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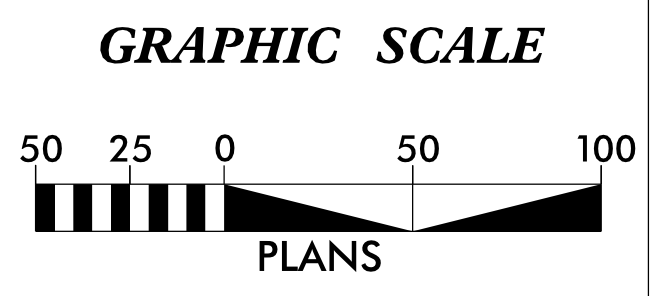
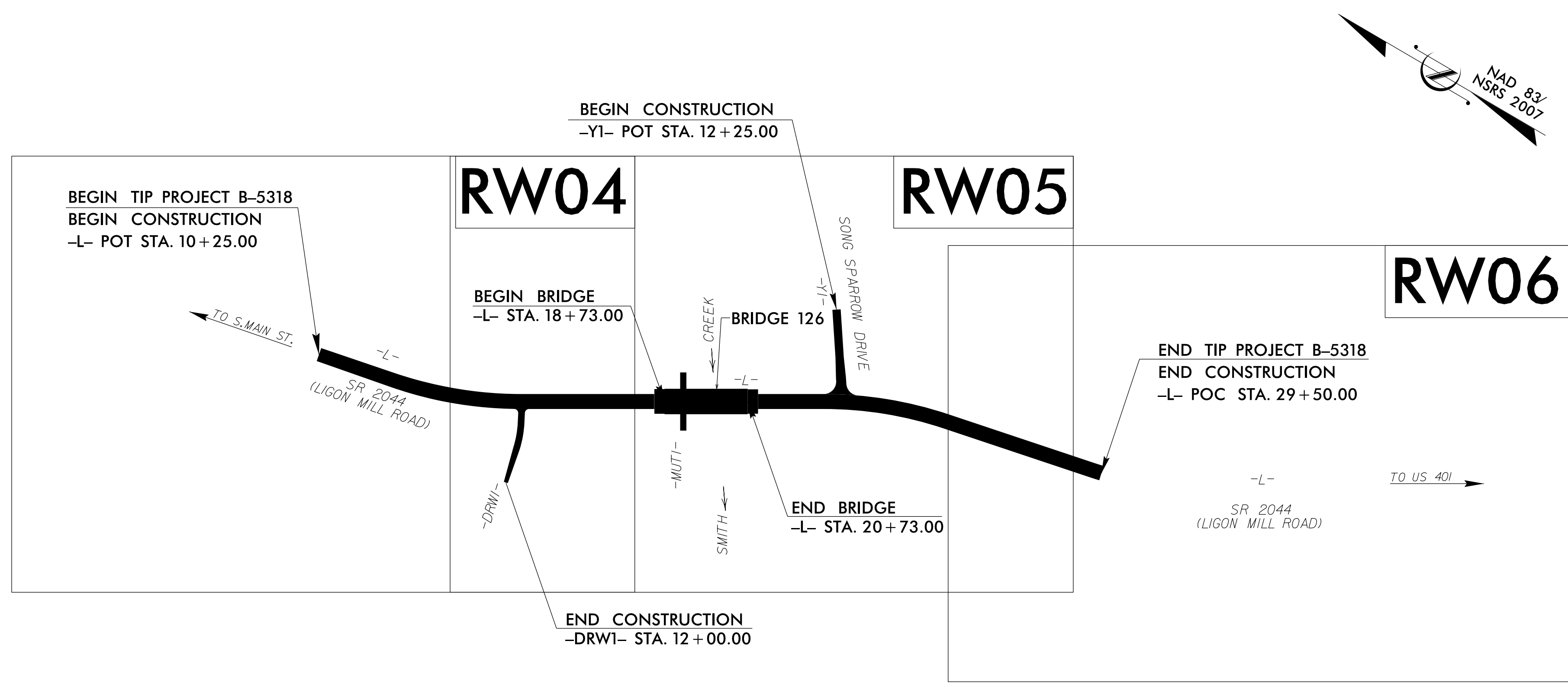
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5318	RW01	

TIP PROJECT: B-5318

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

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

WAKE COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B-5318-1" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 794,379.776(ft) EASTING: 2,139,517.414(ft) ELEVATION: 244.537(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99993371

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B-5318-1" TO -L- STATION 10+25.00 IS S 27-50'07.0" W 75.56(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

