964559.7205	1845448.5184	564.11

Benchmark Points Table				
Benchmark	Northing	Easting	Elevation	Description
BM1	964332.9479	1844308.6788	492.94	RAILROAD SPIKE IN 18" BEECH
BM2	964651.1604	1846208.8751	600.98	RAILROAD SPIKE IN 22" OAK

I, CLINTON B. OSBORNE, PLS, CERTIFY THAT THE SECONDARY BASELINE CONTROL FOR THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION UTILIZING PRIMARY GPS CONTROL SET BY OTHERS; THAT ALL HORIZONTAL CLOSURES HAD A MINIMUM RATIO OF PRECISION OF 1:20,000 (CLASS AA) AND VERTICAL ACCURACY TO 1:10,000 (CLASS A). FIELD WORK WAS PERFORMED FROM 10/5/22 TO 10/12/22 , AND ALL COORDINATES ARE BASED ON NAD 83/NA 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 3rd DAY OF SEPTEMBER, 2025.

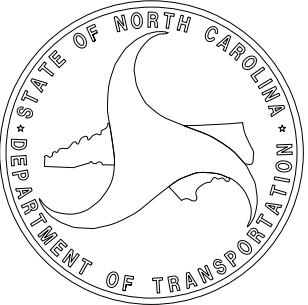
Signed by:
Clinton B. Osborne

PROFESSIONAL LAND SURVEYOR L-3834

BR-0155

R/W 02C-2

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

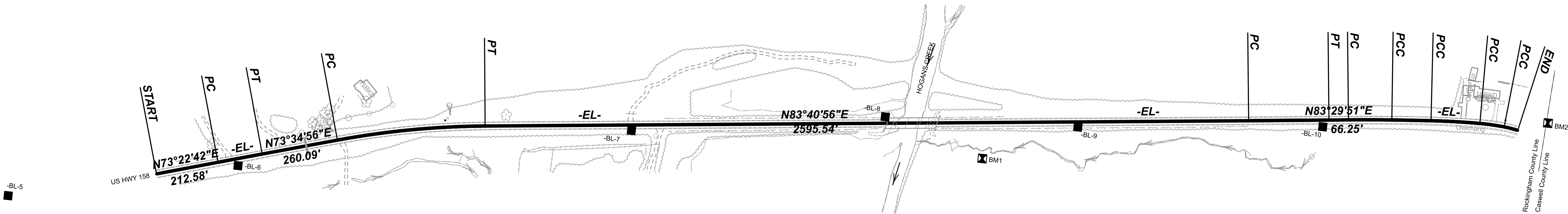


PROFESSIONAL LAND
SURVEYOR



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2024 STANDARD
SPECIFICATIONS



EXISTING ALIGNMENT NAME:EL									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	963991.2721	1841521.8789							
LINE			N73°22'42.4"E	212.5791					
PC	964052.0801	1841725.5754							
CURVE					00°12'13.8" Right	00°07'59.7"	152.9818	76.4910	43000.0000
PT	964095.5795	1841872.2424							
LINE			N73°34'56.3"E	260.0887					
PC	964169.0904	1842121.7264							
CURVE					10°06'00.0" Right	02°00'00.0"	505.0000	253.1559	2864.7890
PT	964268.4995	1842616.1787							
LINE			N83°40'56.3"E	2595.5398					
PC	964554.1166	1845195.9558							
CURVE					00°11'05.0" Right	00°04'03.6"	272.9940	136.4971	84680.0000
PT	964584.5946	1845467.2430							
LINE			N83°29'51.3"E	66.2517					
PC	964592.0973	1845533.0685							
CURVE					01°24'31.3" Right	00°57'17.7"	147.5192	73.7633	6000.0000
PCC	964606.9997	1845679.8293							
CURVE					00°32'43.2" Right	00°24'33.3"	133.2517	66.6263	14000.0000
PCC	964618.1986	1845812.6090							
CURVE					03°41'10.7" Right	02°12'59.3"	166.3144	83.1859	2585.0000
PCC	964626.0469	1845978.7095							
CURVE					05°58'39.7" Right	07°09'43.1"	83.4642	41.7700	800.0000
PCC	964622.9508	1846062.0784							
CURVE					06°50'24.7" Right	14°19'26.2"	47.7537	23.9052	400.0000

