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09/06/99

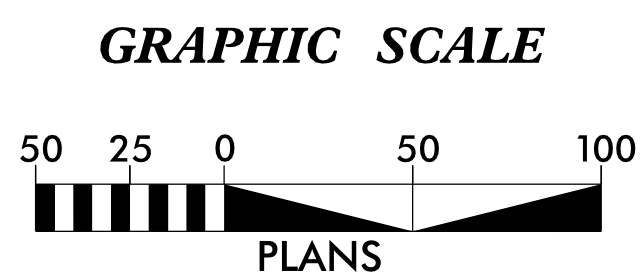
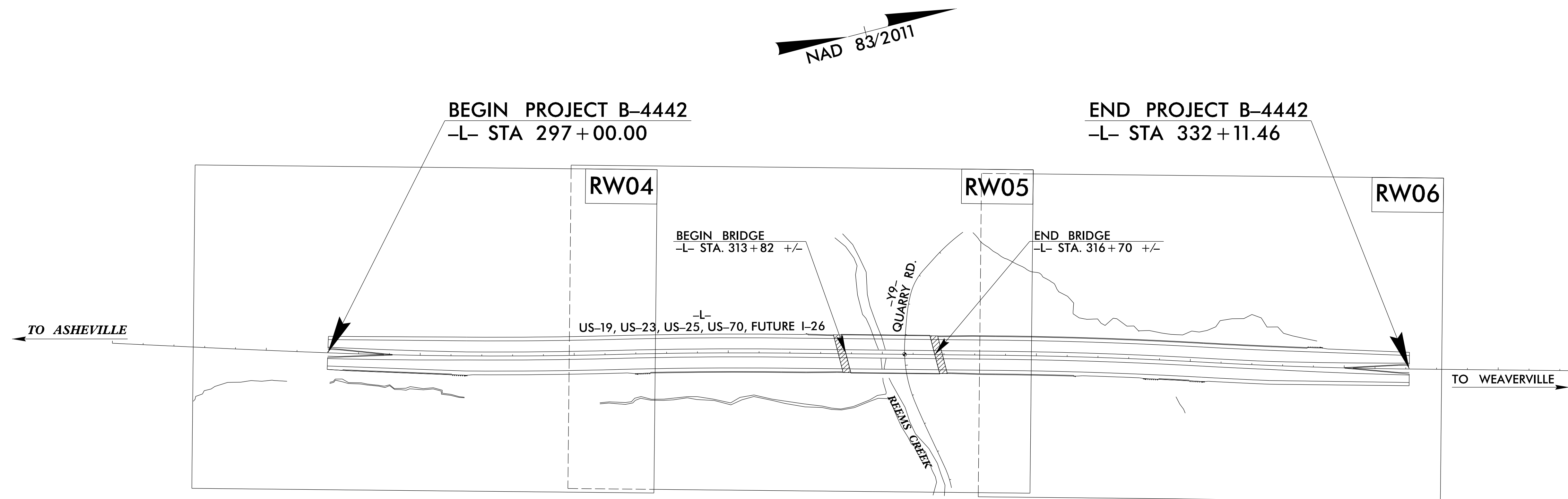
TIP PROJECT: B-4442

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4442	RW01	12

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

BUNCOMBE COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "A0010A-10" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 730,591.693(ft) EASTING: 939,290.932(ft) ELEVATION: 2,124.73(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99980708 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "A0010A-10" TO -L- STATION 297+00.00 IS S 17-27'57.0" W 7,813.15(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

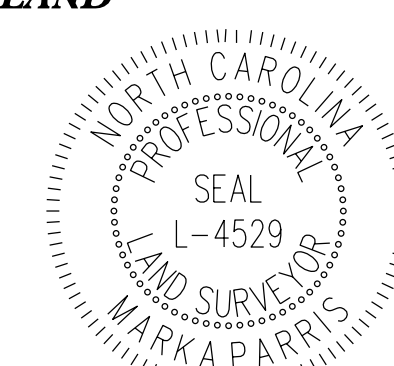
V&M
Vaughn & Melton
1318-F Patton Avenue
Asheville, NC 28806
Firm License # F-1088

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JANUARY 25, 2022

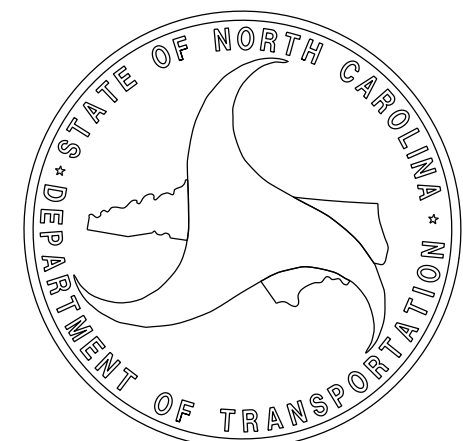
LETTING DATE:
SEPTEMBER 20, 2022

PROFESSIONAL LAND SURVEYOR



DocuSigned by:
F1570CB85C7248A...

5/9/2022
Date:



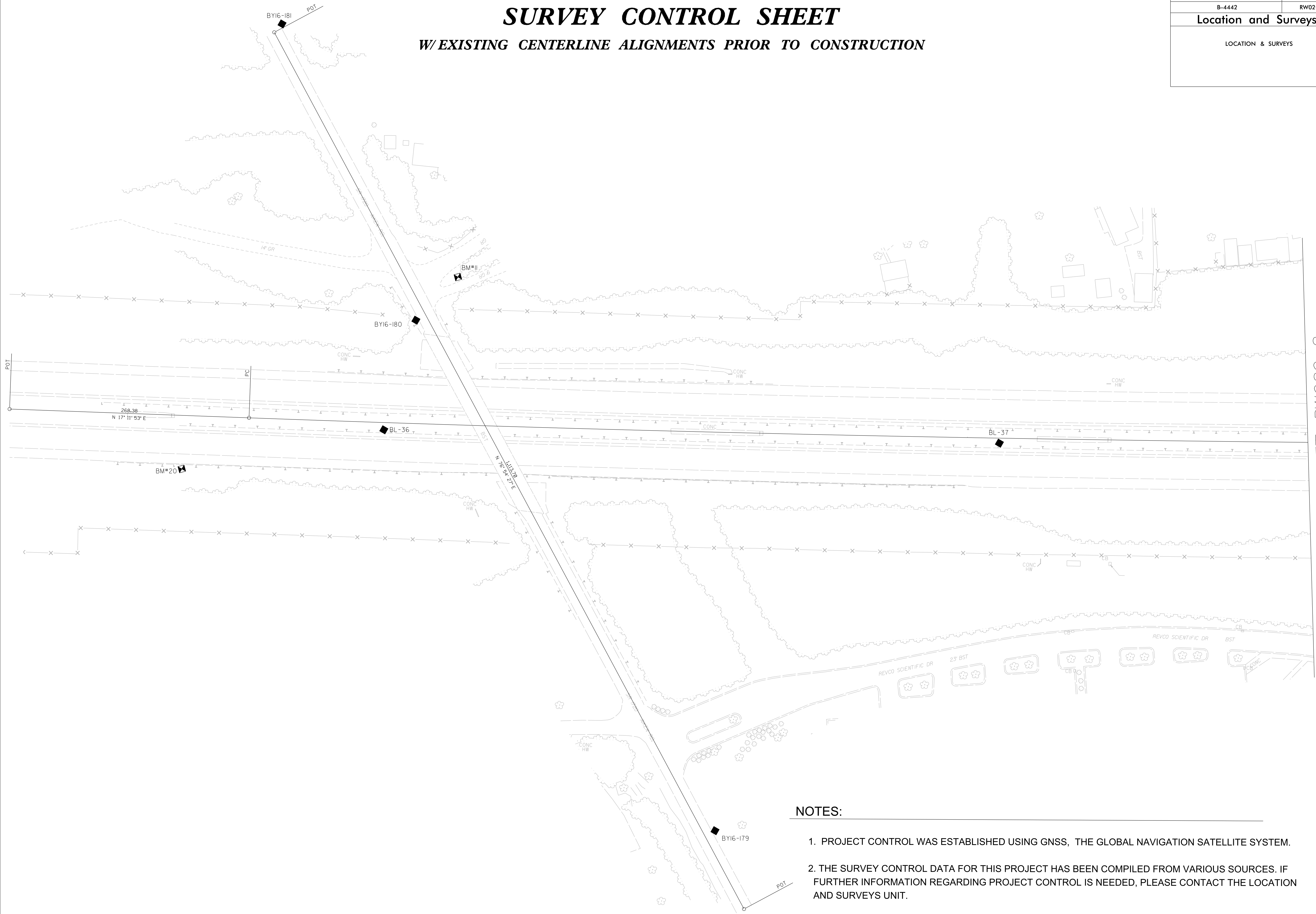
\$\$\$\$\$ SYSTEM \$\$\$\$\$\$
\$\$\$\$\$ DDN \$\$\$\$\$\$
\$\$\$\$\$ USERNAME \$\$\$\$\$\$

PROJECT REFERENCE NO.	SHEET NO.
B-4442	RW02C-1
Location and Surveys	
LOCATION & SURVEYS	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

REVISIONS



MATCHLINE SEE SHEET RW02C-2

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.

PROJECT REFERENCE NO.	SHEET NO.
B-4442	RW02C-2
Location and Surveys	
LOCATION & SURVEYS	

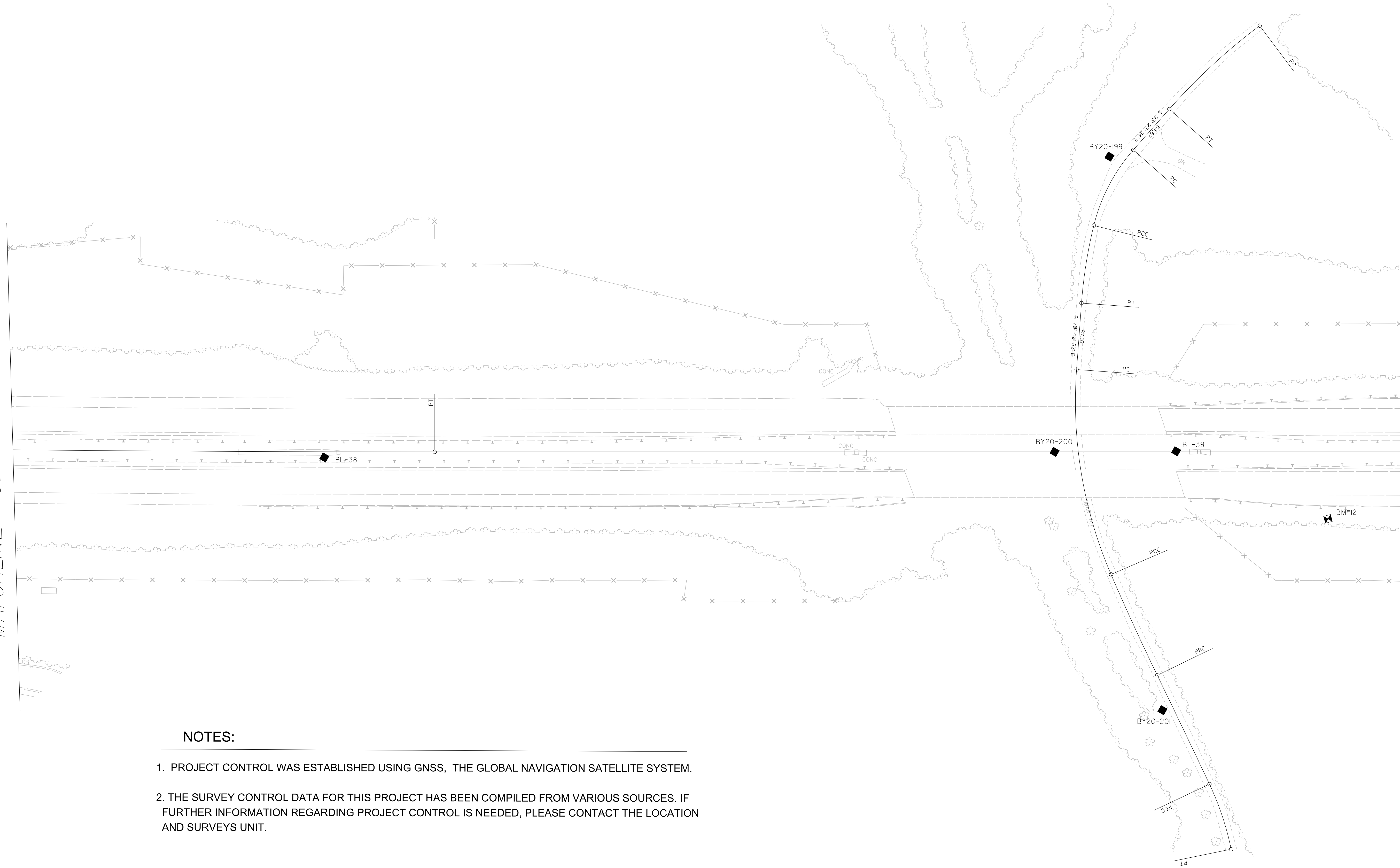
SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

