

09/06/2019

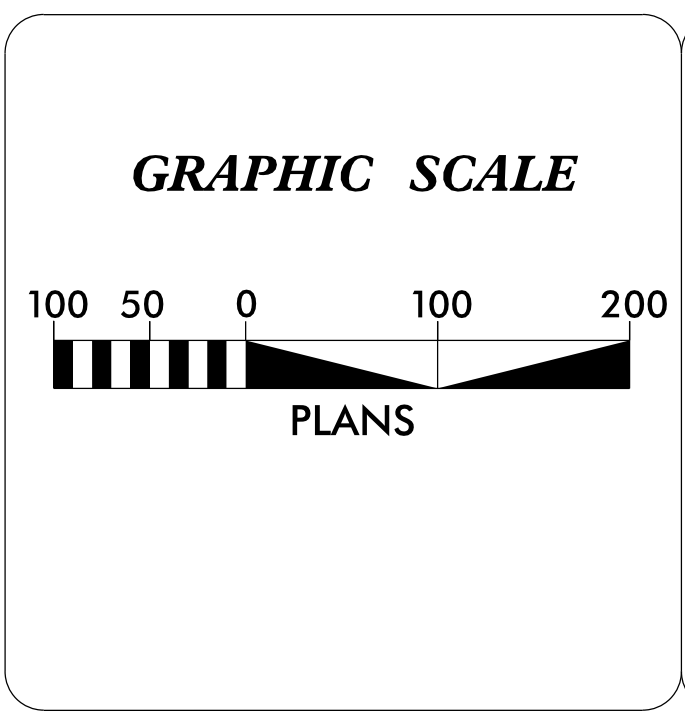
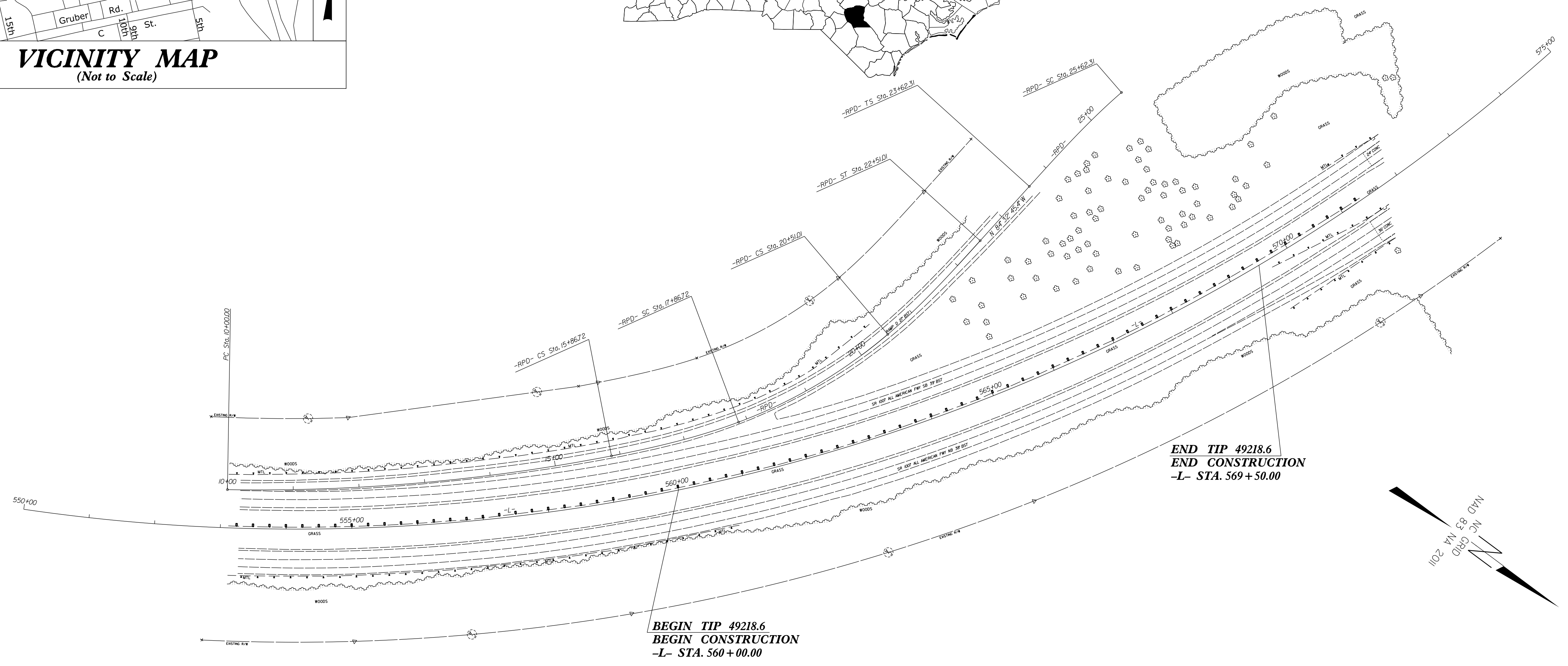