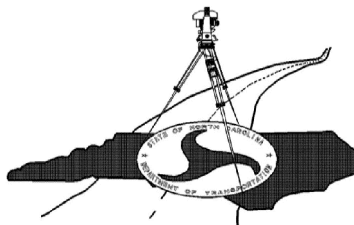
NOTES:

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TIP PROJECT: BR-0155
County: ROCKINGHAM

PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY



Stantec
ONE WEST FOURTH ST., SUITE 820
WINSTON SALEM, N.C. 27101
LICENSE NO.: F-0672
www.stantec.com

PROPOSED ALIGNMENT CONTROL SHEET

I, TONY D. CARPENTER, 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 3rd DAY OF SEPTEMBER, 2025

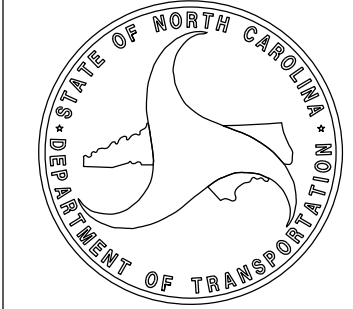
Signed by: Tony D. Carpenter

PROFESSIONAL LAND SURVEYOR L-4609

BR-0155

R/W02D-I

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR



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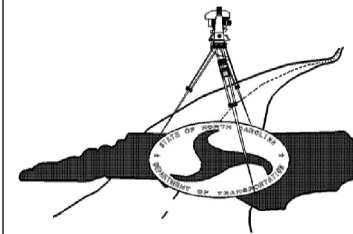
2024 STANDARD
SPECIFICATIONS

PROPOSED ALIGNMENT: L												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	964368.7806	1843521.9462	N83°40'56.3"E	88.8668							
PC	10+88.87	964378.5596	1843610.2734	N83°17'09.3"E	153.5822	00°47'34.0"	00°30'58.2"	153.5835	76.7930	11100.0000		
PRC	12+42.45	964396.5156	1843762.8023	N83°17'09.3"E	153.5822	00°47'34.0"	00°30'58.2"	153.5835	76.7930	11100.0000		
PT	13+96.03	964414.4717	1843915.3312	N83°40'56.3"E	290.4995							
PC	16+86.53	964446.4387	1844204.0666	N84°04'43.2"E	153.5822	00°47'34.0"	00°30'58.2"	153.5835	76.7930	11100.0000		
PRC	18+40.12	964462.2827	1844356.8294	N84°04'43.2"E	153.5822	00°47'34.0"	00°30'58.2"	153.5835	76.7930	11100.0000		
PT	19+93.70	964478.1266	1844509.5921	N83°40'56.3"E	120.5900							
END	21+14.29	964491.3965	1844629.4498									

TIP PROJECT: BR-0155

County: ROCKINGHAM

PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY



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LICENSE NO.: F-0672
www.stantec.com

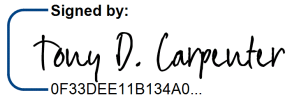
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RIGHT OF WAY CONTROL SHEET

I, TONY D. CARPENTER, PLS, 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 7/30/25 TO 8/20/25, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 3rd DAY OF SEPTEMBER, 2025.

Signed by:


PROFESSIONAL LAND SURVEYOR L-4609

PERMANENT EASEMENT MARKER IRON PIN AND CAP: L			
STATION	OFFSET	NORTH	EAST
10+24.06	-65.00	964436.0334	1843538.7074
10+24.06	-49.57	964420.6935	1843540.4058
10+28.21	66.00	964306.2862	1843557.2526
10+28.21	50.43	964321.7581	1843555.5396
14+30.00	-65.00	964482.8147	1843941.9386
14+75.00	-47.44	964470.3146	1843988.5975
14+80.00	66.00	964358.1123	1844006.0504
14+80.00	52.56	964371.4721	1844004.5712
15+85.00	52.56	964383.0264	1844108.9336
15+93.00	-47.44	964483.2995	1844105.8809
15+93.00	-61.00	964496.7757	1844104.3888
16+57.00	70.00	964373.6139	1844182.4156
16+86.53	-47.44	964493.5920	1844198.8460
16+86.53	-61.00	964507.0683	1844197.3540
18+40.00	70.00	964392.5967	1844363.4535
18+40.00	84.00	964378.6618	1844364.8015
20+45.00	81.00	964403.2637	1844569.4938
20+45.00	50.43	964433.6444	1844566.1303

