

SURVEY CONTROL SHEET R-2237B

CONTROL DATA

BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
2	R2237B-2	840587.1150	1233497.8110	1391.98	OUTSIDE PROJECT LIMITS	
201	BL-1	841985.5630	1232738.2240	1449.51	21+84.00	19.30 RT
202	BL-2	842579.4280	1232368.7350	1496.38	29+45.82	38.95 LT
203	BL-3	843192.7050	1232362.4360	1535.61	35+48.08	34.78 LT
204	ASC-49	843980.2620	1232576.2460	1599.52	43+56.39	33.57 LT
205	BL-5	844478.6350	1233211.0990	1654.22	51+59.34	1.38 LT
206	BL-6	844734.3500	1233536.3800	1688.57	55+64.28	42.09 RT
207	BL-7	845207.0910	1233638.5880	1724.17	60+35.40	22.53 RT
208	BL-8	846003.8650	1233352.4670	1785.74	68+75.85	67.22 LT
209	BL-9	846752.2960	1233189.5590	1821.10	76+40.88	29.60 LT
4	R2237B-4	847466.9010	1233095.5740	1855.38	83+59.70	31.17 RT
210	BL-10	848502.1050	1232674.8700	1921.15	94+76.59	0.86 RT
211	BL-11	849228.2180	1232266.5290	1987.56	103+10.07	2.56 RT
212	BL-12	849836.6000	1231743.0510	2044.88	111+11.97	25.30 RT
213	BL-13	850226.4200	1231344.5840	2048.05	116+69.41	27.37 RT
214	BL-14	850817.1510	1230689.3620	2033.24	125+51.00	5.30 LT
215	BL-15	851482.8530	1230002.4370	2057.31	135+07.57	6.27 LT
216	ASC-40	852262.9270	1229251.7900	2134.19	145+67.80	81.22 RT
217	BL-17	852489.6980	1228853.1120	2169.48	149+39.64	227.89 RT
218	ASC-38	852489.6980	1228104.9980	2187.96	157+39.75	40.85 RT
219	BL-19	852722.4920	1227794.8520	2195.47	161+95.72	5.44 RT
5	R2237B-5	853070.1550	1227632.9030	2202.84	165+78.20	33.79 RT
220	BL-20	853910.6810	1227061.2250	2266.27	175+95.88	27.65 LT
221	BL-21	854426.5210	1226898.4130	2307.49	181+34.66	38.59 RT
222	BL-22	854817.1750	1226516.9020	2350.66	186+75.76	36.73 RT
223	BL-23	855184.2450	1225839.5540	2409.62	194+43.36	21.87 RT
224	BL-24	855545.7310	1225330.6090	2461.11	200+66.92	34.47 LT
225	ASC-32	855958.5370	1224920.3240	2503.47	206+42.87	27.88 LT
226	BL-26	856850.6760	1224618.0500	2543.43	215+86.19	17.00 RT
227	BL-27	857062.4190	1223975.5420	2534.54	222+51.54	60.37 LT
228	BL-28	857739.3620	1223279.3420	2504.59	232+02.63	41.97 LT
8	R2237B-8	858196.2830	1223214.7260	2513.48	236+61.32	24.01 RT
9	R2237B-9	859303.3960	1223362.4750	2543.87	247+79.73	33.34 RT
229	BL-29	860332.3510	1223066.9370	2595.90	258+52.41	21.23 RT
230	BL-30	860668.5140	1222444.8490	2643.98	265+56.10	44.07 RT
231	BL-31	860765.0130	1222097.8950	2665.93	269+17.15	14.06 LT
232	BL-32	861098.1060	1221811.6500	2683.63	273+55.66	5.46 LT
233	BL-33	861974.6190	1221574.0600	2715.02	282+59.43	37.67 RT
10	R2237B-10	863189.1540	1220767.9980	2750.24	297+15.02	36.87 LT
234	ASC-23	863645.2370	1220482.0890	2774.82	302+54.27	37.16 LT
235	BL-35	863963.0210	1220148.3190	2799.96	307+17.52	114.69 LT
236	BL-36	864113.5640	1219882.1840	2799.54	310+04.91	220.76 LT
237	BL-37	864682.8090	1219727.1690	2792.06	315+40.23	8.45 LT
238	BL-38	864976.5350	1219238.9960	2804.29	319+95.75	315.15 LT
239	BL-39	865246.1050	1219274.2030	2809.36	322+18.03	190.90 LT
240	BL-40	865473.5840	1219699.0910	2816.29	323+16.84	281.21 RT
241	BL-41	865917.6840	1219364.2340	2829.89	328+36.14	65.16 RT
242	BL-42	866066.9720	1219058.5330	2851.28	330+63.32	192.18 LT
243	BL-43	866443.8120	1219143.5410	2874.87	333+87.97	53.58 RT
244	BL-44	866843.9240	1218759.2340	2908.77	339+44.97	31.67 RT
14	BR-2	867567.3580	1218313.8210	2964.67	347+99.25	20.48 RT

BY1 POINT	DESC.	NORTH	EAST	ELEVATION	Y1 STATION	OFFSET
402	R2237B-2	840587.1150	1233497.8110	1391.98	OUTSIDE PROJECT LIMITS	
411	BY1-1	841482.0380	1232831.3260	1421.31	OUTSIDE PROJECT LIMITS	