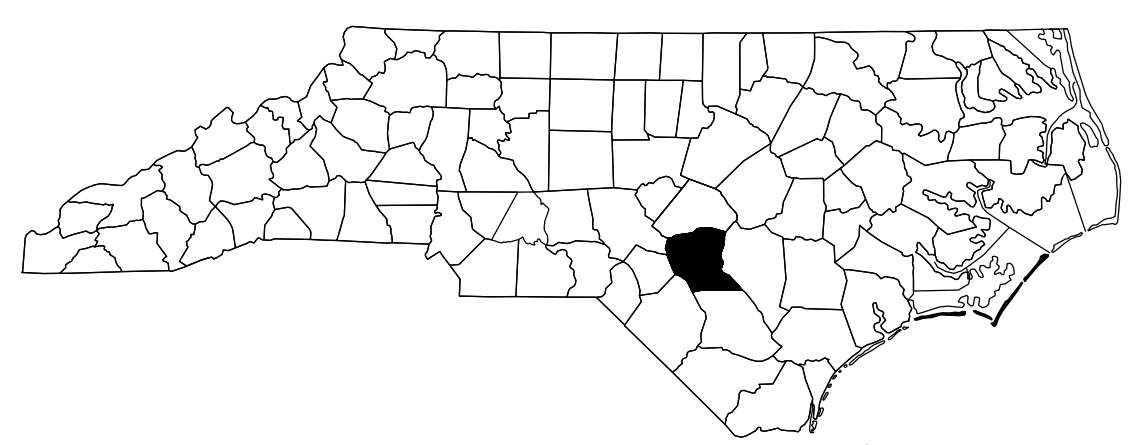
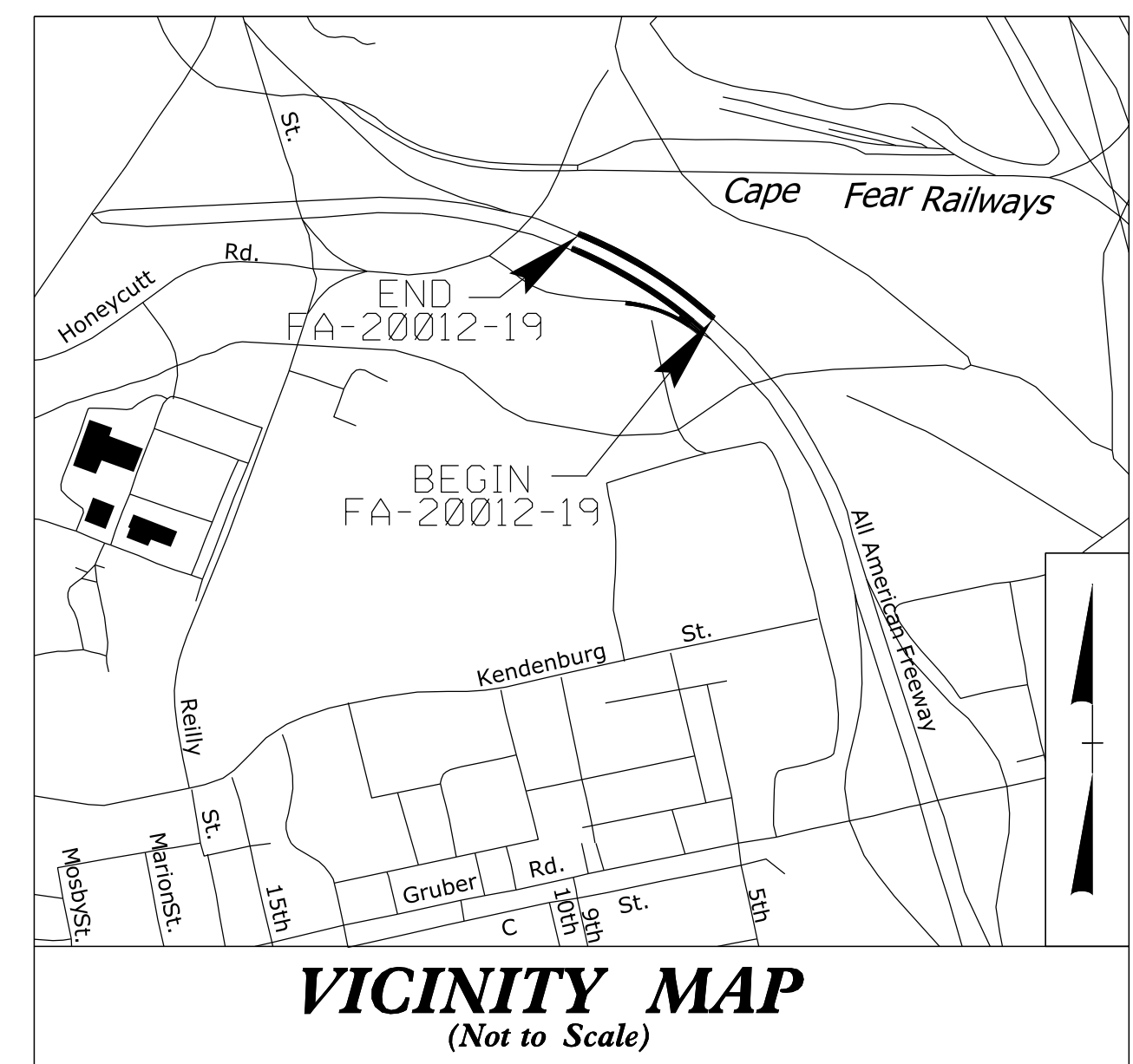
TIP PROJECT: FA-20012-19