- NOT SET

- NOT SET

- NOT SET

- NOT SET

- NOT SET

- NOT SET

- NOT SET

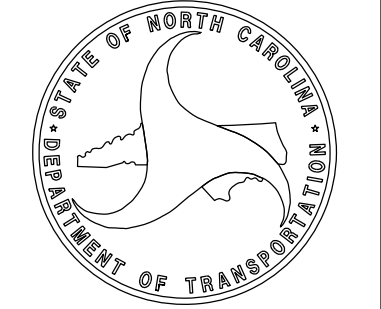
NOTES:

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BR-0155

R/W03E-I

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR

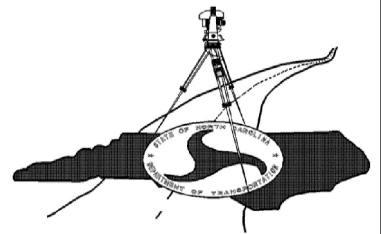


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2024 STANDARD
SPECIFICATIONS

TIP PROJECT: BR-0155
County: ROCKINGHAM

PREPARED FOR



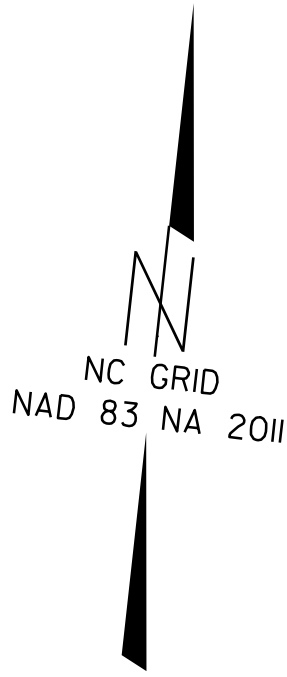
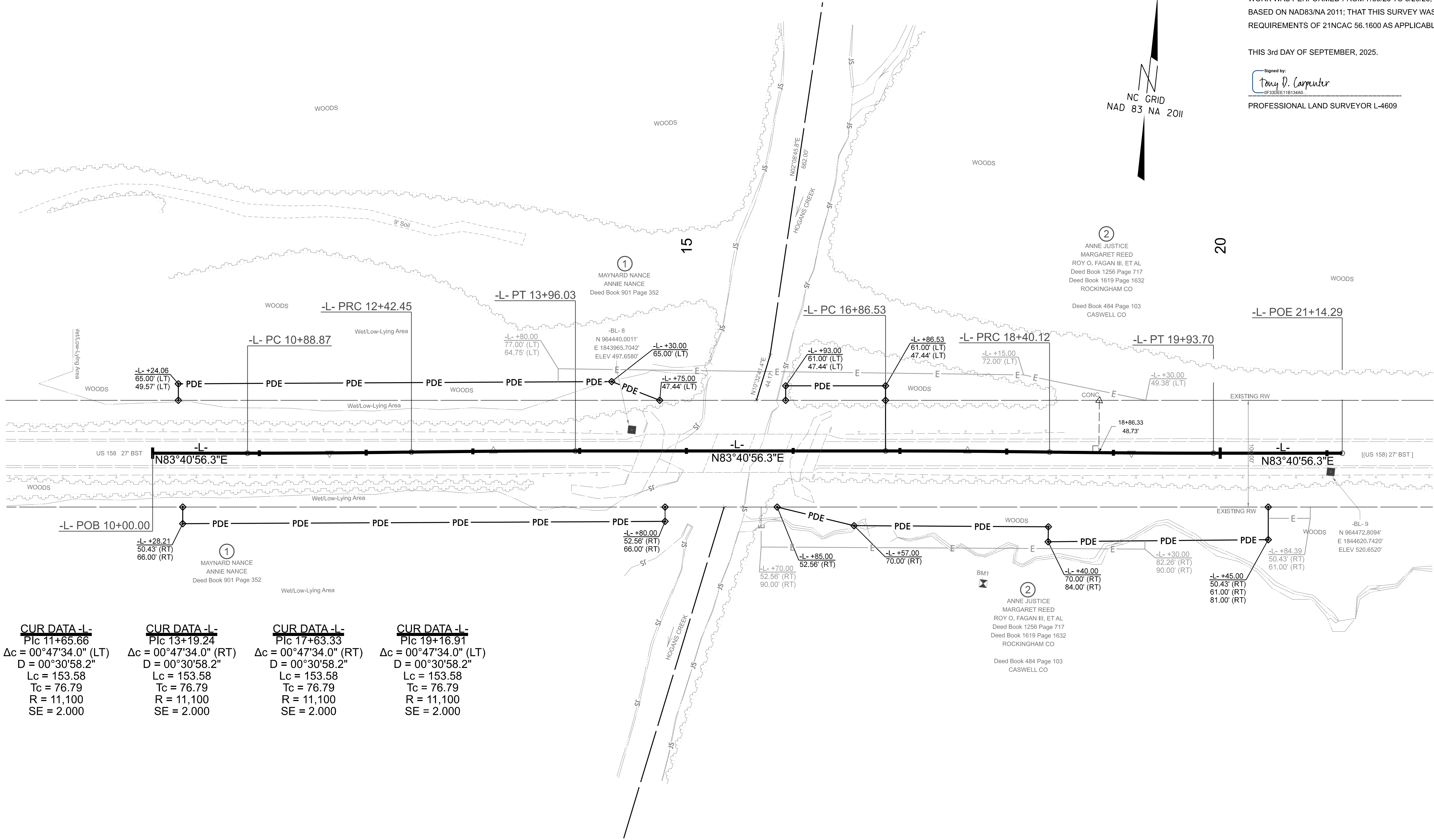
LOCATION AND
SURVEYS UNIT

