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09/06/19

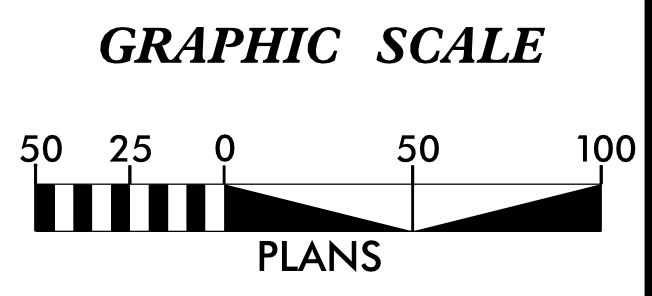
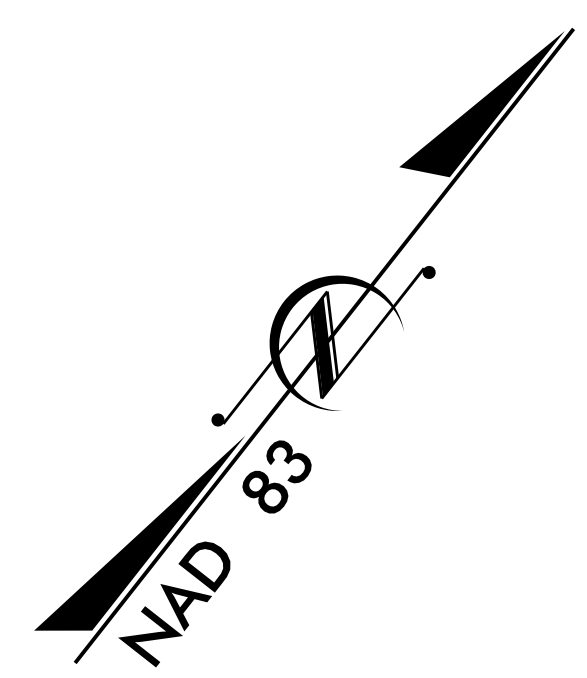
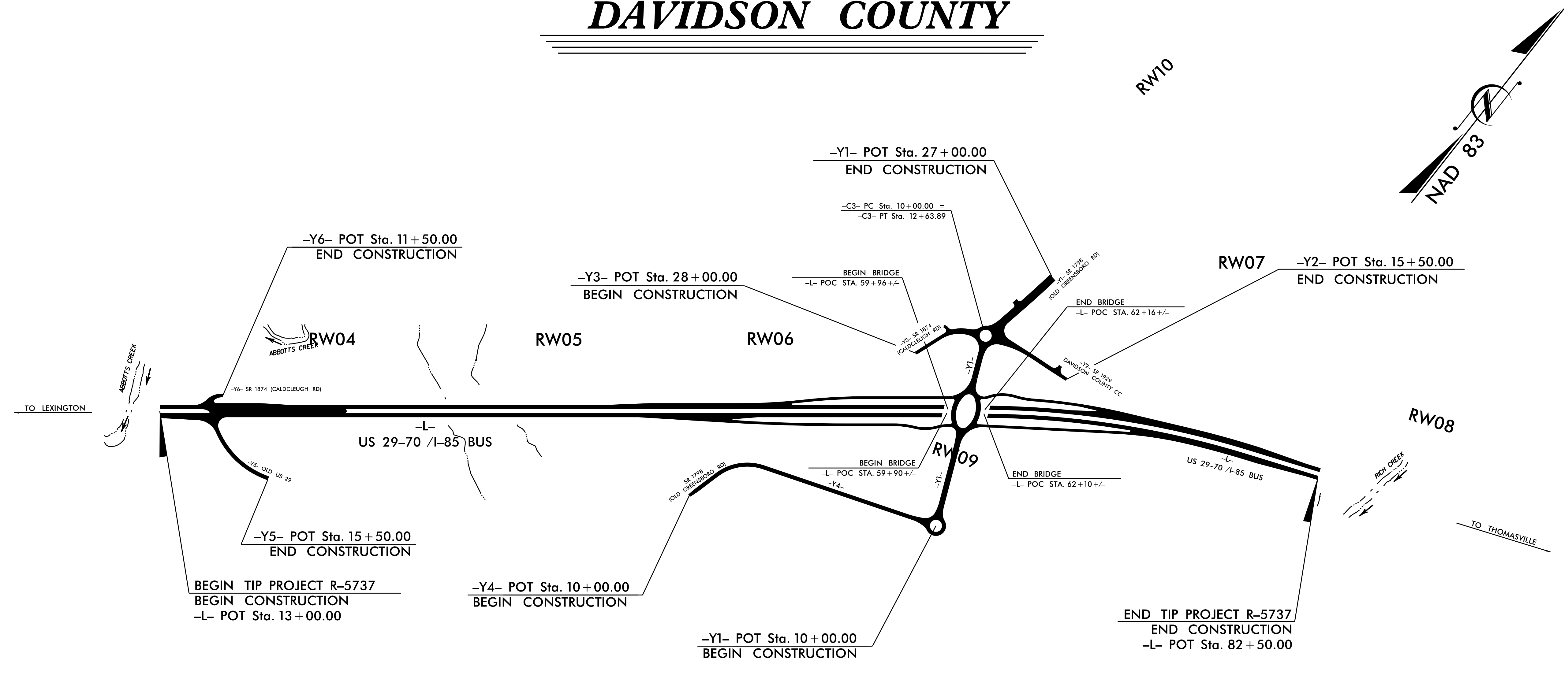
TIP PROJECT: R-5737