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	FA-20012-19	RW01	6

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

CUMBERLAND COUNTY



DATUM DESCRIPTION

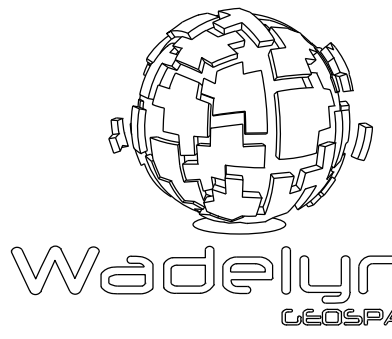
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT GPS-1 WITH NAD83/2011 STATE PLANE GRID COORDINATES OF NORTHING: 502750.86' EASTING: 2005174.19' ELEVATION: 226.99'

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GRID TO GROUND) IS: 1.0001308948

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES

VERTICAL DATUM USED IS NAVD 88


Prepared in the Office of:



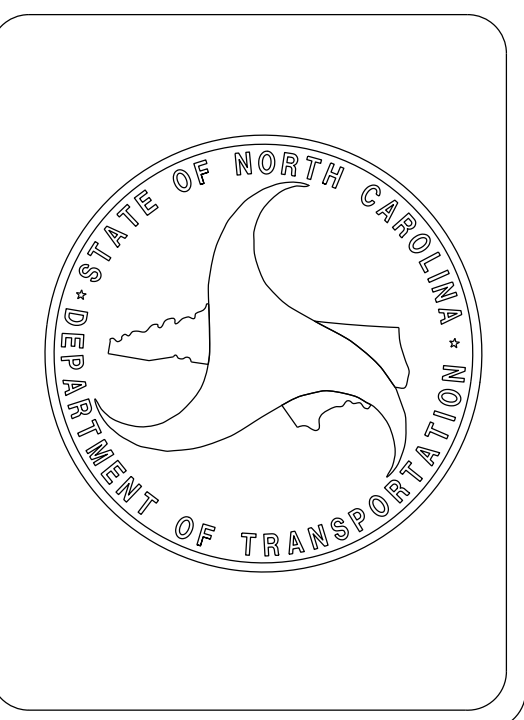
WADELYNN GEOSPATIAL, LLC.
2624 TIMBER DR., #219
GARNER, NC 27529
(910)210-9573

RIGHT OF WAY DATE: N/A	LETTING DATE: MAY 19, 2026
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PROFESSIONAL LAND SURVEYOR

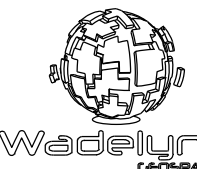



Signed by:
T. Kyle Tobin 03/04/2026
Date: _____
F68114DDEF8540A...