PREPARED BY



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WINSTON SALEM, N.C. 27101
LICENSE NO.: F-0672
www.stantec.com



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THIS 3rd DAY OF SEPTEMBER, 2025.

Signed by:
Tony D. Carpenter
0F330EE11B13440

PROFESSIONAL LAND SURVEYOR L-4609

CUR DATA -L-
Plc 11+65.66
 $\Delta c = 00^\circ 47' 34.0''$ (LT)
 $D = 00^\circ 30' 58.2''$
 $Lc = 153.58$
 $Tc = 76.79$
 $R = 11,100$
 $SE = 2.000$

CUR DATA -L-
Plc 13+19.24
 $\Delta c = 00^\circ 47' 34.0''$ (RT)
 $D = 00^\circ 30' 58.2''$
 $Lc = 153.58$
 $Tc = 76.79$
 $R = 11,100$
 $SE = 2.000$

CUR DATA -L-
Plc 17+63.33
 $\Delta c = 00^\circ 47' 34.0''$ (RT)
 $D = 00^\circ 30' 58.2''$
 $Lc = 153.58$
 $Tc = 76.79$
 $R = 11,100$
 $SE = 2.000$

CUR DATA -L-
Plc 19+16.91
 $\Delta c = 00^\circ 47' 34.0''$ (LT)
 $D = 00^\circ 30' 58.2''$
 $Lc = 153.58$
 $Tc = 76.79$
 $R = 11,100$
 $SE = 2.000$



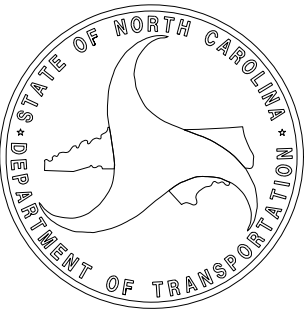
NOTES:

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BR-0155

R/W 04

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR

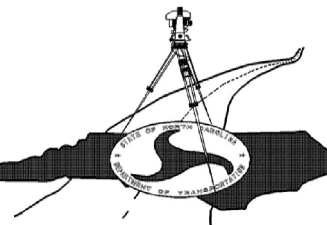


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2024 STANDARD
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TIP PROJECT: BR-0155
County: ROCKINGHAM

PREPARED FOR



LOCATION AND
SURVEYS UNIT

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