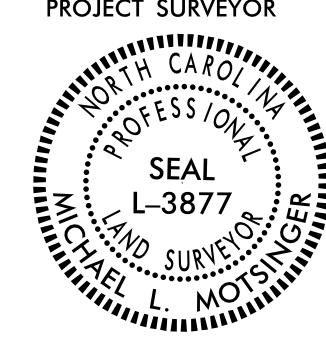


SURVEY CONTROL SHEET

BASELINE TEXT AND BENCHMARKS

PROJECT REFERENCE NO.	SHEET NO.
BR-0114	RW02C-2
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
3		BL -3	831283.4750	1405116.6130	1126.53
4		BL -4	831577.0780	1405438.3510	1104.36
1		BR0114-1	831985.2450	1405618.3370	1091.88
2		BR0114-2	832608.8070	1405714.9410	1126.30

.....
 BM1 ELEVATION = 1127.27
 N 831467 E 1405230
 RR SPIKE SET IN BASE OF 24" WHITE OAK

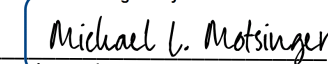
 BM2 ELEVATION = 1090.59
 N 831970 E 1405696
 RR SPIKE SET IN BASE OF 14" POPLAR

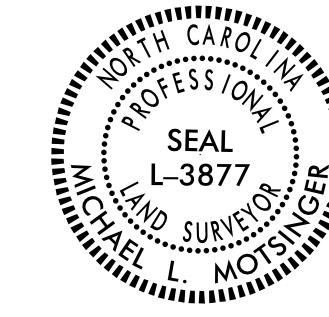
I, Michael L. Motsinger, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA
 Type of GPS field procedure: OPUS
 Dates of survey: February 2019
 Datum: NAD 83 / NA 2011
 Localized around: BR0114-1
 Northing: 831,985.2450
 Easting: 1,405,618.3370
 Combined grid factor: 0.999915166
 Geoid model: 12NC
 Units: English

"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 from November 2018 to February 2019, 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 31st day of March, 2020.

DocuSigned by:

 Michael L. Motsinger
 Professional Land Surveyor L-3877



REVISIONS

3-MAR-2020 13:20 S:\Units\Div\03\Winston\Rushs Computer\Bridge\BR-0114\Right of Way Staking\survey control sheets\tobechecked\BR-0114_L.S.-rw02c-2.dgn AT LS-312635 mmotsinger

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	831312.841	1405150.639							
CURVE			N 38°36'04.4" E	82.55	17°14'53.4"(RT)	20°48'51.8"	82.87	41.75	275.27
PT	831377.357	1405202.144							
LINE			N 47°13'31.1" E	2.01					
PC	831378.725	1405203.622							
CURVE			N 48°36'29.1" E	24.13	02°45'55.9"(RT)	11°27'33.0"	24.13	12.07	500.00
PT	831394.681	1405221.726							
LINE			N 49°59'27.0" E	6.04					
PC	831398.565	1405226.354							
CURVE			N 52°25'25.9" E	66.22	04°51'57.8"(RT)	07°20'44.2"	66.24	33.14	780.00
PT	831438.950	1405278.839							
LINE			N 54°51'24.8" E	35.16					
PC	831459.190	1405307.592							
CURVE			N 51°25'47.2" E	59.28	06°51'15.2"(LT)	11°33'23.3"	59.31	29.69	495.79
PT	831496.147	1405353.937							
LINE			N 48°00'09.6" E	5.36					
PC	831499.732	1405357.919							
CURVE			N 45°08'54.9" E	19.92	05°42'29.4"(LT)	28°38'52.4"	19.93	9.97	200.00
PT	831513.779	1405372.039							
LINE			N 42°17'40.2" E	0.74					
PC	831514.328	1405372.538							
CURVE			N 36°33'15.2" E	123.30	11°28'50.0"(LT)	09°17'45.0"	123.50	61.96	616.36
PT	831613.371	1405445.971							
LINE			N 30°48'50.2" E	32.11					
PC	831640.945	1405462.417							
CURVE			N 27°13'05.2" E	93.95	07°11'30.0"(LT)	07°38'58.3"	94.01	47.07	749.01
PT	831724.495	1405505.390							
LINE			N 23°37'20.2" E	26.57					
PC	831748.840	1405516.037							
CURVE			N 21°10'04.7" E	68.52	04°54'31.0"(LT)	07°09'43.1"	68.54	34.29	800.00
PT	831812.733	1405540.778							
LINE			N 18°42'49.2" E	223.54					
PC	832024.453	1405612.498							
CURVE			N 14°26'03.4" E	119.94	08°33'31.6"(LT)	07°07'45.0"	120.05	60.14	803.68
PT	832140.608	1405642.396							
LINE			N 10°09'17.6" E	34.85					
PC	832174.908	1405648.539							
CURVE			N 07°20'36.4" E	88.29	05°37'22.4"(LT)	06°21'58.3"	88.32	44.20	900.00
PT	832262.472	1405659.824							
LINE			N 04°31'55.2" E	68.27					
PC	832330.530	1405665.218							
CURVE			N 09°23'43.2" E	118.69	09°43'36.0"(RT)	08°11'06.4"	118.83	59.56	700.00
PT	832447.629	1405684.594							
LINE			N 14°15'31.2" E	13.74					
PC	832460.943	1405687.978							
CURVE			N 17°27'00.6" E	55.67	06°22'58.8"(RT)	11°27'33.0"	55.70	27.88	500.00
PT	832514.054	1405704.673							

EY POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	832529.983	1405792.001							
CURVE			N 63°49'52.2" W	194.69	41°56'05.1"(RT)	21°03'41.5"	199.11	104.25	272.04
PT	832615.846	1405617.266							

PROPOSED ALIGNMENTS

		L	
TYPE	STATION	NORTH	EAST
POT	10+00.00	831438.9501	1405278.8394
PC	10+42.06	831463.1612	1405313.2317
PCC	11+63.86	831547.2389	1405400.7013
PT	14+57.53	831805.2435	1405538.2414
PC	16+00.38	832016.3133	1405609.7407
PT	19+27.90	832258.1363	1405659.4803
POT	19+97.15	832327.1652	1405664.9518

		DWY	
TYPE	STATION	NORTH	EAST
POT	10+00.00	831854.6328	1405554.9719
POT	10+59.60	831894.5836	1405510.7494

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.