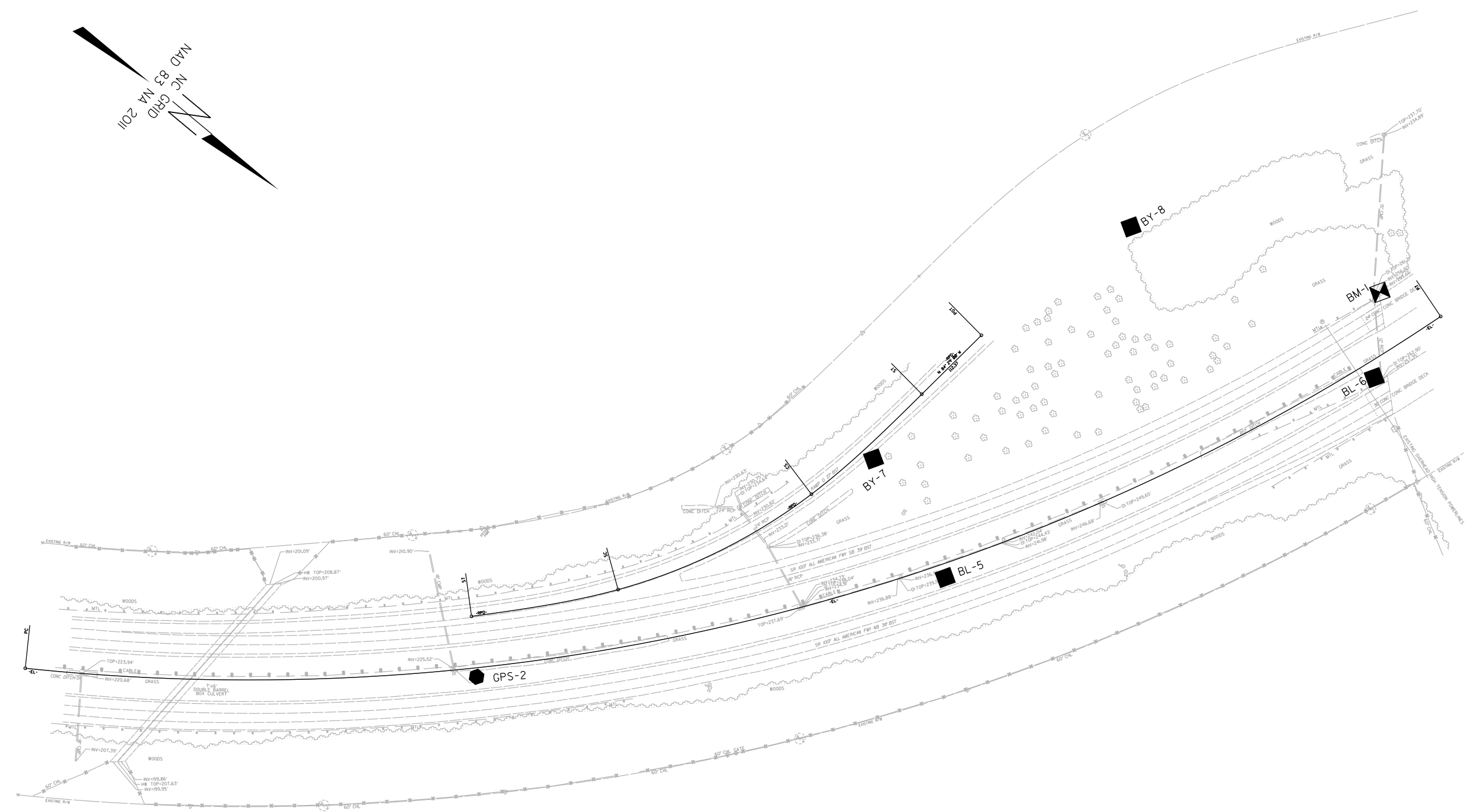


SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. FA-20012-19	SHEET NO. RW02C-1
Location and Surveys	
 WADELYNN GEOSPATIAL, LLC. 2024 TIMBER DR., #219 GARNER, NC 27529 (910) 210-9573	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	


