

09/08/22

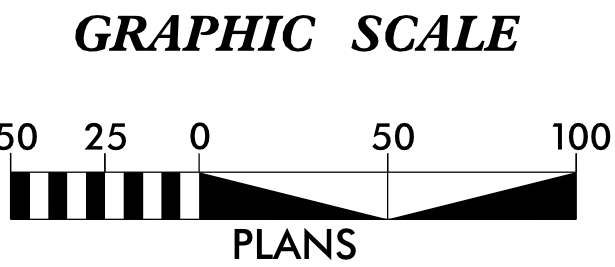
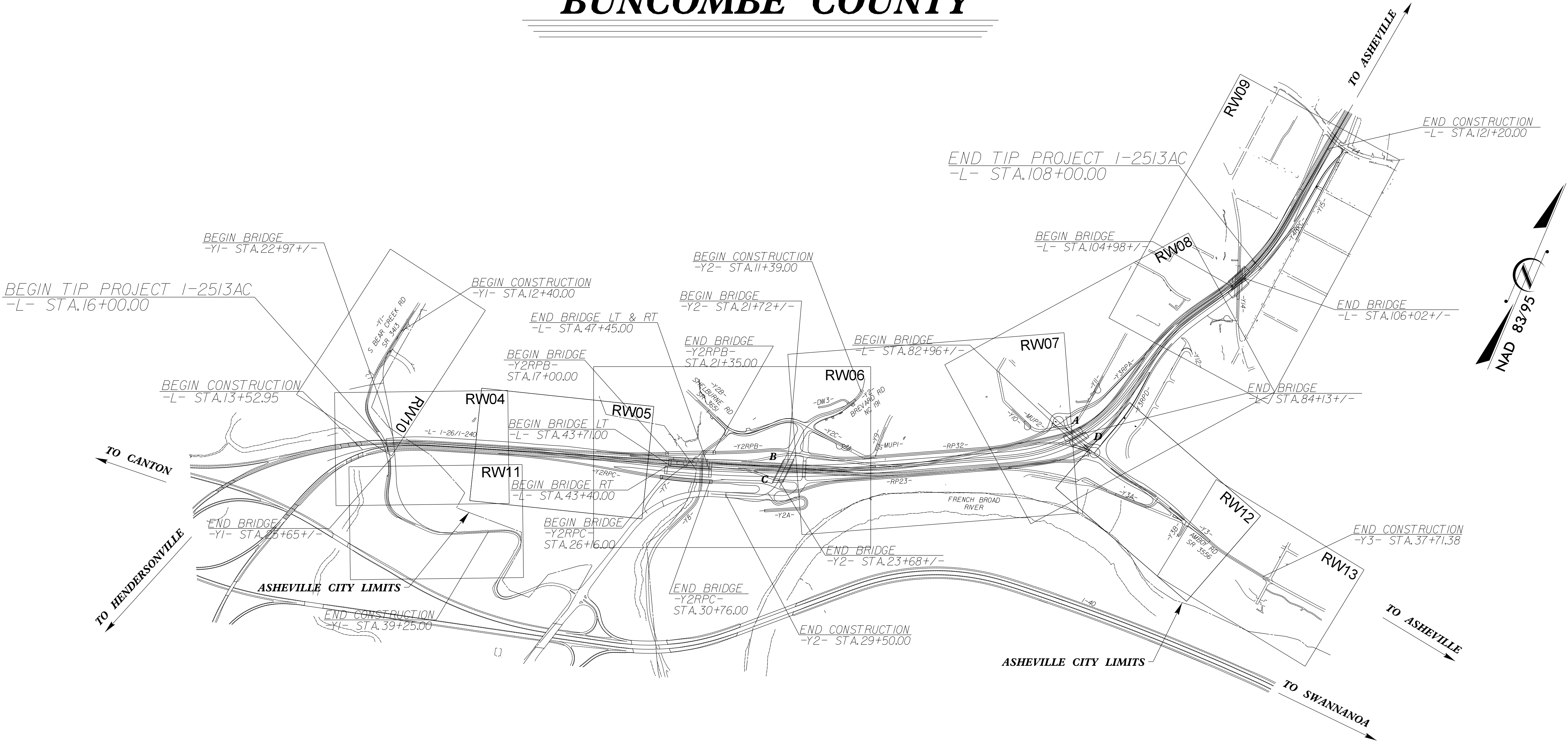
TIP PROJECT: I-2513AC

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-2513AC	RW01	34

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

BUNCOMBE COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 684,834.0870(ft) EASTING: 934,095.9080(ft) ELEVATION: 2,156.81(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO L- STATION 16+00 IS S 44-16°54.5" W 9,332.64(ft)

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

Prepared in the Office of:

V&M

Vaughn & Melton

1318-F Patton Avenue
Asheville, NC 28806
Firm License # F-1088

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
DECEMBER 6, 2022

LETTING DATE:
NOVEMBER 17, 2026

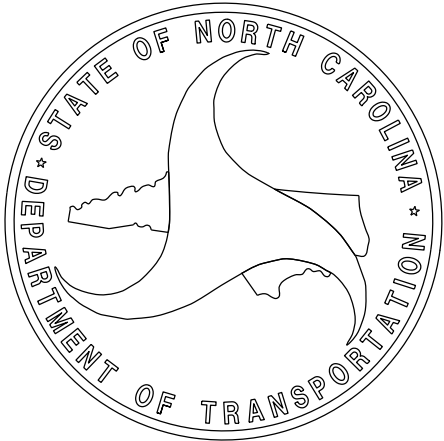
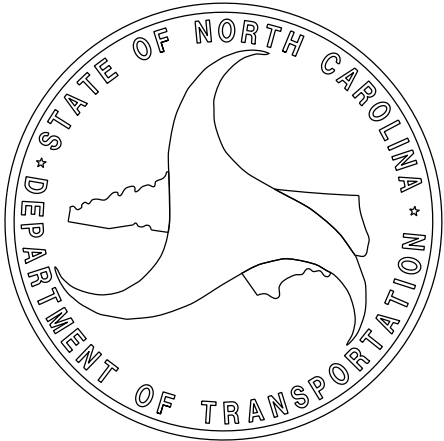
PROFESSIONAL LAND SURVEYOR

Signed by:
Mark A. Parris
F1570CB85C7248A...

7/31/2026 | 5:52:16 AM PDT

SIGNATURE:

Date:



6/2/99

18-APR-2022 09:24
V:\NC\Survey\4032212-17_I-2513a.con.vam2\Survey\Draw - Work\12513AC.1s-RW02C-1.dgn
Jegordon

REVISIONS

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW02C-1

Location and Surveys

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 684834.0870(fft) EASTING: 934095.9080(fft) ELEVATION: 2156.81(fft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO -L- STATION IS

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



**SEE SHEETS RW02C-15 THRU RW02C-19
FOR FURTHER
ALIGNMENT DETAILS**

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. 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.

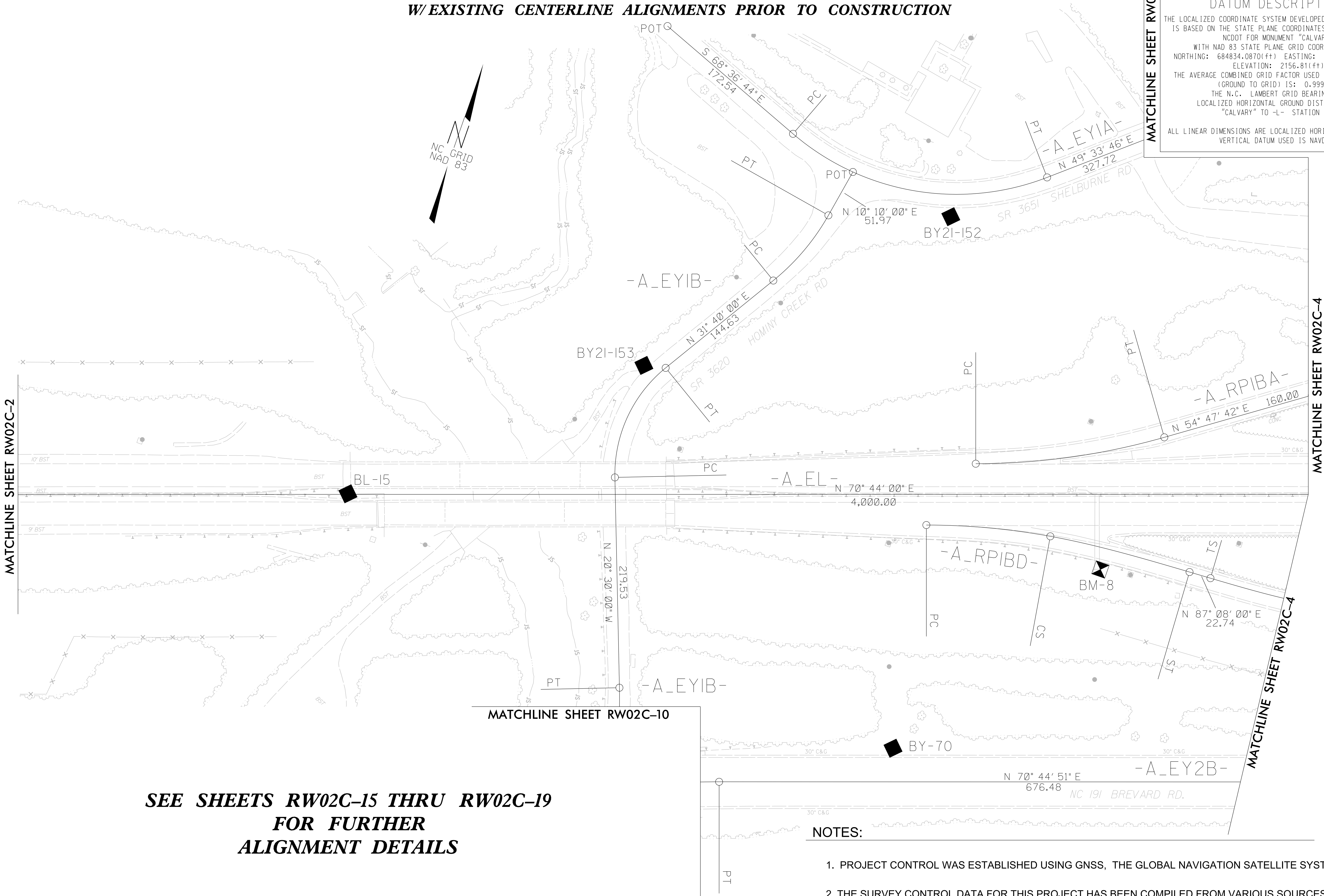
REVISIONS

SURVEY CONTROL SHEET
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW02C-3
Location and Surveys	

MATCHLINE SHEET RW02C-11

DATUM DESCRIPTION
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDDOT FOR MONUMENT "CALVARY"
WITH NAD 83 STATE PLANE GRID COORDINATES OF
NORTHING: 684834.0870(ft) EASTING: 934095.9080(ft)
ELEVATION: 2156.81(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO -L- STATION IS
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88



SEE SHEETS RW02C-15 THRU RW02C-19
FOR FURTHER
ALIGNMENT DETAILS

- 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.

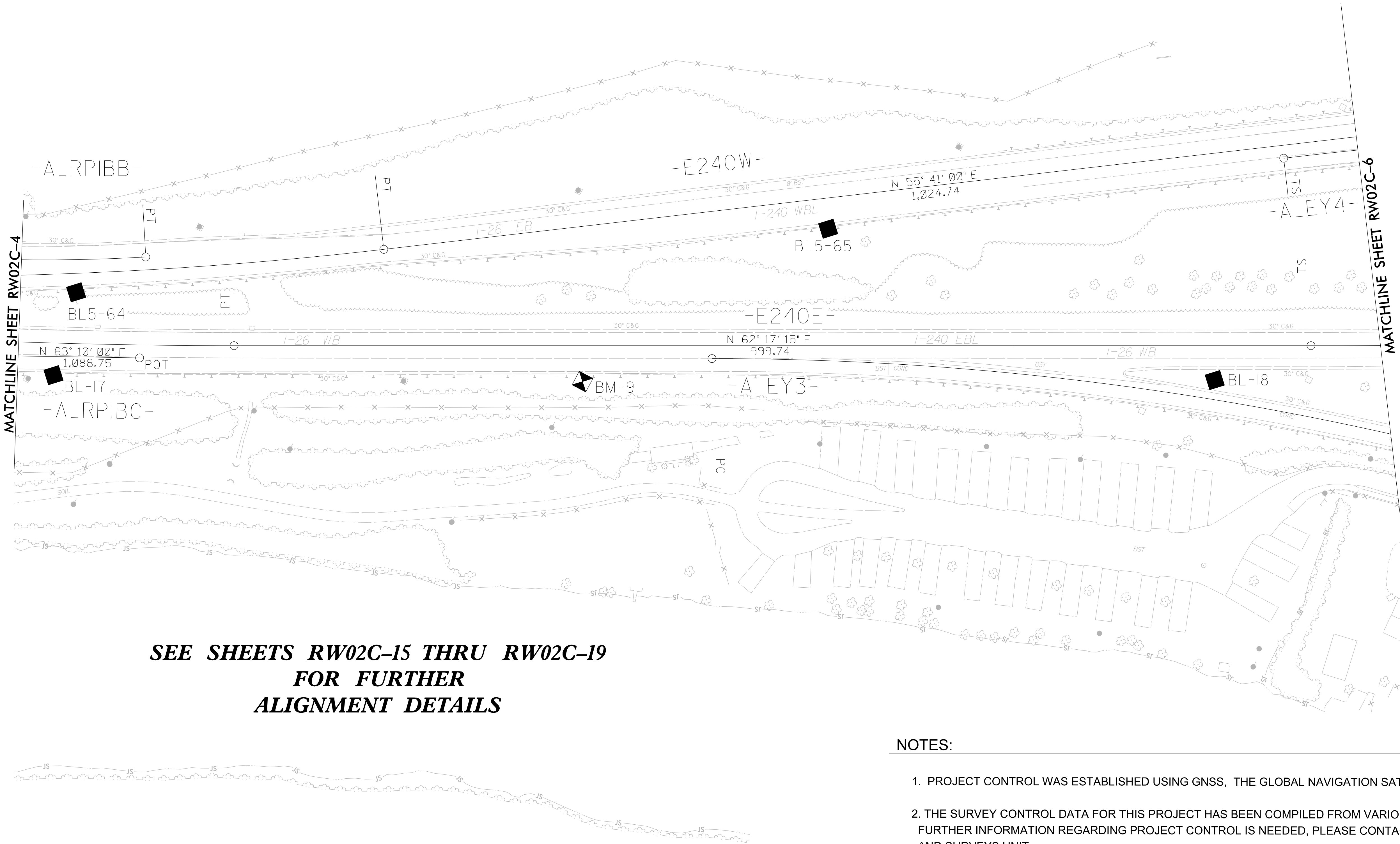
REVISIONS

SURVEY CONTROL SHEET
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW02C-5
Location and Surveys	

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY"
WITH NAD 83 STATE PLANE GRID COORDINATES OF
NORTHING: 684834.0870(ft) EASTING: 934095.9080(ft)
ELEVATION: 2156.81(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO -L- STATION IS
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88



**SEE SHEETS RW02C-15 THRU RW02C-19
FOR FURTHER
ALIGNMENT DETAILS**

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. 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.

