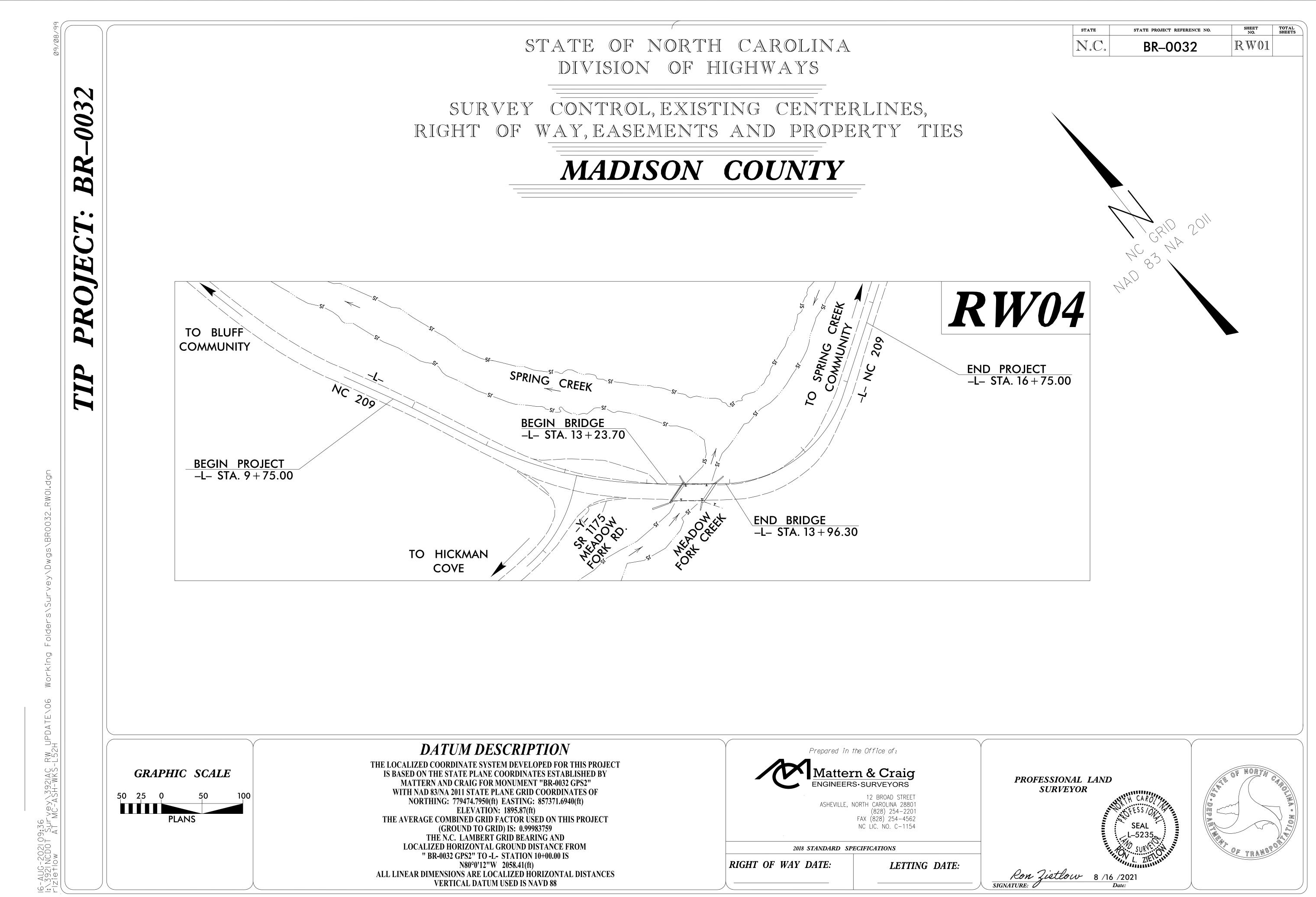
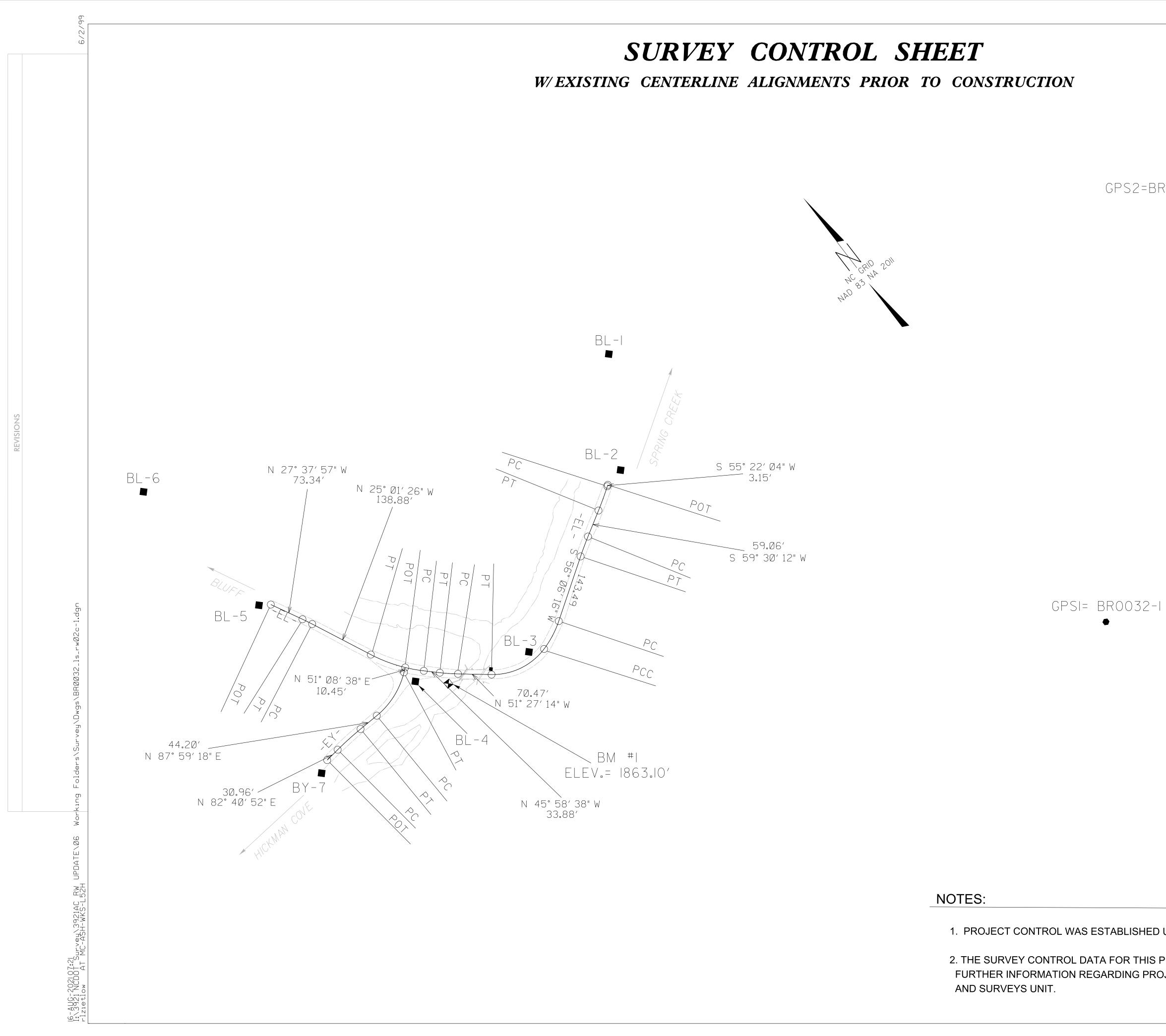
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2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION

	PROJECT REFERENCE NO.	SHEET NO
	BR_0032	rw02c–1
SEE SHEET RWO	2C-2	
FOR FURTHEI Alignment det	Location and Su	Jrveys
ALIGIVILIVI DEII	MATTERN AND CRA ENGINEERS & SURVEY 12 BROAD STREET ASHEVILLE NORTH CAROLIN (828) 254–2201 FAX (828) 254–456 NC LIC. NO. C–115	ORS NA 28801 2
• 2=BR0032-2	PROJECT SURVEYOR H CARO OFESS/OF SEAL L-5235 SURVE L ZIE	
	DOCUMENT NOT CONSIDE UNLESS ALL SIGNATURES (	
supervision	low, PLS, certify that the Project Control was performe from an actual GPS survey made under my supervision formation was used to perform the survey:	•
Dates of su Datum/Epo Published/ Localized a Northing: 7 Easting: 85 Combined Geoid mod	PS field procedure: VRS invey: 7/9/18 to 7/26/18 bch:NAD83 NA 2011 Fixed-control use: Project Control around: BR-0032 GPS2 79474.7950(ft) 57371.6940(ft) grid factor: 0.99983759	
direct and that all hor AA) and Ve 7/26/21 , a based on N	y that the Baseline Control for this project was complet responsible charge from an actual survey made under zontal closures had a minimum ratio of precision of 1:2 ertical accuracy to Class A. Field work was performed f nd all coordinates are based on NAD 83/2011 and all e IAVD 88; that this survey was performed to meet the re 6.1600 as applicable.	my supervision; 20,000 (Class from 7/9/18 to elevations are