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.		RW01	

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

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

DAVIDSON COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT GPS MONUMENT "R5737-3" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 771,624.696(ft) EASTING: 1,650,463.369(ft) ELEVATION: 687.380 (ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99990171 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R5737-3" TO -L- STATION 10+00.00 IS S 53-00'47.4" W 6,585.32(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88/GEOID G12NC

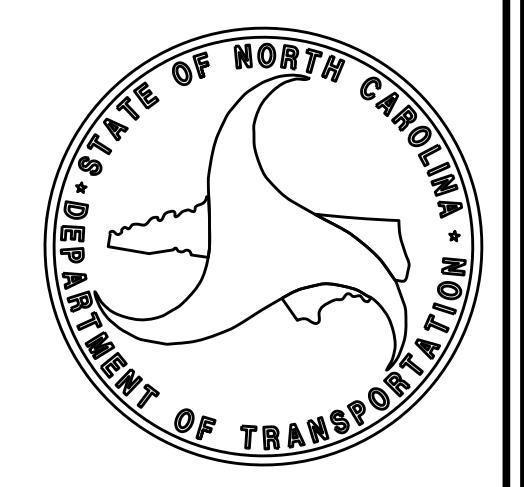
Prepared in the Office of:

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: AUGUST 18, 2018	LETTING DATE: AUGUST 14, 2019
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PROFESSIONAL LAND SURVEYOR