REVISIONS

SURVEY CONTROL SHEET

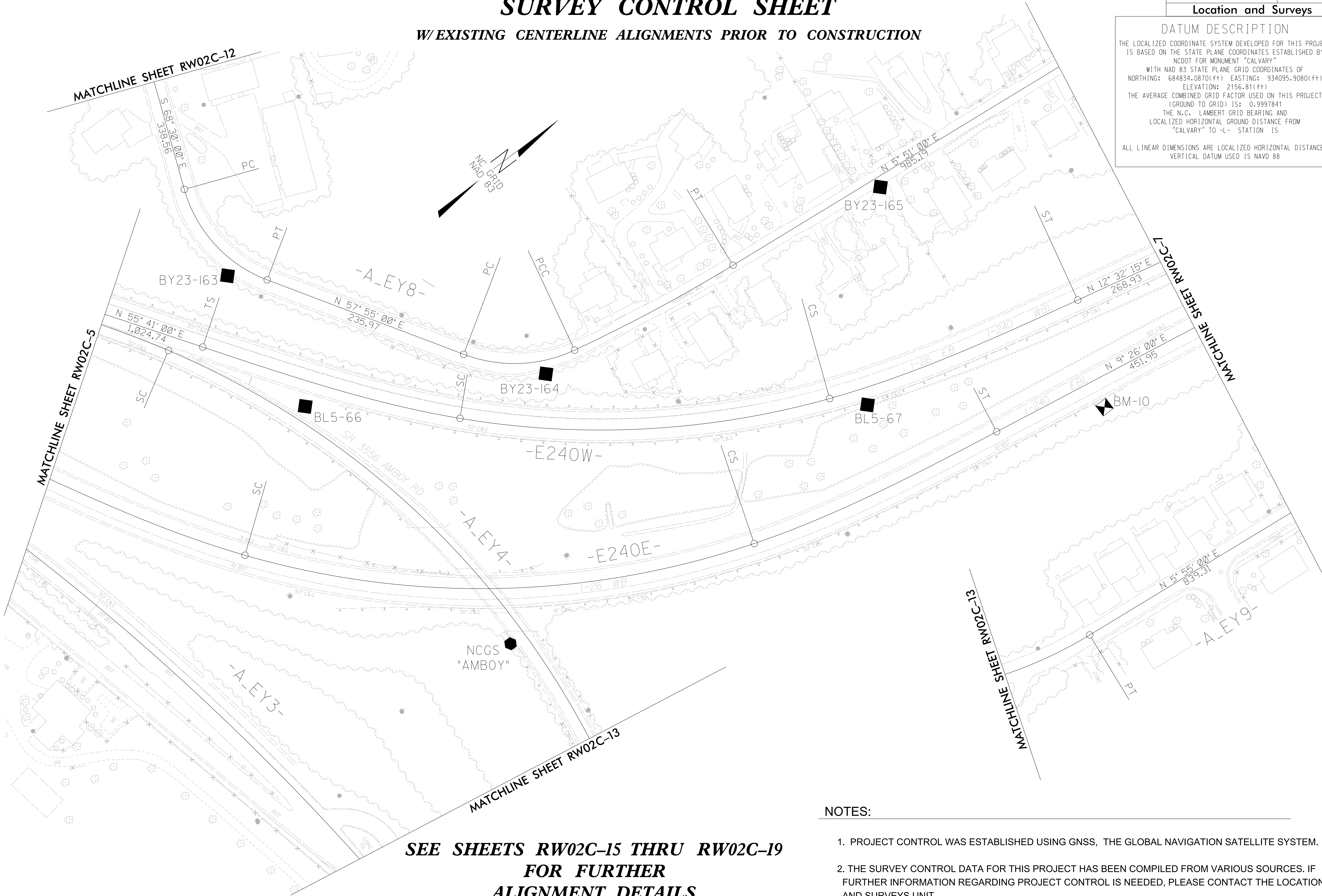
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW02C-6

Location and Surveys

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY"
WITH NAD 83 STATE PLANE GRID COORDINATES OF
NORTHING: 684834.0870(ft) EASTING: 934095.9080(ft)
ELEVATION: 2156.81(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO -L- STATION IS
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88



NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. 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.

**SEE SHEETS RW02C-15 THRU RW02C-19
FOR FURTHER
ALIGNMENT DETAILS**

REVISIONS

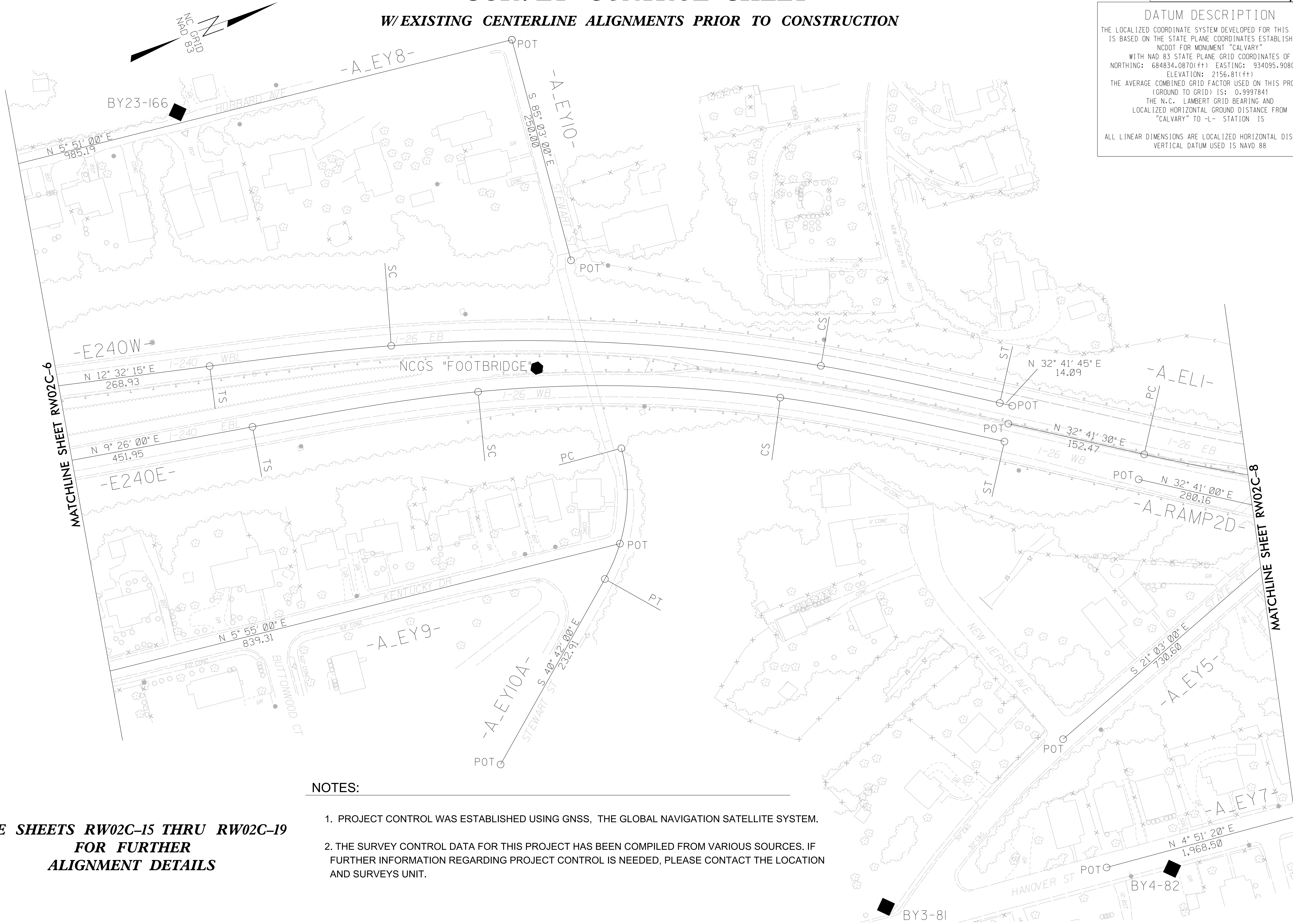
SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW02C-7
Location and Surveys	

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 684834.0870(ft) EASTING: 934095.9080(ft) ELEVATION: 2156.81(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO "L" STATION IS ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88



NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. 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.

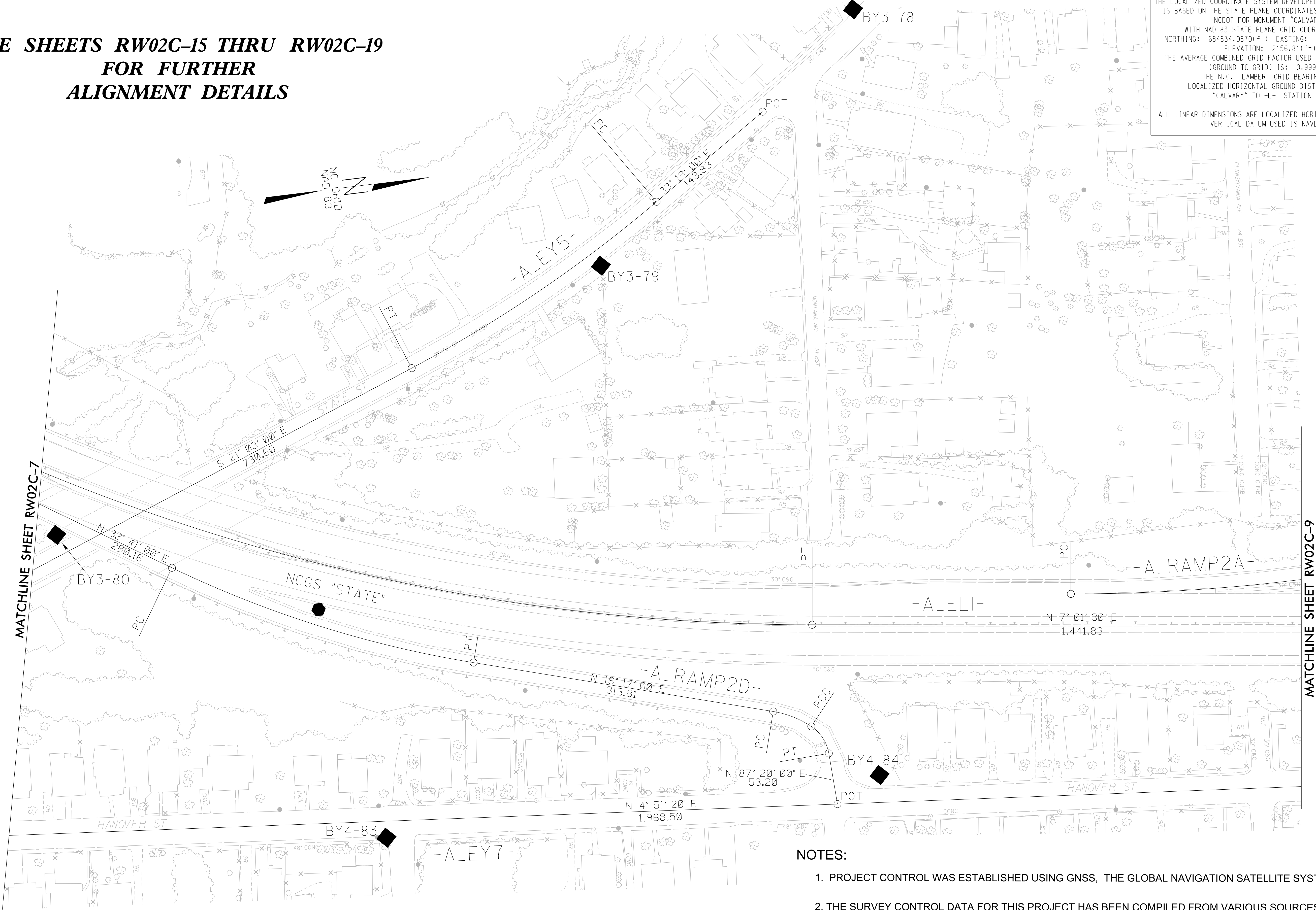
**SEE SHEETS RW02C-15 THRU RW02C-19
FOR FURTHER
ALIGNMENT DETAILS**

DATUM	DESCRIPTION
1	10/1/2018
2	10/2/2018
3	10/3/2018
4	10/4/2018
5	10/5/2018
6	10/6/2018
7	10/7/2018
8	10/8/2018
9	10/9/2018
10	10/10/2018
11	10/11/2018
12	10/12/2018
13	10/13/2018
14	10/14/2018
15	10/15/2018
16	10/16/2018
17	10/17/2018
18	10/18/2018
19	10/19/2018
20	10/20/2018
21	10/21/2018
22	10/22/2018
23	10/23/2018
24	10/24/2018
25	10/25/2018
26	10/26/2018
27	10/27/2018
28	10/28/2018
29	10/29/2018
30	10/30/2018
31	10/31/2018

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY
NCDOT FOR MONUMENT "CALVARY"
WITH NAD 83 STATE PLANE GRID COORDINATES OF
NORTHING: 684834.0870(fft) EASTING: 934095.9080(fft)
ELEVATION: 2156.81(fft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.9997841
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"CALVARY" TO -L- STATION IS

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

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. 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.

REVISIONS

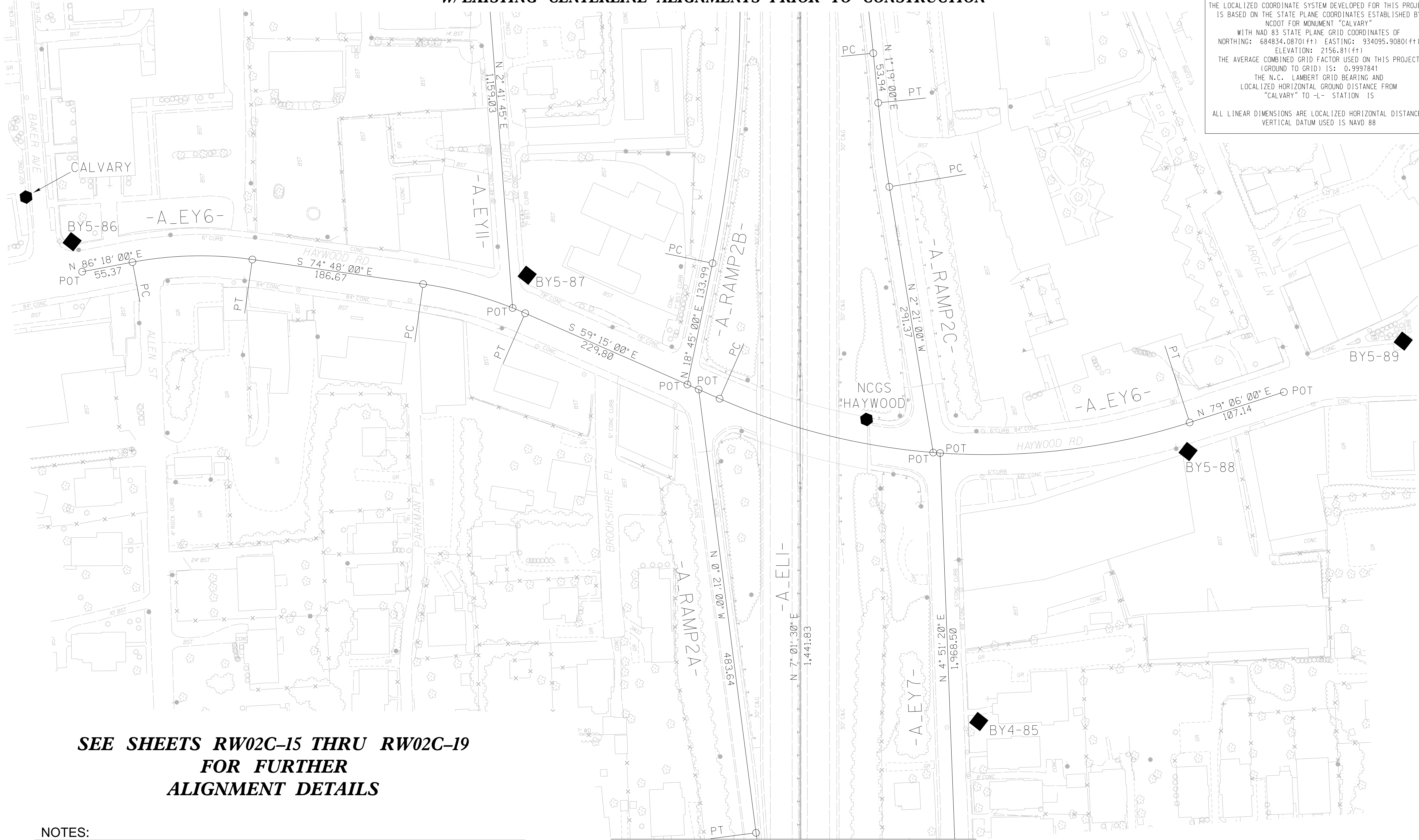
SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW02C-9
Location and Surveys	

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY"
WITH NAD 83 STATE PLANE GRID COORDINATES OF
NORTHING: 684834.0870(±) EASTING: 934095.9080(±)
ELEVATION: 2156.81(±)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO -L- STATION IS
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88



**SEE SHEETS RW02C-15 THRU RW02C-19
FOR FURTHER
ALIGNMENT DETAILS**

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. 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.

