

SURVEY CONTROL SHEET R-5516

BASELINES

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
GPS1	NCDOT GPS R-551		439013.3270	2614631.3920	28.32	155+85.81	84.23 RT
2	BL-2		438414.7000	2614656.4290	28.89	149+86.67	80.82 RT
GPS2	NCDOT GPS R-551		437866.0980	2614684.3570	27.89	144+37.36	82.68 RT
4	BL-4		437078.4560	2614722.0490	27.10	136+48.81	82.94 RT
5	BL-5		436476.0640	2614772.6280	19.29	130+37.55	83.79 RT
6	BL-6		435824.0710	2614885.7880	11.96	123+67.50	81.80 RT
7	BL-7		435361.7460	2615008.7430	20.12	118+83.24	82.43 RT
8	BL-8		434721.9300	2615234.3920	27.66	111+96.46	79.35 RT
9	BL-9		434210.0730	2615439.2540	27.34	106+41.13	50.57 RT
GPS3	NCDOT GPS R-551		433698.3770	2615559.4700	26.95	101+29.52	70.01 LT
11	BL-11		433166.1290	2615823.5150	26.89	95+35.37	71.01 LT
GPS4	NCDOT GPS R-551		432622.2970	2616091.9730	26.68	89+28.89	73.22 LT
13	BL-13		432119.4890	2616514.7930	27.65	82+90.30	81.02 RT
14	BL-14		431153.8830	2616838.1060	26.26	72+87.61	81.83 LT
15	BL-15		430326.7160	2617331.8000	28.45	63+24.32	85.33 LT
16	BL-16		429613.3890	2617765.9540	26.52	54+89.27	81.15 LT
GPS5	NCDOT GPS R-551		428784.6190	2618260.6650	26.75	45+24.09	84.61 LT
18	BL-18		428303.1800	2618559.1660	25.69	39+57.67	77.09 LT
GPS6	NCDOT GPS R-551		427851.1630	2618821.2100	25.47		OUTSIDE PROJECT LIMITS

BY	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
20	BY-20		435141.5290	2614615.3340	24.03	117+91.15	358.54 LT
21	BY-21		434728.6070	2614739.9490	27.43	113+82.03	377.39 LT
22	BY-22		434003.0170	2615107.6580	28.34	106+03.67	338.57 LT
23	BY-23		433276.7400	2615439.3910	28.65	98+05.67	365.50 LT
24	BY-24		432495.1350	2615811.1700	26.18	89+40.29	381.26 LT
25	BY-25		431702.2950	2616225.8650	27.72	80+45.72	363.62 LT
26	BY-26		430845.4970	2616595.5220	26.36	71+48.47	448.69 LT
27	BY-27		430113.9410	2616949.0500	28.14	63+39.37	522.99 LT
28	BY-28		429304.6000	2617310.7860	28.17	54+59.39	630.36 LT
29	BY-29		428542.9380	2617728.0080	26.26	45+91.66	665.62 LT
30	BY-30		428096.5990	2617889.2320	26.42	41+26.10	757.62 LT

BY1	POINT	DESC.	NORTH	EAST	ELEVATION	Y11A STATION	OFFSET
31	BY1-31		436369.5340	2616969.1850	27.07	22+15.09	792.35 LT
32	BY1-32		435658.7800	2616572.0730	25.39	20+27.84	18.37 LT
33	BY1-33		435565.9250	2615968.0670	24.05	14+19.22	20.69 RT
34	BY1-34		435516.3010	2615282.9960	17.86		OUTSIDE PROJECT LIMITS
EQBY1	BL-7		435361.7460	2615008.7430	20.14		OUTSIDE PROJECT LIMITS

BY2	POINT	DESC.	NORTH	EAST	ELEVATION	Y11A STATION	OFFSET
35	BY2-35		435192.1980	2617673.0010	26.04		OUTSIDE PROJECT LIMITS
36	BY2-36		435393.1600	2617220.7950	26.13	27+28.61	15.22 RT
EQBY2	BY1-32		435658.7800	2616572.0730	25.40	20+27.84	18.37 LT

BY3	POINT	DESC.	NORTH	EAST	ELEVATION	Y10A STATION	OFFSET
37	BY3-37		434854.3720	2616723.7150	26.92	28+62.99	271.21 RT
38	BY3-38		434824.2080	2615837.4760	28.00	21+27.38	29.26 LT
EQBY3	BL-8		434721.9300	2615234.3920	27.67	15+18.18	38.37 RT

