



SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

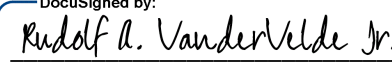
PROJECT REFERENCE NO. BR-0086	SHEET NO. RW02C-2
Location and Surveys	
 WithersRavenel Engineers Planners Surveyors	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Rudolf A. VanderVelde Jr., PLS, certify that the Project Control was (performed/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: (Static, OPUS, RTN)
 Dates of survey: March 3, 2020
 Datum/Epoch: NAD83/NA 2011
 Published/Fixed-control used: (Control Utilized)
 Localized around: BR0086-2
 Northing: 630468.8787
 Easting: 2187221.8656
 Combined grid factor: 0.99987986 (ground to grid)
 Geoid model: NAVD 88/GEOID G12NC
 Units: 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 3-9-2020 to 3-12-2020, 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 9th day of April, 2020.

DocuSigned by:

 Rudolf A. VanderVelde Jr.
 Professional Land Surveyor L-5146
 4/9/2020

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		BR0086-1	630080.8707	2186708.4022	140.65
2		BR0086-2	630468.8787	2187221.8656	126.44
101		BL-101	630712.9890	2187550.0340	128.27
102		BL-102	630955.4320	2187873.2950	128.90
3		BR0086-3	631300.8922	2188335.4051	130.40
4		BR0086-4	631655.2946	2188803.5343	133.66

 BM1 ELEVATION = 143.65
 N 629974 E 2186711
 BL STATION 5+00.00
 S 01°29'28.8" E DIST 106.77
 RR SPIKE IN BASE OF 12" PINE

 BM2 ELEVATION = 124.49
 N 630964 E 2187992
 BL STATION 20+57.00 64 RIGHT
 RR SPIKE IN BASE OF 14" POPLAR

EL	POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC		630209.079	2186911.823							
CURVE				N 53°02'01.9" E	281.08	00°12'49.5"(RT)	00°04'33.8"	281.08	140.54	75342.48
PT		630378.107	2187136.406							
LINE				N 53°08'26.7" E	1730.32					
POT		631416.042	2188520.855							

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.

REVISIONS

Location\Geomatics\NCDDT\Submittal\br-0086-1s-rw02c-2.dgn

09-APR-2020 12:14
 K:\1815-0030\190095-26-BR-0086-Br-ridge 500070
 r.vandervelde
 AT WRT701