MATCHLINE SHEET RW02C-8

REVISIONS

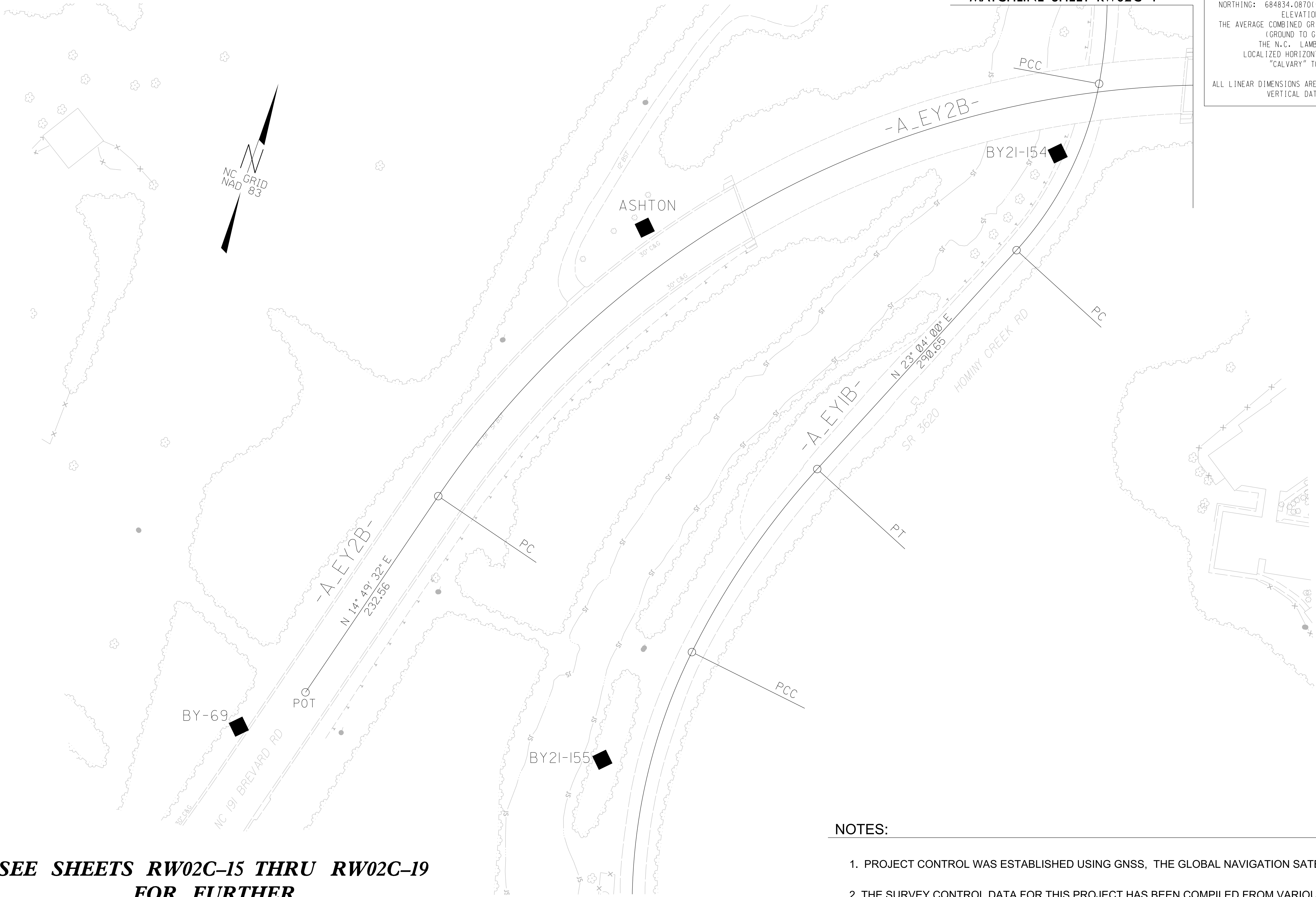
SURVEY CONTROL SHEET
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW02C-10

Location and Surveys

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 684834.0870(fft) EASTING: 934095.9080(fft) ELEVATION: 2156.81(fft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO "L" STATION IS ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88



**SEE SHEETS RW02C-15 THRU RW02C-19
FOR FURTHER
ALIGNMENT DETAILS**

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. 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.

REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. SHEET NO.

I-2513AC RW02C-11

Location and Surveys

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY

NC DOT FOR MONUMENT "CALVARY"
WITH NAD 83 STATE PLANE GRID COORDINATES OF
NORTHING: 684834.0870(±) EASTING: 934095.9080(±)
ELEVATION: 2156.81(±)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.9997841

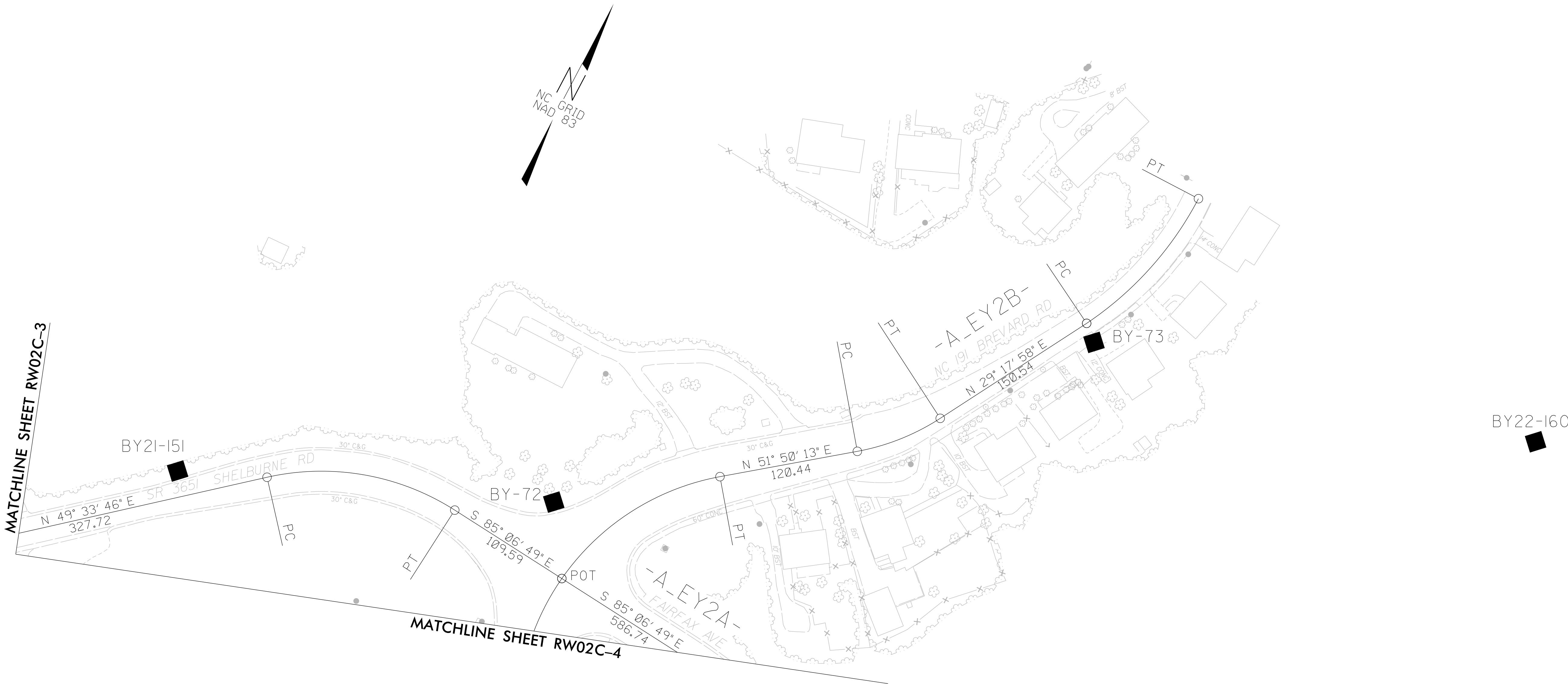
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"CALVARY" TO "L" STATION IS

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

SEE SHEETS RW02C-15 THRU RW02C-19
FOR FURTHER
ALIGNMENT DETAILS

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.



REVISIONS

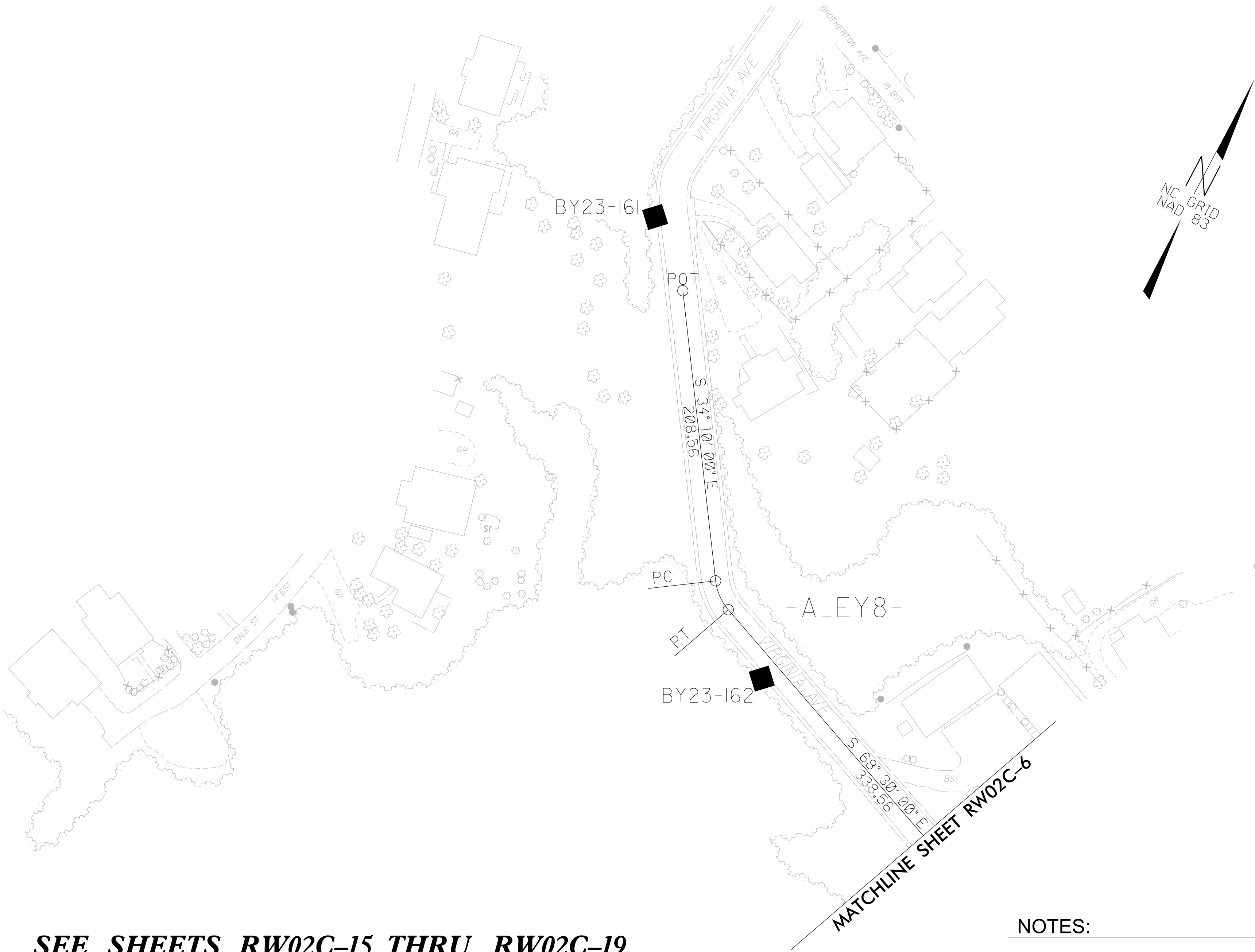
SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW02C-12
Location and Surveys	

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 684834.0870(ft) EASTING: 934095.9080(ft) ELEVATION: 2156.81(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO -L- STATION IS

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



**SEE SHEETS RW02C-15 THRU RW02C-19
FOR FURTHER
ALIGNMENT DETAILS**

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. 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.

REVISIONS

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

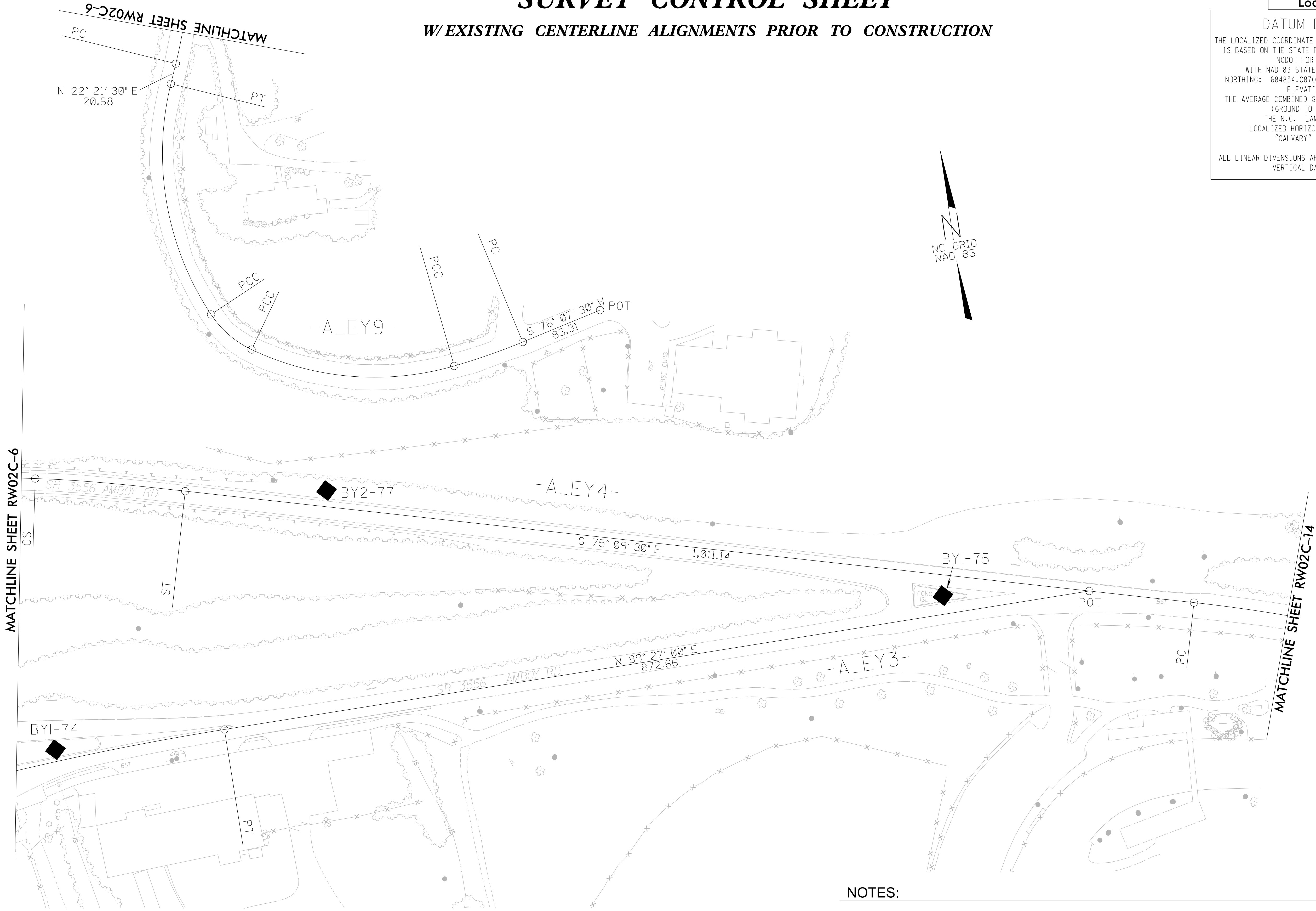
PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW02C-13

Location and Surveys

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 684834.0870(ft) EASTING: 934095.9080(ft) ELEVATION: 2156.81(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO -L- STATION IS

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



**SEE SHEETS RW02C-15 THRU RW02C-19
FOR FURTHER
ALIGNMENT DETAILS**

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. 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.