DocuSigned by:
 Jason C. Hedley
 408CE025263344E...
 SIGNATURE: _____

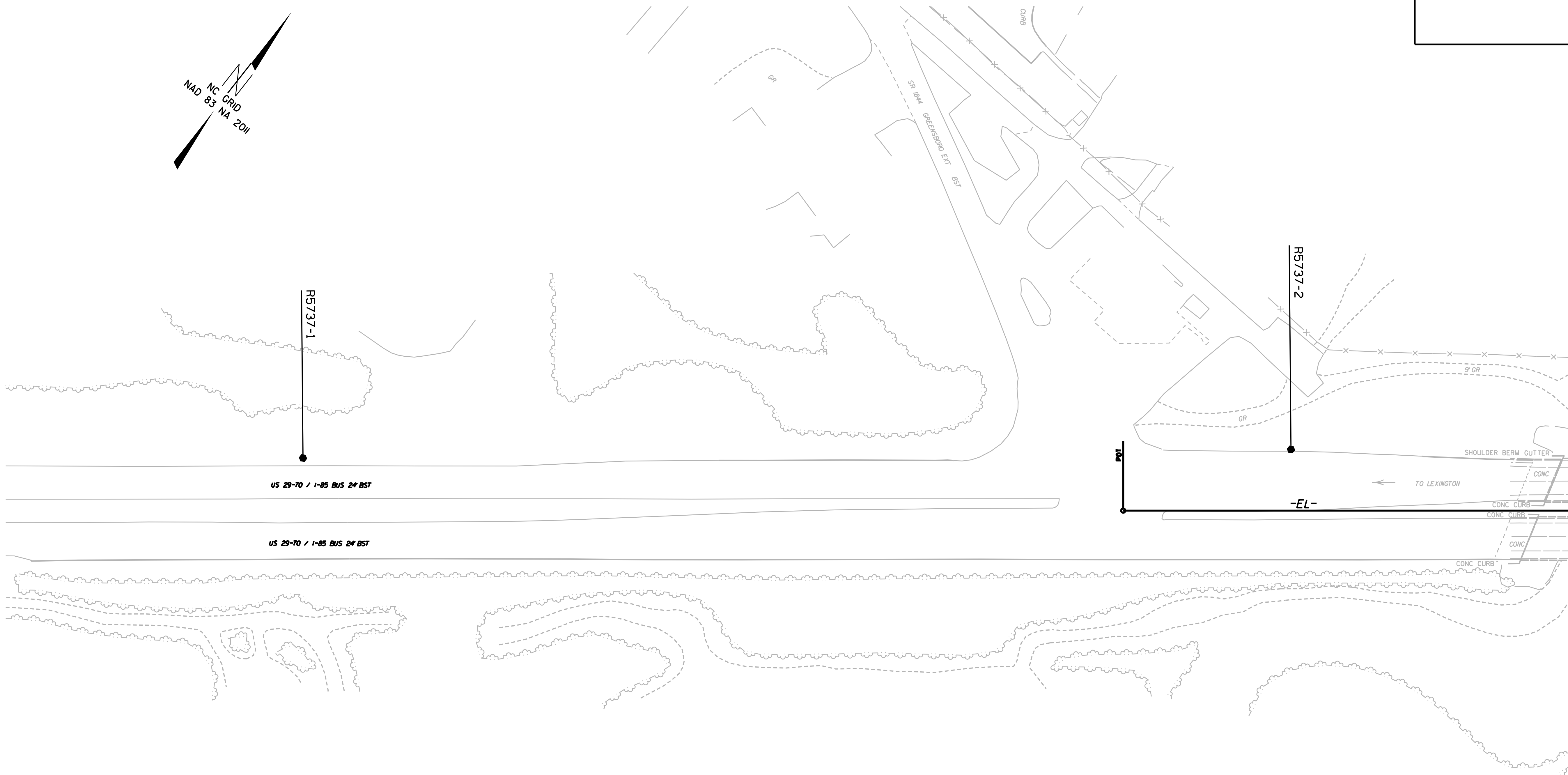
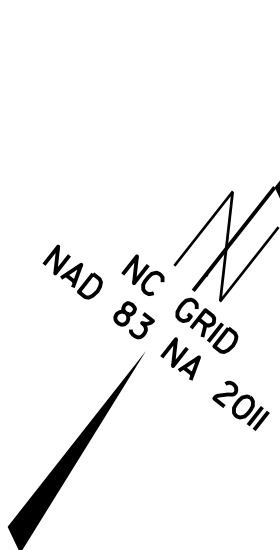


\$\$\$\$\$ SYSTEM \$\$\$\$\$\$
 \$\$\$ DDN \$\$\$
 \$\$\$ USERNAME \$\$\$

PROJECT REFERENCE NO.	SHEET NO.
R-5737	RW02C-1
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



MATCHLINE SHEET RW02C-2

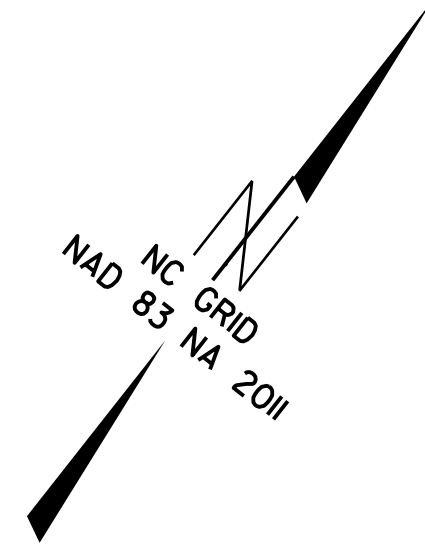
SEE SHEET RW02C-13
FOR FURTHER
ALIGNMENT DETAILS

- 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.

