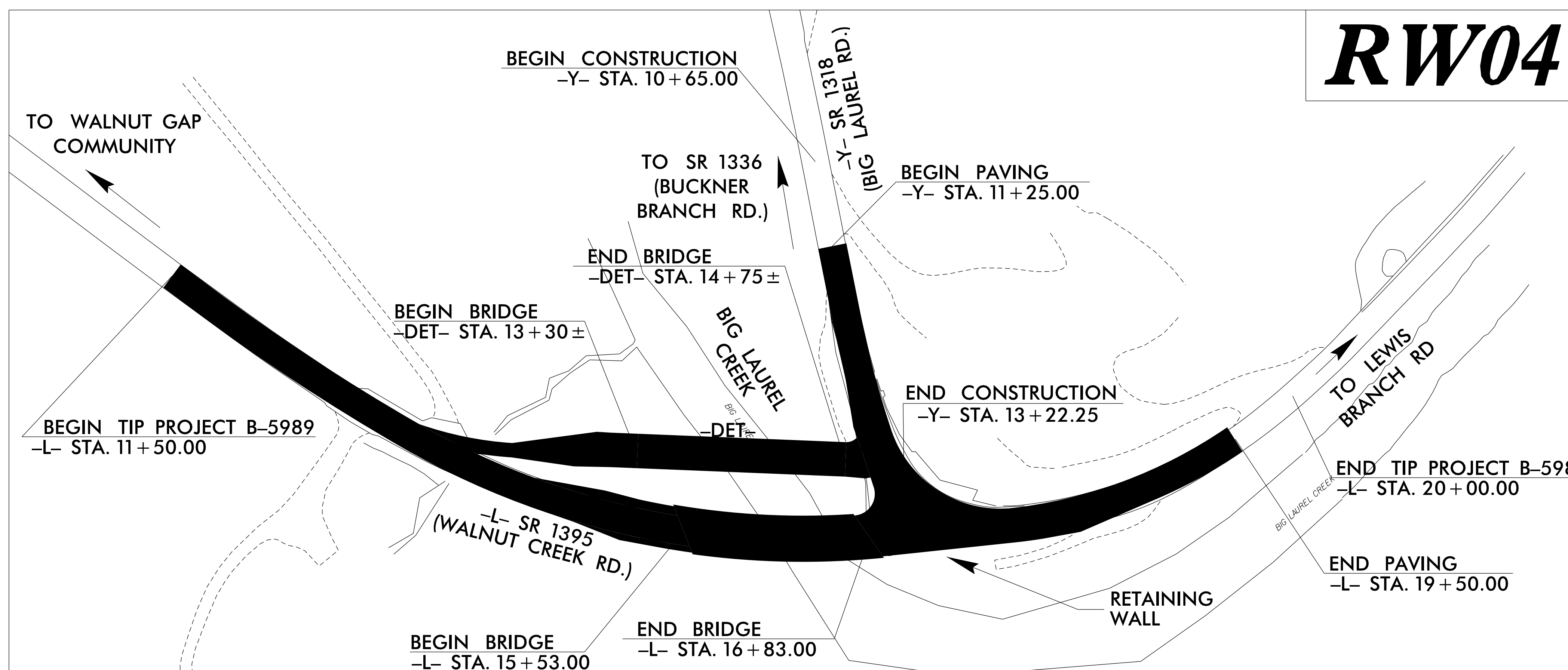
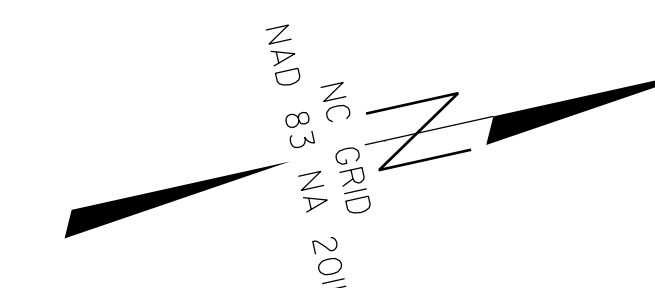