WETHERILL ENGINEERING

1223 Jones Franklin Rd.
 Raleigh, N.C. 27606
 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
 JUNE 21, 2019

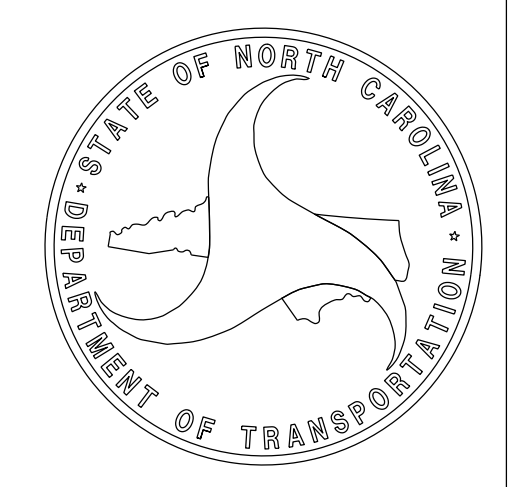
LETTING DATE:
 NOVEMBER 16, 2021

PROFESSIONAL LAND SURVEYOR

DocuSigned by:
 Anthony K. Alford
 22BA982F5B44E

4/9/2021

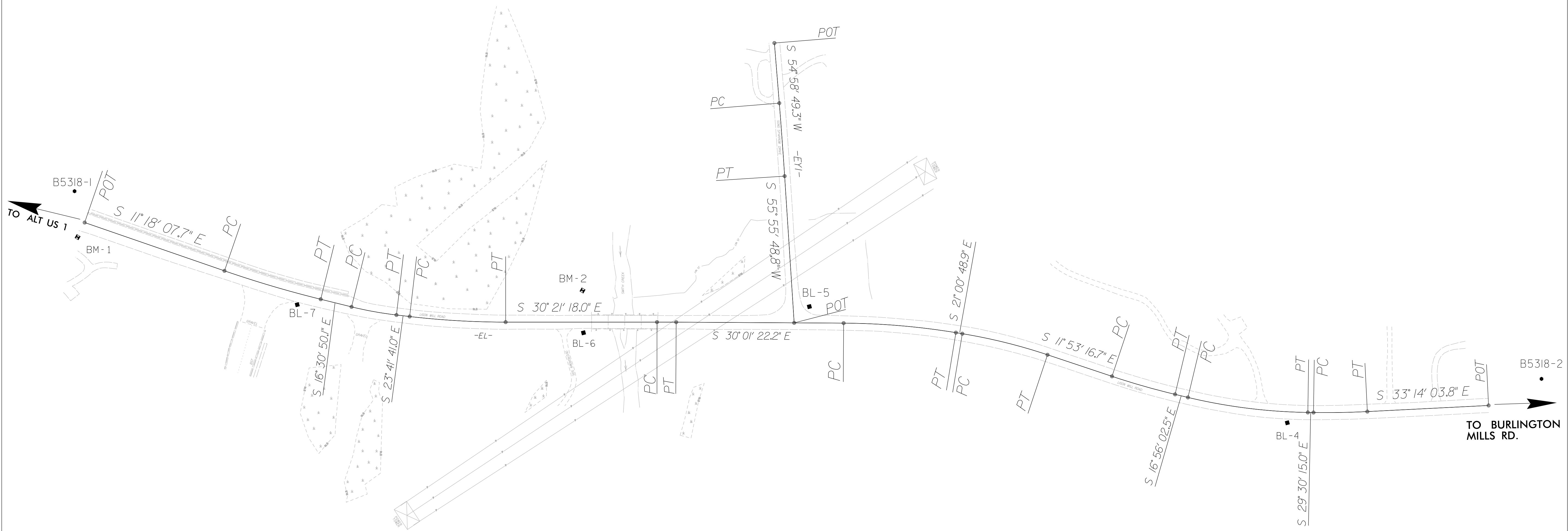
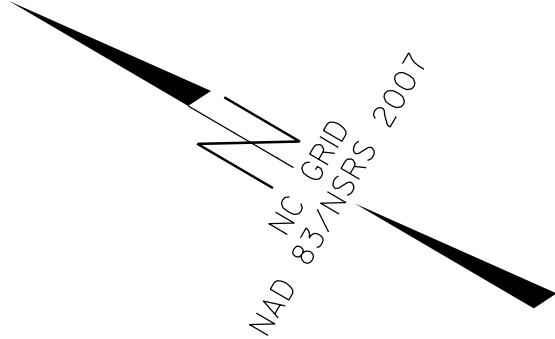
SIGNATURE: _____ Date: _____



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

SURVEY CONTROL SHEET B-5318

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



REVISIONS

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCCDOT FOR MONUMENT "B5318-1"

WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
 NORTHING: 794379.776(ft) EASTING: 2139517.414(ft)
 ELEVATION: 244.537(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99993371

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B5318-1" TO -L- STATION 10+00 IS
 S 41° 48' 00.31" W 59.66

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

NOTE: DRAWING NOT TO SCALE

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 B-5318

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		B5318-1	794379.7760	2139517.4140	244.54
7		BL -7	793927.6320	2139543.9260	212.40
6		BL -6	793454.3110	2139762.1060	206.28
5		BL -5	793125.0270	2140009.9120	213.18
4		BL -4	792271.2510	2140266.0210	248.12