This 16th day of August, 2021. Ron Listlow

Professional Land Surveyor L-5235

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

EL									
POINT	N	E	BEARING	DIST	DELTA			Т	R
POT	779686.654	856Ø15.287							
LINE			S 55°22′Ø4" W	3.15					
PC	779684.863	856Ø12.695							
CURVE			<u> </u>	54.12	Ø4°Ø8′Ø8"(RT)	Ø7°38′22"	54.13	27.Ø8	750.
PT	779655.732	855967.081							
LINE			<u>S 59°30′12" W</u>	59.06					
PC	779625.757	855916.187							
CURVE			S 57°48′14" W	44.49	Ø3°23′56"(LT)	Ø7°38′22"	44.49	22.25	75Ø.
PT	779602.055	855878.543		1 4 0 4 0					
LINE	770500 000		S 56°Ø6′16"W	143.49					
PC	779522.036	855759.442							
CURVE PCC	779494.379	855699.364	<u>S 65°16′50" W</u>	66.14	18°21′Ø8"(RT)	27°37′48"	66.42	33.50	207.
CURVE	//9494.3/9	000099.364	N 78°29′55" W	122.76	54°Ø5′21"(RT)	42°26′29"	127.44	68.92	135.0
PT	779518.857	855579.065		122.70		42 20 2 )		00.12	
LINE	// )510.05/		N 51°27′14" W	7Ø.47					
PC	779562.773	855523.946							
CURVE	///////////////////////////////////////	000020.710	N 48°42′56"W	38.22	Ø5°28′36"(RT)	14°19′26"	38.24	19.13	400.
PT	779587.990	855495.226						1 /810	
LINE			N 45°58′38"W	33.88					
PC	779611.534	855470.865							
CURVE			N 35°30′02"W	116.37	2ذ57′12"(RT)	17°54′18"	117.02	59.17	320.1
PT	779706.275	855403.285							
LINE			N 25°Ø1′26"W	138.88					
PC	779832.119	855344.539							
CURVE			N 26°19′42" W	22.76	Ø2°36′31"(LT)	11°27′33"	22.76	11.38	500.
PT	779852.520	855334.444							
LINE			N 27°37′57"W	73.34					
POT	779917.492	855300.431							

ΕY									
POINT	N	E	BEARING	DIST	DELTA			Т	R
POT	779586.044	855195.757							
LINE			N 82°4Ø′52″E	30.96					
PC	779589.987	855226.462							
CURVE			N 85°20′05″E	64.82	Ø5°18′26"(RT)	Ø8°11′Ø6"	64.84	32.44	700.0
PT	779595.259	855291.065							
LINE			N 87°59′18" E	44.20					
PC	779596.811	855335.235							
CURVE			N 69°33′58" E	107.45	36°50′40"(LT)	33°42′12"	109.32	56.62	170.0
PT	779634.323	855435.919							
LINE			N 51°Ø8′38″E	1Ø.45					
POT	779640.877	855444.055							