09/06/99

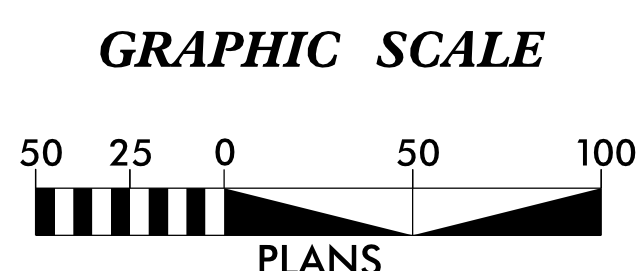
TIP PROJECT: B-5989

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	47845.1.1	RW01	06

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 SURVEY CONTROL, EXISTING CENTERLINES,
 RIGHT OF WAY, EASEMENTS AND PROPERTY TIES
MADISON COUNTY



RW04



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B5989-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 806,257.8790(ft) EASTING: 919,837.3190(ft) ELEVATION: 2,048.22(ft)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99984541
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B5989-1" TO -L- STATION 11+50.00 IS S 32-34'49.2" W X 561.19(ft)
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

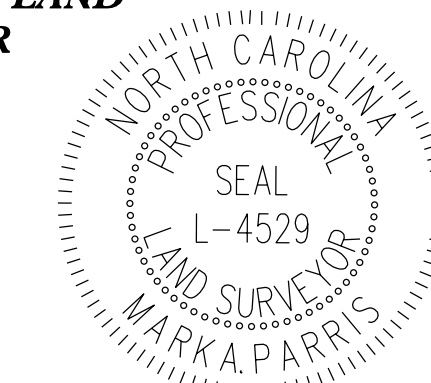
V&M
Vaughn & Melton
 1318-F Patton Avenue
 Asheville, NC 28806
 Firm License # F-1088

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MARCH 20, 2020

LETTING DATE:
JANUARY 18, 2022

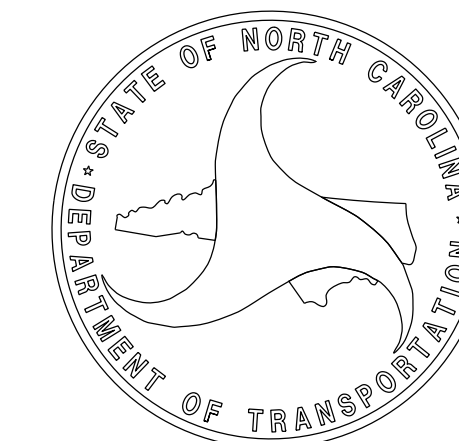
PROFESSIONAL LAND SURVEYOR



DocuSigned by:
SIGNATURE:

3/14/2022

Date:



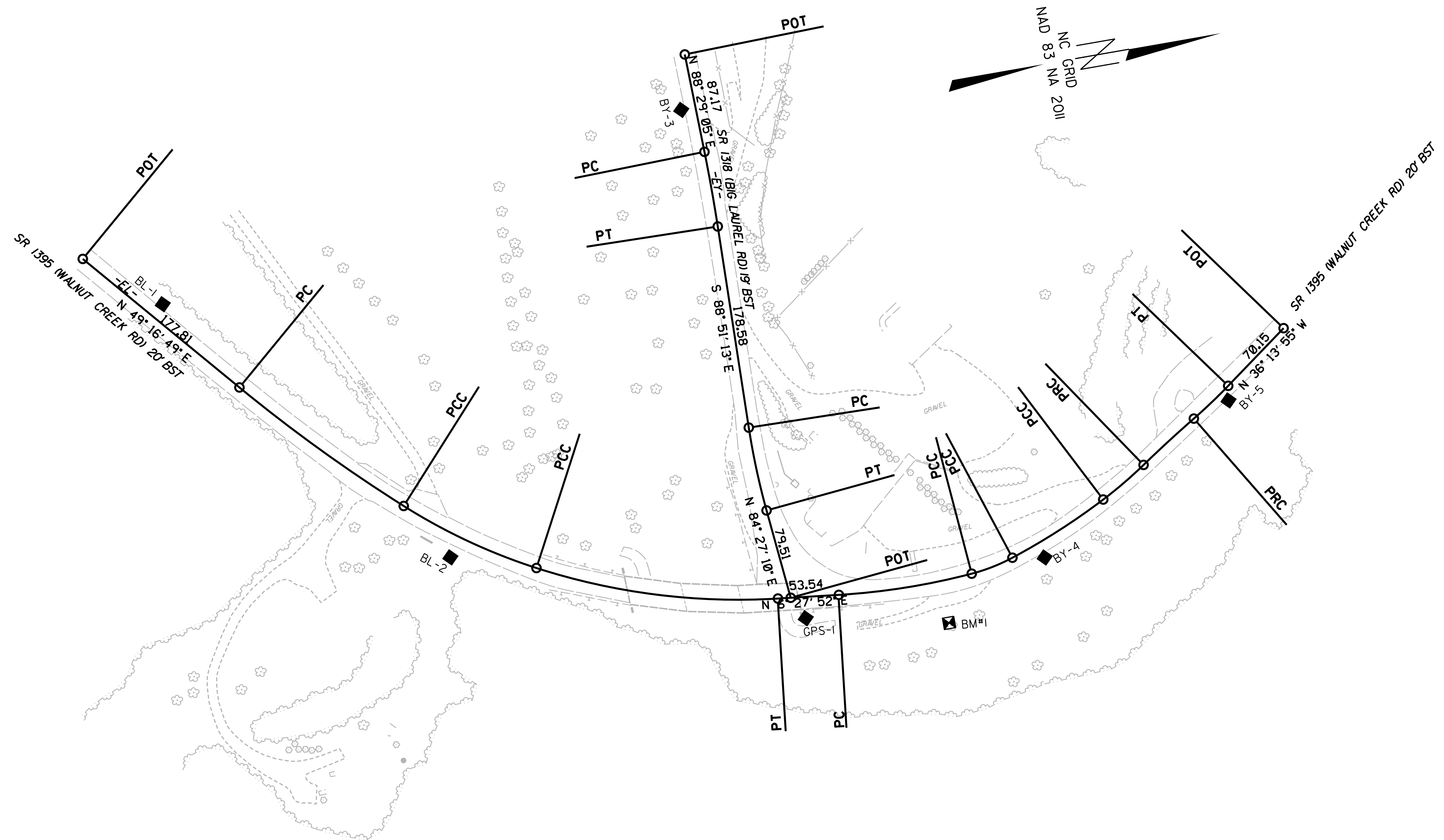
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\$\$\$\$\$ DDN \$\$\$\$\$\$
\$\$\$\$\$ USERNAME \$\$\$\$\$\$

6/2/09

PROJECT REFERENCE NO.	SHEET NO.
B-5989	RW02C-1
Location and Surveys	
GEL SOLUTIONS	

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



**SEE SHEET
RW02C-2 FOR FUTURE
ALIGNMENT DETAILS**

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.

18-OCT-2018 09:44:09 \\fs099\1\5989_1s.fs.dwg
User: jasonrev
Title: RW02C-1

SURVEY CONTROL SHEET

PROJECT REFERENCE NO. B-5989	SHEET NO. RW02C-2
Location and Surveys	



W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL POINT	DESC.	NORTH	EAST	ELEVATION
1	BL - 1	805749.3590	919472.3380	2072.38
2	BL - 2	805959.5600	919735.1780	2052.78
GPS1	GPS - 1	806257.8790	919837.3190	2048.22

 BM1 ELEVATION = 2048.34
 N 806381 E 919867
 BL STATION 11+52.00
 N 13+31'53.0" E DIST 126.62
 RR SPIKE IN THE BASE OF A 12" WHITE ASH