 BM-1 ELEVATION = 240.99
 N 794333 E 2139448
 BL STATION 5+43.00 72 RIGHT
 R/R SPIKE IN 15° GUM

 BM-2 ELEVATION = 201.04
 N 793495 E 2139827
 BL STATION 14+65.00 76 LEFT
 R/R SPIKE IN 11° GUM

EL	POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT		794335.298	2139477.668							
LINE				S 11°18'07.7" E	268.07					
PC		794072.429	2139530.205							
CURVE				S 13°54'28.9" E	181.86	05°12'42.5"(LT)	02°51'53.2"	181.93	91.03	2000.00
PT		793895.897	2139573.918							
LINE				S 16°30'50.1" E	57.56					
PC		793840.708	2139590.281							
CURVE				S 20°06'15.6" E	82.66	07°10'50.9"(LT)	08°40'52.2"	82.72	41.41	660.00
PT		793763.082	2139618.695							
LINE				S 23°41'41.0" E	24.07					
PC		793741.040	2139628.368							
CURVE				S 27°01'29.5" E	174.27	06°39'37.0"(LT)	03°49'11.0"	174.37	87.28	1500.00
PT		793505.801	2139707.551							
LINE				S 30°21'18.0" E	274.29					
PC		793349.115	2139846.164							
CURVE				S 30°11'20.1" E	34.78	00°19'55.8"(RT)	00°57'17.7"	34.78	17.39	6000.00
PT		793319.048	2139863.656							
LINE				S 30°01'22.2" E	303.43					
PC		793056.331	2140015.475							
CURVE				S 25°31'05.5" E	204.20	09°00'33.4"(RT)	04°24'26.5"	204.41	102.42	1300.00
PT		792872.048	2140103.445							
LINE				S 21°00'48.9" E	11.76					
PC		792861.066	2140107.664							
CURVE				S 16°27'02.8" E	159.10	09°07'32.1"(RT)	05°43'46.5"	159.27	79.80	1000.00
PT		792708.476	2140152.721							
LINE				S 11°53'16.7" E	123.18					
PC		792587.938	2140178.096							
CURVE				S 14°24'39.6" E	118.86	05°02'45.8"(LT)	04°14'38.9"	118.89	59.49	1350.00
PT		792472.821	2140207.676							
LINE				S 16°56'02.5" E	24.02					
PC		792449.846	2140214.671							
CURVE				S 23°13'08.8" E	218.95	12°34'12.5"(LT)	05°43'46.5"	219.39	110.14	1000.00
PT		792248.629	2140300.992							
LINE				S 29°30'15.0" E	10.23					
PC		792239.727	2140306.030							
CURVE				S 31°22'09.4" E	97.64	03°43'48.8"(LT)	03°49'11.0"	97.66	48.85	1500.00
PT		792156.359	2140356.857							
LINE				S 33°14'03.8" E	219.95					
POT		791972.385	2140477.404							

EY1	POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT		793421.052	2140389.975							
LINE				S 54°58'49.3" W	109.25					
PC		793358.357	2140300.502							
CURVE				S 55°27'19.0" W	132.62	00°56'59.5"(RT)	00°42'58.3"	132.62	66.31	8000.00
PT		793283.153	2140191.263							
LINE				S 55°55'48.8" W	266.36					
POT		793133.940	2139970.626							

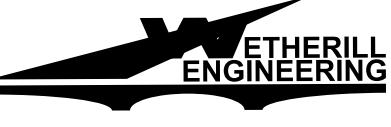
NOTES:

- 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.


NOTE: DRAWING NOT TO SCALE

REVISIONS

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
B-5318	RW02D-1
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	

PROJECT SURVEYOR



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

I, Anthony K. Alford, 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 7th day of April, 2021.

DocuSigned by:

 228A292D708A44E

Anthony K. Alford
 Professional Land Surveyor L-4372

REVISIONS

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	794337.4745	2139477.2334
PC	12+11.60	794129.9737	2139518.7042
PT	15+27.51	793836.0687	2139630.5160
PC	22+56.90	793206.6765	2139999.1141
PT	25+55.36	792929.4715	2140106.1981
PC	29+21.96	792570.7264	2140181.7190
PT	33+59.73	792168.7981	2140348.7062
POT	35+94.55	791972.3855	2140477.4035

DRW1

TYPE	STATION	NORTH	EAST
POT	10+00.00	793833.9227	2139631.7728
PC	10+50.53	793810.5005	2139586.9978
PT	11+14.59	793788.3640	2139527.0703
POT	13+40.80	793737.7362	2139306.5991

Y1

TYPE	STATION	NORTH	EAST
POT	10+00.00	793421.0518	2140389.9749
PC	11+09.25	793358.3569	2140300.5025
PT	12+41.88	793283.1530	2140191.2630
POT	14+47.83	793167.7762	2140020.6584

MUT1



TYPE	STATION	NORTH	EAST
POT	10+00.00	793559.7561	2139931.4003
POT	13+35.00	793390.4617	2139642.3252

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.