REVISIONS

SURVEY CONTROL SHEET

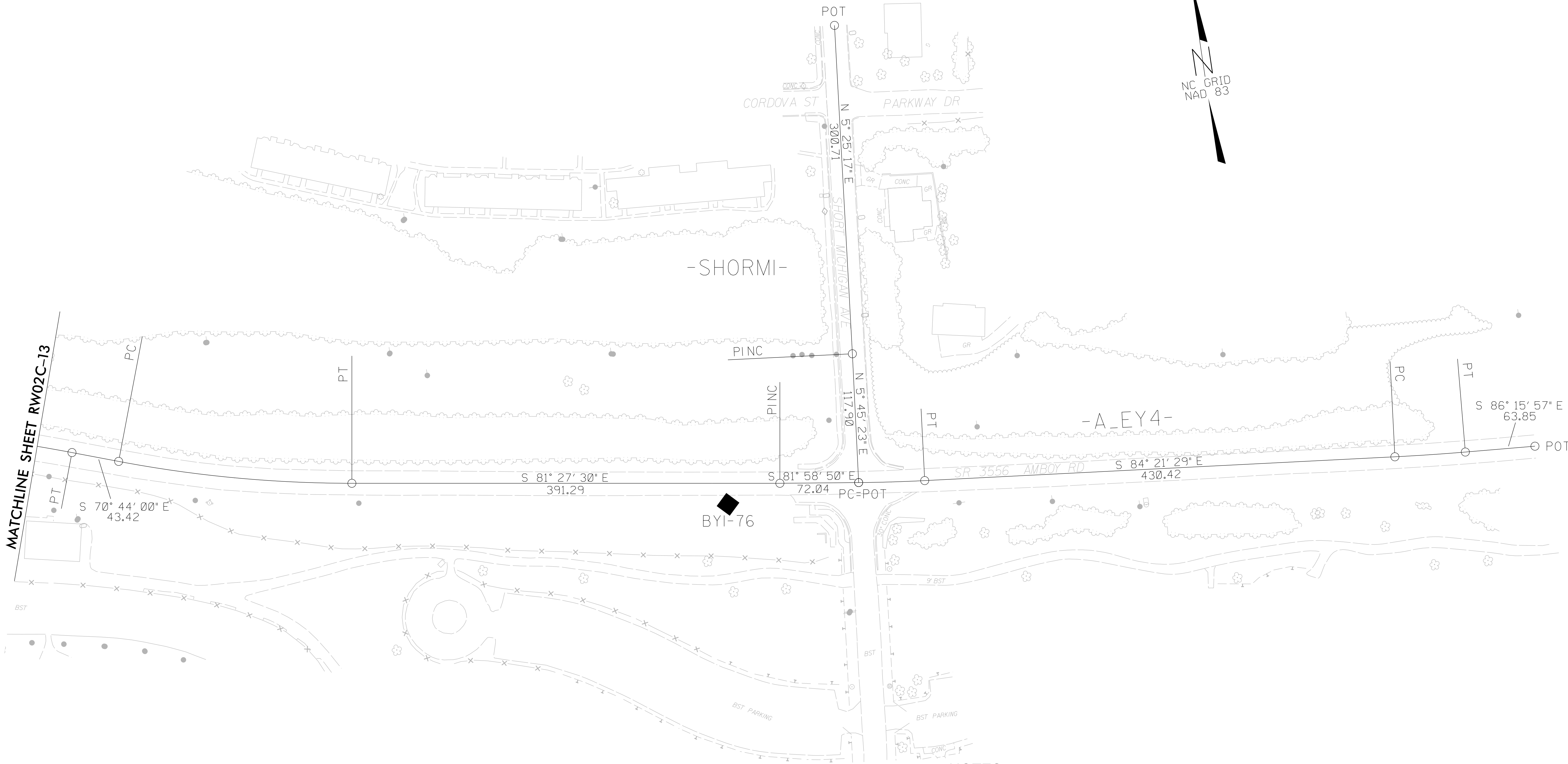
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW02C-14
Location and Surveys	

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 684834.0870(ft) EASTING: 934095.9080(ft) ELEVATION: 2156.81(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO -L- STATION IS

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



**SEE SHEETS RW02C-15 THRU RW02C-19
FOR FURTHER
ALIGNMENT DETAILS**

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. 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.

REVISIONS

SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW02C-15
Location and Surveys	

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY"
WITH NAD 83 STATE PLANE GRID COORDINATES OF
NORTHING: 684834.0870(ft) EASTING: 934095.9080(ft)
ELEVATION: 2156.81(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO -L- STATION IS

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

BL	POINT	DESC.	NORTH	EAST	ELEVATION
12		BL -12	678200.1127	927673.5178	2020.00
13		BL -13	678428.0273	928418.9829	2025.49
14		BL -14	678686.2777	929160.5683	2045.47
15		BL -15	679099.2726	930200.6897	2029.48
16		BL -16	679599.4930	931395.8014	2077.60
17		BL -17	679840.4307	932352.6206	2030.29
18		BL -18	680337.7269	933309.1241	2000.35
AMBOY1		NCGS "AMBOY"	680738.2266	933890.3766	2053.86
FTBR1		NCGS "FOOTBRIDG	682077.2172	934150.5075	2098.64
STATE1		NCGS "STATE"	683035.7978	934702.3149	2111.23
HAYWOOD1		NCGS "HAYWOOD"	684484.0740	934969.0700	2160.01

BL5	POINT	DESC.	NORTH	EAST	ELEVATION
B16		BL -16	679599.4930	931395.8014	2077.89
64		BL5-64	679918.3500	932335.4200	2036.19
65		BL5-65	680295.2400	932926.0270	2050.31
66		BL5-66	680715.5360	933538.7090	2065.90
67		BL5-67	681219.5390	933918.8960	2079.74
BFTBR1		NCGS "FOOTBRIDG	682077.2172	934150.5075	2098.96

BY	POINT	DESC.	NORTH	EAST	ELEVATION
69		BY -69	678032.9361	929970.0882	2063.15
ASHTON1		ASHTON	678626.9034	930184.7547	2038.00
70		BY -70	679036.2051	930824.9739	2058.89
71		BY -71	679182.5933	931423.4787	2088.84
B16		BL -16	679599.4930	931395.8014	2077.89
72		BY -72	679960.1134	931258.4113	2093.04
73		BY -73	680298.7458	931606.7225	2121.56

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
BAMBOY1		NCGS "AMBOY"	680738.2266	933890.3766	2054.12
74		BY1-74	680471.9516	934022.1003	1984.65
75		BY1-75	680492.3026	934919.2717	1983.04
76		BY1-76	680275.4532	935872.5312	1982.45

BY2	POINT	DESC.	NORTH	EAST	ELEVATION
BB66		BL5-66	680715.5360	933538.7090	2065.90
BBAMBOY1		NCGS "AMBOY"	680738.2266	933890.3766	2053.86
77		BY2-77	680687.0950	934327.5035	2021.75
B75		BY1-75	680492.3026	934919.2717	1983.01

BY3	POINT	DESC.	NORTH	EAST	ELEVATION
78		BY3-78	683660.0770	934153.7184	2100.80
79		BY3-79	683368.9022	934385.0560	2097.48
80		BY3-80	682776.0945	934592.4627	2082.32
81		BY3-81	682235.1490	934835.0450	2065.44

BY4	POINT	DESC.	NORTH	EAST	ELEVATION
B81		BY3-81	682236.2744	934841.8017	2066.12
82		BY4-82	682543.7380	934902.6920	2093.24
83		BY4-83	683076.5660	934944.9790	2114.14
84		BY4-84	683590.3860	934942.9850	2125.06
85		BY4-85	684144.8305	935049.5196	2165.73
BBHAYWOOD1		NCGS "HAYWOOD"	684484.0740	934969.0700	2160.01

BY5	POINT	DESC.	NORTH	EAST	ELEVATION
86		BY5-86	684779.9972	934139.3862	2158.05
87		BY5-87	684683.8154	934623.6343	2157.69
BHAYWOOD1		NCGS "HAYWOOD"	684484.0740	934969.0700	2160.01
88		BY5-88	684407.0337	935310.0141	2162.15
89		BY5-89	684497.1514	935555.6490	2163.91

BY20	POINT	DESC.	NORTH	EAST	ELEVATION
142		BY20-142	678427.0082	927222.6434	2060.60
143		BY20-143	678017.9177	927677.7141	2063.90

BY21	POINT	DESC.	NORTH	EAST	ELEVATION
B72		BY-72	679960.1134	931258.4113	2093.04
151		BY21-151	679833.0181	930958.7985	2067.23
152		BY21-152	679579.7135	930698.8314	2031.82
153		BY21-153	679327.5737	930447.8596	2011.03
154		BY21-154	678829.5172	930543.5169	1993.69
155		BY21-155	678120.0382	930317.8344	1986.94

BY22	POINT	DESC.	NORTH	EAST	ELEVATION
BB72		BY-72	679960.1134	931258.4113	2093.04
158		BY22-158	679861.0792	931584.3611	2066.24
159		BY22-159	679870.9930	931975.8851	2024.70
160		BY22-160	680399.8994	931983.7220	2053.19

BY23	POINT	DESC.	NORTH	EAST	ELEVATION
161		BY23-161	681102.8386	932770.8497	2090.59
162		BY23-162	680846.3054	932991.6033	2062.89
163		BY23-163	680734.6642	933369.1507	2034.91
164		BY23-164	680952.9241	933672.9836	2061.38
165		BY23-165	681378.8976	933732.8457	2096.61
166		BY23-166	681803.1165	933752.9820	2121.25

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.

REVISIONS

SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

A-EL POINT	N	E	BEARING	DIST
POT	678328.217	927996.629		
LINE			N 70°44'00.0" E	4000.00
POT	679648.078	931772.601		

A-EL1 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	682541.480	934383.640							
LINE			N 32°41'30.0" E	152.47					
PC	682669.793	934465.989							
CURVE	683540.305	934780.394	N 19°51'30.0" E	925.55	25°40'00.0"(LT)	02°45'00.0"	933.33	474.63	2083.48
PT			N 07°01'30.0" E	1441.83					
LINE			N 02°21'30.0" E	466.15					
PC	684971.307	934956.733							
CURVE			N 02°21'30.0" E	466.15	09°20'00.0"(LT)	02°00'00.0"	466.67	233.85	2864.79
PT	685437.063	934975.915							
LINE			N 02°18'30.0" W	224.86					
PC	685661.740	934966.858							
CURVE			N 12°48'30.0" E	1707.65	30°14'00.0"(RT)	01°45'00.0"	1727.62	884.43	3274.04
PT	687326.895	935345.427							

E240E POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
PC	679606.218	931714.050											
CURVE			N 66°30'45.0" E	844.23	08°27'00.0"(LT)	01°00'00.0"	845.00	423.27	5729.58				
PT	679942.687	932488.337											
LINE			N 62°17'15.0" E	999.74									
TS	680407.602	933373.400											
SPIRAL			N 59°17'17.3" E	299.67						09°00'00.0"(LT)	300.00	200.26	100.24
SC	680560.650	933631.042											
CURVE			N 35°51'37.5" E	571.99	34°51'15.0"(LT)	06°00'00.0"	580.90	299.75	954.93				
CS	681024.215	933966.119											
SPIRAL			N 12°25'57.7" E	299.67						09°00'00.0"(LT)	300.00	200.26	100.24
ST	681316.859	934030.636											
LINE			N 09°26'00.0" E	451.95									
TS	681762.695	934104.710											
SPIRAL			N 11°05'59.6" E	249.92						05°00'00.0"(RT)	250.00	166.73	83.39
SC	682007.936	934152.824											
CURVE			N 21°03'52.5" E	330.82	13°15'45.0"(RT)	04°00'00.0"	331.56	166.53	1432.39				
CS	682316.652	934271.728											
SPIRAL			N 31°01'45.4" E	249.92						05°00'00.0"(RT)	250.00	166.73	83.39
ST	682316.652	934271.728											

E240W POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
PC	679635.534	931676.747											
CURVE			N 63°12'30.0" E	1000.45	15°03'00.0"(LT)	01°30'00.0"	1003.33	504.57	3819.72				
PT	680086.485	932569.801											
LINE			N 55°41'00.0" E	1024.74									
TS	680664.197	933416.166											
SPIRAL			N 52°41'02.3" E	299.67						09°00'00.0"(LT)	300.00	200.26	100.24
SC	680845.861	933654.496											
CURVE			N 34°06'37.5" E	415.74	25°08'45.0"(LT)	06°00'00.0"	419.10	212.98	954.93				
CS	681190.078	933887.639											
SPIRAL			N 15°32'12.7" E	299.67						09°00'00.0"(LT)	300.00	200.26	100.24
ST	681478.799	933967.909											
LINE			N 12°32'15.0" E	268.93									
TS	681741.314	934026.287											
SPIRAL			N 13°32'14.9" E	199.98						03°00'00.0"(RT)	200.00	133.35	66.68
SC	681935.734	934073.098											
CURVE			N 22°37'00.0" E	470.74	14°09'30.0"(RT)	03°00'00.0"	471.94	237.18	1909.86				
CS	682370.277	934254.129											
SPIRAL			N 31°41'45.1" E	199.98						03°00'00.0"(RT)	200.00	133.35	66.68
ST	682540.426	934359.199											
LINE			N 32°41'45.0" E	14.09									
POT	682552.282	934366.809											

A-EY1A POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	679670.019	930354.343							
LINE			S 68°36'44.1" E	172.54					
PC	679607.098	930515.002							
CURVE			N 80°28'31.0" E	268.92	61°49'29.6"(LT)	21°53'27.8"	282.42	156.72	261.73
PT	679651.596	930780.212							
LINE			N 49°33'46.2" E	327.72					
PC	679864.157	931029.642							
CURVE			N 72°13'28.7" E	164.33	45°19'25.0"(RT)	26°52'02.5"	168.69	89.04	213.25
PT	679914.325	931186.127							
LINE			S 85°06'48.8" E	109.59					
POT	679904.990	931295.318							

A-EY1B POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	677333.132	930801.851							
LINE			N 41°00'00.0" W	163.04					
PC	677456.179	930694.888							
CURVE			N 32°58'30.0" W	355.50	16°03'00.0"(RT)	04°30'00.0"	356.67	179.51	1273.24
PT	677754.412	930501.399							
LINE			N 24°57'00.0" W	207.80					
PC	677942.816	930413.745							
CURVE			N 08°51'46.1" W	309.79	32°10'27.8"(RT)	10°15'00.0"	313.90	161.21	558.98
PCC	678248.905	930366.016							
CURVE			N 15°08'43.9" E	217.82	15°50'32.2"(RT)	07°15'00.0"	218.51	109.96	790.29
PT	678459.158	930422.926							
LINE			N 23°04'00.0" E	290.65					
PC	678726.573	930536.804							
CURVE			N 07°07'54.6" E	182.38	31°52'10.7"(LT)	17°15'00.0"	184.75	94.83	332.15
PCC	678907.541	930559.447							
CURVE			N 14°39'05.4" W	97.31	11°41'49.2"(LT)	12°00'00.0"	97.48	48.91	477.46
PT	679001.683	930534.834							
LINE			N 20°30'00.0" W	219.53					
PC	679207.309	930457.954							
CURVE			N 05°35'00.0" E	125.96	52°10'00.0"(RT)	40°00'00.0"	130.42	70.12	143.24
PT	679332.670	930470.209							
LINE			N 31°40'00.0" E	144.63					
PC	679455.771	930546.139							
CURVE			N 20°55'00.0" E	89.06	21°30'00.0"(LT)	24°00'00.0"	89.58	45.32	238.73
PT	679538.960	930577.933							
LINE			N 10°10'00.0" E	51.97					
POT	679590.116	930587.107							

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. 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.

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW02C-16
Location and Surveys	

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 684834.0870(ft) EASTING: 934095.9080(ft) ELEVATION: 2156.81(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO -L- STATION IS

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

REVISIONS

I8-APR-2022 09:22
V:\NC\Survey\4032212-17_I-2513a.con.vam2\Survey\Data - Work\12513AC.1s_RW02C-17.dgn
Jegordon
AT WKS-1503PY-4

SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW02C-17
Location and Surveys	

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 684834.0870(±) EASTING: 934095.9080(±) ELEVATION: 2156.81(±) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO -L- STATION IS

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

A_EY2A POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	679904.990	931295.318							
LINE			S 85°06'48.8" E	586.74					
PC	679855.010	931879.929							
CURVE			N 47°00'05.6" E	139.35	95°46'11.2"(LT)	61°00'00.0"	157.00	103.90	93.93
PT	679950.045	931981.847							
LINE			N 00°53'00.0" W	253.42					
POT	680203.437	931977.940							

A_EY2B POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	678086.410	930020.837							
LINE			N 14°49'31.7" E	232.56					
PC	678311.224	930080.342							
CURVE			N 42°47'11.4" E	861.28	55°55'19.2"(RT)	06°14'17.7"	896.44	487.55	918.46
PT	678943.307	930665.381							
LINE			N 70°44'51.0" E	676.48					
PC	679166.365	931304.030							
CURVE			N 25°44'18.2" E	301.63	90°01'05.6"(LT)	26°52'02.5"	335.05	213.32	213.25
PT	679438.073	931435.019							
LINE			N 19°16'14.6" W	392.07					
PC	679808.178	931305.623							
CURVE			N 16°16'59.0" E	248.00	71°06'27.4"(RT)	26°52'02.5"	264.66	152.42	213.25
PT	680046.231	931375.158							
LINE			N 51°50'12.7" E	120.44					
PC	680120.651	931469.854							
CURVE			N 40°34'05.6" E	76.93	22°32'14.3"(LT)	29°06'22.7"	77.43	39.22	196.85
PT	680179.091	931519.888							
LINE			N 29°17'58.4" E	150.54					
PC	680310.373	931593.558							
CURVE			N 14°09'28.3" E	144.44	28°27'27.1"(LT)	19°30'00.0"	145.94	74.51	293.82
PT	680450.427	931628.888							

A_EY3 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	680138.383	932886.688							
CURVE			N 75°52'00.0" E	1345.65	27°10'00.0"(RT)	02°00'00.0"	1358.33	692.18	2864.79
PT	680466.961	934191.601							
LINE			N 89°27'00.0" E	872.66					
POT	680475.338	935064.221							

A_EY4 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
TS	0.000	0.000											
SPIRAL			N 57°10'59.7" E	149.96						04°30'00.0"(RT)	150.00	100.03	50.03
SC	680631.171	933396.075											
CURVE			N 80°15'45.0" E	655.69	40°09'30.0"(RT)	06°00'00.0"	669.31	349.06	954.93				
CS	680742.071	934042.318											
SPIRAL			S 76°39'29.7" E	149.96						04°30'00.0"(RT)	150.00	100.03	50.03
ST	680707.467	934188.230											
LINE			S 75°09'30.0" E	1011.14									
PC	680448.465	935165.634											
CURVE			S 72°56'45.0" E	126.40	04°25'30.0"(RT)	03°30'00.0"	126.43	63.25	1637.02				
PT	680411.396	935286.473											
LINE			S 70°44'00.0" E	43.42									
PC	680397.068	935327.463											
CURVE			S 76°05'45.0" E	214.19	10°43'30.0"(LT)	05°00'00.0"	214.50	107.56	1145.92				
PT	680345.599	935535.374											
LINE			S 81°27'30.0" E	391.29									
POT	680287.481	935922.326											
LINE			S 81°58'50.4" E	72.04									
PC	680277.431	935993.657											
CURVE			S 83°10'09.7" E	60.42	02°22'38.7"(LT)	03°56'05.2"	60.42	30.21	1456.14				
PT	680270.246	936053.645											
LINE			S 84°21'29.1" E	430.42									
PC	680227.931	936481.982											
CURVE			S 85°18'43.1" E	64.57	01°54'28.1"(LT)	02°57'16.9"	64.57	32.29	1939.15				
PT	680222.654	936546.332											
LINE			S 86°15'57.2" E	63.85									
POT	680218.495	936610.050											

A_EY5 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	683554.355	934247.499							
LINE			S 33°19'00.0" E	143.83					
PC	683434.165	934326.499							
CURVE			S 27°11'00.0" E	306.08	12°16'00.0"(RT)	04°00'00.0"	306.67	153.92	1432.39
PT	683161.890	934466.329							
LINE			S 21°03'00.0" E	730.60					
POT	682480.042	934728.748							

A_EY6 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	684746.490	934146.306							
LINE			N 86°18'00.0" E	55.37					
PC	684750.063	934201.561							
CURVE			S 84°15'00.0" E	129.75	18°54'00.0"(RT)	14°30'00.0"	130.34	65.77	395.14
PT	684737.063	934330.663							
LINE			S 74°48'00.0" E	186.67					
PC	684688.119	934510.804							
CURVE			S 67°01'30.0" E	114.83	15°33'00.0"(RT)	13°30'00.0"	115.19	57.95	424.41
PT	684643.297	934616.527							
LINE			S 59°15'00.0" E	229.80					
PC	684525.804	934814.015							
CURVE			S 80°04'30.0" E	509.24	41°39'00.0"(LT)	08°00'00.0"	520.62	272.42	716.20
PT	684438.032	935315.632							
LINE			N 79°06'00.0" E	107.14					
POT	684458.292	935420.840							

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.

REVISIONS

SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

A_EY7 POINT	N	E	BEARING	DIST
POT	682476.823	934876.963		
LINE			N 04°51'20.0" E	1968.50
POT	684438.259	935043.585		

A_EY8 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	681065.422	932812.910							
LINE			S 34°10'00.0" E	208.56					
PC	680892.855	932930.040							
CURVE			S 51°20'00.0" E	22.55	34°20'00.0"(LT)	150°00'00.0"	22.89	11.80	38.20
PT	680878.768	932947.645							
LINE			S 68°30'00.0" E	338.56					
PC	680754.684	933262.649							
CURVE			N 84°42'30.0" E	137.74	53°35'00.0"(LT)	37°30'00.0"	142.89	77.15	152.79
PT	680767.387	933399.800							
LINE			N 57°55'00.0" E	235.97					
PC	680892.722	933599.730							
CURVE			N 35°02'16.6" E	124.62	45°45'26.7"(LT)	35°45'00.0"	127.99	67.63	160.27
PCC	680994.756	933671.276							
CURVE			N 09°00'16.6" E	201.79	06°18'33.3"(LT)	03°07'30.0"	201.90	101.05	1833.46
PT	681194.063	933702.860							
LINE			N 05°51'00.0" E	985.19					
POT	682174.120	933803.274							

A_EY9 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	680824.347	934623.718							
LINE			S 76°07'30.0" W	83.31					
PC	680804.368	934542.835							
CURVE			S 79°17'19.1" W	72.27	06°19'38.1"(RT)	08°45'00.0"	72.31	36.19	654.01
PCC	680790.934	934471.819							
CURVE			N 76°50'30.9" W	202.58	41°24'41.9"(RT)	20°00'00.0"	207.06	108.28	286.48
PCC	680837.050	934274.557							
CURVE			N 40°35'07.6" W	53.43	31°06'04.7"(RT)	57°30'00.0"	54.09	27.73	99.64
PCC	680877.625	934239.798							
CURVE			N 01°20'17.6" W	233.18	47°23'35.2"(RT)	19°45'00.0"	239.97	127.33	290.11
PT	681110.743	934234.353							
LINE			N 22°21'30.0" E	20.68					
PC	681129.873	934242.221							
CURVE			N 14°08'15.0" E	136.54	16°26'30.0"(LT)	12°00'00.0"	137.01	68.98	477.46
PT	681262.281	934275.572							
LINE			N 05°55'00.0" E	839.31					
POT	682097.116	934362.089							

A_EY10 POINT	N	E	BEARING	DIST
POT	682174.120	933803.274		
LINE			S 85°03'00.0" E	250.00
POT	682152.549	934052.342		

A_EY10A POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	682134.169	934264.555							
CURVE			S 62°52'30.0" E	144.17	44°21'00.0"(RT)	30°00'00.0"	147.83	77.84	190.99
PT	682068.437	934392.868							
LINE			S 40°42'00.0" E	232.91					
POT	681891.859	934544.749							

A_EY11 POINT	N	E	BEARING	DIST
POT	684650.615	934603.725		
LINE			N 02°41'45.0" E	1159.03
POT	685808.363	934658.239		

A_RP1BA POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	679344.991	930808.524							
CURVE			N 62°45'51.0" E	198.59	15°56'18.0"(LT)	08°00'00.0"	199.23	100.26	716.20
PT	679435.875	930985.094							
LINE			N 54°47'42.0" E	160.00					
PC	679528.116	931115.829							
CURVE			N 62°45'51.0" E	198.59	15°56'18.0"(RT)	08°00'00.0"	199.23	100.26	716.20
PT	679619.000	931292.400							
LINE			N 70°44'00.0" E	74.92					
POT	679643.720	931363.121							
A_RP1BB POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	679643.520	931363.191							
LINE			N 75°18'57.1" E	605.93					
PC	679797.117	931949.331							
CURVE			N 67°09'28.6" E	464.59	16°18'57.0"(LT)	03°30'00.0"	466.17	234.67	1637.02
PT	679977.469	932377.490							

A_RP1BC POINT	N	E	BEARING	DIST
POT	679400.411	931444.443		
LINE			N 63°10'00.0" E	1088.75
POT	679891.868	932415.957		

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW02C-18
Location and Surveys	

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 684834.0870(fft) EASTING: 934095.9080(fft) ELEVATION: 2156.81(fft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO -L- STATION IS

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

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.

REVISIONS

SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
I-25I3AC	RW02C-19
Location and Surveys	

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CALVARY" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 684834.0870(ft) EASTING: 934095.9080(ft) ELEVATION: 2156.81(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997841 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CALVARY" TO -L- STATION IS

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

A_RP1BD													
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
PC	679267.575	930781.007	N 75°56'00.0" E	129.82	10°24'00.0"(RT)	08°00'00.0"	130.00	65.18	716.20				
CURVE													
CS	679299.128	930906.935	N 85°08'00.7" E	149.93						06°00'00.0"(RT)	150.00	100.06	50.05
SPIRAL													
ST	679311.847	931056.322	N 87°08'00.0" E	22.74									
LINE													
TS	679312.985	931079.033	N 85°28'00.4" E	99.97						05°00'00.0"(LT)	100.00	66.69	33.36
SPIRAL													
SC	679320.886	931178.686	N 78°56'00.0" E	63.97	06°24'00.0"(LT)	10°00'00.0"	64.00	32.03	572.96				
CURVE													
CS	679333.164	931241.463	N 72°23'59.6" E	99.97						05°00'00.0"(LT)	100.00	66.69	33.36
SPIRAL													
ST	679363.391	931336.750	N 70°44'00.0" E	113.98									
LINE													
POT	679401.002	931444.350											

A_RAMP2A										
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	
PC	683809.585	934781.386	N 03°20'15.0" E	245.66	07°22'30.0"(LT)	03°00'00.0"	245.83	123.09	1909.86	
CURVE										
PT	684054.832	934795.688	N 00°21'00.0" W	483.64						
LINE										
POT	684538.468	934792.734								

A_RAMP2B										
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	
POT	684545.270	934781.304	N 18°45'00.0" E	133.99						
LINE										
PC	684672.151	934824.375	N 12°28'30.0" E	313.12	12°33'00.0"(LT)	04°00'00.0"	313.75	157.51	1432.39	
CURVE										
PT	684977.882	934892.014	N 06°12'00.0" E	333.26						
LINE										
PC	685309.189	934928.005	N 01°56'45.0" E	283.35	08°30'30.0"(LT)	03°00'00.0"	283.61	142.07	1909.86	
CURVE										
PT	685592.376	934937.626								

A_RAMP2C										
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	
POT	684439.718	935036.277	N 02°21'00.0" W	291.37						
LINE										
PC	684730.846	935024.329	N 00°31'00.0" W	91.65	03°40'00.0"(RT)	04°00'00.0"	91.67	45.85	1432.39	
CURVE										
PT	684822.493	935023.503	N 01°19'00.0" E	53.94						
LINE										
PC	684876.421	935024.742	N 00°29'30.0" W	180.80	03°37'00.0"(LT)	02°00'00.0"	180.83	90.45	2864.79	
CURVE										
PT	685057.218	935023.191	N 02°18'00.0" W	381.33						
LINE										
POT	685438.241	935007.887								

A_RAMP2D										
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	
POT	682654.810	934489.642	N 32°41'00.0" E	280.16						
LINE										
PC	682890.614	934640.928	N 24°29'00.0" E	326.88	16°24'00.0"(LT)	05°00'00.0"	328.00	165.13	1145.92	
CURVE										
PT	683188.102	934776.397	N 16°17'00.0" E	313.81						
LINE										
PC	683489.329	934864.387	N 28°28'59.3" E	42.30	24°23'57.7"(RT)	57°15'00.0"	42.62	21.64	100.08	
CURVE										
PCC	683526.506	934884.558	N 64°00'28.9" E	33.24	46°39'02.1"(RT)	136°30'00.0"	34.18	18.10	41.97	
CURVE										
PT	683541.074	934914.436	N 87°20'00.0" E	53.20						
LINE										
POT	683543.549	934967.582								

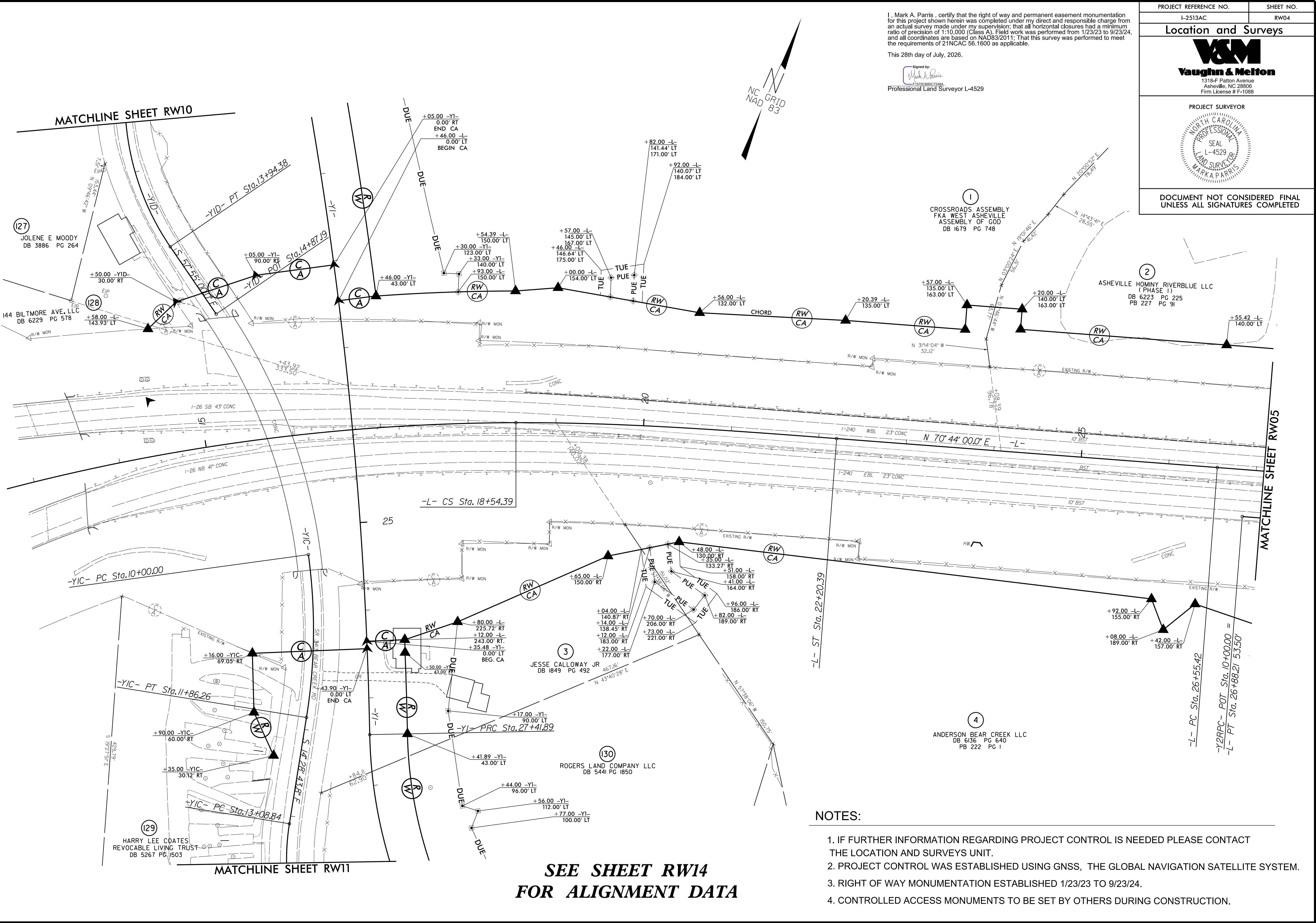
NOTES:

- 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.

6/2/2025

7/30/2025 9:17:21 AM
D:\WORK\2025\12513AC\1s_RW04.dgn
11/25/2025

REVISIONS

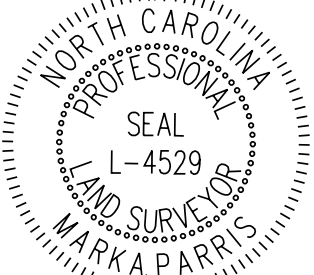


I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 1/23/23 to 9/23/24, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 28th day of July, 2026.

Signed by
Mark A. Parris
Professional Land Surveyor L-4529

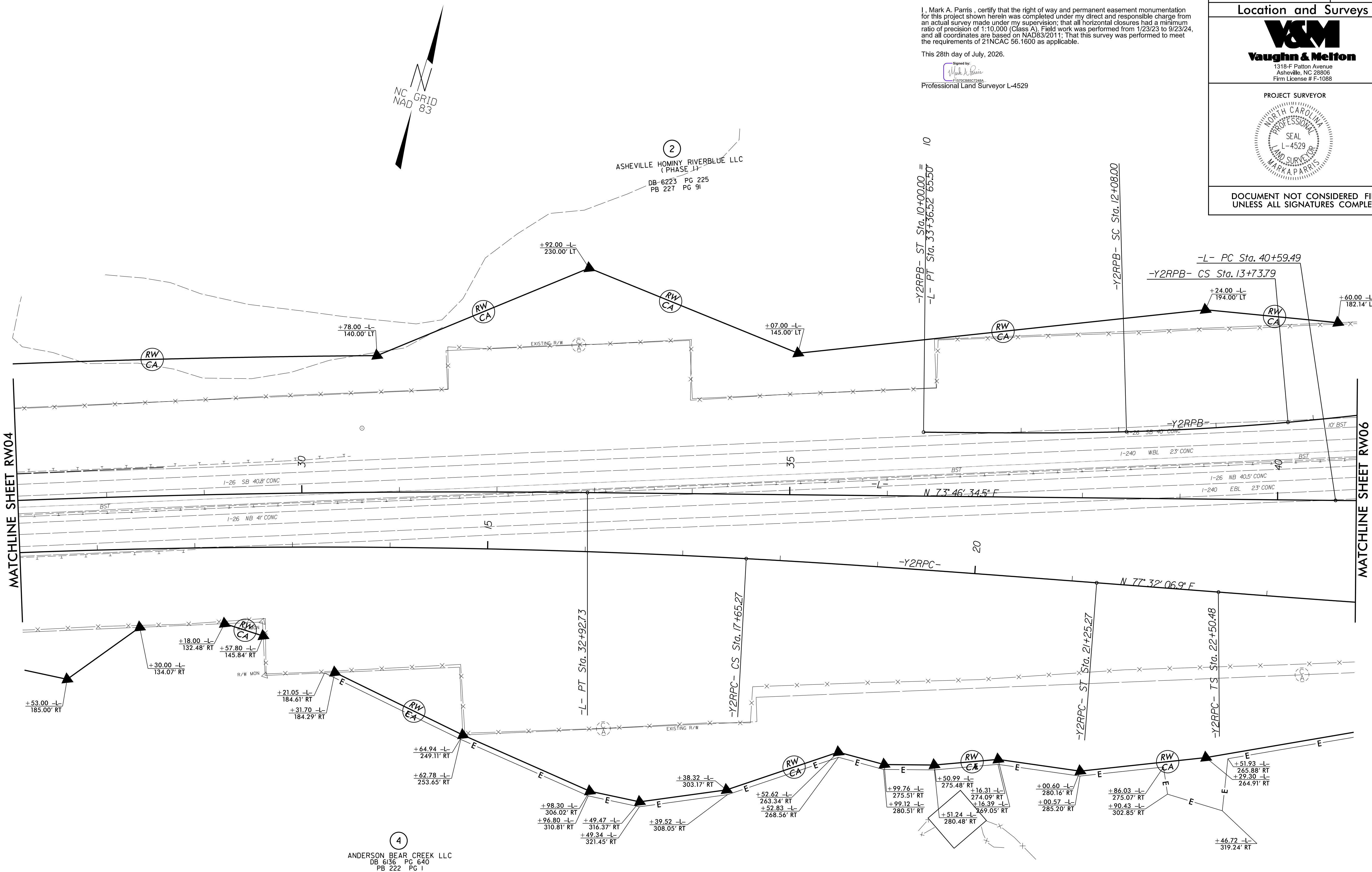
Professional Land Surveyor L-4529

PROJECT REFERENCE NO.		SHEET NO.	
I-2513AC		RW04	
Location and Surveys			
 Vaughn & Melton 1318-F Patton Avenue Asheville, NC 28806 Firm License # F-1088			
PROJECT SURVEYOR			
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

6/2/2026

REVISIONS

7/30/2026 9:50:00 AM
D:\WORK\10512513AC\1s_RW05.dgn
11/26/2026 10:51:30 AM



I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 1/23/23 to 9/23/24, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 28th day of July, 2026.

Signed by: *Mark A. Parris*
Professional Land Surveyor L-4529

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW05

Location and Surveys

1318-F Patton Avenue
Asheville, NC 28806
Firm License # F-1088

PROJECT SURVEYOR

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

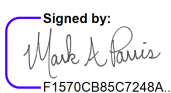
**SEE SHEET RW14
FOR ALIGNMENT DATA**

- NOTES:**
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
 - PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
 - RIGHT OF WAY MONUMENTATION ESTABLISHED 1/23/23 TO 9/23/24.
 - CONTROL ACCESS MONUMENTS TO BE SET BY OTHERS DURING CONSTRUCTION.

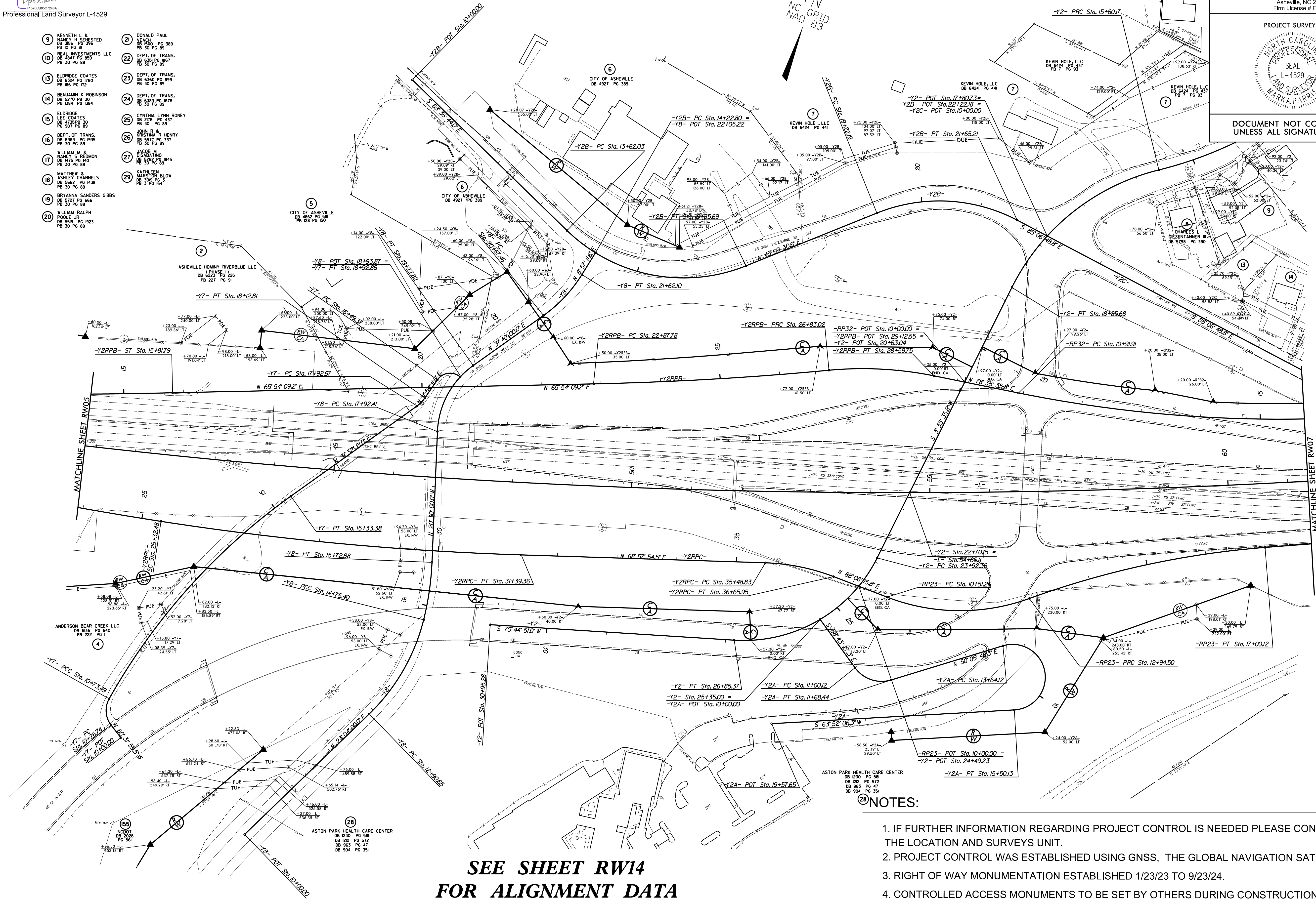
6/2/2025

I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 1/23/23 to 9/23/24, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 28th day of July, 2028.

Signed by:

Professional Land Surveyor L-4529

- | | |
|--|---|
| 9 KENNETH L. & NANCY H. SEBESTED DB 506 PG 386 PB 10 PG 81 | 21 DONALD PAUL VEACH DB 560 PG 389 PB 30 PG 89 |
| 10 NEAL INVESTMENTS LLC DB 4847 PG 899 PB 30 PG 89 | 22 DEPT. OF TRANS. DB 4290 PG 867 PB 30 PG 89 |
| 13 ELDORIDGE COATES DB 6324 PG 1760 PB 86 PG 172 | 23 DEPT. OF TRANS. DB 6360 PG 899 PB 30 PG 89 |
| 14 BENJAMIN K. ROBINSON DB 5270 PG 30 PB 1364 PG 1364 | 24 DEPT. OF TRANS. DB 5383 PG 878 PB 30 PG 89 |
| 15 ELDORIDGE LEE COATES DB 4735 PG 30 PB 307 PG 89 | 25 CYNTHIA LYNN RONEY DB 878 PG 437 PB 30 PG 89 |
| 16 DEPT. OF TRANS. DB 6363 PG 1935 PB 30 PG 89 | 26 JOHN R. & KRISTINA R. HENRY DB 5577 PG 337 PB 30 PG 89 |
| 17 WILLIAM M. & NANCY S. REDMON DB 4145 PG 40 PB 30 PG 89 | 27 JACOB M. DISABATINO DB 5562 PG 845 PB 30 PG 89 |
| 18 MATTHEW & ASHLEY CHANNELS DB 5662 PG 1438 PB 30 PG 89 | 29 KATHLEEN MARSHON BLOW DB 309 PG 3 PB 30 PG 84 |
| 19 BRYANNA SANDERS CGBS DB 5727 PG 666 PB 30 PG 89 | |
| 20 WILLIAM RALPH POOLE DB 559 PG 1923 PB 30 PG 89 | |



PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW06
Location and Surveys	
 1318-F Patton Avenue Asheville, NC 28806 Firm License # F-1088	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

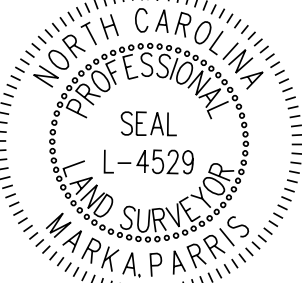
NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED 1/23/23 TO 9/23/24.
- CONTROLLED ACCESS MONUMENTS TO BE SET BY OTHERS DURING CONSTRUCTION.



This 28th day of July, 2026.

Signed by: 
F1570CB85C7248A
Professional Land Surveyor L-4529

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW07
Location and Surveys	
 1318-F Patton Avenue Asheville, NC 28806 Firm License # F-1088	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

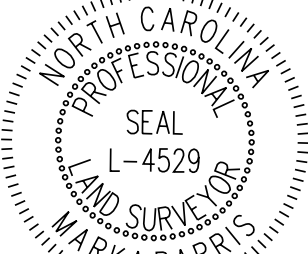
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 1/23/23 TO 9/23/24.
4. CONTROLLED ACCESS MONUMENTS TO BE SET BY OTHERS DURING CONSTRUCTION.

**SEE SHEET RW14
FOR ALIGNMENT DATA**



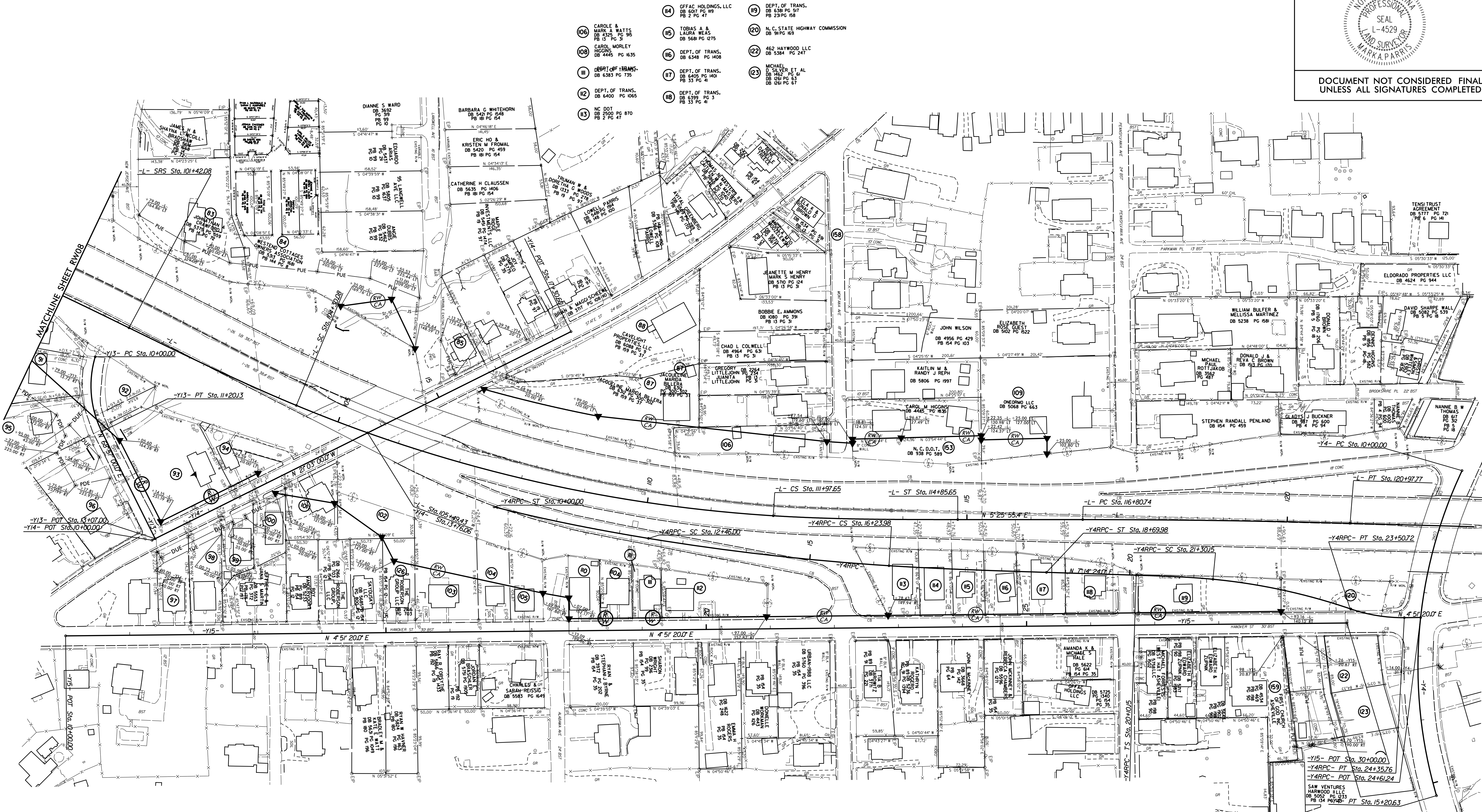
Signed by:

F1570CB85C7248A...
Professional Land Surveyor L-4529

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW08
Location and Surveys	
 Vaughn & Melton 1318-F Patton Avenue Asheville, NC 28806 Firm License # F-1088	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 1/23/23 TO 9/23/24.
4. CONTROL ACCESS MONUMENTS TO BE SET BY OTHERS DURING CONSTRUCTION.