BY POINT	DESC.	NORTH	EAST	ELEVATION
3	BY - 3	806226.9950	919383.2690	2042.39
BYGPS1	GPS - 1	806257.8790	919837.3190	2048.22
4	BY - 4	806473.4820	919824.7740	2046.95
5	BY - 5	806656.1330	919716.8050	2044.88

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	805687.145	919421.442							
LINE			N 49°16'48.6" E	177.81					
PC	805803.142	919556.207							
CURVE			N 45°43'21.6" E	177.76	07°06'54.2*(LT)	04°00'00.0"	177.88	89.05	1432.39
PCC	805927.243	919683.479							
CURVE			N 34°58'03.7" E	128.57	14°23'41.4*(LT)	11°10'00.0"	128.91	64.80	513.10
PCC	806032.604	919757.164							
CURVE			N 17°07'02.5" E	213.61	21°18'21.0*(LT)	09°55'00.0"	214.85	108.68	577.77
PT	806236.754	919820.037							
LINE			N 06°27'51.9" E	53.54					
PC	806289.956	919826.065							
CURVE			N 00°50'53.0" E	118.05	11°13'57.7*(LT)	09°30'00.0"	118.24	59.31	603.11
PCC	806407.993	919827.812							
CURVE			N 11°30'00.4" W	38.38	13°27'49.2*(LT)	35°00'00.0"	38.47	19.32	163.70
PCC	806445.601	919820.161							
CURVE			N 22°43'55.0" W	94.64	09°00'00.0*(LT)	09°30'00.0"	94.74	47.47	603.11
PCC	806532.889	919783.590							
CURVE			N 30°43'55.0" W	46.64	07°00'00.0*(LT)	15°00'00.0"	46.67	23.36	381.97
PCC	806572.978	919759.757							
CURVE			N 32°43'55.0" W	59.99	03°00'00.0*(RT)	05°00'00.0"	60.00	30.01	1145.92
PCC	806623.444	919727.318							
CURVE			N 33°43'55.0" W	41.65	05°00'00.0*(LT)	12°00'00.0"	41.67	20.85	477.46
PT	806658.085	919704.188							
LINE			N 36°13'55.0" W	70.15					
POT	806714.669	919662.726							

EY POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	806238.406	919335.654							
LINE			N 88°29'04.6" E	87.17					
PC	806240.711	919422.793							
CURVE			N 89°48'56.0" E	66.54	02°39'42.8*(RT)	04°00'00.0"	66.55	33.28	1432.39
PT	806240.925	919489.334							
LINE			S 88°51'12.6" E	178.58					
PC	806237.352	919667.881							
CURVE			N 87°47'58.7" E	74.33	06°41'37.3*(LT)	09°00'00.0"	74.37	37.23	636.62
PT	806240.206	919742.159							
LINE			N 84°27'10.0" E	79.51					
POT	806247.892	919821.299							



NOTES:

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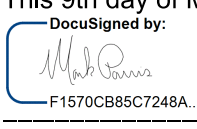
REVISIONS

6/2/99

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. 47845.1.1	SHEET NO. RW02D-1
Location and Surveys	
	
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 9th day of March, 2022.

 F1570C885C748A
 Professional Land Surveyor L-4529

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	805687.1450	919421.4420
PC	11+77.66	805803.0405	919556.0887
PCC	13+48.62	805922.0159	919678.7209
PT	16+94.09	806231.3431	919819.4238
PC	17+80.43	806317.1284	919829.1438
PCC	19+49.25	806482.6900	919806.5819
PT	20+04.48	806532.8894	919783.5900

Y

TYPE	STATION	NORTH	EAST
POT	10+00.00	806240.9255	919489.3341
PC	11+78.39	806237.3562	919667.6836
PT	12+53.15	806240.2253	919742.3553
POT	13+32.47	806247.8923	919821.2989