BL				
POINT	DESC.	NORTH	EAST	ELEVATION
GPS1 GPS2 1 2 3 4 5 6	BRØØ32-1 BRØØ32-2 BL-1 BL-2 BL-3 BL-4 BL-5 BL-6	778821.7890 779474.7950 779903.4830 779694.9400 779508.7040 779604.5840 779931.4470 780268.1120	856671.0080 857371.6940 856184.0730 856055.4330 855670.3030 855443.2900 855279.7370 855232.0650	1922.80 1895.87 1880.29 1877.95 1867.77 1867.52 1875.80 1870.75
BY Point	DESC.	NORTH	EAST	ELEVATION
 7 4	BY1-7 BL-4	 779571.381Ø 7796Ø4.584Ø	855169.672Ø 855443.29ØØ	1877.25 1867.52

16-AUG-202107:36 1:\3921 NCD07 Survey\39216 rlzietlow AT MC-ASH-WKS

# SURVEY CONTROL SHEET

### W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BMI ELEVATION N 779559 BMIIS RR SPIKE SET SYCAMO 

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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.
		BR-0032 Location and	
			JUI VC y 3
		MATTERN AND C ENGINEERS & SURV	EYORS
		12 BROAD STRE ASHEVILLE NORTH CARO (828) 254–220	LINA 28801
$\supset$		FAX (828) 254-4: NC LIC. NO. C-1	562
		PROJECT SURVEYO	٤
0.00		THESS / OF	in the second seco
		SEAL	
0.00		THOM L ZIEL	<b>,</b>
7.37		DOCUMENT NOT CONSI UNLESS ALL SIGNATURES	
		certify that the Project Control was perforr	ned under my
5.00	supervision from an a	actual GPS survey made under my superv was used to perform the survey:	
	Class of survey: <b>AA</b> Type of GPS field pro		
0.00	Dates of survey: 7/9/	18 to 7/26/18	
		rol use: Project Control	
3.00	Localized around: BR Northing: 779474.795		
	Easting: 857371.6940 Combined grid factor	· · ·	
	Geoid model:12USb Units:US Survey Fee		
1.00		Baseline Control for this project was comp	
2	that all horizontal close AA) and Vertical accu 7/26/21 , and all coor	e charge from an actual survey made unde sures had a minimum ratio of precision of uracy to Class A. Field work was performe dinates are based on NAD 83/2011 and a hat this survey was performed to meet the applicable.	1:20,000 (Class d from 7/9/18 to I elevations are
	This 16th day of Augu Ron Zie		
1.00	Professional Land Su		
.00			
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1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

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# PROPOSED ALIGNMENT CONTROL SHEET

		-L-NC 20/9	
TYPE	STATION	NORTH	EAST
POT	9+10.00	779912.0874	855303.2601
PC	9+77.24	779852.5203	855334.4441
PT	10+00.00	779832.1195	855344.5393
PC	10+87.57	779752.7679	855381.5819
PT	13+12.4Ø	779578.2772	855520.0931
PC	13+89.12	779530.9014	855580.4299
PT	15+83.99	779524.1532	855762.5931
POT	17+23.68	779602.0549	855878.5428

	-Y- SR 1175	5 ( MEADOW FOF	(KRD.)
TYPE	STATION	NORTH	EAST
POT	10+00.00	779645.7496	855450.1032
PC	10+18.21	779634.3227	855435.9195
РТ	11+27.53	779596.8107	855335.2348

### NOTES:

- THE LOCATION AND SURVEYS UNIT.

PROJECT REFERENCE NO.	SHEET NO.
BR-0032	RW02D-1
Location and	Surveys
MATTERN AND ENGINEERS & SU 12 BROAD S ASHEVILLE NORTH CA (828) 254–2 FAX (828) 254 NC LIC. NO.	JRVEYORS STREET AROLINA 28801 2201 4–4562
PROJECT SURVEYOR TH CARO/ FESS/ON SEAL L-5235 USURVEYOR SURVEYOR	
DOCUMENT NOT CONSID UNLESS ALL SIGNATURES	

I, R. L. Zietlow, 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 16th day of August, 2021.

