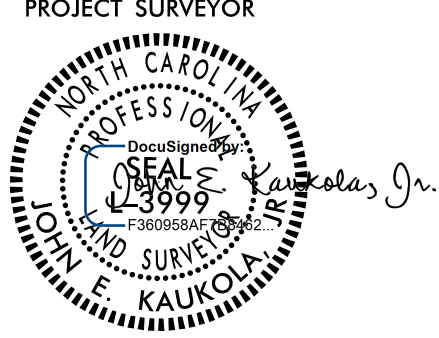


SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U-5798A	SHEET NO. RW02C-5
Location and Surveys	
DIVISION OF HIGHWAYS LOCATION AND SURVEYS DIVISION 6 FIELD OFFICE	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EL2 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	454482.318	1980563.287	N 33°16'58.6" E	196.53					
LINE	454646.610	1980671.136	N 35°09'29.1" E	196.33	03°45'01.0" (RT)	01°54'35.5"	196.36	98.22	3000.00
PCC	454807.122	1980784.109	N 44°55'17.4" E	247.84	15°46'35.6" (RT)	06°21'58.3"	247.82	124.70	900.00
LINE	454982.042	1980958.630	N 52°48'35.2" E	417.41					
PC	455234.362	1981291.155	N 53°51'35.6" E	27.49	02°06'00.8" (RT)	07°38'22.0"	27.49	13.75	750.00
CURVE	455250.565	1981313.356	N 54°54'36.0" E	22.64					
LINE	455263.581	1981331.883	N 53°54'19.0" E	26.30	02°00'34.1" (L)	07°38'22.0"	26.30	13.15	750.00
PT	455279.077	1981353.136	N 52°54'01.9" E	430.53					
LINE	455338.775	1981696.526	N 53°17'42.7" E	68.88	00°47'21.6" (RT)	01°08'45.3"	68.88	34.44	5000.00
CURVE	455579.946	1981751.751	N 53°41'23.5" E	194.50					
LINE	455696.121	1981908.484	N 47°17'22.3" E	318.82	12°48'02.4" (L)	04°00'24.1"	319.48	160.41	1430.00
PCC	455911.373	1982142.749	N 38°52'02.6" E	77.62	04°02'37.1" (L)	05°12'31.3"	77.63	38.83	1100.00
CURVE	455971.805	1982191.454	N 36°50'44.0" E	84.89					
LINE	456039.737	1982242.359	N 35°04'19.2" E	68.09	03°32'49.6" (L)	05°12'31.3"	68.10	34.06	1100.00
PT	456095.463	1982281.483	N 33°17'54.4" E	53.36					
LINE	456140.063	1982310.777	N 32°06'39.1" E	20.73	02°22'30.6" (L)	11°27'33.0"	20.73	10.37	500.00
CURVE	456157.618	1982321.794	N 30°55'23.9" E	137.95					
LINE	456275.958	1982392.685	N 26°40'13.3" E	111.24	08°30'21.1" (L)	07°38'22.0"	111.34	55.77	750.00
PCC	456375.362	1982442.616	N 18°40'35.9" E	65.24	07°28'53.8" (L)	11°27'33.0"	65.29	32.69	500.00
CURVE	456437.169	1982463.508	N 11°38'26.9" E	126.45	06°35'24.2" (L)	05°12'31.3"	126.52	63.33	1100.00
LINE	456561.019	1982489.023	N 08°20'44.8" E	201.95					
PT	456608.835	1982518.336	N 07°59'51.5" E	12.15	00°41'46.6" (L)	05°43'46.5"	12.15	6.08	1000.00
LINE	456772.869	1982520.027	N 07°38'58.2" E	109.83					
CURVE	456881.723	1982534.646	N 09°39'15.8" E	69.97	04°00'35.1" (RT)	05°43'46.5"	69.98	35.01	1000.00
LINE	456950.701	1982546.381	N 11°39'33.3" E	40.96					
PC	456990.817	1982554.658	N 24°08'33.2" E	237.77	24°57'59.8" (RT)	10°25'02.7"	239.66	121.76	550.00
CURVE	457207.790	1982651.909	N 36°37'33.1" E	275.76					
LINE	457429.099	1982816.422	N 35°48'19.1" E	28.64	01°38'28.0" (L)	05°43'46.5"	28.64	14.32	1000.00
PCC	457452.327	1982833.178	N 34°59'05.2" E	56.17					
LINE	457498.349	1982865.395	N 31°45'05.8" E	228.98	06°27'58.8" (L)	02°49'20.8"	229.10	114.67	2030.00
CURVE	457893.061	1982985.884	N 28°31'06.4" E	33.40					
LINE	457722.404	1983001.828	N 23°53'02.5" E	137.36	09°16'07.7" (L)	06°44'26.4"	137.51	68.90	850.00
PT	457847.997	1983057.441	N 19°14'58.7" E	20.48					
LINE	457867.328	1983064.192	N 16°28'45.5" E	87.00	05°32'26.3" (L)	06°21'58.3"	87.03	43.55	900.00
CURVE	457950.753	1983088.871	N 13°42'32.4" E	400.65					
LINE	458239.988	1983183.821	N 11°01'01.0" E	190.67	05°23'01.2" (L)	02°49'20.8"	190.74	95.44	2030.00