REVISIONS

MATCHLINE SEE SHEET RW02C-1

MATCHLINE SEE SHEET RW02C-3



NOTES:

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PROJECT REFERENCE NO.	SHEET NO.
B-4442	RW02C-3
Location and Surveys	
LOCATION & SURVEYS	

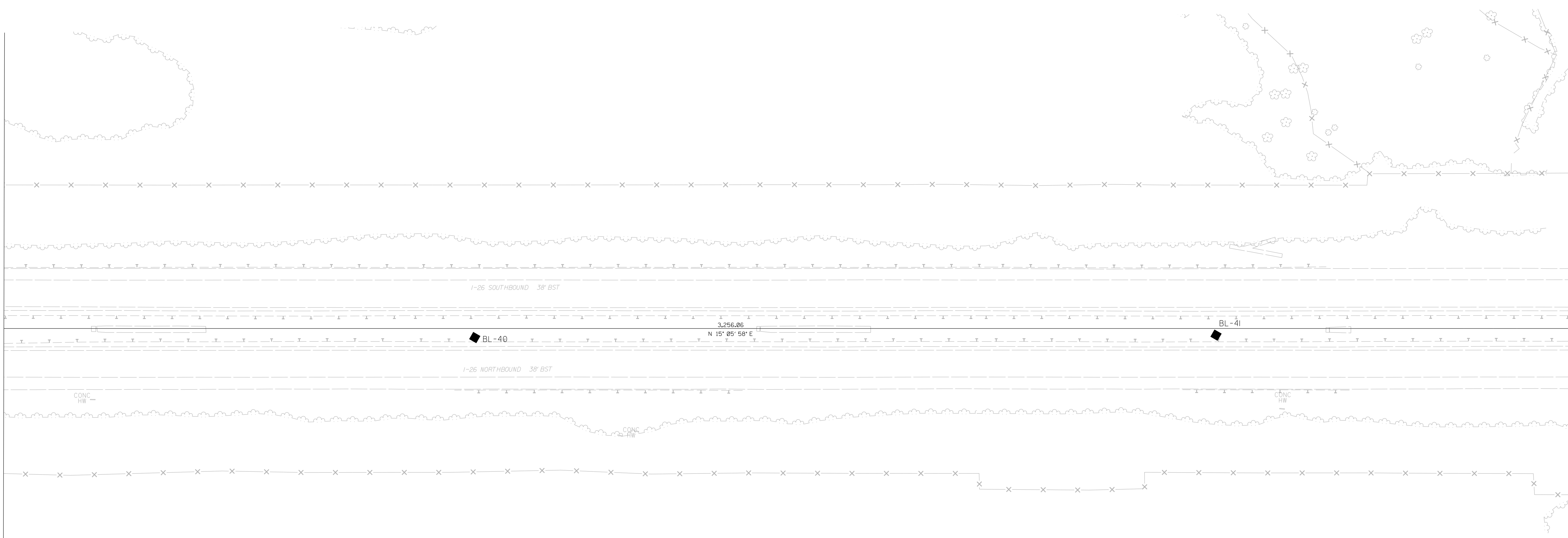
SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

REVISIONS

MATCHLINE SEE SHEET RW02C-2

MATCHLINE SEE SHEET RW02C-4



NOTES:

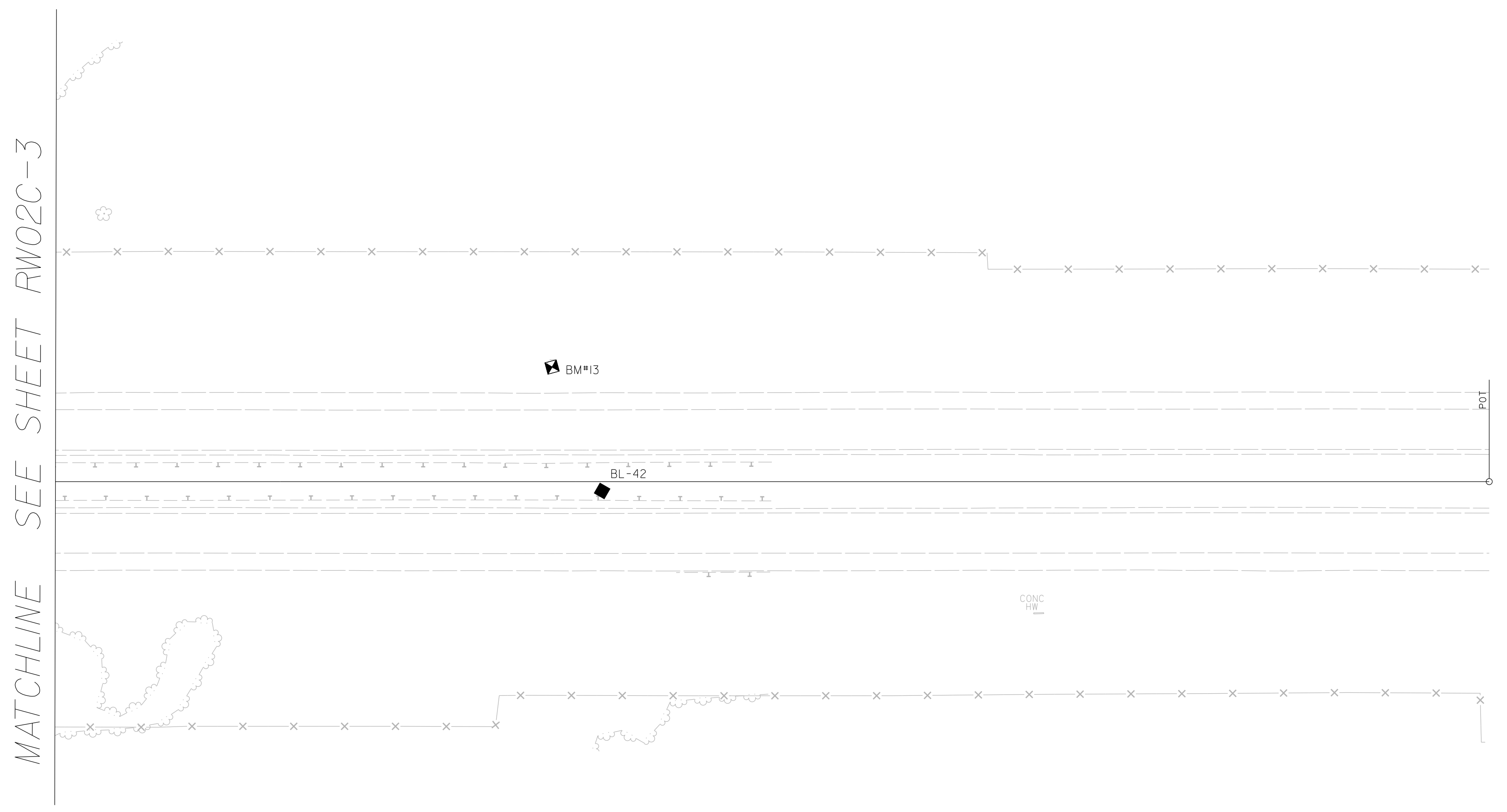
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REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
B-4442	RW02C-4
Location and Surveys	
LOCATION & SURVEYS	



NOTES:

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PROJECT REFERENCE NO.	SHEET NO.
B-4442	RW02C-5
Location and Surveys	
LOCATION & SURVEYS	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BASELINES

BL	POINT	DESC.	NORTH	EAST	ELEVATION	BY16	POINT	DESC.	NORTH	EAST	ELEVATION
35		BL -35	722266.1500	936684.6450	2134.04	179		BY16-179	723153.0930	937415.6440	2109.44
36		BL -36	722911.9070	936885.6830	2104.30	180		BY16-180	722978.5290	936776.5520	2124.71
37		BL -37	723573.6410	937079.7360	2072.54	181		BY16-181	722920.2030	936417.2310	2132.89
38		BL -38	724208.6280	937258.1130	2042.15						
39		BL -39	725039.5330	937475.8100	2034.42						
40		BL -40	725665.0370	937653.6270	2050.29						
41		BL -41	726309.6780	937825.3170	2082.08						
42		BL -42	726937.8790	937994.5030	2099.11						

BY-20	POINT	DESC.	NORTH	EAST	ELEVATION
	199	BY20-199	725052.0590	937171.4960	2016.13
	200	BY20-200	724921.0650	937444.4970	1984.98
	201	BY20-201	724958.2320	937724.2500	1982.23

BENCHMARKS

 BM11 ELEVATION = 2127.74
 N 723037 E 936742
 8" SPIKE IN BASE OF 24" OAK NEAR INT
 OF AIKEN RD AND S HAVEN RD NEAR
 ENTRANCE TO WOODLAND ACRES

 BM12 ELEVATION = 2036.26
 N 725170 E 937582
 BOLT IN BASE OF WEAVERVILLE
 MARSHALL EXIT 1 MILE SIGN ON
 SHOULDER OF WB I-26 150' NORTH
 OF WB I-26 BRIDGE OVER REEMS
 CREEK, NEAR END OF GUARD RAIL.

 BM13 ELEVATION = 2104.07
 N 726928 E 937914
 BOLT IN BASE OF NCDOT MESSAGE BOARD
 SIGN ON SHOULDER OF OF EB I-26 AT END
 OF GUARD RAIL 50' SOUTH OF *HP SIGN

 BM20 ELEVATION = 2115.55
 N 722682 E 936869
 BOLT IN BASE OF BURNSVILLE JOHNSON CITY
 MILES AHEAD SIGN ON SHOULDER OF WB I-26
 350 SOUTH OF AIKEN RD BRIDGE OVER I-26
 5' BEHIND GUARD RAIL

NOTES:

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REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
B-4442	RW02C-6
Location and Surveys	
LOCATION & SURVEYS	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EXISTING CENTERLINE ALIGNMENTS

EL4442

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	722513.266	936754.088							
LINE			N 17°11'53.3" E	268.38					
PC	722769.643	936833.441							
CURVE			N 16°08'55.6" E	1611.62	02°05'55.4"(LT)	00°07'48.8"	1611.71	805.94	44000.00
PT	724317.669	937281.684							
LINE			N 15°05'57.9" E	3256.06					
POT	727461.318	938129.871							