REVISIONS

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 V:\NCS\Survey\71 ROW Staking\Survey\Data - Work\FW02D-1.dgn
 Jegerdon
 03/09/2022 09:49
 1503FY-47

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. 47845.1.1	SHEET NO. RW03E-1
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Location and Surveys



PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ROW MARKER IRON PIN AND CAP - E

ALIGN	STATION	OFFSET	NORTH	EAST
L	13+50.00	-17.50	805934.8163	919666.7106
L	13+50.00	17.50	805911.2563	919692.5935
L	14+00.00	-30.00	805979.5866	919687.6563
L	14+00.00	30.00	805943.3929	919735.5104
L	15+00.00	-30.00	806059.7488	919737.5389
L	15+00.00	30.00	806032.8046	919791.1486
L	15+53.17	-38.48	806108.7451	919750.0041
L	15+62.19	37.50	806090.3508	919824.2660
L	17+49.07	20.00	806283.7147	919845.4858
L	17+80.43	20.00	806314.8767	919849.0167
L	19+49.25	14.00	806487.9311	919819.5639
L	19+49.25	20.00	806490.1772	919825.1276

ROW MARKER PERMANENT EASEMENT - E

ALIGN	STATION	OFFSET	NORTH	EAST
L	12+80.00	27.50	805853.0032	919650.5904
L	12+80.00	17.50	805860.0950	919643.5464
L	13+50.00	27.50	805904.5248	919699.9887
L	15+00.00	-50.00	806068.7302	919719.6689
L	18+00.00	-15.26	806337.4708	919815.5467

ROW MARKER PERMANENT EASEMENT - E

ALIGN	STATION	OFFSET	NORTH	EAST
Y	12+25.00	52.00	806186.1934	919717.0275
Y	12+25.00	30.00	806208.1627	919715.8658
Y	12+55.00	52.00	806188.6472	919749.2188
Y	13+00.00	-30.00	806274.6131	919786.0814

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 3/03/22 to 3/04/22, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 9th day of March, 2022.

 Professional Land Surveyor L-4529

REVISIONS

10-MAR-2022 10:02 AM V:\NCS\Survey\71 ROW Staking\Survey\Date - Work\RW03E-1.dgn
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 Jegerdon

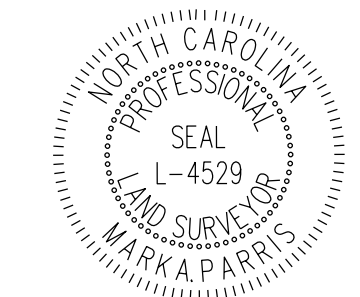
NOTES:

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 3/03/22 TO 3/04/22 .

Location and Surveys



PROJECT SURVEYOR

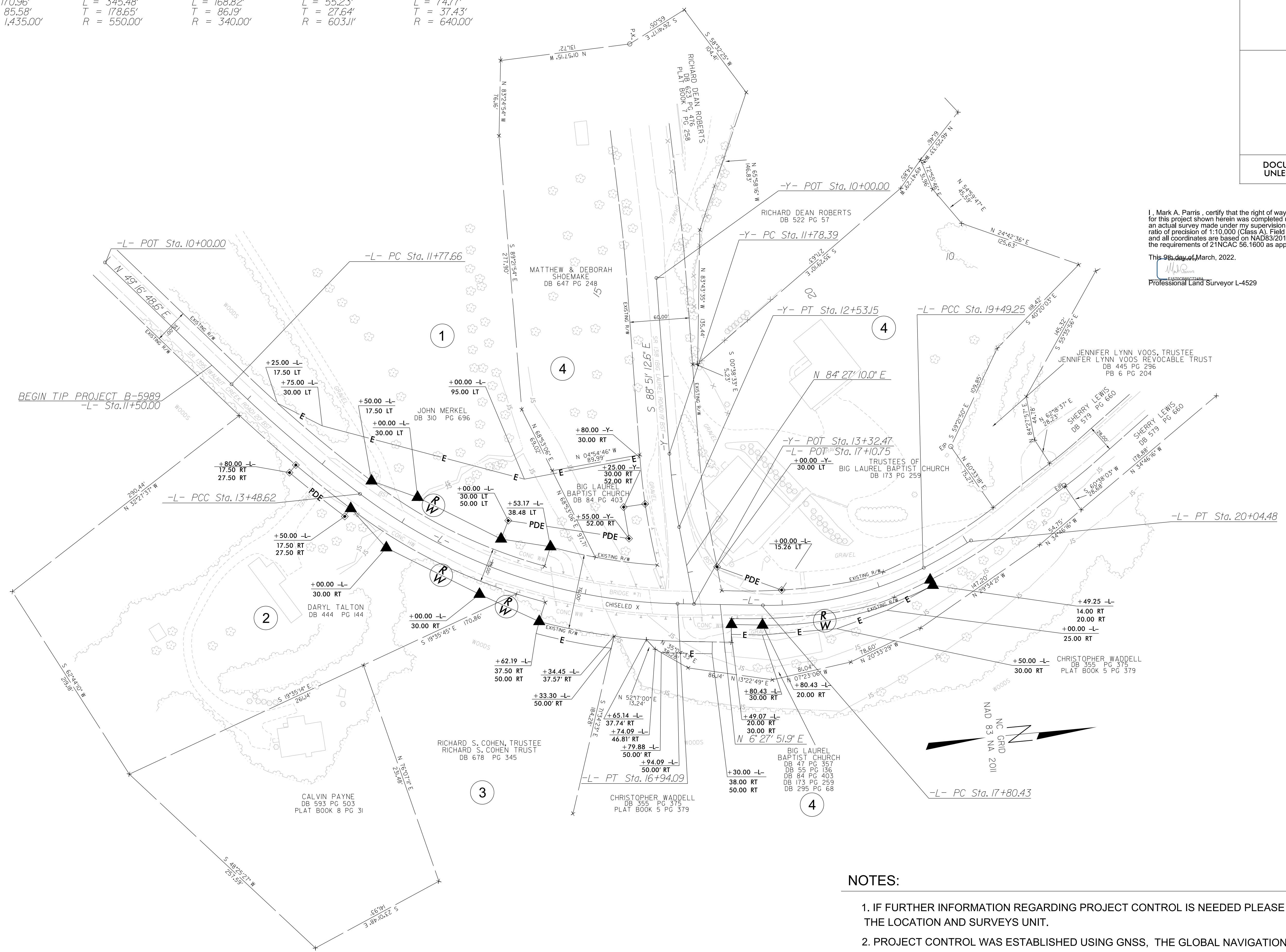


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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This 9th day of March, 2022. Professional Land Surveyor L-4529

-L-				-Y-			
PI Sta 12+63.24	PI Sta 15+27.27	PI Sta 18+66.62	PI Sta 19+76.89	PI Sta 12+15.81			
$\Delta = 6^{\circ} 49' 34.0''$ (LT)	$\Delta = 35^{\circ} 59' 22.8''$ (LT)	$\Delta = 28^{\circ} 26' 57.0''$ (LT)	$\Delta = 5^{\circ} 14' 49.8''$ (LT)	$\Delta = 6^{\circ} 41' 37.3''$ (LT)			
D = 3' 59' 33.9"	D = 10' 25' 02.7"	D = 16' 51' 06.1"	D = 9' 30' 00.0"	D = 8' 57' 08.9"			
L = 170.96'	L = 345.48'	L = 168.82'	L = 55.23'	L = 74.77'			
T = 85.58'	T = 178.65'	T = 86.19'	T = 27.64'	T = 37.43'			
R = 1,435.00'	R = 550.00'	R = 340.00'	R = 603.11'	R = 640.00'			



REVISIONS

28-NOV-2022 15:09 V:\NCS\502212-03_Bridge 71 ROW Staking\Survey\row sheets\To_Send\B5989_1s_RW04.dgn

- NOTES:
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