PCC	458527.148	1983220.259	N 08°56'08.8" E	21.31	01°13'15.3" (RT)	05°43'46.5"	21.31	10.65	1000.00
CURVE	458548.198	1983223.569	N 09°05'11.8" E	74.60	00°55'09.3" (L)	01°13'55.8"	74.60	37.30	4650.00
LINE	458621.865	1983235.351	N 08°37'37.2" E	287.70					
PC	458986.306	1983278.506	N 13°21'05.1" E	280.04	09°26'55.9" (RT)	03°22'13.2"	280.35	140.50	1700.00
CURVE	459178.773	1983343.172	N 18°04'33.1" E	534.07					
LINE	459886.483	1983508.881	N 21°41'34.1" E	195.57	07°14'02.0" (RT)	03°41'47.4"	195.70	97.98	1550.00
PT	459868.198	1983581.167	N 25°18'35.1" E	332.73					
LINE	460168.984	1983723.411	N 24°28'48.1" E	28.96	01°39'33.9" (L)	05°43'46.5"	28.96	14.48	1000.00
CURVE	460195.342	1983735.412	N 23°39'01.1" E	100.47					
LINE	460287.372	1983775.715	N 12°08'07.3" E	155.70	23°01'47.6" (L)	14°19'26.2"	160.78	81.49	400.00
PCC	460443.502	1983809.287	N 09°50'14.6" W	74.23	12°54'56.3" (L)	17°21'44.5"	74.39	37.35	330.00
CURVE	460517.349	1983801.738	N 12°17'42.8" W	67.18					
LINE	460582.990	1983787.431	N 14°44'17.5" W	42.63	04°53'09.4" (L)	11°27'33.0"	42.64	21.33	500.00
PC	460624.213	1983776.587	N 17°10'52.2" W	65.51					
CURVE	460686.800	1983757.236	N 17°53'44.0" W	24.94	01°25'43.6" (L)	05°43'46.5"	24.94	12.47	1000.00
LINE	460710.530	1983749.573	N 18°36'35.8" W	150.95					
PC	460853.585	1983701.402	N 12°54'59.5" E	94.25	11°23'12.7" (RT)	12°03'44.2"	94.40	47.36	475.00
PCC	460945.446	1983680.336	N 04°19'14.5" E	150.09	23°05'15.3" (RT)	15°16'43.9"	151.11	76.59	375.00
CURVE	461095.107	1983691.643	N 15°51'52.2" E	338.06					
LINE	461420.295	1983784.057	N 15°18'53.9" E	19.18	01°05'56.5" (L)	05°43'46.5"	19.18	9.59	1000.00
PC	461438.795	1983789.124	N 14°45'55.7" E	46.44					
LINE	461483.706	1983800.961	N 06°58'55.4" E	243.77	15°34'00.5" (L)	06°21'58.3"	244.52	123.02	900.00
CURVE	461725.670	1983830.593	N 00°48'04.9" W	495.07					
LINE	462220.694	1983823.669	N 08°16'14.5" E	144.05	14°08'38.0" (RT)	09°47'38.9"	144.41	72.58	585.00
PCC	462363.880	1983839.403	N 16°58'19.9" E	41.78	07°15'32.0" (RT)	17°21'44.5"	41.81	20.93	330.00
CURVE	462483.841	1983851.599	N 22°08'07.4" E	107.06	03°04'02.9" (RT)	02°51'53.2"	107.07	53.55	2000.00
LINE	462503.012	1983891.939	N 23°40'08.8" E	1128.42					
PC	463536.512	1984344.950	N 25°40'52.3" E	175.55	04°01'26.9" (RT)	02°17'30.6"	175.59	87.83	2500.00
CURVE	463694.721	1984421.027	N 27°41'35.7" E	163.38					
LINE	463839.382	1984496.954	N 26°06'52.9" E	55.10	03°09'25.6" (L)	05°43'46.5"	55.10	27.56	1000.00
PCC	463888.852	1984521.205	N 26°57'49.4" E	84.71	04°51'10.6" (RT)	05°43'46.5"	84.74	42.39	1000.00
CURVE	463964.357	1984559.616	N 29°23'28.7" E	108.83					
LINE	464059.178	1984613.026	N 29°46'52.6" E	68.06	00°46'47.9" (RT)	01°08'45.3"	68.06	34.03	5000.00
PT	464118.253	1984646.833	N 30°01'16.5" E	558.55					
LINE	464601.131	1984927.550	N 31°51'32.4" E	64.80	03°22'31.8" (RT)	05°12'31.3"	64.80	32.41	1100.00
CURVE	464656.165	1984961.752	N 26°38'02.9" E	240.71	13°49'30.9" (L)	05°43'46.5"	241.30	121.24	1000.00
LINE	464871.334	1985069.660	N 19°43'17.4" E	29.90					
PC	464899.476	1985079.749	N 15°14'03.7" E	93.80	08°58'27.5" (L)	09°32'57.5"	93.90	47.09	600.00
CURVE	464990.060	1985104.418	N 10°44'49.9" E	208.48					
LINE	465194.883	1985143.295							