EY8

POINT	N	E	BEARING	DIST
POT	722909.352	936424.061		
LINE			N 76°54'27.4" E	1113.70
POT	723161.628	937508.807		

EY9


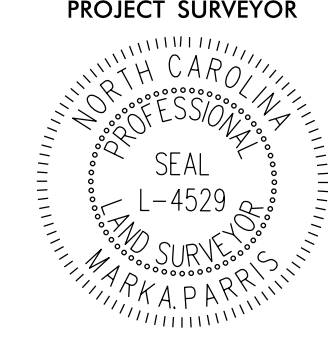
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	725232.645	937083.530							
CURVE			S 27°37'43.2" E	123.94	11°39'41.1"(LT)	09°23'33.9"	124.15	62.29	610.00
PT	725122.838	937141.006							
LINE			S 33°27'33.8" E	54.87					
PC	725077.062	937171.258							
CURVE			S 47°17'08.0" E	86.03	27°39'08.4"(LT)	31°49'51.6"	86.87	44.30	180.00
PCC	725018.703	937234.469							
CURVE			S 65°53'37.3" E	79.20	09°33'50.3"(LT)	12°03'44.2"	79.29	39.74	475.00
PT	724986.357	937306.758							
LINE			S 70°40'32.5" E	67.16					
PC	724964.134	937370.131							
CURVE			S 84°26'56.1" E	209.51	27°32'47.3"(LT)	13°01'18.4"	211.54	107.86	440.00
PCC	724943.867	937578.658							
CURVE			N 80°28'11.5" E	111.85	02°36'57.4"(LT)	02°20'19.0"	111.86	55.94	2450.00
PCC	724962.386	937688.965							
CURVE			N 79°29'09.5" E	121.72	00°38'53.3"(RT)	00°31'57.0"	121.72	60.86	10760.00
PCC	724984.596	937808.637							
CURVE			N 86°39'21.5" E	69.14	13°41'30.9"(RT)	19°45'25.8"	69.30	34.82	290.00
PT	724988.629	937877.655							

REVISIONS

NOTES:

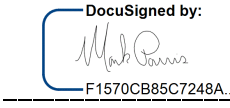
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PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. B-4442	SHEET NO. RW02D-1
Location and Surveys	
 1318-F Patton Avenue Asheville, NC 28806 Firm License # F-1088	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Mark A. Parris, 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 5th day of May, 2022.

DocuSigned by:

 F1570C885C7245A
 Professional Land Surveyor L-4529

L

TYPE	STATION	NORTH	EAST
POT	290+00.00	722469.5581	936740.5597
PC	293+14.13	722769.6438	936833.4411
PCC	297+00.00	723138.7552	936945.9159
PRC	306+38.13	724045.4278	937186.1836
PT	311+72.29	724563.5948	937315.8005
PC	318+67.77	725235.0628	937496.9692
PRC	325+39.62	725879.4241	937686.9424
PT	332+11.46	726523.7854	937876.9156
POT	340+00.00	727285.1031	938082.3266

Y9

TYPE	STATION	NORTH	EAST
PC	10+00.00	725232.6445	937083.5305
PT	11+24.15	725122.8378	937141.0060
PC	11+79.02	725077.0622	937171.2576
PCC	12+65.89	725018.7031	937234.4688
PT	13+45.18	724986.3568	937306.7584
PC	14+12.34	724964.1339	937370.1308
PCC	16+23.88	724943.8674	937578.6584
PRC	17+35.74	724962.3859	937688.9645
PCC	18+57.46	724984.5962	937808.6370
PT	19+26.76	724988.6290	937877.6555


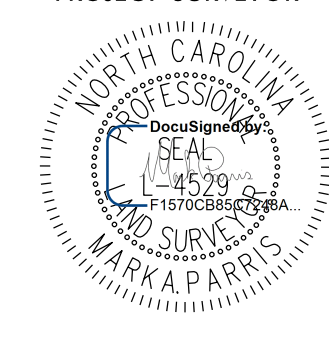
REVISIONS

05-MAY-2022 09:28
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 Jcgerdon

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.

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. B-4442	SHEET NO. RW03E-1
Location and Surveys	
 <p style="font-size: 8px; margin: 0;">1318-F Patton Avenue Asheville, NC 28806 Firm License # F-1088</p>	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP-E

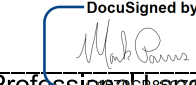
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L	308+37.58	-161.18	724277.8385	937075.8038
L	310+70.00	-149.20	724502.5874	937145.1836
L	310+70.00	-160.00	724505.3274	937134.7357
L	312+90.00	-103.00	724704.0677	937247.0182
L	313+35.00	-103.00	724747.5141	937258.7405
L	313+35.00	-97.99	724746.2103	937263.5729
L	316+50.00	-98.04	725050.3464	937345.5864
L	316+50.00	-107.00	725052.6808	937336.9344
L	316+90.00	-107.00	725091.2998	937347.3542
L	319+50.00	-115.00	725344.9753	937407.7557
L	321+40.00	-125.00	725532.0314	937450.2938
L	322+30.00	-126.00	725619.4194	937474.8933
L	322+80.00	-124.00	725667.1687	937491.2421
L	325+60.00	-118.00	725934.6660	937580.7140
L	325+75.00	-115.44	725948.0684	937587.6665
L	329+12.00	-126.27	726270.8961	937674.7204
L	329+50.00	-146.00	726312.5494	937666.2843
L	329+80.00	-127.52	726335.9873	937692.2730

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	321+00.00	-130.00	725494.6478	937434.3024
L	321+00.00	-122.68	725492.6294	937441.3335
L	321+27.00	-130.00	725520.8253	937441.8435
L	321+27.00	-124.24	725519.2244	937447.3814
L	321+89.00	-139.78	725583.6405	937449.9568
L	321+89.00	-125.47	725579.6078	937463.6865
L	322+65.00	-146.00	725658.9890	937465.8197
L	323+00.00	-123.39	725686.3064	937497.6432
L	325+28.00	-118.43	725904.3834	937570.5851
L	325+28.00	-143.00	725911.8565	937547.1805
L	325+81.00	-145.00	725962.6763	937561.2857
L	325+81.00	-115.70	725953.8208	937589.2177

I, Mark A. Parris, 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 4/25/22 to 5/4/22, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 5th day of May, 2022.