PROJECT REFERENCE NO.	SHEET NO.
R-5737	RW02C-2
Location and Surveys	

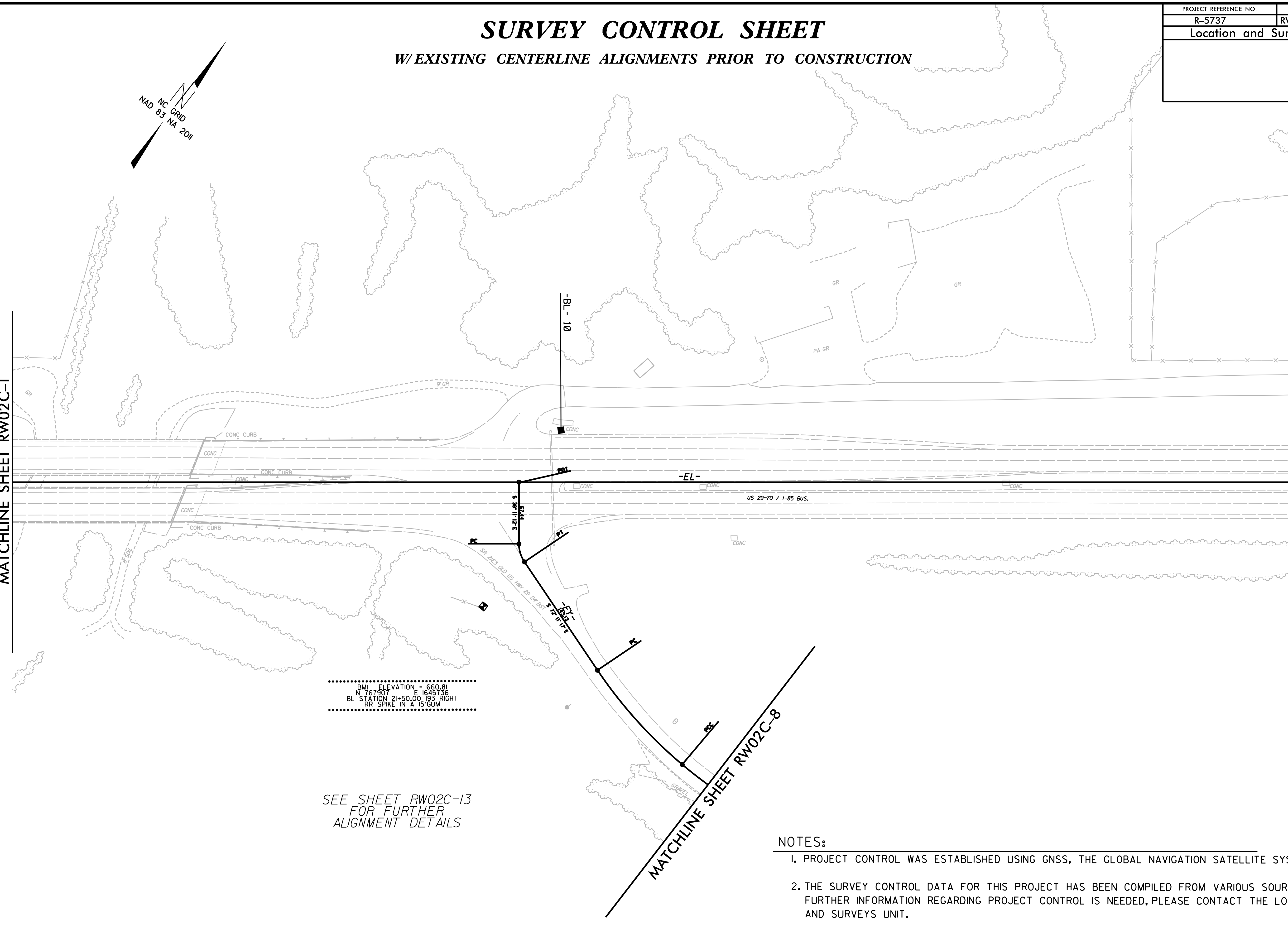
SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