Ron Zietlow

Professional Land Surveyor L-5235

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

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		30-DEC-202110:34 I:\3921 NCDOT Survey\3921AC RW UPDATE\Survey\Dwgs\rw03e-1.dgn rlzietlow AT MC-ASH-WKS-L52H
		21 NCD( tlow
		30-DE I:\392

## RIGHT OF WAY CONTROL SHEET

	-L-NC 2Ø9	ROW MARKER	IRON PIN AND	CAP-E	
ALIGN	STATION	OFFSET	NORTH	EAST	
L	10+87.57	50.00	779731.6197	855336.2746	
L	10+87.57	-50.00	779773.9177	855426.8884	
L	11+33.90	52.48	779685.1253	855357.9789	
L	11+44.58	-46.95	779727.4250	855448.5920	
L	12+52.91	-42.13	779647.4872	855505.6122	
L	12+85.Ø3	58.33	779552.0374	855460.4783	
L	12+90.03	-41.54	779623.9436	855529.9728	Ν
L	13+24.65	59.81	779523.6672	855492.7890	Ν
L	13+25.37	-40.18	779601.8780	855555.1034	
L	13+93.44	60.40	779479.7517	855547.9074	]
L	13+98.14	-39.49	779557.9625	855610.2217	N
L	15+06.27	-44.32	779542.5836	855686.1166	
L	15+19.48	54.82	779446.2073	855712.7625	
L	15+78.39	-49.93	779563.5386	855731.5576	
L	15+81.12	50.00	779480.5647	855787.3040	

MAG NAIL IN ROCK MAG NAIL IN ROCK

MAG NAIL SET IN TREE

-	-L-NC	209 RI	OW MARKER	PERMANENT Er	ASEMENT - E
			NEECET		EACT

ALIGN	<u>STATIUN</u>	UFFSEI	I NUKIH	EAST	
L	11+69.00	-44.66	779707.7056	855458.8052	DRILL HOLE IN ROCK
L	11+69.00	-64.00	779718.7252	855474.6937	
L	11+91.00	-64.00	779703.3124	855485.9151	
L	11+91.00	-43.20	779690.6871	855469.3837	
L	12+79.00	-78.00	779657.6545	855546.8780	
L	12+79.00	-41.99	779630.9483	855522.7251	
L	13+09.00	-73.00	779637.4840	855562.9112	
L	13+09.00	-51.00	779620.2774	855549.2023	
L	13+39.00	-51.00	779601.9654	855572.5067	
L	13+39.00	-40.09	779593.3818	855565.7669	

-Y-SR 1	175 (MEADOW	FORK RD) R(	DW MARKER IRON	N PIN AND CAP-E
ALIGN	STATION	OFFSET	NORTH	EAST
Y	10+75.84	15.50	779621.0073	855380.6693
Y	10+64.45	-15.50	779596.3013	855402.5646
Y	11+27.53	-15.50	779581.3203	855335.7789
Y	11+27.53	15.50	779612.3012	855334.6907

### NOTES:

- THE LOCATION AND SURVEYS UNIT.

PROJECT REFERENCE NO.	SHEET NO.				
BR-0032	RW03E-1				
Location and S	urveys				
MATTERN AND CRAIG ENGINEERS & SURVEYORS 12 BROAD STREET ASHEVILLE NORTH CAROLINA 28801 (828) 254–2201 FAX (828) 254–4562 NC LIC. NO. C–1154					
PROJECT SURVEYOR PROJECT SURVEYOR SEAL L-5235 L. ZIETL					
DOCUMENT NOT CONS UNLESS ALL SIGNATURE					

I, R. L. Zietlow, 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 9/30/19 to 12/30/21, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 30th day of December, 2021. DocuSigned by: Aon Biston

Professional Land Surveyor L-5235

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT

2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM. 3. RIGHT OF WAY MONUMENTATION ESTABLISHED 9/3019 TO 12/30/21.