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS-3"

WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
 NORTHING: 433698.377(ft) EASTING: 2615559.470(ft)
 ELEVATION: 26.971(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99989341

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-3" TO -L- STATION 60+00.00 IS
 S 29°10'15.3" E 4129.26'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

BY4	POINT	DESC.	NORTH	EAST	ELEVATION	LRB STATION	OFFSET
39	BY4-39		431777.4340	2617505.9830	28.57	20+46.72	282.07 LT
40	BY4-40		431750.5830	2617002.9870	26.39	14+48.30	250.18 LT
EQBY4	BL-13		432119.4890	2616514.7930	27.65		OUTSIDE PROJECT LIMITS

BY5	POINT	DESC.	NORTH	EAST	ELEVATION	YWB01 STATION	OFFSET
53	BY5-53		431806.3400	2621033.0730	27.41	54+00.04	47.37 RT
46	BY5-46		431830.9920	2619839.2490	25.89	42+14.20	92.70 LT
41	BY5-41		431647.2890	2619100.5680	23.65	34+61.21	18.65 RT
42	BY5-42		431584.1300	2618084.5520	26.72	24+44.29	18.43 LT
43	BY5-43		431423.6250	2617413.6460	27.31	17+60.94	58.30 RT
EQBY5	BL-14		431153.8830	2616838.1060	26.26		OUTSIDE PROJECT LIMITS

BY7	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
44	BY7-44		429312.2640	2618997.4560	26.47	45+96.27	818.75 RT
45	BY7-45		428764.4790	2618552.3270	26.91	43+56.44	154.90 RT
EQBY7	NCDOT GPS R-551		428784.6190	2618260.6650	26.75	45+24.09	84.61 LT

BY9	POINT	DESC.	NORTH	EAST	ELEVATION	Y09A STATION	OFFSET
EQBY9	BY3-37		434854.3720	2616723.7150	26.92	11+81.59	180.86 LT
47	BY9-47		434571.5760	2616701.7330	31.97	14+24.32	131.40 LT
48	BY9-48		434288.3190	2616677.9210	19.79	17+05.55	89.99 LT
49	BY9-49		434016.4690	2616672.1800	23.13	19+76.51	67.33 LT
50	BY9-50		433736.0700	2616694.1940	26.32	22+58.10	71.84 LT
51	BY9-51		433475.9990	2616769.7150	27.02	25+64.84	5.71 LT
52	BY9-52		433362.4570	2617075.1290	27.15		OUTSIDE PROJECT LIMITS

BENCHMARKS

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*****
BM1 ELEVATION = 28.22
N 438757 E 2614689
L STATION 153+27.00 129 RIGHT
RR SPIKE IN PP HV48
*****
BM2 ELEVATION = 28.06
N 437093 E 2614767
L STATION 136+61.00 129 RIGHT
NAIL IN PP
*****
BM3 ELEVATION = 11.68
N 435787 E 2614949
L STATION 123+16.00 135 RIGHT
RR SPIKE IN LP 10KE08
*****
BM4 ELEVATION = 29.33
N 434776 E 2614992
L STATION 113+37.00 125 LEFT
RR SPIKE IN PP
*****
BM5 ELEVATION = 28.01
N 435733 E 2616707
Y10A STATION 36+11.00 2 RIGHT
RR SPIKE IN 15' PINE
*****
BM6 ELEVATION = 28.23
N 433000 E 2616052
L STATION 93+56.00 95 RIGHT
RR SPIKE IN 32' PINE
*****
*****
BM7 ELEVATION = 26.55
N 433566 E 2617074
Y09A STATION 10+00.00
S 24°16'46.86" E DIST 1521.05
PK NAIL OVER 30" RCP
*****
BM9 ELEVATION = 29.30
N 429575 E 2617731
L STATION 54+75.00 131 LEFT
RR SPIKE IN PP
*****
BM10 ELEVATION = 26.33
N 431707 E 2618542
YWB01 STATION 29+11.00 95 LEFT
RR SPIKE IN H-POLE
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NOTES:

- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION/](https://connect.ncdot.gov/resources/location/)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
 R-5516_LS_CONTROL_150421.TXT

SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

- ⊙ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
 PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.
 NETWORK ESTABLISHED FROM NCGS REAL TIME NETWORK