

# SURVEY CONTROL SHEET R-3825B

## BASELINE DATA

## BENCHMARK DATA

BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
1	GPS1	689500.1000	2169863.0260	327.29	OUTSIDE PROJECT LIMITS	
2	GPS2	689785.7150	2170759.3560	320.81	OUTSIDE PROJECT LIMITS	
101	BL-101	690040.7260	2171403.1750	314.64	11-37.07	46.61 LT
102	BL-102	690247.1860	2172055.5410	297.78	18-21.32	44.88 LT
103	BL-103	690388.5300	2172629.5460	264.70	24-11.12	4.94 LT
104	BL-104	690548.7860	2173173.8700	254.35	29-78.40	7.95 RT
105	BL-105	690788.0110	2173953.0260	243.45	37-92.67	16.78 LT
106	BL-106	690897.5860	2174760.6640	206.18	46-05.47	43.42 LT
107	BL-107	690959.0570	2175518.2760	172.48	53-65.57	43.62 LT
108	BL-108	691005.6880	2176113.1710	158.32	59-62.29	42.15 LT
109	BL-109	691072.1490	2176869.5910	157.47	67-21.60	47.42 LT
110	BL-110	691125.6290	2177580.7140	163.86	74-34.93	43.34 LT
111	BL-111	691183.8610	2178210.5960	177.30	80-68.37	25.37 LT
112	BL-112	691230.4470	2178810.8910	193.25	86-69.94	22.41 LT
113	BL-113	691291.4100	2179443.5340	216.41	93-05.52	32.33 LT
114	BL-114	691351.9720	2180046.7440	210.82	99-12.28	38.05 LT
115	BL-115	691405.0350	2180660.7050	179.19	105-28.66	27.56 LT
116	BL-116	691465.5830	2181360.7540	169.33	112-31.21	14.83 LT
117	BL-117	691540.8520	2182013.5020	183.18	118-88.25	21.66 LT
118	BL-118	691612.2170	2182689.9280	202.45	125-68.43	22.15 LT
119	BL-119	691681.4400	2183361.4830	189.10	132-43.54	21.01 LT
120	BL-120	691767.6600	2184231.1810	196.96	141-17.49	16.13 LT
121	BL-121	691839.4430	2184906.3580	216.09	147-96.47	17.17 LT
122	BL-122	691904.8720	2185537.0560	207.68	154-30.55	16.51 LT
3	GPS3	691930.0520	2186093.9400	191.25	159-87.03	16.48 RT
4	GPS4	692081.3550	2187042.9240	171.75	169-47.88	0.80 LT
123	BL-123	692216.3980	2187445.7390	190.31	173-70.29	56.22 LT
124	BL-124	692354.8260	2188154.4770	228.88	180-92.86	15.50 LT
125	BL-125	692482.8800	2188811.9210	258.01	187-62.37	14.03 LT
126	BL-126	692634.8780	2189530.1940	271.77	194-96.46	25.31 LT
127	BL-127	692758.6470	2190197.2180	281.93	201-74.84	18.72 LT
128	BL-128	692899.8770	2190919.6870	297.21	209-10.78	19.90 LT
129	BL-129	693030.1340	2191671.5260	309.07	216-73.45	21.56 LT
130	BL-130	693134.5270	2192218.7280	304.02	222-30.35	35.29 LT
131	BL-131	693235.7000	2192920.4030	291.73	229-39.13	20.64 LT
132	BL-132	693377.7450	2193661.9170	286.08	236-93.88	39.82 LT
133	BL-133	693520.8150	2194476.2410	288.98	245-20.64	48.13 LT
134	BL-134	693569.2280	2195214.2440	290.23	252-56.65	24.50 RT
135	BL-135	693708.4770	2196010.6040	291.07	OUTSIDE PROJECT LIMITS	

BY1 POINT	DESC.	NORTH	EAST	ELEVATION	Y4 STATION	OFFSET
105	BL-105	690788.0110	2173953.0260	243.45	OUTSIDE PROJECT LIMITS	
136	BY1-136	690495.9560	2174217.0920	251.19	13-33.33	14.12 LT
BY2 POINT	DESC.	NORTH	EAST	ELEVATION	Y5 STATION	OFFSET
106	BL-106	690897.5860	2174760.6640	206.18	OUTSIDE PROJECT LIMITS	
137	BY2-137	690795.0410	2175364.9530	199.17	11-28.37	18.57 LT
138	BY2-138	690584.5480	2175505.8200	213.09	OUTSIDE PROJECT LIMITS	
BY3 POINT	DESC.	NORTH	EAST	ELEVATION	Y6 STATION	OFFSET
139	BY3-139	691727.1820	2176892.9890	144.91	10-92.03	27.81 LT
140	BY3-140	691326.4570	2176932.5150	151.19	14-95.87	13.85 LT
109	BL-109	691072.1490	2176869.5910	157.47	17-37.93	86.35 RT
BY4 POINT	DESC.	NORTH	EAST	ELEVATION	Y7 STATION	OFFSET
141	BY4-141	691681.3470	2178237.5670	187.54	12-27.01	44.86 LT
111	BL-111	691183.8610	2178210.5960	177.30	17-11.61	58.53 RT
BY5 POINT	DESC.	NORTH	EAST	ELEVATION	Y9 STATION	OFFSET
142	BY5-142	691951.2520	2179460.0410	237.45	11-28.00	36.57 RT
143	BY5-143	691525.5570	2179541.2330	225.93	15-56.95	50.62 LT
113	BL-113	691291.4100	2179443.5340	216.41	17-76.88	75.88 RT
BY6 POINT	DESC.	NORTH	EAST	ELEVATION	Y10A STATION	OFFSET
144	BY6-144	691519.1820	2180440.3070	194.72	11-50.35	20.78 LT
115	BL-115	691405.0350	2180660.7050	179.19	12-83.94	228.19 LT
BY7 POINT	DESC.	NORTH	EAST	ELEVATION	Y10C STATION	OFFSET
145	BY7-145	691863.4210	2183137.7240	205.39	12-29.82	14.58 LT
146	BY7-146	691683.5610	2183131.4560	195.99	14-06.11	32.21 RT
147	BY7-147	691417.5210	2183170.3770	201.26	OUTSIDE PROJECT LIMITS	
BY8 POINT	DESC.	NORTH	EAST	ELEVATION	Y11A STATION	OFFSET
123	BL-123	692216.3980	2187445.7390	190.31	OUTSIDE PROJECT LIMITS	
148	BY8-148	691979.9840	2187216.2740	181.31	11-32.56	49.31 RT
149	BY8-149	691613.9350	2187352.9560	170.48	15-17.88	21.84 LT
BY9 POINT	DESC.	NORTH	EAST	ELEVATION	Y11C STATION	OFFSET
126	BL-126	692634.8780	2189530.1940	271.77	10-29.06	281.80 LT
150	BY9-150	692262.3680	2189362.9910	281.47	13-11.39	13.18 RT
BY10 POINT	DESC.	NORTH	EAST	ELEVATION	Y12 STATION	OFFSET
151	BY10-151	693115.2170	2189990.4540	258.57	14-88.02	58.54 LT
152	BY10-152	692883.5810	2189377.7500	269.87	18-50.07	207.51 LT
126	BL-126	692634.8780	2189530.1940	271.77	20-74.15	282.16 LT
BY11 POINT	DESC.	NORTH	EAST	ELEVATION	Y12A STATION	OFFSET
153	BY11-153	693726.7240	2192316.7880	313.07	OUTSIDE PROJECT LIMITS	
154	BY11-154	693356.6020	2192108.1060	312.34	10-73.53	44.28 RT
130	BL-130	693134.5270	2192218.7280	304.02	12-96.60	69.38 LT
BY12 POINT	DESC.	NORTH	EAST	ELEVATION	Y13 STATION	OFFSET
6	GPS6	694664.0620	2194124.0370	309.03	12-11.68	47.29 LT
5	GPS5	694025.7130	2194379.2830	301.81	18-98.07	51.09 LT
133	BL-133	693520.8150	2194476.2410	288.98	24-04.79	40.70 RT
155	BY12-155	693044.7010	2194689.7820	289.09	29-22.64	36.88 LT
156	BY12-156	692506.6980	2194805.8470	283.83	34-72.98	15.68 RT

TBM*1	ELEVATION - 320.03	TBM*9	ELEVATION - 175.60
N 689911	E 2171535	N 691919	E 2186774
L STATION 12+23.00	117 RIGHT	L STATION 166+56.00	109 RIGHT
RR SPIKE IN 24' PINE		RR SPIKE IN 15' PINE	
TBM*2	ELEVATION - 262.50	TBM*10	ELEVATION - 258.12
N 690566	E 2173786	N 692343	E 2188907
L STATION 35+00.00	167 RIGHT	L STATION 188+29.00	141 RIGHT
RR SPIKE IN 14' GUM		RR SPIKE IN 15' PINE	
TBM*3	ELEVATION - 177.87	TBM*11	ELEVATION - 316.27
N 690995	E 2175160	N 692755	E 2191016
L STATION 50+11.00	109 LEFT	L STATION 209+80.00	140 RIGHT
RR SPIKE IN 18' OAK		RR SPIKE IN 12' OAK	
TBM*4	ELEVATION - 140.97	TBM*12	ELEVATION - 296.28
N 691147	E 2176708	N 693343	E 2192918
L STATION 65+67.00	135 LEFT	L STATION 229+54.00	127 LEFT
RR SPIKE IN 16' OAK		RR SPIKE IN 14' GUM	
TBM*5	ELEVATION - 180.56	TBM*13	ELEVATION - 304.50
N 691086	E 2178502	N 694712	E 2194304
L STATION 83+50.00	97 RIGHT	L STATION 245+45.00	1252 LEFT
RR SPIKE IN 12' OAK		RR SPIKE IN 24' PINE	
TBM*6	ELEVATION - 171.66	TBM*14	ELEVATION - 280.98
N 691505	E 2180722	N 692297	E 2194971
L STATION 106+00.00	120 LEFT	L STATION 248+09.00	1240 RIGHT
RR SPIKE IN 20' OAK		RR SPIKE IN 14' PINE	
TBM*7	ELEVATION - 196.61	TBM*15	ELEVATION - 293.19
N 691484	E 2182854	N 693674	E 2195888
L STATION 127+18.00	123 RIGHT	OUTSIDE PROJECT LIMITS	
RR SPIKE IN 15' OAK		L STATION 10+00.00	
		N 81+24' 6.78" E DIST	24881.33
TBM*8	ELEVATION - 214.96		RR SPIKE IN 22' PINE
N 691667	E 2185039		
L STATION 149+10.00	168 RIGHT		
RR SPIKE IN 18' PINE			

**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:  
[R3825B\\_LS\\_CONTROL.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.

### DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R3825B-3" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 691930.052(±) EASTING: 2186093.940(±) ELEVATION: 327.29(±) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999889085 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R3825B-3" TO -L- STATION 10+00 IS S82°24'03.79"W 14938.3489 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

**NOTE: DRAWING NOT TO SCALE**