MATCHLINE SHEET RW02C-1

MATCHLINE SHEET RW02C-3



.....
 BM ELEVATION = 660.81
 N 767907 E 1645736
 BL STATION 2+50.00 193 RIGHT
 RR SPIKE IN A ISGUM

SEE SHEET RW02C-13
 FOR FURTHER
 ALIGNMENT DETAILS

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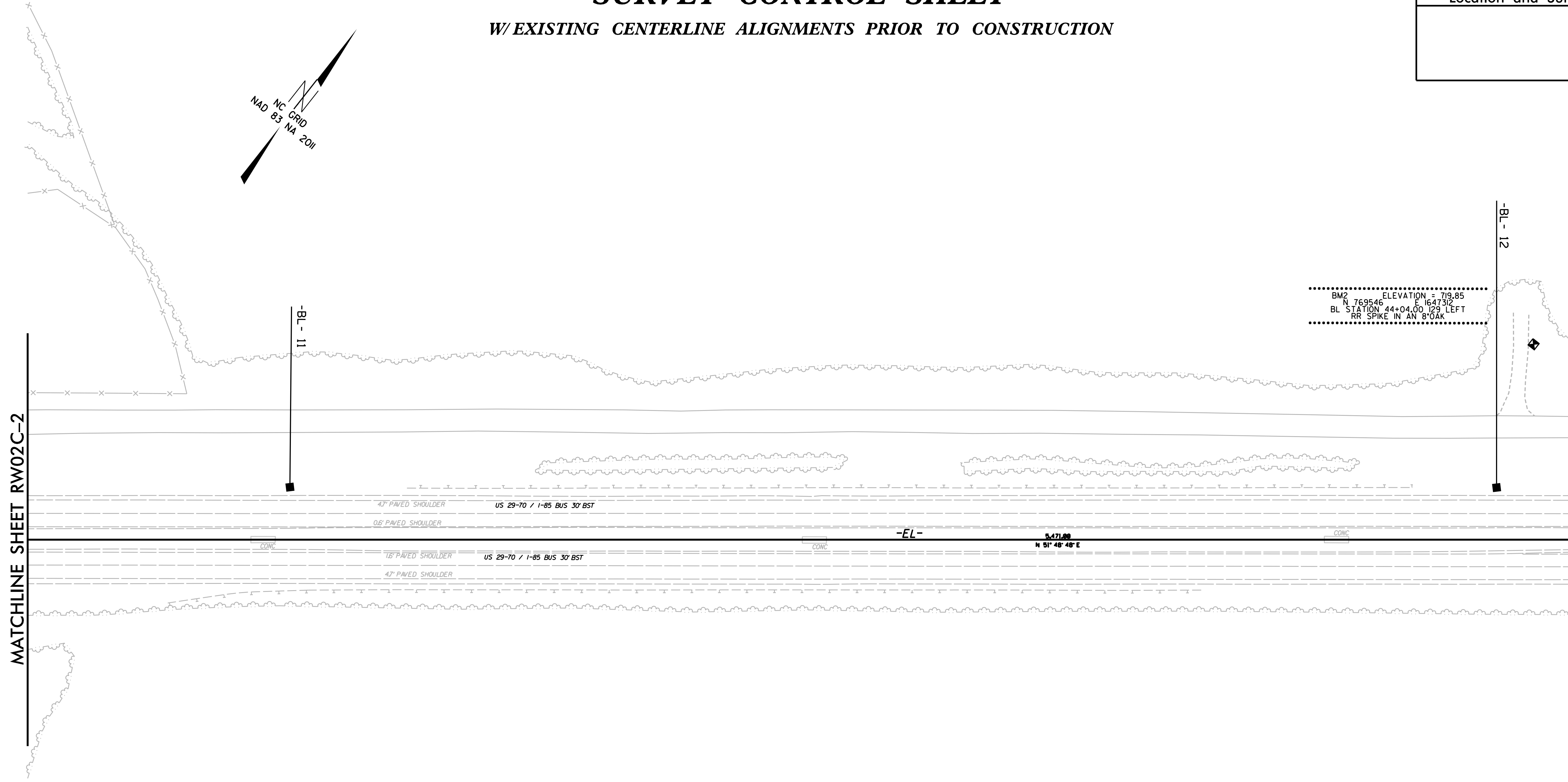
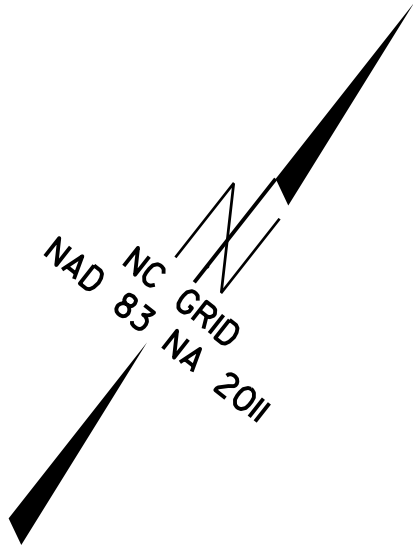
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 AT LS-312635
 mmotsinger

6/2/09

PROJECT REFERENCE NO.	SHEET NO.
R-5737	RW02C-3
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



MATCHLINE SHEET RW02C-2

MATCHLINE SHEET RW02C-4

SEE SHEET RW02C-13 FOR FURTHER ALIGNMENT DETAILS

NOTES:

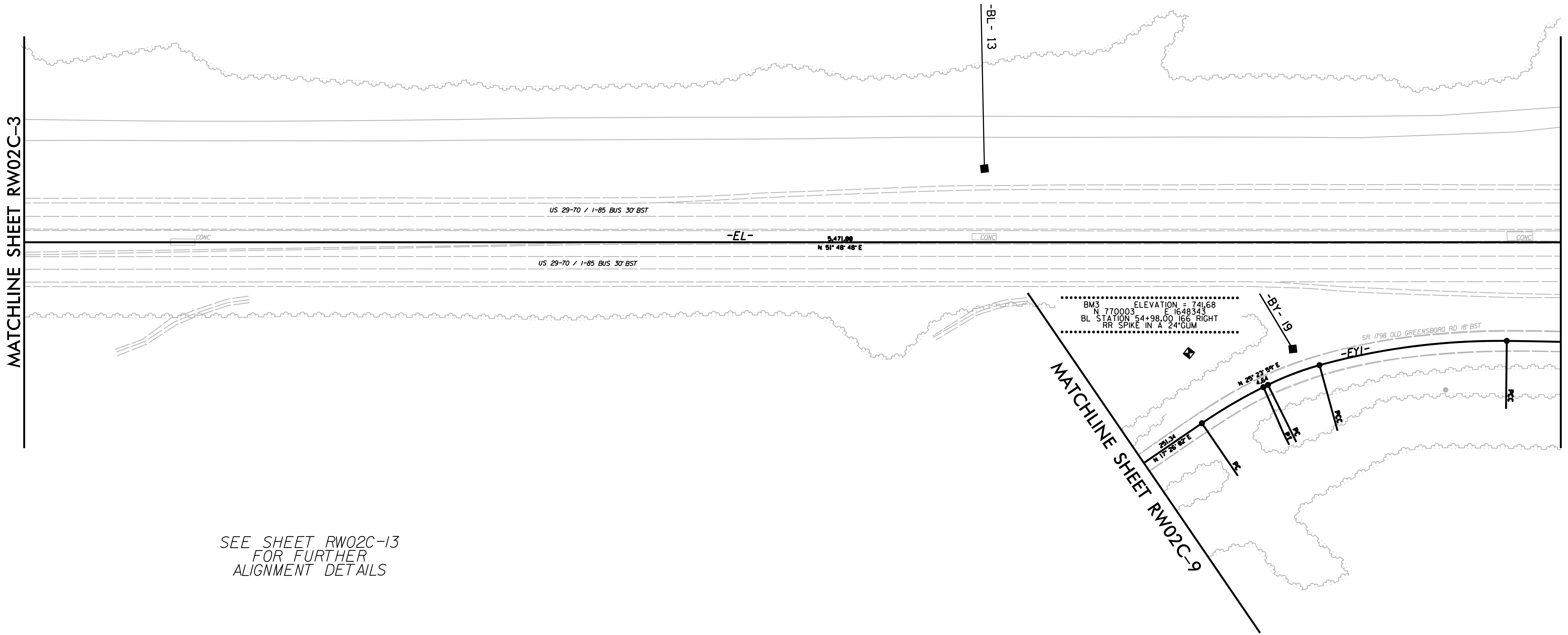
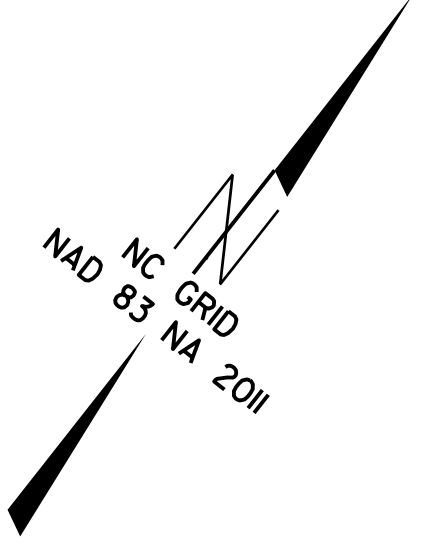
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 AT LS-312635
 mmotsinger

PROJECT REFERENCE NO.	SHEET NO.
R-5737	RW02C-4
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



NOTES:

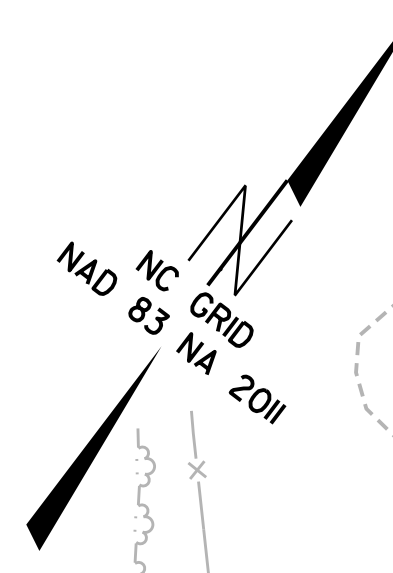
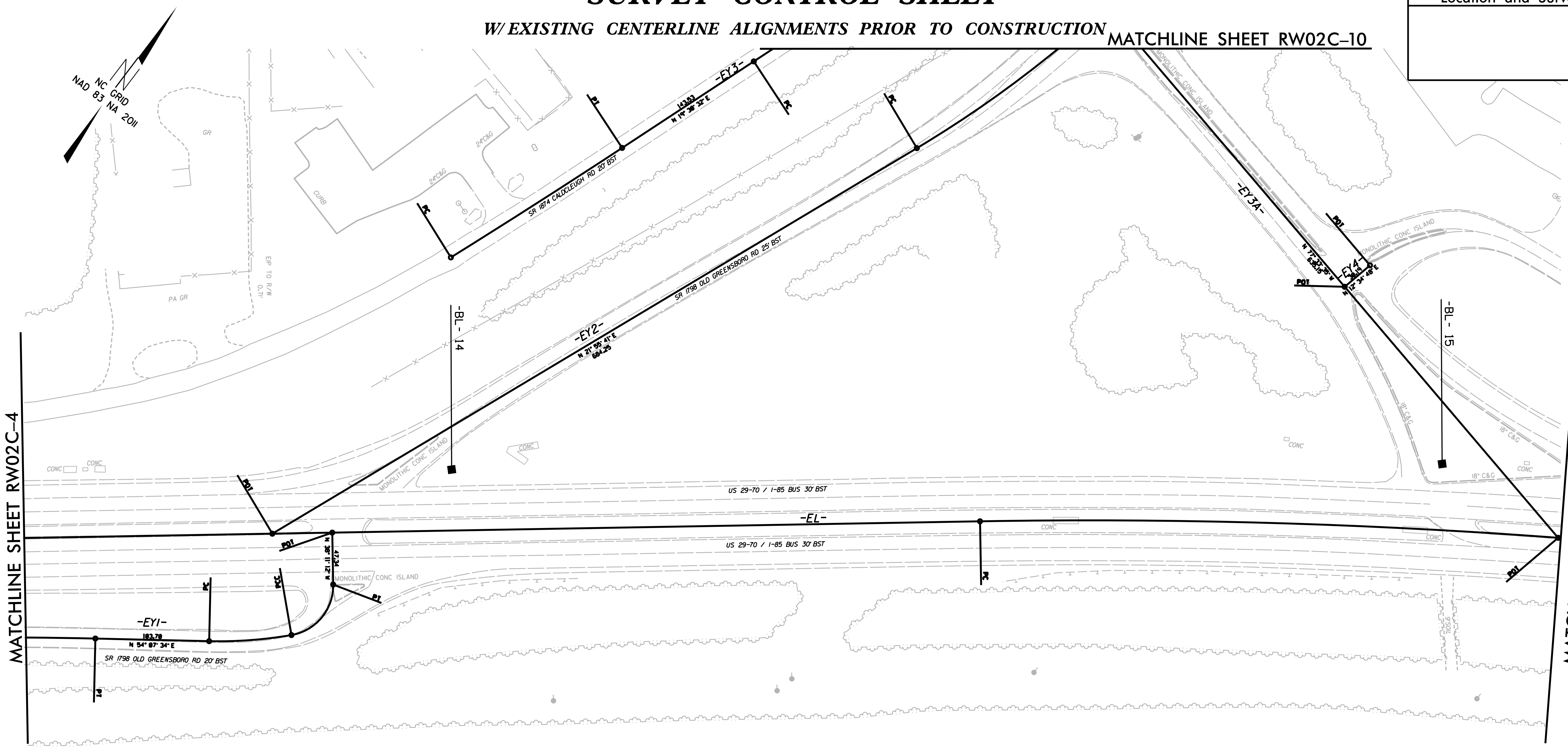
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PROJECT REFERENCE NO.	SHEET NO.
R-5737	RW02C-5
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION MATCHLINE SHEET RW02C-10