BT:APR 2021 09:47
 01/2021 NCDOT Location and Surveys\B-5318 RW\80-Drawings\FOR REVIEW\B5318_1s_rw02d-1.dgn
 Turner AT RAL-WS083

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
B-5318	RW03E-1
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Anthony K. Alford, 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 March 30, 2021 to April 1, 2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 7th day of April, 2021.

DocuSigned by:

 22BA29E2F58A44E
 Anthony K. Alford
 Professional Land Surveyor L-4372

ROW MARKER IRON PIN AND CAP-E


ALIGN	STATION	OFFSET	NORTH	EAST
L	11+66.12	-32.94	794181.0291	2139542.0942
L	12+49.45	-42.20	794102.9314	2139567.8829
L	13+78.00	-63.93	793993.7445	2139624.9513
L	14+84.85	-77.52	793909.4851	2139678.3743
L	15+30.00	-88.00	793878.3940	2139707.7089
L	19+50.00	-80.00	793511.9287	2139913.0553
L	20+20.00	-107.00	793465.1695	2139971.7288
L	21+85.43	-107.00	793322.4142	2140055.3322
L	21+86.70	-89.89	793312.6787	2140041.2027
L	22+69.19	-96.15	793243.5081	2140088.8622
L	23+22.23	-53.70	793172.9803	2140078.2526
L	24+00.00	-55.00	793098.2623	2140112.7952
L	25+32.70	59.74	792937.8477	2140043.1197
L	26+50.00	-54.00	792847.9806	2140178.5366
L	28+00.00	-48.00	792699.9618	2140203.5652
L	28+50.00	60.00	792628.7863	2140108.1815
L	29+50.00	29.57	792536.5836	2140159.0439
L	29+50.00	45.00	792533.0446	2140144.0201
L	29+50.00	-30.44	792550.3415	2140217.4483
L	29+50.00	-70.00	792559.4126	2140255.9564

REVISIONS

07_APR_2021_09:49
 BT, 2021\NCDOT\Location and Surveys\B-5318 RW\80-Drawings\FOR REVIEW\B5318_1s_rw03e-1.dgn
 BTurner AT RAL-WS083

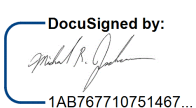
NOTES:

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 MARCH 30, 2021 TO APRIL 1, 2021 .

PROJECT REFERENCE NO.	SHEET NO.
B-5318	RW03E-1A
Location and Surveys	
LOCATION & SURVEYS DIVISION 5 3301 JONES SAUSAGE RD. GARNER, NC 27529 984-920-8940	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I Michael R. Jackson, 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 August 24th, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 13th day of October, 2022.


 Professional Land Surveyor L-4363



ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	12+86.57	35.69	794047.3819	2139501.9460
L	12+90.68	46.41	794040.3141	2139492.8147
L	12+73.10	53.97	794056.1299	2139480.5730
L	12+65.04	34.07	794069.3545	2139497.6587
L	12+22.19	42.65	794110.7851	2139479.1061
L	12+24.56	55.00	794105.7748	2139467.5482

NOTES:

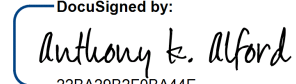
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ON AUGUST 25th .

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
B-5318	RW03E-2
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Anthony K. Alford, 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 March 30, 2021 to April 1, 2021 and October 12, 2021, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 13th day of October, 2021.

Documented by:

 22BA29B2F0BA44E
 Anthony K. Alford
 Professional Land Surveyor L-4372

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	11+00.00	31.76	794233.1900	2139465.6907
L	12+30.00	56.16	794099.8997	2139467.6338
L	13+84.54	85.02	793932.9223	2139488.8245
L	14+34.92	53.40	793895.7422	2139539.1999
L	15+07.23	80.60	793814.4447	2139550.0462
L	15+10.72	66.94	793817.8335	2139563.8061
L	15+39.08	107.49	793771.7638	2139543.6062
L	15+43.95	91.24	793775.7802	2139560.0900
L	15+58.96	-121.46	793870.3100	2139751.2148
L	15+66.78	111.80	793745.6874	2139553.8898
L	15+69.25	95.91	793751.5864	2139568.8480
L	16+73.50	-141.38	793781.5469	2139826.2883
L	17+16.96	-84.44	793715.2637	2139799.1179
L	18+60.13	105.47	793495.7556	2139707.5958
L	18+60.58	91.67	793502.3341	2139719.7256
L	24+34.67	-51.33	793062.6259	2140122.1558
L	24+41.66	-58.67	793058.0391	2140131.5187
L	26+02.41	-62.89	792896.3856	2140177.4297
L	29+10.66	50.79	792571.3289	2140129.6888
L	29+17.27	60.89	792562.7759	2140121.1658
L	29+17.87	52.73	792563.8696	2140129.2757
L	29+26.98	61.64	792552.8656	2140122.5024
L	29+27.59	53.45	792553.9629	2140130.6390
L	31+43.56	46.51	792341.5166	2140204.5775
L	31+44.51	30.91	792346.6364	2140219.3437