EY92 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	459831.916	1982032.475							
LINE	459884.654	1983199.234	S 57°21'43.5" E	1385.54					
PCC	459902.451	1983464.518	S 55°31'04.2" E	321.83	03°41'18.7" (RT)	01°08'45.3"	321.88	161.00	5000.00
LINE	459979.766	1984719.388	S 53°40'24.8" E	1557.58					

EY93 POINT	N	E	BEARING	DIST
POT	461180.429	1983198.347		
LINE	461187.492	1983717.897	N 89°13'16.2" E	519.60

EY94 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	464887.007	1984496.716	S 66°22'41.6" E	156.43	05°46'43.2" (L)	03°41'33.2"	156.60	78.31	1551.66
CURVE	464824.326	1984648.038	S 68°17'46.3" E	16.95	01°56'33.8" (RT)	11°27'33.0"	16.95	8.48	500.00
PCC	464818.057	1984655.789	S 69°41'49.4" E	165.56	04°44'46.0" (L)	02°51'53.2"	165.61	82.85	2000.00
CURVE	464760.609	1984811.067	S 72°04'09.4" E	75.31					
LINE	464737.424	1984882.716	S 75°51'35.6" E	330.55	07°34'52.4" (L)	02°17'30.6"	330.79	165.64	2500.00
PC	464656.672	1985203.253	S 79°21'19.2" E	41.21	00°36'25.2" (RT)	01°25'56.6"	41.21	20.61	4000.00
CURVE	464649.059	1985243.757	S 81°21'39.7" E	120.44	04°36'06.3" (L)	03°49'11.0"	120.47	60.27	1500.00
LINE	464630.966	1985362.831	S 83°39'42.8" E	44.31					
PC	464626.077	1985406.869	N 86°32'53.1" E	986.22	19°34'48.3" (L)	01°58'32.6"	991.04	500.40	2900.00
CURVE	464685.458	1986391.301	N 76°45'28.9" E	482.01					
LINE	464796.051	1986861.269							

I, John E. Kaukola, Jr., 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: RTN
 Dates of survey: July 1, 2017
 Datum/Epoch: NAD83/NA2011
 Published/Fixed-control use: N/A
 Localized around: U-5756-6
 Northing: 458178.679
 Easting: 1977104.085
 Combined grid factor: 0.99988174
 Geoid model: G12NC
 Units: US Survey Feet

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 07/01/2017 to 09/06/2017, 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 28 day of October, 2021.

DocuSigned by:
 John E. Kaukola, Jr.
 Professional Land Surveyor L-3999



NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS