


SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-5930	RW02C-4
Location and Surveys	
NV5 NV5 ENGINEERS & CONSULTANTS, INC. 6750 TRYON ROAD DURHAM, NC 27715 P: 919.851.1912 www.NV5.com NC License # P-1233 Formerly C&A Engineers & Consultants	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
101	BL-101		720756.4790	1955732.5440	478.31
102	BL-102		721268.5690	1955770.2670	513.57
1	R5930-1		721723.5170	1956011.3200	539.76
EOBY1			721889.4791	1956117.4966	UNKNOWN
2	R5930-2		722357.1830	1956416.7170	546.27
103	BL-103		723003.2180	1956669.6370	544.52
104	BL-104		723673.3200	1956399.0540	545.11
105	BL-105		724183.5890	1956219.9480	565.64
106	BL-106		724644.2560	1956059.3490	548.07
107	BL-107		725039.3860	1955974.0860	531.54
108	BL-108		725544.3620	1955769.3810	520.41
109	BL-109		726067.2440	1955654.8270	475.05
110	BL-110		726412.2030	1955734.7840	514.01
111	BL-111		726621.7420	1955771.6800	521.79
112	BL-112		727069.8570	1955923.7330	504.56
113	BL-113		727427.6910	1955982.7090	474.49
114	BL-114		727771.0470	1956054.3590	506.62
115	BL-115		728296.5970	1956028.7930	470.95
116	BL-116		728516.6890	1956101.3450	485.23
117	BL-117		728673.3230	1956158.4040	465.91
118	BL-118		729145.4860	1956272.8850	431.55
119	BL-119		729567.5990	1956369.1000	398.00
120	BL-120		729923.7900	1956489.5410	369.14
121	BL-121		730707.9650	1956407.1620	416.62
122	BL-122		730854.2000	1956134.8680	404.40
123	BL-123		731035.5440	1955844.2050	374.30
124	BL-124		731168.2810	1955528.1540	376.58
125	BL-125		731389.6150	1955014.9600	398.14
126	BL-126		731672.7740	1954492.8580	404.37
127	BL-127		732100.4450	1954064.6320	413.83
128	BL-128		732264.1470	1953957.6370	415.93
129	BL-129		732632.9430	1953748.8450	417.86
130	BL-130		732798.3410	1953554.3060	420.27
131	BL-131		733019.1850	1953225.2410	435.03
132	BL-132		733291.1500	1952938.4140	467.81
5	R5930-5		733603.1130	1952628.8600	471.43
133	BL-133		733710.3250	1951922.9710	460.93
134	BL-134		734005.7310	1951506.6830	452.61
135	BL-135		734116.1540	1950996.7260	451.76
136	BL-136		734357.0610	1950527.3700	458.82

BY5	POINT	DESC.	NORTH	EAST	ELEVATION
220		BY5-220	732165.6100	1951650.5440	450.13
221		BY5-221	732606.5110	1951960.3920	443.26
222		BY5-222	733153.7860	1952303.0800	454.06
A5			733603.1130	1952628.8600	UNKNOWN
6		R5930-6	733829.7670	1953254.0090	468.27
223		BY5-223	734139.7420	1953965.1330	462.61
224		BY5-224	734642.2250	1954420.4020	449.98

BY6	POINT	DESC.	NORTH	EAST	ELEVATION
A223			734139.7420	1953965.1330	UNKNOWN
225		BY6-225	733947.2210	1954134.0190	477.83

BY7	POINT	DESC.	NORTH	EAST	ELEVATION
B5			733603.1130	1952628.8600	UNKNOWN
226		BY7-226	733678.5990	1952460.3250	469.06
227		BY7-227	734035.4450	1952483.6220	463.96

BY8	POINT	DESC.	NORTH	EAST	ELEVATION
A135			734116.1540	1950996.7260	UNKNOWN
228		BY8-228	734372.6230	1950844.8580	462.78

BY9	POINT	DESC.	NORTH	EAST	ELEVATION
A228			734372.6230	1950844.8580	UNKNOWN
229		BY9-229	734584.2290	1951097.4640	458.84

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
201		BY1-201	723552.8080	1954691.7550	550.36
202		BY1-202	723020.5420	1955078.3590	539.96
203		BY1-203	722508.5700	1955538.2250	530.42
204		BY1-204	721955.1490	1956049.0890	519.40
EO0BY1			721889.4791	1956117.4966	UNKNOWN
205		BY1-205	721427.4990	1956598.7360	508.52
206		BY1-206	720951.4050	1957143.7760	492.35
207		BY1-207	720542.1690	1957645.2720	470.32
208		BY1-208	720146.0130	1958126.5820	445.64
209		BY1-209	719682.2280	1958688.8700	416.69

BY2	POINT	DESC.	NORTH	EAST	ELEVATION
210		BY2-210	723509.9430	1954878.9720	565.94
211		BY2-211	723294.9370	1955052.2020	556.60
212		BY2-212	722958.9890	1955325.8060	530.26
213		BY2-213	722652.7810	1955613.0420	520.25
214		BY2-214	722619.1810	1956125.4400	528.72
A2			722357.1830	1956416.7170	UNKNOWN

BY3	POINT	DESC.	NORTH	EAST	ELEVATION
B2			722357.1830	1956416.7170	UNKNOWN
215		BY3-215	722173.1640	1956769.0190	537.66
216		BY3-216	721880.0160	1956862.3840	524.02
217		BY3-217	721471.3100	1956864.7640	506.21
A206			720951.4050	1957143.7760	UNKNOWN

BY4	POINT	DESC.	NORTH	EAST	ELEVATION
A102			721268.5690	1955770.2670	UNKNOWN
218		BY4-218	721067.0280	1956233.3400	503.58
219		BY4-219	721028.7320	1956743.0270	498.65
B206			720951.4050	1957143.7760	UNKNOWN

 BM1 ELEVATION = 470.55
 N 721385 E 1955349
 RRS IN 12" PINE

 BM2 ELEVATION = 419.12
 N 719570 E 1958620
 RRS IN 12" POP

 BM3 ELEVATION = 540.21
 N 722729 E 1956641
 RRS IN 20" OAK

 BM4 ELEVATION = 573.48
 N 723699 E 1954828
 RRS IN 12" GUM

 BM5 ELEVATION = 480.21
 N 725736 E 1955112
 RRS IN 12" PINE

 BM6 ELEVATION = 445.84
 N 728259 E 1955699
 RRS IN 13" OAK

 BM7 ELEVATION = 367.10
 N 730600 E 1955611
 RRS IN 18" OAK

 BM8 ELEVATION = 423.40
 N 732383 E 1954368
 RRS IN 15" PINE

 BM9 ELEVATION = 464.40
 N 733956 E 1952454
 RRS IN 20" OAK

 BM10 ELEVATION = 456.72
 N 734324 E 1950471
 RRS IN 14" PINE

 BM11 ELEVATION = 445.25
 N 732105 E 1951754
 RRS IN 10" POP

I, C. Andrew Heath, 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:

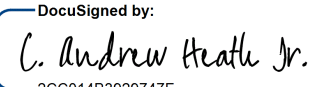
Class of survey: **AA**
 Type of GPS field procedure: RTN
 Dates of survey: 3/01/2020 - 3/09/2020
 Datum/Epoch: nad83 (2011)
 Published/Fixed-control use: N/A
 Localized around: R5930-1
 Northing: 721,723.517
 Easting: 1,956,011.32
 Combined grid factor: 0.999868290
 Geoid model: 12B (Conus)
 Units: US 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 3/11/2020 to 4/22/2020, 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 Sheet was originally submitted to NCDOT on 5/12/2020 without this certification as which was not required or requested at that time. This certification is to the date of original submittal of 5/12/2020.

Witness my hand and seal.

This 14th day of June, 2023.

Digitally signed by:

 Professional Land Surveyor L-3281

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.