BY2 POINT	DESC.	NORTH	EAST	ELEVATION	Y2 STATION	OFFSET
421	BY2-1	851383.4780	1229415.1260	2070.77	OUTSIDE PROJECT LIMITS	
422	BY2-2	851793.6880	1229299.7970	2108.34	OUTSIDE PROJECT LIMITS	
423	BY2-3	851908.1680	1229611.1270	2093.82	OUTSIDE PROJECT LIMITS	
415	BL-15	851482.8530	1230002.4370	2057.31	OUTSIDE PROJECT LIMITS	

BY3 POINT	DESC.	NORTH	EAST	ELEVATION	Y3 STATION	OFFSET
420	R2237B-10	863189.1540	1220767.9980	2750.24	12+64.07	620.08 LT
431	BY3-1	862448.1280	1221234.1520	2721.60	OUTSIDE PROJECT LIMITS	
432	BY3-2	862768.9790	1221189.7170	2748.78	12+04.27	41.27 LT
433	BY3-3	862992.6350	1221501.6700	2743.67	15+67.92	13.36 RT

BY4 POINT	DESC.	NORTH	EAST	ELEVATION	Y4 STATION	OFFSET
410	R2237B-10	863189.1540	1220767.9980	2750.24	OUTSIDE PROJECT LIMITS	
441	BY4-1	863239.0860	1221034.7830	2752.07	12+84.05	16.66 RT
442	BY4-2	863307.9420	1221365.1820	2748.02	OUTSIDE PROJECT LIMITS	

BY5 POINT	DESC.	NORTH	EAST	ELEVATION	Y5 STATION	OFFSET
523	BL-33	861974.6190	1221574.0600	2715.02	OUTSIDE PROJECT LIMITS	
510	BY5-1	862006.1110	1221774.1306	2748.64	OUTSIDE PROJECT LIMITS	

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 BM1 ELEVATION = 1405.62
 N 841827 E 1232610
 L STATION 21+69 130 LEFT
 RR SPIKE IN BASE OF 8" YELLOW POPLAR

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 BM2 ELEVATION = 1527.56
 N 843183 E 1232335
 L STATION 35+34 60 LEFT
 RR SPIKE IN BASE OF 15" YELLOW POPLAR

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 BM3 ELEVATION = 1708.85
 N 845051 E 1232375
 L STATION 58+75 34 LEFT
 RR SPIKE IN BASE OF 15" YELLOW POPLAR

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 BM4 ELEVATION = 1875.57
 N 847994 E 1232836
 L STATION 89+43 76 LEFT
 RR SPIKE IN BASE OF 27" YELLOW POPLAR

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 BM5 ELEVATION = 2056.44
 N 850122 E 1231535
 L STATION 114+60 85 RIGHT
 RR SPIKE IN BASE OF 19" YELLOW POPLAR

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 BM6 ELEVATION = 2131.94
 N 852343 E 1229250
 L STATION 145+98 154 RIGHT
 RR SPIKE IN BASE OF 20" CHESTNUT

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 BM7 ELEVATION = 2131.94
 N 853653 E 1227109
 L STATION 173+45 57 LEFT
 RR SPIKE IN BASE OF 20" WHITE OAK

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 BM8 ELEVATION = 2441.70
 N 855354 E 1225500
 L STATION 198+13 66 LEFT
 RR SPIKE IN BASE OF 17" BLACK LOCUST

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 BM9 ELEVATION = 2538.13
 N 857044 E 1223984
 L STATION 222+36 72 LEFT
 RR SPIKE IN BASE OF 21" PITCH PINE

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 BM10 ELEVATION = 2526.64
 N 858776 E 1223250
 L STATION 242+41 52 LEFT
 RR SPIKE IN BASE OF 30" YELLOW POPLAR

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 BM11 ELEVATION = 2673.63
 N 860912 E 1221902
 L STATION 271+55 37 LEFT
 RR SPIKE IN BASE OF 29" SUGAR MAPLE

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 BM12 ELEVATION = 2729.57
 N 862960 E 1221010
 L STATION 293+93 49 RIGHT
 RR SPIKE IN BASE OF 21" PITCH PINE

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 BM13 ELEVATION = 2822.47
 N 865645 E 1219746
 L STATION 324+79 370 RIGHT
 RR SPIKE IN BASE OF 30" BUR OAK

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 BM14 ELEVATION = 2908.35
 N 866819 E 1218668
 L STATION 339+71 60 LEFT
 RR SPIKE IN BASE OF 16" BLACK LOCUST

DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R2237B-6"
 WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 854180.257(FT) EASTING: 1226839.328(FT)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 999908500
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R2237B-6" TO L- STATION 9+86.41 IS S 25°54'16" E 14811.13'
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29

NOTES

- THE SITE CALIBRATION SHOWN IS BASED UPON A NETWORK TIED TO THE NAD 83 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 MAYBE NEEDED TO REDUCE POSSIBLE ERRORS, OR BIASES.
- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT [HTTP://WWW.DOH.DOT.STATE.NC.US/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/](http://www.doh.dot.state.nc.us/preconstruct/highway/location/project/)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
 R2237B_LS_GPSCALIB_030101.TXT
 R2237B_LS_WGS84_030101.TXT
 R2237B_LS_LOCAL_030101.TXT
 R2237B_LS_CONTROL_030101.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.