REVISIONS



I, T. Kyle Tobin, 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: 2/10/2026
 Datum/Epoch: NAD83/2011
 Published/Fixed-control use: N/A
 Localized around: GPS-1
 Northing: 502750.86'
 Easting: 2005174.19'
 Combined grid factor: 1.0001308948 (Grid to Ground)
 Geoid model: GEOID18
 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 on 2/10/2026 - 2/26/2026, 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 4th day of March, 2026.
 Signed by:

 Professional Land Surveyor L-5657
 F88114DDEF8540A...





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. FA-20012-19	SHEET NO. RW02C-2
Location and Surveys	
 WADELYNN GEOSPATIAL, LLC. 2024 TIMBER DR., #219 GARNER, NC 27529 910210-9573	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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GPS	POINT	DESC.	NORTH	EAST	ELEVATION
	1	GPS-1	502750.8600	2005174.1900	226.99
	2	GPS-2	503536.4760	2004602.1980	232.21
	3	GPS-3	504274.6050	2003068.5000	267.24
	4	GPS-4	504296.6130	2002221.3100	266.29

 BM1 ELEVATION = 261.45
 N 504136.9860 E 2003430.1930
 ETCHED SE CORNER OF BRIDGE ABUTMENT(SBL)

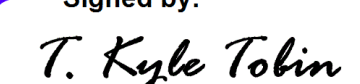
BL	POINT	DESC.	NORTH	EAST	ELEVATION
	5	BL-5	503933.9620	2004097.3890	245.30
	6	BL-6	504204.4570	2003522.8920	262.77
	7	BY-7	503758.3110	2004036.7460	241.03
	8	BY-8	503824.4150	2003576.4240	245.27

I, T. Kyle Tobin, 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: 2/10/2026
 Datum/Epoch: NAD83/2011
 Published/Fixed-control use: N/A
 Localized around: GPS-1
 Northing: 502750.86'
 Easting: 2005174.19'
 Combined grid factor: 1.0001308948 (Grid to Ground)
 Geoid model: GEOID18
 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 on 2/10/2026 - 2/26/2026, 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 4th day of March, 2026.

Signed by:

 Professional Land Surveyor L-5657
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EXISTING ALIGNMENT: EL

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	503064.0025	2004980.9520							
CURVE			N 33°48'19.1" W	0.3300	00°00'23.8"(LT)	02°00'00.0"	0.3300	0.1650	2864.7890
PCC	503064.2767	2004980.7684							
CURVE			N 53°46'14.7" W	1956.0713	39°55'27.3"(LT)	02°00'00.0"	1996.2122	1040.5536	2864.7890
PT	504220.3495	2003402.8867							



EXISTING ALIGNMENT: RPD

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
TS	503479.2990	2004544.2399											
SPIRAL			N 50°09'41.1" W	199.8477						07°30'00.1"(LT)	200.0000	133.4532	66.7757
SC	503607.3269	2004390.7863											
CURVE			N 66°04'21.3" W	289.1975	21°49'17.6"(LT)	07°30'00.1"	290.9528	147.2608	763.9400				
CS	503724.6193	2004126.4425											
SPIRAL			N 81°59'01.5" W	199.8477						07°30'00.1"(LT)	200.0000	133.4532	66.7757
ST	503752.4889	2003928.5475											
LINE			N 84°29'00.2" W	112.3742									
POT	503763.2919	2003816.6938											

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.

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
FA-20012-19	RW02D-1
Location and Surveys	
 WADELYNN GEOSPATIAL, LLC. 2624 TIMBER DR., #219 GARNER, NC 27529 (910)210-9573	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, T. Kyle Tobin, 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 4th day of March, 2026.