REVISIONS

P5-001-20210826 Section and Surveys\B-5318 RW-2 22100.30\80-Drawings\b5318_1s_rw03e-2.dgn
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 TAlford

NOTES:

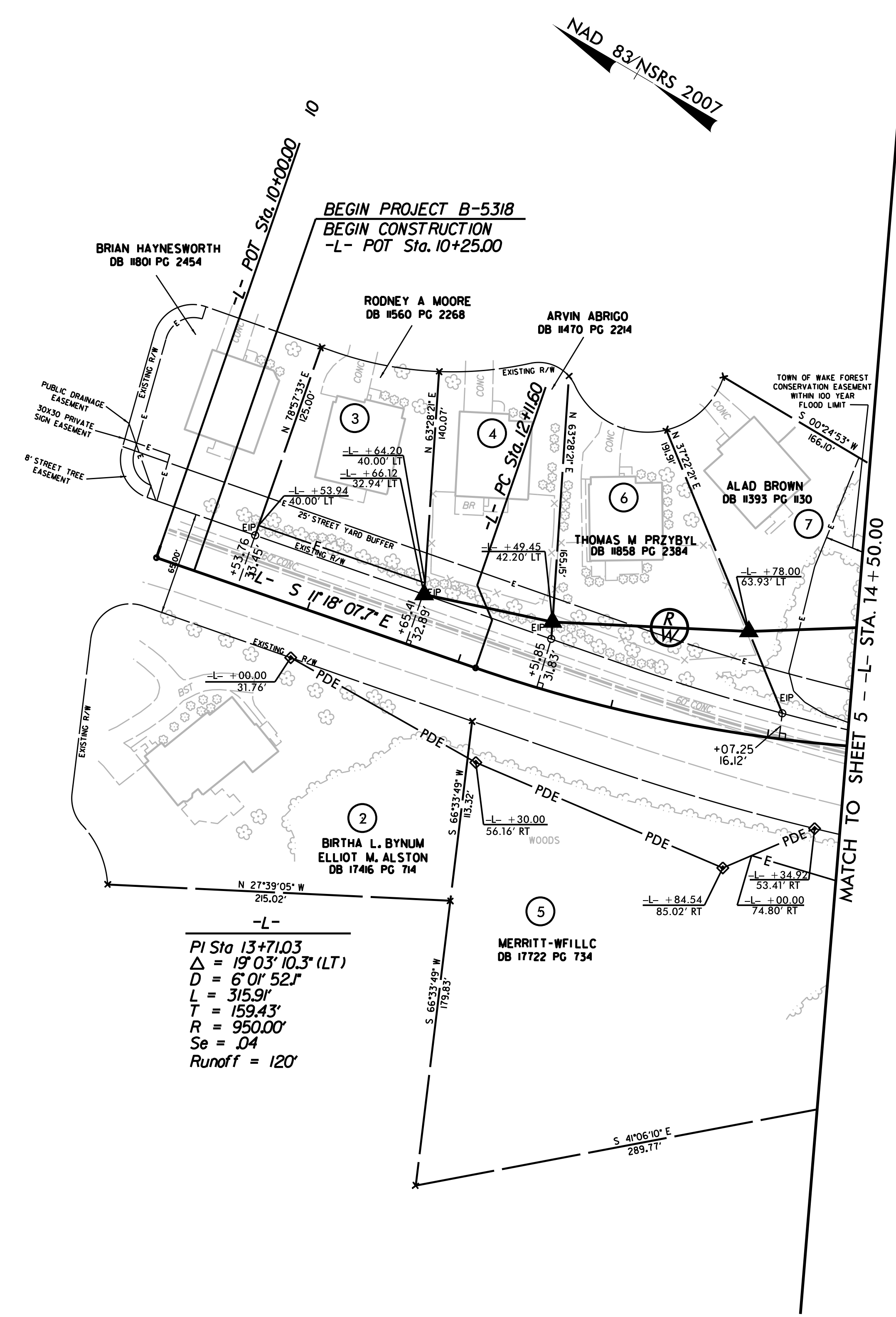
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED MARCH 30, 2021 TO APRIL 1, 2021 .

6/2/2021

PROJECT REFERENCE NO. B-5318	SHEET NO. RW04
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

07_APR_2021_10:55
B:\Projects\2021\Location and Surveys\B-5318 RW\30-Drawings\FOR REVIEW\B5318_1s_rw04.dgn
AT 10:55:03



I, Anthony K. Alford, 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 March 30, 2021 to April 1, 2021, and all coordinates are based on NAD83/NSRS 2007; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.



This 7th day of April, 2021.

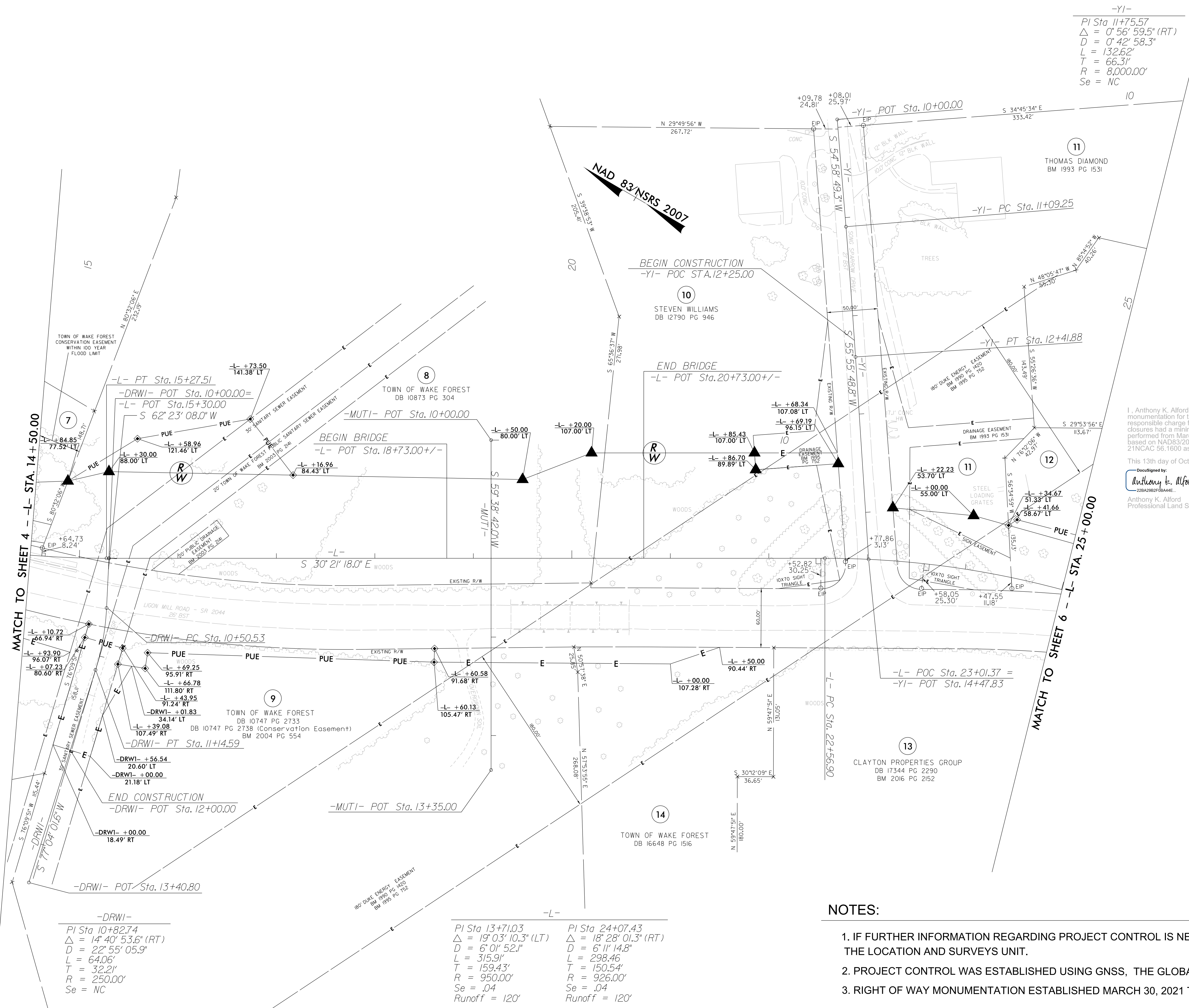
DocuSigned by:

 22BA282F68A44E...
 Anthony K. Alford
 Professional Land Surveyor L-4372

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 MARCH 30, 2021 TO APRIL 1, 2021.

PROJECT REFERENCE NO. B-5318	SHEET NO. RW05
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I, Anthony K. Alford, 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 March 30, 2021 to April 1, 2021 and October 12, 2021. All coordinates are based on NAD83(2011). That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 13th day of October, 2021.
 DocuSigned by:
 Anthony K. Alford
 22BA29B2F0BA44E
 Anthony K. Alford
 Professional Land Surveyor L-4372

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 MARCH 30, 2021 TO APRIL 1, 2021.



-DRWI-
 PI Sta 10+82.74
 $\Delta = 14^{\circ} 40' 53.6''$ (RT)
 $D = 22^{\circ} 55' 05.9''$
 $L = 64.06'$
 $T = 32.21'$
 $R = 250.00'$
 $Se = NC$

-L-
 PI Sta 13+71.03
 $\Delta = 19^{\circ} 03' 10.3''$ (LT)
 $D = 6^{\circ} 01' 52.1''$
 $L = 315.91'$
 $T = 159.43'$
 $R = 950.00'$
 $Se = .04$
 Runoff = 120'

-L-
 PI Sta 24+07.43
 $\Delta = 18^{\circ} 28' 01.3''$ (RT)
 $D = 6^{\circ} 11' 14.8''$
 $L = 298.46'$
 $T = 150.54'$
 $R = 926.00'$
 $Se = .04$
 Runoff = 120'

REVISIONS

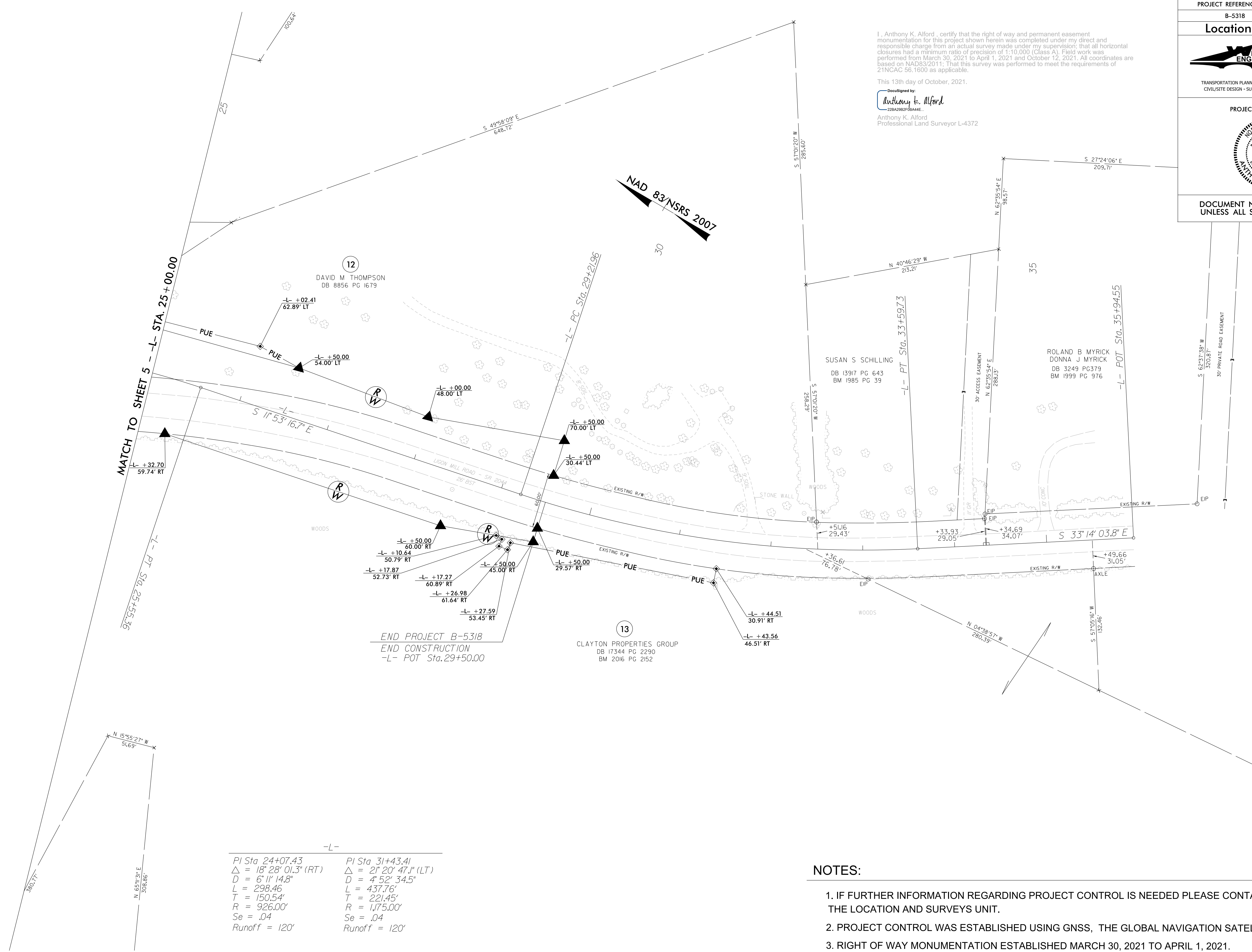
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 AT_RAL-WS094

PROJECT REFERENCE NO.	SHEET NO.
B-5318	RW06
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Anthony K. Alford, 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 March 30, 2021 to April 1, 2021 and October 12, 2021. All coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 13th day of October, 2021.

