

REVISIONS

02-MAR-2023 10:08  
C:\Users\rvanderVelde\OneDrive\Drawings\br0153\_1s-rw02c-3.dgn  
rvanderVelde AT WRI963

SURVEY CONTROL SHEET  
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.  
BR-0153

SHEET NO.  
RW02C-3

Location and Surveys

WithersRavenel

Engineers | Planners | Surveyors

PROJECT SURVEYOR

Seal of the State of North Carolina  
Professional Land Surveyor  
RUDOLF A. VANDERVELDE  
L-5146

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

I, RUDOLF A. VANDERVELDE JR., PLS, certify that the Project Control was PERFORMED 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: 2/8/2023 - 2/24/2023  
Datum/Epoch: NAD 83/2011  
Published/Fixed-control use: N/A  
Localized around: PANEL 4  
Northing: 875,735.4738  
Easting: 2,541,603.7887  
Combined grid factor: 0.9999960535  
Geoid model: G12BNC  
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 2/8/2023 to 2/24/2023, 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 2ND day of MARCH, 2023.  
DocuSigned by:  
*Rudolf A. VanderVelde Jr.* 3/2/2023  
2c2037956801d436.....  
Professional Land Surveyor L-5146

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		BR0153-1	873721.7294	2541146.4355	69.25
2		BR0153-2	874524.9189	2541294.3096	65.41
5		BL-5	875054.4330	2541393.8410	62.34
6		BL-6	875518.5690	2541516.4250	58.66
7		BL-7	876006.0130	2541749.4850	57.40
8		BL-8	876433.3330	2541985.2540	55.45
9		BL-9	876886.0780	2542235.2050	59.29
3		BR0153-3	877375.8220	2542508.4835	63.72
4		BR0153-4	878123.3285	2542927.9432	65.84

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BM1 ELEVATION = 52.05  
N 875904 E 2541913  
BL STATION 28+54.00 192 RIGHT  
RRS IN BASE OF 29" MAPLE  
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BM2 ELEVATION = 53.66  
N 876218 E 2541655  
BL STATION 30+15.00 185 LEFT  
RRS IN BASE OF 17" MAPLE  
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EL	POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
POT		874565.846	2541277.638											
LINE				N 10°26'51.3" E	451.95									
TS		875010.300	2541359.593											
SPIRAL				N 11°41'51.2" E	299.94									
SC		875304.014	2541420.405								03°45'00.0"(RT)	300.00	200.04	100.04
CURVE				N 19°41'51.4" E	439.32	11°00'00.0"(RT)	02°30'00.0"	440.00	220.68	2291.83				
CS		875717.631	2541568.481											
SPIRAL				N 27°41'51.5" E	299.94						03°45'00.0"(RT)	300.00	200.04	100.04
ST		875983.204	2541707.897											
LINE				S 61°03'10.8" E	34.00									
POT		875966.748	2541737.648											
LINE				N 28°56'51.4" E	1424.57									
POT		877213.339	2542427.155											

- 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.