 Professional Land Surveyor L-4529

REVISIONS

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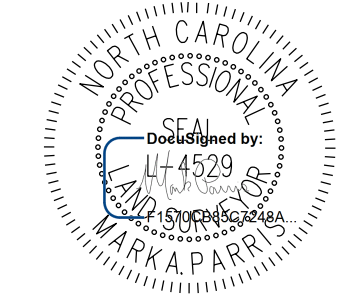
NOTES:

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 4/25/22 TO 5/4/22 .

Location and Surveys



PROJECT SURVEYOR



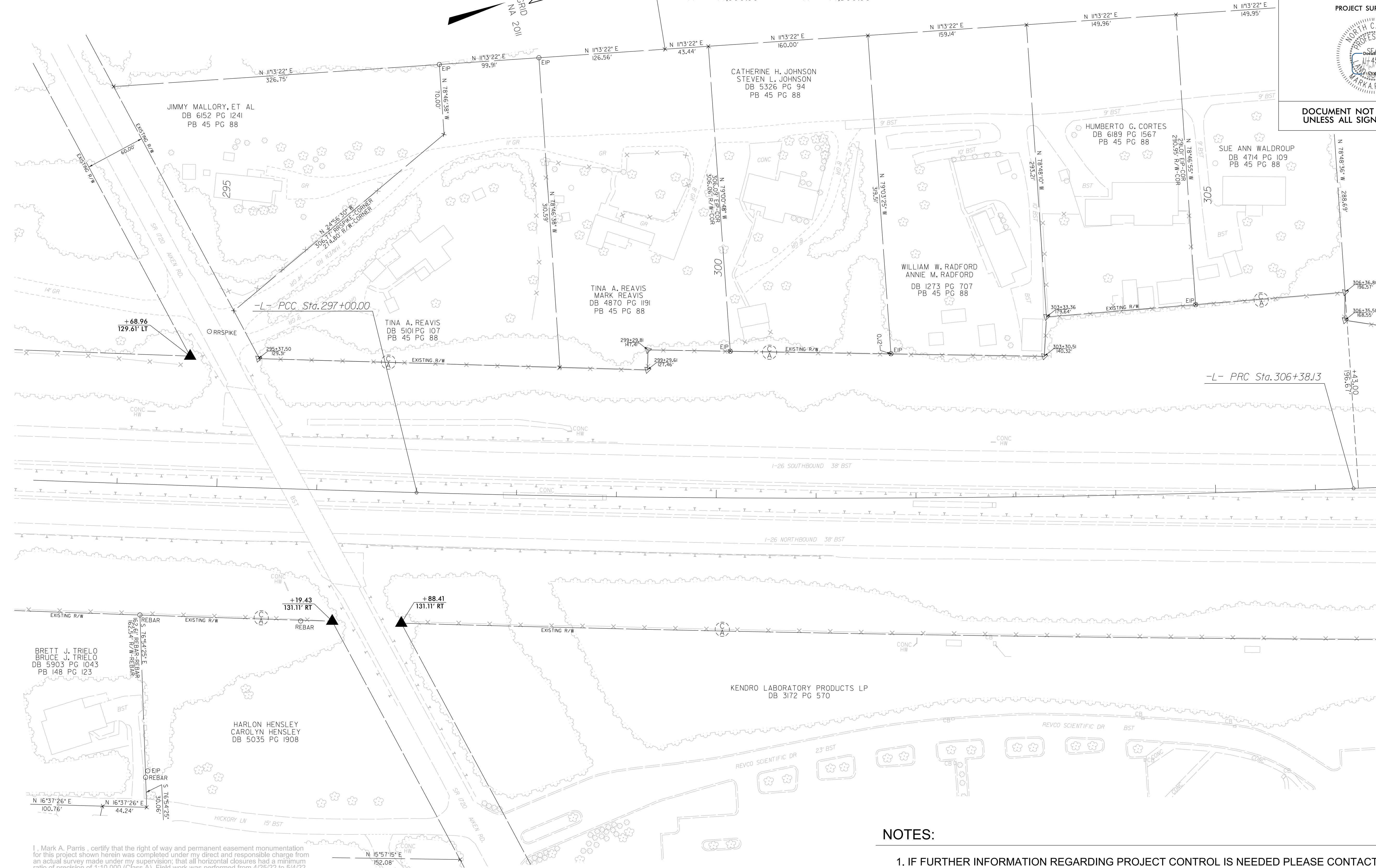
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L-

PI Sta 295+07.07	PI Sta 301+69.23
$\Delta = 0^{\circ} 30' 08.9''$ (LT)	$\Delta = 3^{\circ} 42' 25.1''$ (LT)
$D = 0^{\circ} 07' 48.8''$	$D = 0^{\circ} 23' 42.5''$
$L = 385.87'$	$L = 938.13'$
$T = 192.94'$	$T = 469.23'$
$R = 44,000.00'$	$R = 14,500.00'$

TERRY L. THOMAS
KIMELA L. THOMAS
DB 1953 PG 3
PB 64 PG 56

N.C. GRID 2011
MAD 83 NA



REVISIONS

MATCHLINE SEE SHEET RW05

I, Mark A. Parris, 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 4/25/22 to 5/4/22, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This file was created on May, 2022.

 Professional Land Surveyor L-4529

NOTES:

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED 4/25/22 TO 5/4/22.

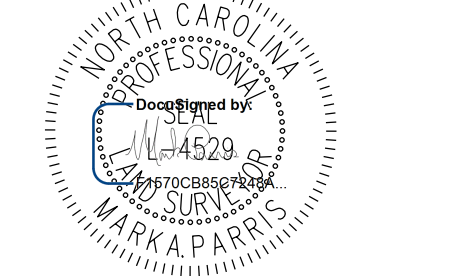
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 AT WKS-100351-53
 legordon

Location and Surveys



Vaughn & Melton
1318-F Patton Avenue
Asheville, NC 28806
Firm License # F-1088

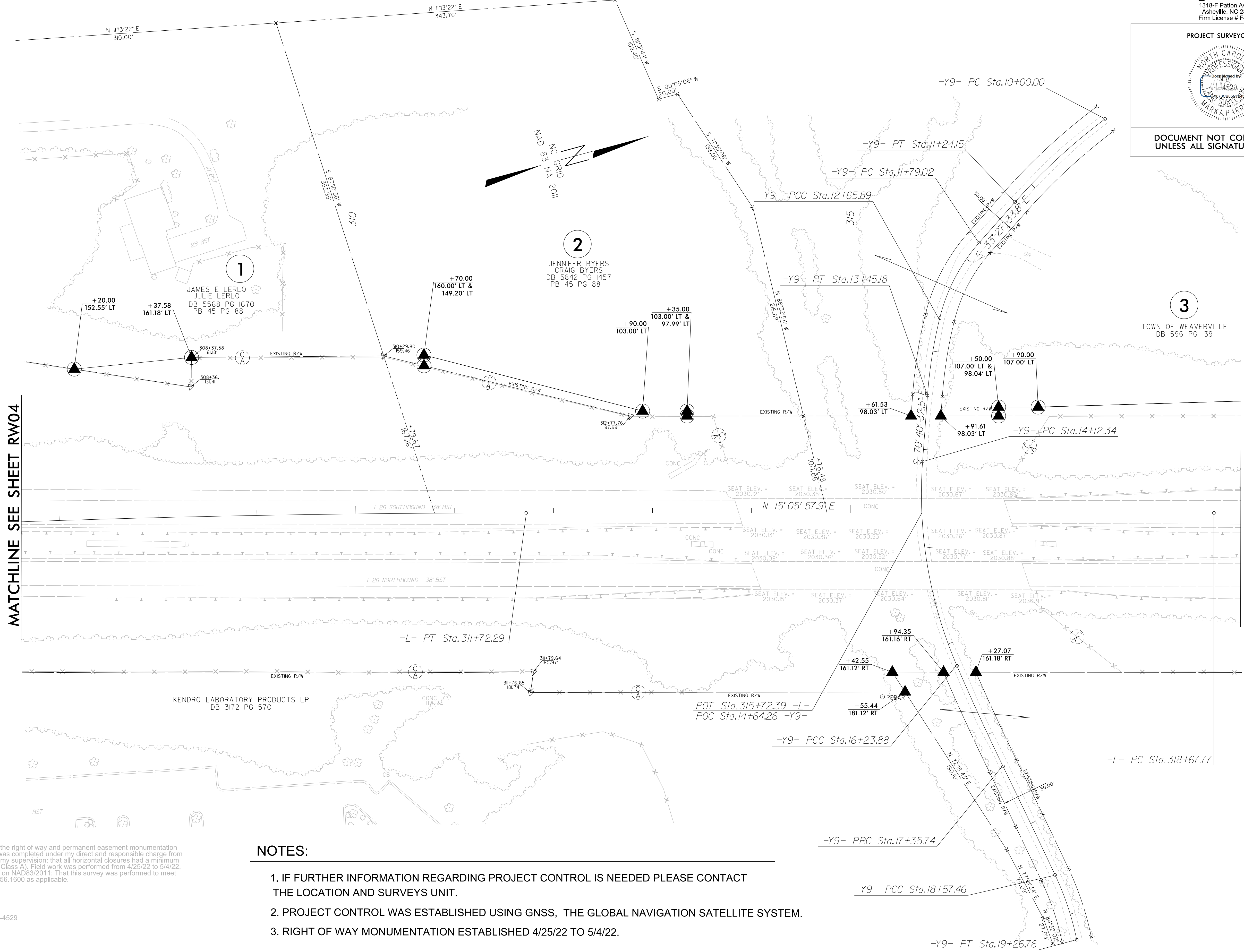
PROJECT SURVEYOR



Mark A. Parris
Professional Surveyor
L-4529

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L-		-Y9-						
PI Sta 301+69.23 Δ = 3° 42' 25.1" (LT) D = 0' 23' 42.5" L = 938.13' T = 469.23' R = 14,500.00'	PI Sta 309+05.24 Δ = 2° 06' 38.5" (RT) D = 0' 23' 42.5" L = 534.16' T = 267.11' R = 14,500.00'	PI Sta 10+62.29 Δ = 11° 39' 41.1" (LT) D = 9' 23' 33.9" L = 124.15' T = 62.29' R = 610.00'	PI Sta 12+23.32 Δ = 27° 39' 08.4" (LT) D = 3' 49' 51.6" L = 86.87' T = 44.30' R = 180.00'	PI Sta 13+05.63 Δ = 9° 33' 50.3" (LT) D = 12' 03' 44.2" L = 79.29' T = 39.74' R = 475.00'	PI Sta 15+20.20 Δ = 27° 32' 47.3" (LT) D = 13' 01' 18.4" L = 211.54' T = 107.86' R = 440.00'	PI Sta 16+79.82 Δ = 2° 36' 57.4" (LT) D = 2' 20' 19.0" L = 111.86' T = 55.94' R = 2,450.00'	PI Sta 17+96.60 Δ = 0° 38' 53.3" (RT) D = 0' 31' 57.0" L = 121.72' T = 60.86' R = 10,760.00'	PI Sta 18+92.27 Δ = 13° 41' 30.9" (RT) D = 19' 45' 25.8" L = 69.30' T = 34.82' R = 290.00'



MATCHLINE SEE SHEET RW04

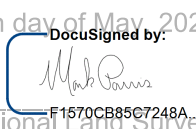
MATCHLINE SEE SHEET RW06

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 4/25/22 TO 5/4/22.

I, Mark A. Parris, 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 4/25/22 to 5/4/22, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCA 56.1600 as applicable.


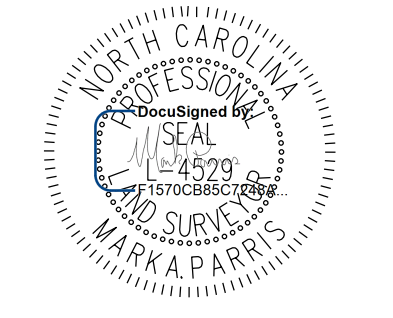
This 5th day of May, 2022.



Professional Land Surveyor L-4529

REVISIONS

I:\MAY_2022\0829\15-NC-150522-15_b4442_con_vam\Survey\To_Send\B4442_1s_RW05.dgn
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 6/2/09

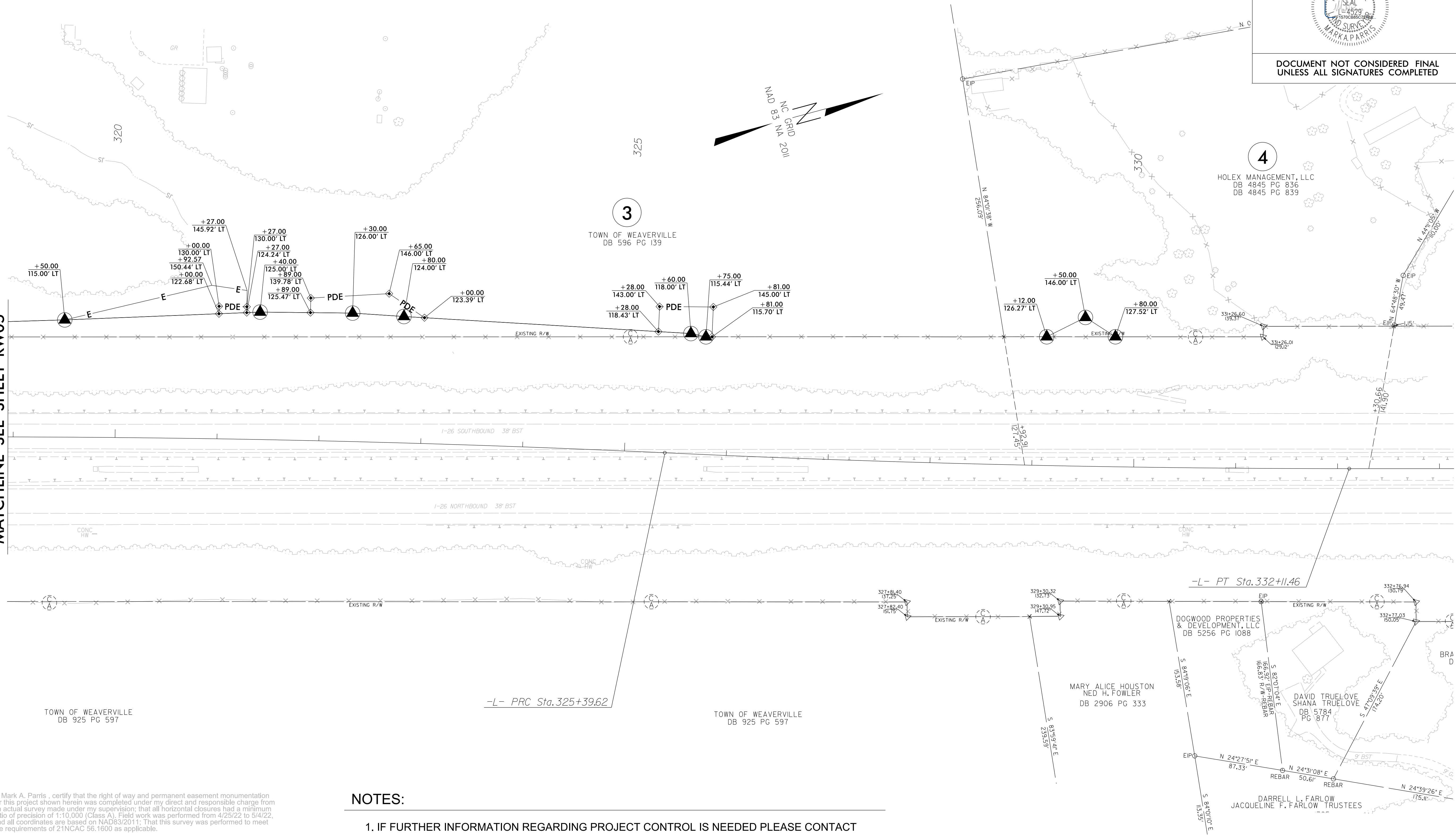
PROJECT REFERENCE NO.	SHEET NO.
B-4442	RW06
Location and Surveys	
 Vaughn & Melton 1318-F Patton Avenue Asheville, NC 28806 Firm License # F-1088	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L-

PI Sta 322+03.75	PI Sta 328+75.60
$\Delta = 2^\circ 39' 17.1''$ (RT)	$\Delta = 2^\circ 39' 17.1''$ (LT)
D = 0' 23' 42.5"	D = 0' 23' 42.5"
L = 671.84'	L = 671.84'
T = 335.98'	T = 335.98'
R = 14,500.00'	R = 14,500.00'
SE = NC	SE = NC
V = 70 MPH	V = 70 MPH

REVISIONS

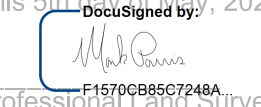
MATCHLINE SEE SHEET RW05



NOTES:

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I, Mark A. Parris, 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 4/25/22 to 5/4/22, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 5th day of May, 2022.

 Professional Land Surveyor L-4529

05-MAY-2022 11:02 AM V:\NC\S_S\212-16_b4442_con_vam\Survey\Draw - Work\B4442_Ls_RW06.dgn