DocuSigned by:
Anthony K. Alford
 228A2982F8A44E
 Anthony K. Alford
 Professional Land Surveyor L-4372



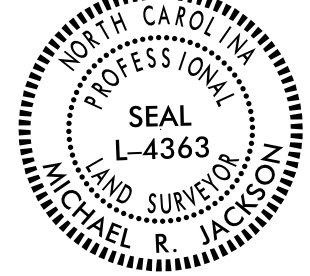
-L-	
PI Sta 24+07.43	PI Sta 31+43.41
Δ = 18° 28' 01.3" (RT)	Δ = 2° 20' 47.1" (LT)
D = 6' 11" 14.8"	D = 4' 52' 34.5"
L = 298.46	L = 437.76'
T = 150.54'	T = 221.45'
R = 926.00'	R = 1,175.00'
Se = .04	Se = .04
Runoff = 120'	Runoff = 120'

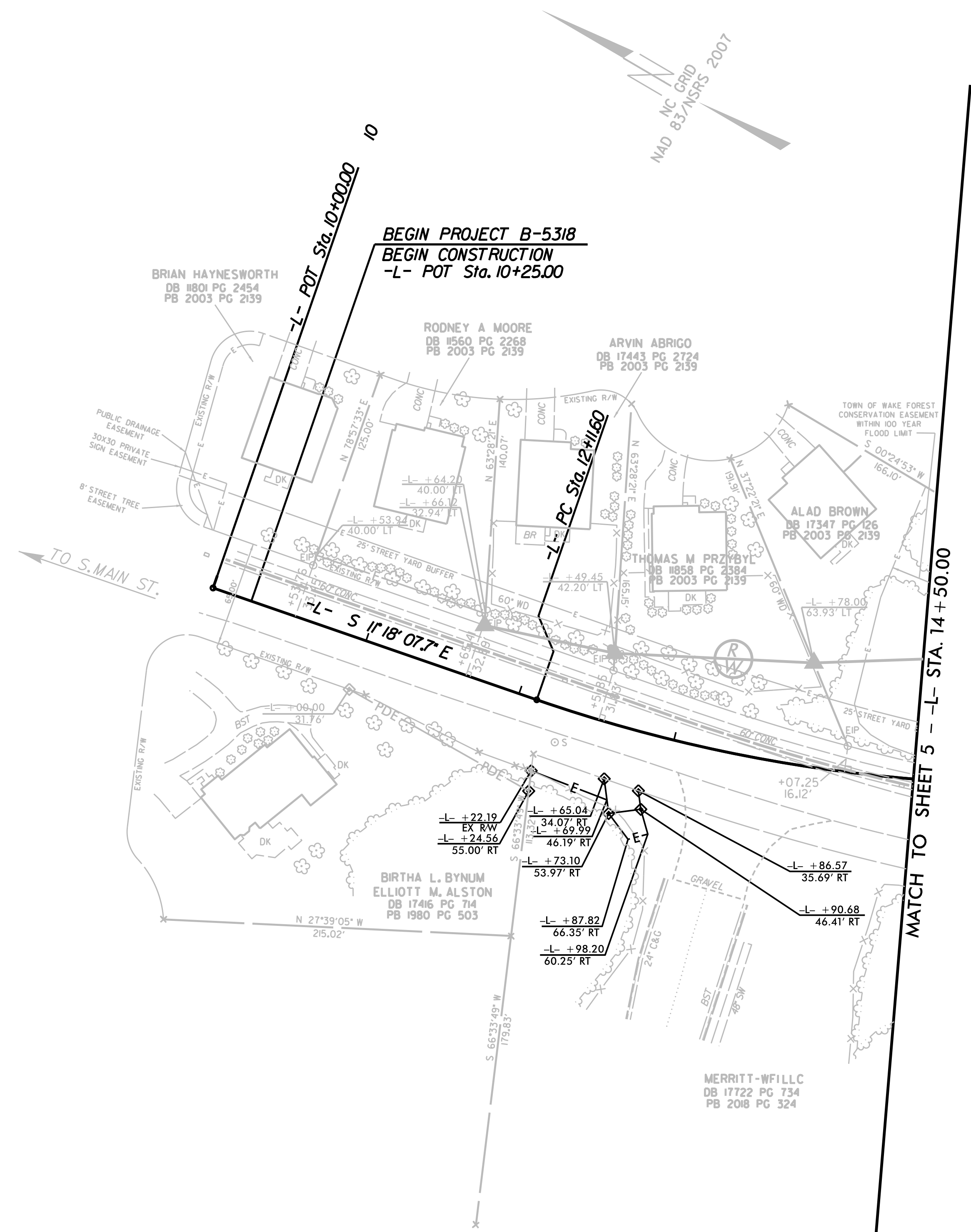
NOTES:

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 MARCH 30, 2021 TO APRIL 1, 2021.

REVISIONS

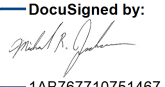
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 6/2/21 10:00 AM
 AT:RAL-WS914

PROJECT REFERENCE NO.	SHEET NO.
B-5318	RW04A
Location and Surveys	
LOCATION & SURVEYS DIVISION 5 3301 JONES SAUSAGE RD. GARNER, NC 27529 984-920-8940	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I, Michael R. Jackson, certify that the right of way monumentation shown in bold herein and on sheet RW03E-1A 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 1:10,000 (Class A). Field work was performed on August 25th, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable. All other monumentation was set by others.

This 13th day of October, 2022.

DocuSigned by:

 1A8767710751467

Professional Land Surveyor L-4363

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 ON AUGUST 25th .