

SURVEY CONTROL SHEET U-2579C

PROJECT REFERENCE NO.	SHEET NO.
U-2579C	IC-3
Location and Surveys	

BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
37	BL-37	878917.1490	1648253.6740	1004.53	366+30.66	307.74 RT
50	BY1A-50	878877.1310	1648520.6380	1009.97	368+56.21	159.43 RT
36	BL-36	878845.8860	1648742.7370	1013.20	370+42.50	34.52 RT
35	BL-35	878592.6930	1649050.4260	970.60	374+40.62	17.83 RT
34	BL-34	878364.6610	1649334.0440	961.33	378+04.02	1.55 LT
33	BL-33	877991.2850	1649757.2490	967.34	383+68.44	2.23 LT
32	BL-32	877789.2050	1649997.6060	945.92	386+82.51	2.51 LT
31	BL-31	877549.7810	1650280.2380	964.77	390+52.79	6.25 RT
30	BL-30	877276.3020	1650640.8900	956.39	395+05.27	3.86 RT
29	BL-29	877101.7870	1650879.2810	921.27	398+00.65	4.05 RT
28	BL-28	876970.5180	1651143.7410	957.29	400+92.79	40.84 LT
27	BL-27	876697.9310	1651728.7930	968.29	407+34.60	136.59 LT
26	BL-26	875730.0290	1653086.7730	964.02	424+00.70	5.50 RT
25	BL-25	875529.8050	1653613.7140	945.69	429+64.60	4.53 LT
24	BL-24	875379.5380	1654081.8010	935.64	434+55.28	17.37 RT
23	BL-23	875240.6970	1654505.3650	905.03	438+91.24	84.70 RT
22	BL-22	875236.2960	1655339.7950	953.42	447+18.18	48.07 RT
21	BL-21	875116.2950	1656388.3120	942.90	457+90.24	59.70 RT
20	BL-20	874788.3130	1657221.9250	918.98	467+00.09	19.98 RT
13	U2579B BL-13	874480.5920	1657767.3060	859.16	473+26.06	0.07 LT

BY3 POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
70	BY3-70	879257.5980	1649739.9840	998.06	375+10.63	937.52 LT
71	BY3-71	879095.5770	1648953.3960	1006.80	370+32.82	292.02 LT
50	BY1A-50	878877.1310	1648520.6380	1009.97	368+56.21	159.43 RT

BY4 POINT	DESC.	NORTH	EAST	ELEVATION	Y1 STATION	OFFSET
4	U2579C-4	877945.2760	1652815.2110	977.17	46+98.17	22.68 LT
3	U2579C-3	877222.1690	1652158.2420	977.43	37+29.20	91.65 LT
27	BL-27	876697.9310	1651728.7930	968.29	30+64.62	164.94 LT
1	U2579C-1	876419.2850	1651591.6020	976.94	27+59.85	143.91 LT
80	BY4-80	875566.1010	1651284.1120	965.41	18+67.46	40.44 LT
2	U2579C-2	874594.1930	1650970.2380	962.99		OUTSIDE PROJECT LIMITS

BY4A POINT	DESC.	NORTH	EAST	ELEVATION	Y1 STATION	OFFSET
1	U2579C-1	876419.2850	1651591.6020	976.94	27+59.85	143.91 LT
90	BY4A-90	876546.2760	1651243.2220	974.52	27+04.18	510.20 LT

BY1 POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
40	BY1-40	879382.0370	1649895.8830	993.02	375+43.72	1134.23 LT
41	BY1-41	879373.0890	1649502.9110	993.70	372+56.98	865.37 LT
5	U2579C-5	879097.9650	1648659.9420	1007.59	368+12.64	98.00 LT
37	BL-37	878917.1490	1648253.6740	1004.53	366+30.66	307.74 RT
6	U2579C-6	878599.7570	1647655.7360	997.26	363+97.03	943.11 RT
42	BY1-42	878376.0450	1647114.4820	1005.32	361+42.62	1470.87 RT
43	BY1-43	878324.9540	1646422.9780	1011.12	350+41.95	1919.36 RT