REVISIONS



**SEE SHEET RW14
FOR ALIGNMENT DATA**

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 1/23/23 TO 9/23/24 .
4. CONTROL ACCESS MONUMENTS TO BE SET BY OTHERS DURING CONSTRUCTION.

I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 1/23/23 to 9/23/24, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 28th day of July, 2026.

Signed by:

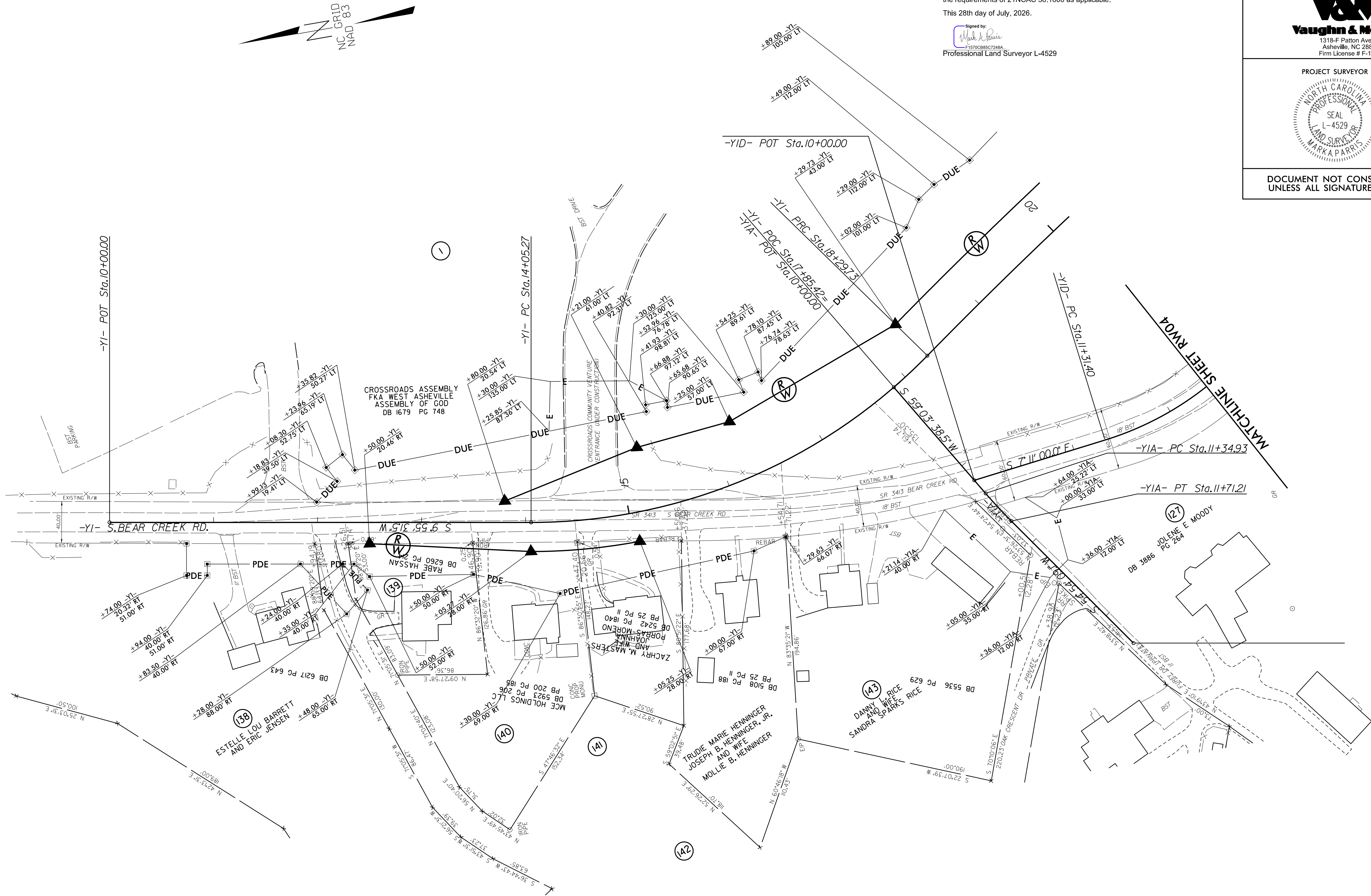
F1570CB85C7248A
Professional Land Surveyor L-4529

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW09
Location and Surveys	
 1318-F Patton Avenue Asheville, NC 28806 Firm License # F-1088	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

6/2/2025

7/30/2025 9:24:22 AM
D:\WORK\2025\134C\134C.dgn
134C.dgn

REVISIONS



I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 1/23/23 to 9/23/24, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 28th day of July, 2026.

Signed by:
Mark A. Parris
Professional Land Surveyor L-4529

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW10
Location and Surveys	
 1318-F Patton Avenue Asheville, NC 28806 Firm License # F-1088	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NOTES:

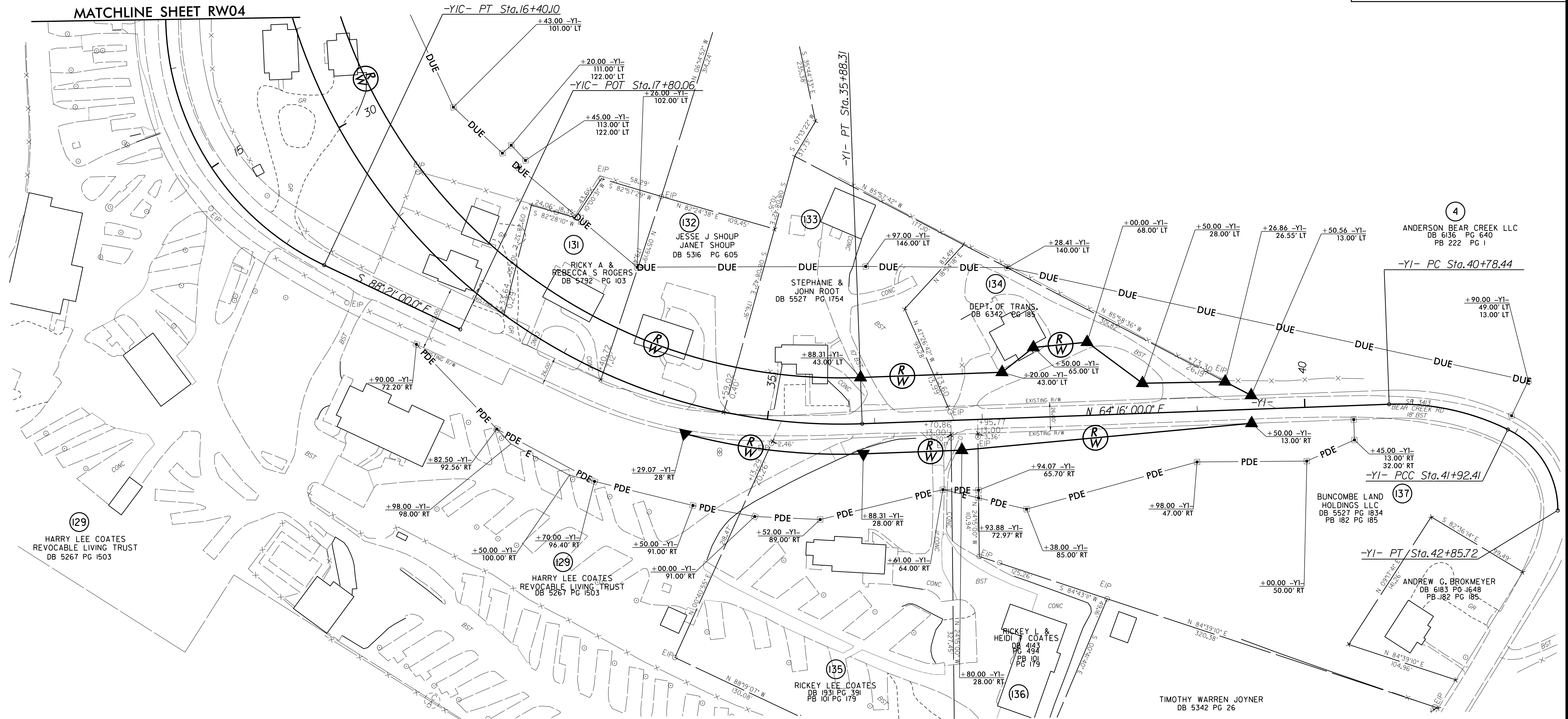
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 1/23/23 TO 9/23/24 .
4. CONTROL ACCESS MONUMENTS TO BE SET BY OTHERS DURING CONSTRUCTION.

**SEE SHEET RW14
FOR ALIGNMENT DATA**

REVISIONS

Signed by:

F1570CB85C7248A...
Professional Land Surveyor L-4529

A circular professional seal for Mark A. Parris. The outer ring contains the text "NORTH CAROLINA" at the top and "MARK A. PARRIS" at the bottom. The inner ring contains "PROFESSIONAL" at the top and "LAND SURVEYOR" at the bottom. In the center, it reads "SEAL" and "L-4529". The seal is surrounded by a decorative border of small dots.

**SEE SHEET RW14
FOR ALIGNMENT DATA**

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 1/23/23 TO 9/23/24 .
4. CONTROL ACCESS MONUMENTS TO BE SET BY OTHERS DURING CONSTRUCTION.

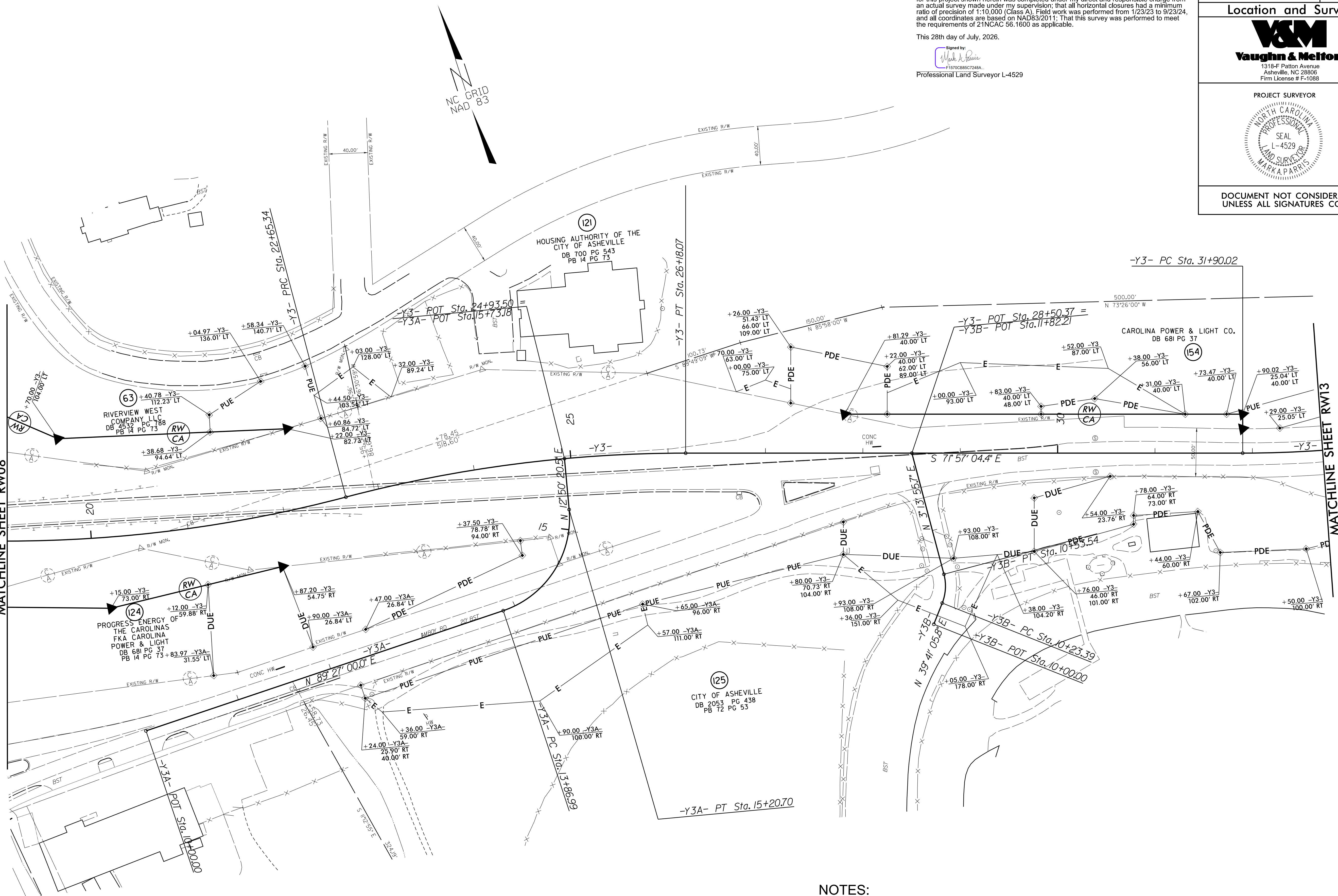
6/22/25

7/30/2025 9:22:38 AM
D:\WORK\10631513\AC-1s_RW12.dgn
11/25/2025 10:00:00

REVISIONS

MATCHLINE SHEET RW08

MATCHLINE SHEET RW13



I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (class A). Field work was performed from 1/23/23 to 9/23/24, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 28th day of July, 2026.

Signed by
Mark A. Parris
F15700CB85C7248A
Professional Land Surveyor L-4529

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW12
Location and Surveys	
 Vaughn & Melton 1318-F Patton Avenue Asheville, NC 28906 Firm License # F-1088	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NOTES:

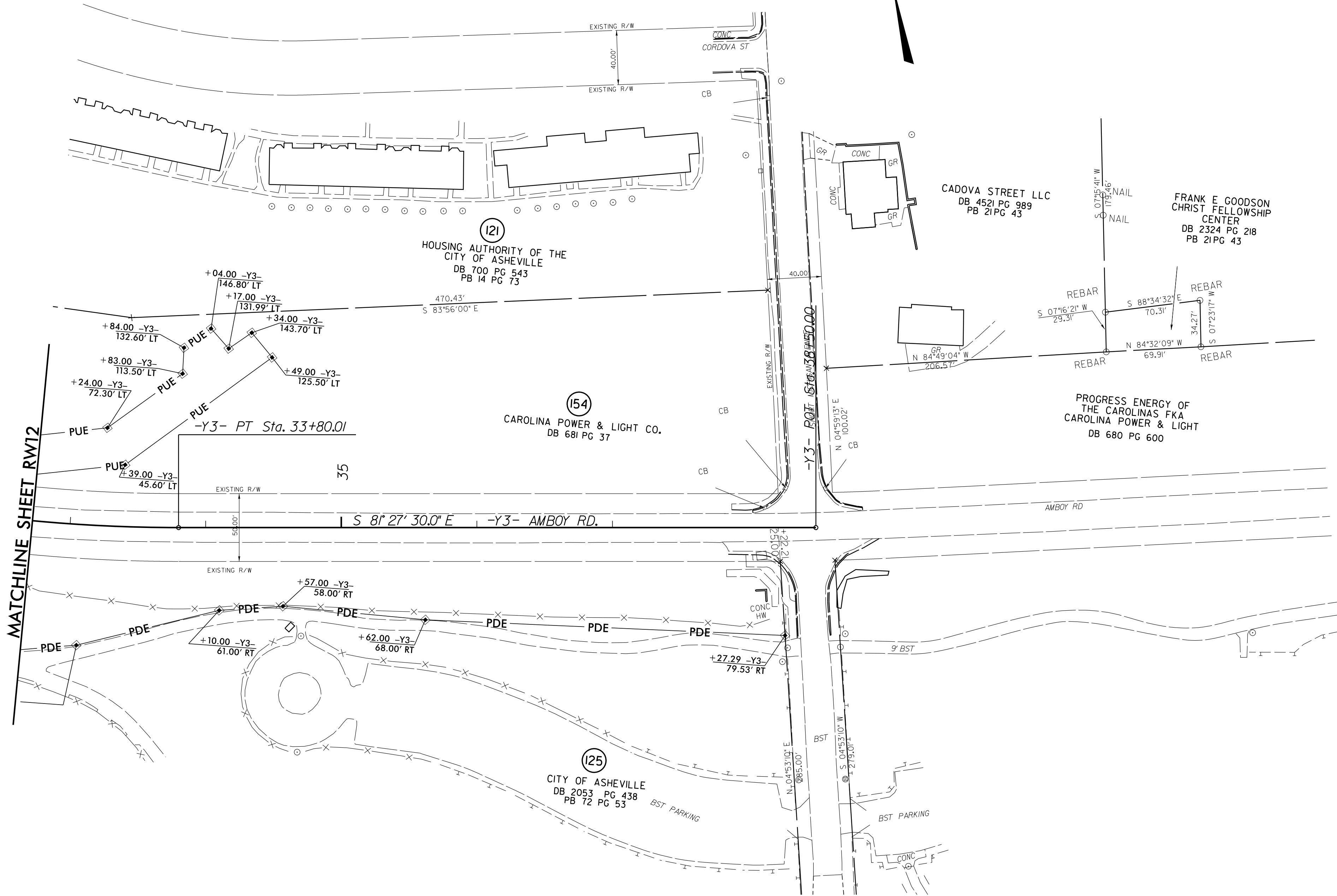
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 1/23/23 TO 9/23/24 .
4. CONTROL ACCESS MONUMENTS TO BE SET BY OTHERS DURING CONSTRUCTION.