Signed by:

T. Kyle Tobin
 Professional Land Surveyor L-5657
 F88114DBE8540A...

PROPOSED ALIGNMENT: L

POINT	STATION	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
POT	500+00.00	498067.766	2006632.994											
LINE				N 16°58'12.0" W	4281.78									
TS	542+81.78	502163.105	2005383.267											
SPIRAL				N 17°58'11.9" W	299.96						03°00'00.0"(LT)	300.00	200.03	100.03
SC	545+81.78	502448.435	2005290.723											
CURVE				N 55°09'36.0" W	3301.90	70°22'48.0"(LT)	02°00'00.0"	3519.00	2020.14	2864.79				
CS	581+00.78	504334.765	2002580.689											
SPIRAL				S 87°38'59.9" W	299.96						03°00'00.0"(LT)	300.00	200.03	100.03
ST	584+00.78	504322.465	2002280.978											
LINE				S 86°39'00.0" W	2239.63									
POT	606+40.40	504191.592	2000045.178											

PROPOSED ALIGNMENT: RPD

POINT	STATION	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
PC	10+00.00	503060.106	2004911.136											
CURVE				N 41°40'29.7" W	585.65	12°00'21.5"(LT)	02°02'46.6"	586.72	294.44	2799.98				
CS	15+86.72	503497.542	2004521.738											
SPIRAL				N 51°32'30.0" W	199.76						09°32'46.6"(LT)	200.00	119.27	81.17
SC	17+86.72	503621.784	2004365.311											
CURVE				N 67°08'06.2" W	262.97	19°49'18.3"(LT)	07°30'00.0"	264.29	133.48	763.94				
CS	20+51.01	503723.965	2004123.001											
SPIRAL				N 82°02'46.7" W	199.85						07°30'00.0"(LT)	200.00	133.45	66.78
ST	22+51.01	503751.619	2003925.075											
LINE				N 84°32'45.4" W	111.30									
TS	23+62.31	503762.197	2003814.279											
SPIRAL				N 82°12'46.4" W	199.87						07°00'00.0"(RT)	200.00	133.44	66.76
SC	25+62.31	503789.278	2003616.255											
CURVE				N 70°02'07.0" W	213.98	15°01'16.7"(RT)	07°00'00.0"	214.59	107.91	818.51				
CS	27+76.90	503862.338	2003415.138											
SPIRAL				N 57°51'27.6" W	199.87						07°00'00.0"(RT)	200.00	133.44	66.76
ST	29+76.90	503968.672	2003245.905											
LINE				N 55°31'28.7" W	98.03									
POT	30+74.93	504024.165	2003165.088											


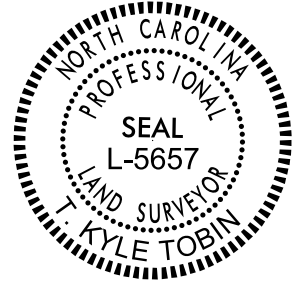
NOTES:

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.

6/2/19

REVISIONS

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
FA-20012-19	RW02E-1
Location and Surveys	
 WADELYNN GEOSPATIAL, LLC. 2624 TIMBER DR., #219 GARNER, NC 27529 (910)210-9573	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NO ACQUISITION

NOTES:

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

-L- CURVE DATA
PI Sta 566+01.91
$\Delta = 70^{\circ} 22' 48.0''$ (LT)
$D = 2^{\circ} 00' 00.0''$
$L = 3,519.00'$
$T = 2,020.14'$
$R = 2,864.79'$

-RPD- CURVE DATA			
PIs Sta 17+05.99	PI Sta 19+20.20	PIs Sta 21+17.78	PI Sta 12+94.44
$\Theta_s = 2^{\circ} 02' 34.4''$	$\Delta = 19^{\circ} 49' 18.3''$ (LT)	$\Theta_s = 7^{\circ} 30' 00.0''$	$\Delta = 12^{\circ} 00' 21.5''$ (LT)
$\Theta_s = 7^{\circ} 30' 12.2''$	$D = 7^{\circ} 30' 00.0''$	$L_s = 200.00'$	$D = 2^{\circ} 02' 46.6''$
$L_s = 200.00'$	$L = 264.29'$	$L = 133.45'$	$L = 586.72'$
$LT = 119.27'$	$T = 133.48'$	$ST = 66.78'$	$T = 294.44'$
$ST = 81.17'$	$R = 763.94'$		$R = 2,799.98'$