BY4B POINT	DESC.	NORTH	EAST	ELEVATION	Y1 STATION	OFFSET
100	BY4B-100	874514.7520	1651289.2500	955.35		OUTSIDE PROJECT LIMITS
2	U2579C-2	874594.1930	1650970.2380	962.99		OUTSIDE PROJECT LIMITS

BY4C POINT	DESC.	NORTH	EAST	ELEVATION	Y1 STATION	OFFSET
2	U2579C-2	874594.1930	1650970.2380	962.99		OUTSIDE PROJECT LIMITS
110	BY4C-110	874793.3610	1650765.7980	968.70		OUTSIDE PROJECT LIMITS

BY1A POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
50	BY1A-50	878877.1310	1648520.6380	1009.97	368+56.21	159.43 RT
51	BY1A-51	878418.4500	1648514.5350	1017.07	371+57.70	505.17 RT
52	BY1A-52	877822.5750	1648402.6360	1013.17	374+71.92	1023.68 RT

BY5 POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
120	BY5-120	876347.1190	1653206.5820	973.27	422+21.42	600.45 LT
26	BL-26	875730.0290	1653086.7730	964.02	424+00.70	5.50 RT

BY1B POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
51	BY1A-51	878418.4500	1648514.5350	1017.07	371+57.70	505.17 RT
60	BY1B-60	878475.3670	1648039.2490	989.50	367+65.70	779.88 RT

BY6 POINT	DESC.	NORTH	EAST	ELEVATION	Y2 STATION	OFFSET
130	BY6-130	876210.7830	1655471.9540	962.57	30+65.40	15.08 LT
22	BL-22	875236.2960	1655339.7950	953.42	20+81.35	17.53 RT
131	BY6-131	874279.7050	1655168.5240	952.47	11+09.55	17.36 RT

NOTES:

1. THE SITE CALIBRATION SHOWN IS BASED UPON A NETWORK TIED TO THE HARN (HIGH ACCURACY REFERENCE NETWORK) NAD 83/95 ADJUSTMENT. THIS CALIBRATION WILL ALLOW THE END USER TO WORK WITHIN THE SAME COORDINATE SYSTEM WHEN USING RTK (REAL TIME KINEMATIC) GPS AND A LOCAL BASE STATION. IF ANOTHER SYSTEM SUCH AS VRS (VIRTUAL REFERENCE STATION) IS USED, ADDITIONAL FIELD TIES MAY BE NEEDED TO REDUCE POSSIBLE ERRORS, OR BIASES.

2. 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:
 U2579C_LS_GPSCALIB.HTML
 U2579C_LS_WGS84.TXT
 U2579C_LS_LOCAL.TXT
 U2579C_LS_CONTROL.TXT

THE WGS84 AND LOCAL FILES ARE COMMA DELIMITED AND CAN BE USED TO REPRODUCE THE SITE CALIBRATION FOR THE END USER'S GPS EQUIPMENT. 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 EXISTING HARN MONUMENTATION. SEE GPS CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES.

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 BM1 ELEVATION = 999.15
 N 878792 E 1649815
 L STATION 378+78.00 640 LEFT
 RAILROAD SPIKE SET IN BASE OF 30' WHITE OAK TREE. 100' WEST OF WESTERN EDGE OF PAVEMENT OF WILLISTON RD.

.....
 BM2 ELEVATION = 985.60
 N 877996 E 1652824
 Y1 STATION 47+42.00 50 LEFT
 RAILROAD SPIKE SET IN BASE OF 36' OAK TREE. IN FRONT OF 4386 NEW WALKERTOWN RD. 40' WEST OF WESTERN EDGE OF PAVEMENT. 60' NORTH OF U2579C-4.

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 BM3 ELEVATION = 957.76
 N 876348 E 1655376
 Y2 STATION 31+99.00 120 LEFT
 RAILROAD SPIKE SET IN BASE OF 30' OAK TREE BEHIND OAK GROVE MORAVIAN CHURCH CEMETARY.

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "U2579C-1" WITH NAD 83/95 STATE PLANE GRID COORDINATES OF
 NORTHING: 876419.285(++) EASTING: 1651591.602(++)
 ELEVATION: 976.94(++)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99995453
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U2579C-1" TO -L- STATION 390+00.00 IS
 N 49°00'53.54" 3884.0262'
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

07-AUG-2017 15:05
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