**SEE SHEET RW14
FOR ALIGNMENT DATA**

6/22/2026

REVISIONS

7/31/2026 8:03:32 AM
106312013AC.1s_RW13.dgn
11/15/2026 10:03:32 AM
106312013AC.1s_RW13.dgn

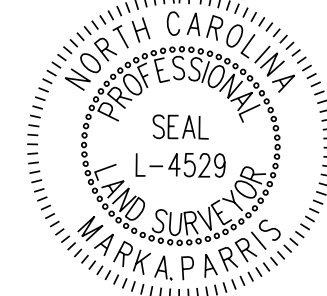


I, Mark A. Parris, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 1/23/23 to 9/23/24, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 28th day of July, 2026.

Signed by:
Mark A. Parris
F1570C885C7248A

Professional Land Surveyor L-4529

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	RW13
Location and Surveys	
 1318-F Patton Avenue Asheville, NC 28806 Firm License # F-1088	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 1/23/23 TO 9/23/24 .
4. CONTROL ACCESS MONUMENTS TO BE SET BY OTHERS DURING CONSTRUCTION.

6/2/2025

REVISIONS

7/30/2025 10:02:40 AM
C:\Users\joshua\OneDrive\Documents\106125136_C-1s_Pw14.dgn

PROPOSED ALIGNMENT CURVE DATA

PROJECT REFERENCE NO.

I-2513AC

SHEET NO.

RW14

Location and Surveys

V&M

Vaughn & Melton

1318-F Patton Avenue
Asheville, NC 28806
Firm License # F-1088

PROJECT SURVEYOR

NORTH CAROLINA

PROFESSIONAL

SEAL

L-4529

LAND SURVEYOR

MARK A. PARRIS

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

-L-													
PI Sta 14+32.09 Δ = 21' 06" 01.2" (RT) D = 2' 28" 10.7" L = 854.39' T = 432.09' R = 2,320.00'	Pls Sta 19+76.46 Θs = 4' 31' 10.0" Ls = 366.00' LT = 244.08' ST = 122.07'	PI Sta 29+74.15 Δ = 3' 02' 34.5" (RT) D = 0' 28" 38.9" L = 637.31' T = 318.73' R = 12,000.00'	PI Sta 52+29.12 Δ = 11' 08" 02.2" (LT) D = 0' 28" 38.9" L = 2,331.89' T = 1,169.63' R = 12,000.00'	Pls Sta 77+51.41 Θs = 6' 30' 57.6" Ls = 348.00' LT = 232.16' ST = 116.14'	PI Sta 83+63.77 Δ = 35' 57' 32.0" (LT) D = 3' 44' 41.4" L = 960.23' T = 496.52' R = 1,530.00'	Pls Sta 89+43.63 Θs = 6' 30' 57.6" Ls = 348.00' LT = 232.16' ST = 116.14'	Pls Sta 95+49.60 Θs = 6' 30' 57.6" Ls = 348.00' LT = 232.16' ST = 116.14'	PI Sta 97+29.80 Δ = 4' 49' 02.8" (RT) D = 3' 44' 41.4" L = 128.64' T = 64.36' R = 1,530.00'	Pls Sta 99+10.23 Θs = 6' 30' 57.6" Ls = 348.00' LT = 232.16' ST = 116.14'	Pls Sta 103+34.12 Θs = 3' 33' 22.6" Ls = 288.00' LT = 192.04' ST = 96.04'	PI Sta 108+17.41 Δ = 18' 57' 22.4" (LT) D = 2' 28' 10.7" L = 767.57' T = 387.32' R = 2,320.00'	Pls Sta 112+93.69 Θs = 3' 33' 22.6" Ls = 288.00' LT = 192.04' ST = 96.04'	PI Sta 118+89.27 Δ = 1' 35' 34.6" (RT) D = 0' 22' 55.1" L = 417.03' T = 208.53' R = 15,000.00'
-Y1-				-Y1A-				-Y1C-		-Y1D-			
PI Sta 16+29.48 Δ = 45' 37' 39.1" (LT) D = 10' 44' 58.8" L = 424.45' T = 224.20' R = 533.00'	PI Sta 22+87.20 Δ = 10' 57' 23.7" (RT) D = 1' 12' 04.2" L = 912.16' T = 457.48' R = 4,770.00'	PI Sta 32+84.16 Δ = 90' 59' 16.2" (LT) D = 10' 44' 58.8" L = 846.42' T = 542.27' R = 533.00'	PI Sta 41+36.61 Δ = 28' 16' 02.2" (RT) D = 24' 48' 12.1" L = 113.97' T = 58.17' R = 231.00'	PI Sta 42+44.69 Δ = 64' 24' 46.3" (RT) D = 69' 01' 51.8" L = 93.31' T = 52.28' R = 83.00'	PI Sta 11+53.08 Δ = 4' 09' 29.5" (LT) D = 11' 27' 33.0" L = 36.29' T = 18.15' R = 500.00'	PI Sta 10+93.81 Δ = 16' 56' 21.7" (RT) D = 9' 05' 40.4" L = 186.26' T = 93.81' R = 630.00'	PI Sta 15+02.00 Δ = 73' 52' 16.2" (LT) D = 22' 17' 59.8" L = 331.26' T = 193.16' R = 256.93'	PI Sta 12+72.21 Δ = 50' 44' 00.0" (LT) D = 19' 17' 29.4" L = 262.98' T = 140.81' R = 297.00'					
-Y2-				-Y2A-				-Y2B-		-Y2RPB-			
PI Sta 11+52.95 Δ = 37' 03' 04.6" (RT) D = 2' 47' 07.7" L = 170.07' T = 88.13' R = 263.00'	PI Sta 14+01.01 Δ = 28' 40' 19.9" (RT) D = 8' 48' 53.0" L = 325.28' T = 166.12' R = 650.00'	PI Sta 17+33.98 Δ = 49' 44' 06.1" (LT) D = 15' 16' 43.9" L = 325.51' T = 173.81' R = 375.00'	PI Sta 25+58.31 Δ = 67' 09' 15.1" (RT) D = 22' 55' 05.9" L = 293.02' T = 165.96' R = 250.00'	PI Sta 11+39.48 Δ = 71' 10' 44.4" (LT) D = 104' 10' 26.9" L = 68.33' T = 39.36' R = 55.00'	PI Sta 18+19.56 Δ = 193' 46' 18.0" (RT) D = 104' 10' 26.9" L = 186.01' T = 455.44' R = 55.00'	PI Sta 15+44.66 Δ = 66' 13' 45.4" (LT) D = 20' 27' 46.0" L = 323.66' T = 182.63' R = 280.00'	PI Sta 20+51.95 Δ = 49' 43' 40.6" (RT) D = 20' 27' 46.0" L = 243.02' T = 129.76' R = 280.00'	Pls Sta 11+38.68 Θs = 2' 11' 26.6" Ls = 208.00' LT = 138.68' ST = 69.34'	PI Sta 12+90.92 Δ = 3' 29' 32.1" (LT) D = 2' 06' 23.3" L = 165.79' T = 82.92' R = 2,720.00'	Pls Sta 14+43.13 Θs = 2' 11' 26.6" Ls = 208.00' LT = 138.68' ST = 69.34'	PI Sta 24+85.49 Δ = 4' 11' 09.0" (LT) D = 1' 03' 32.7" L = 395.24' T = 197.71' R = 5,410.00'	PI Sta 27+72.03 Δ = 16' 52' 35.6" (RT) D = 9' 32' 57.5" L = 176.73' T = 89.01' R = 600.00'	
-Y2RPC-				-Y3-				-Y3A-		-Y3B-		-Y3RPA-	
PI Sta 13+82.91 Δ = 5' 22' 47.8" (RT) D = 0' 42' 10.9" L = 765.27' T = 382.91' R = 8,150.00'	Pls Sta 18+85.27 Θs = 1' 15' 55.5" Ls = 360.00' LT = 240.01' ST = 120.01'	Pls Sta 24+38.49 Θs = 1' 36' 56.7" Ls = 282.00' LT = 188.01' ST = 94.01'	PI Sta 28+36.29 Δ = 6' 57' 15.8" (LT) D = 1' 08' 45.3" L = 606.88' T = 303.82' R = 5,000.00'	PI Sta 36+07.94 Δ = 19' 10' 21.3" (RT) D = 16' 22' 12.8" L = 117.12' T = 59.11' R = 350.00'	PI Sta 20+79.83 Δ = 15' 36' 51.1" (LT) D = 4' 10' 55.8" L = 373.35' T = 187.84' R = 1,370.00'	PI Sta 24+42.69 Δ = 14' 45' 07.0" (RT) D = 4' 10' 55.8" L = 352.73' T = 177.35' R = 1,370.00'	PI Sta 32+85.24 Δ = 9' 30' 25.6" (LT) D = 5' 00' 14.4" L = 189.99' T = 95.21' R = 1,145.00'	PI Sta 14+65.98 Δ = 76' 36' 39.5" (LT) D = 57' 17' 44.8" L = 133.71' T = 78.99' R = 100.00'	PI Sta 10+39.00 Δ = 36' 27' 10.1" (LT) D = 120' 53' 49.1" L = 30.15' T = 15.61' R = 47.39'	Pls Sta 10+66.69 Θs = 3' 37' 05.9" Ls = 200.00' LT = 133.36' ST = 66.69'	PI Sta 20+66.32 Δ = 29' 06' 17.2" (RT) D = 11' 14' 04.1" L = 259.07' T = 132.39' R = 510.00'	PI Sta 22+49.76 Δ = 20' 07' 10.6" (LT) D = 17' 54' 17.8" L = 112.37' T = 56.77' R = 320.00'	
-Y3RPD-				-Y4-				-Y4RPC-					
Pls Sta 10+78.84 Θs = 2' 55' 11.1" Ls = 159.00' LT = 80.30' ST = 78.84'	PI Sta 12+49.31 Δ = 6' 37' 35.4" (LT) D = 3' 40' 22.1" L = 180.42' T = 90.31' R = 1,560.00'	Pls Sta 13+92.43 Θs = 2' 55' 11.6" Ls = 159.00' LT = 106.01' ST = 53.01'	PI Sta 17+60.49 Δ = 12' 34' 48.4" (RT) D = 3' 13' 07.9" L = 390.82' T = 196.20' R = 1,780.00'	PI Sta 12+72.42 Δ = 41' 39' 00.0" (LT) D = 8' 00' 00.0" L = 520.63' T = 272.42' R = 716.20'	Pls Sta 11+13.49 Θs = 1' 50' 41.3" Ls = 246.00' LT = 132.65' ST = 113.49'	PI Sta 14+35.14 Δ = 5' 40' 09.2" (LT) D = 1' 29' 59.6" L = 377.98' T = 189.14' R = 3,820.00'	Pls Sta 17+05.98 Θs = 1' 50' 41.5" Ls = 246.00' LT = 164.01' ST = 82.01'	PIs Sta 20+90.17 Θs = 3' 39' 25.8" Ls = 120.00' LT = 80.02' ST = 40.02'	PI Sta 22+40.94 Δ = 13' 26' 38.3" (RT) D = 6' 05' 43.1" L = 220.56' T = 110.79' R = 940.00'	PI Sta 23+93.66 Δ = 19' 29' 10.6" (LT) D = 22' 55' 05.9" L = 85.02' T = 42.93' R = 250.00'			
-Y7-				-Y8-				-Y12-		-Y13-			
PI Sta 10+53.20 Δ = 66' 58' 40.4" (RT) D = 143' 14' 22.0" L = 46.76' T = 26.46' R = 40.00'	PI Sta 13+07.18 Δ = 25' 05' 40.2" (RT) D = 5' 27' 24.3" L = 459.88' T = 233.69' R = 1,050.00'	PI Sta 18+02.84 Δ = 19' 14' 27.7" (LT) D = 95' 29' 34.7" L = 20.15' T = 10.17' R = 60.00'	PI Sta 18+78.17 Δ = 95' 53' 12.8" (RT) D = 220' 28' 10.1" L = 43.49' T = 28.81' R = 25.99'	PI Sta 13+85.49 Δ = 31' 52' 10.8" (LT) D = 17' 15' 00.0" L = 184.75' T = 94.83' R = 332.15'	PI Sta 15+24.31 Δ = 11' 41' 49.2" (LT) D = 12' 00' 00.0" L = 97.48' T = 48.91' R = 477.46'	PI Sta 18+62.53 Δ = 52' 10' 00.0" (RT) D = 40' 00' 00.0" L = 130.42' T = 70.12' R = 143.24'	PI Sta 21+15.41 Δ = 22' 42' 48.4" (LT) D = 24' 00' 00.0" L = 94.64' T = 47.95' R = 238.73'	PI Sta 14+00.97 Δ = 133' 23' 00.0" (RT) D = 136' 25' 06.7" L = 97.78' T = 97.48' R = 42.00'	PI Sta 10+63.05 Δ = 43' 01' 04.8" (LT) D = 35' 48' 35.5" L = 120.13' T = 63.05' R = 160.00'				
-RP23-				-RP32-									
PI Sta 11+78.35 Δ = 40' 59' 21.4" (LT) D = 16' 51' 06.1" L = 243.24' T = 127.08' R = 340.00'	PI Sta 14+98.56 Δ = 15' 29' 37.9" (RT) D = 3' 49' 11.0" L = 405.63' T = 204.06' R = 1,500.00'	PI Sta 34+51.70 Δ = 5' 25' 32.4" (LT) D = 1' 05' 28.9" L = 497.15' T = 248.76' R = 5,250.00'	PI Sta 37+90.60 Δ = 14' 19' 47.6" (RT) D = 7' 57' 27.9" L = 180.07' T = 90.51' R = 720.00'	PI Sta 39+45.09 Δ = 32' 53' 02.6" (LT) D = 26' 02' 36.7" L = 126.27' T = 64.92' R = 220.00'	PI Sta 13+85.71 Δ = 15' 12' 47.6" (LT) D = 2' 36' 15.7" L = 584.15' T = 293.80' R = 2,200.00'	PI Sta 17+52.66 Δ = 0' 44' 16.0" (LT) D = 0' 28' 53.7" L = 153.20' T = 76.60' R = 11,897.50'	PI Sta 32+03.63 Δ = 23' 46' 08.3" (LT) D = 4' 05' 33.2" L = 580.79' T = 294.63' R = 1,400.00'						