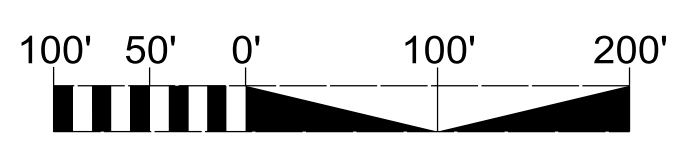
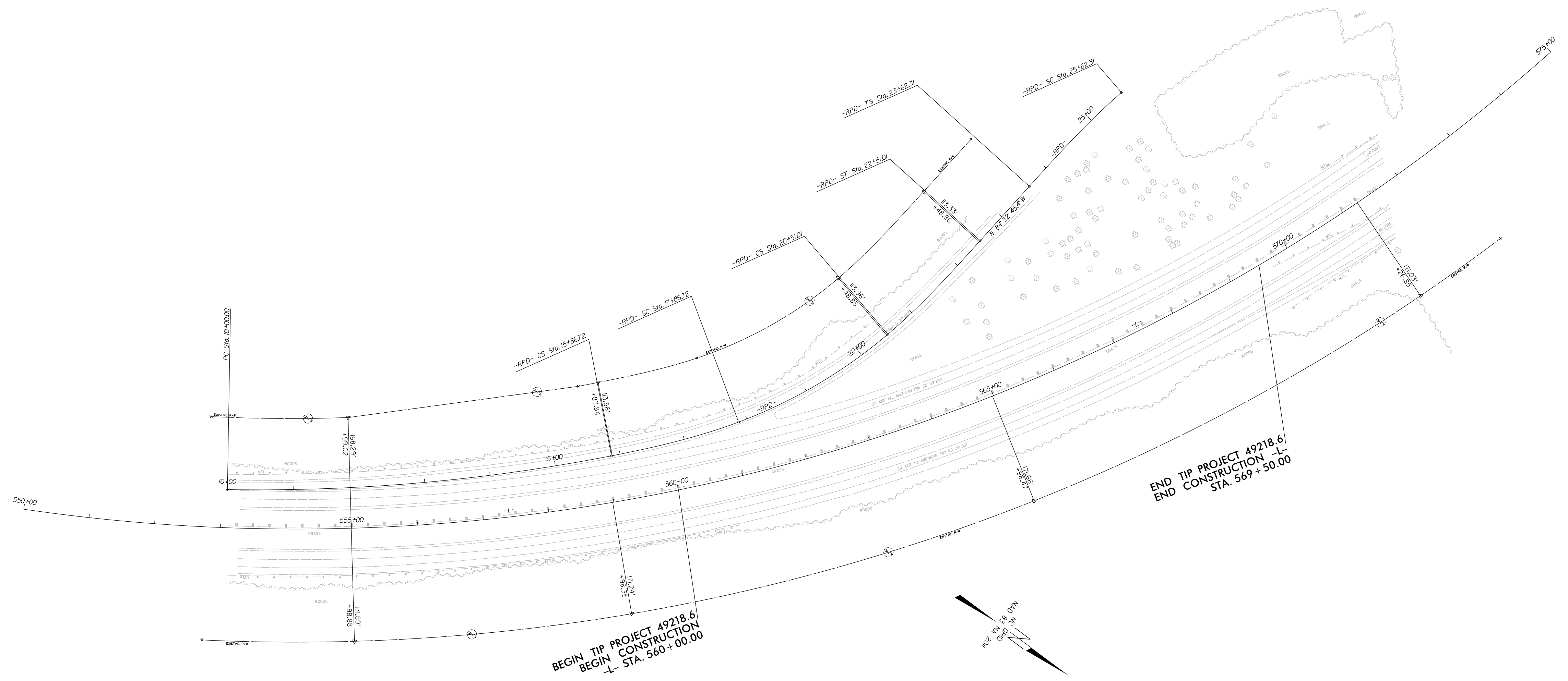
I, T. Kyle Tobin, PLS, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 2/10/2026 to 2/26/2026, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 4th day of March, 2026.

Signed by:

 T. Kyle Tobin
 Professional Land Surveyor L-5657
 F68114DDEF8540A...

REVISIONS



NOTES:

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