SEE SHEET RW02C-13
FOR FURTHER
ALIGNMENT DETAILS

NOTES:

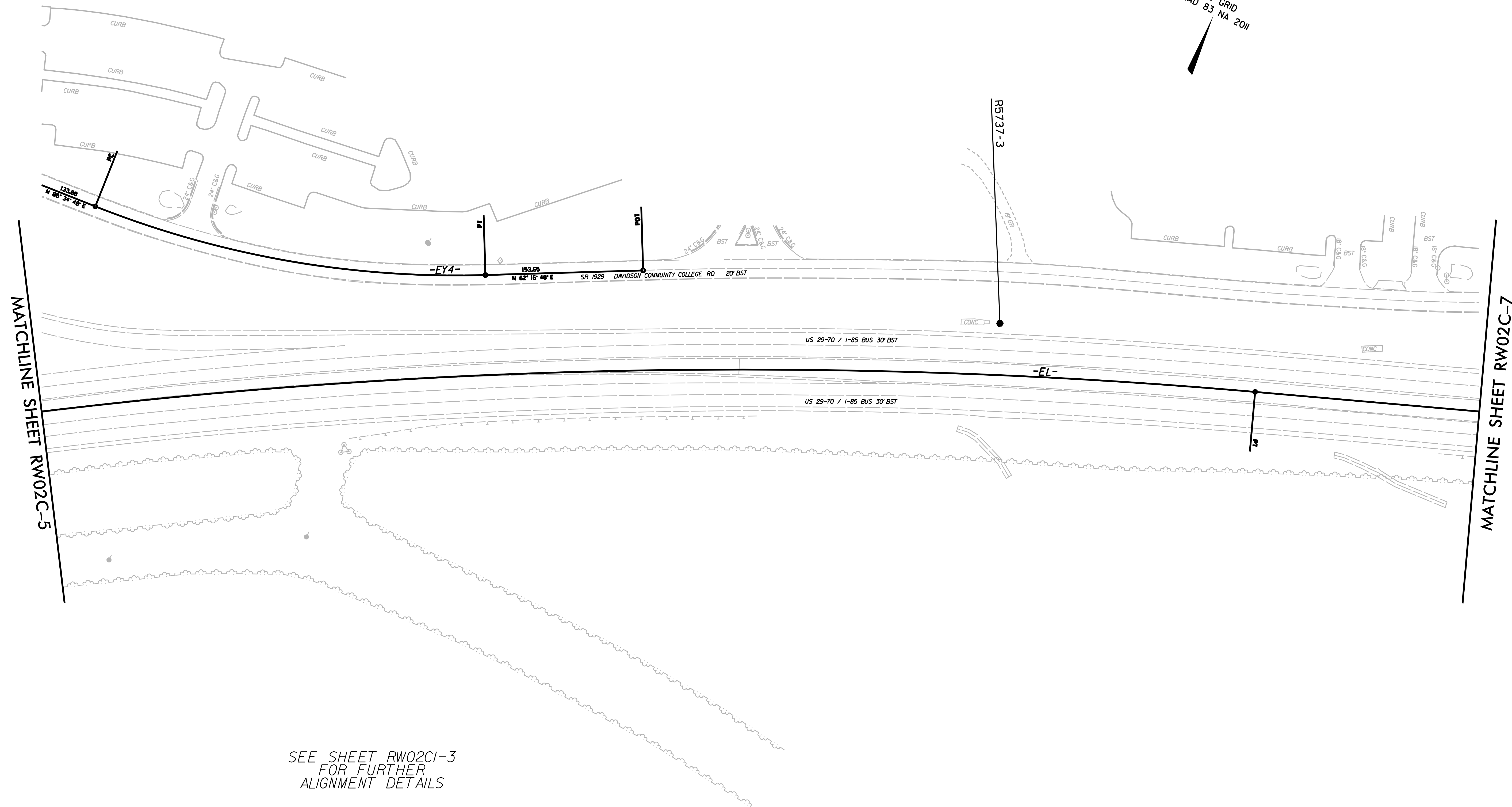
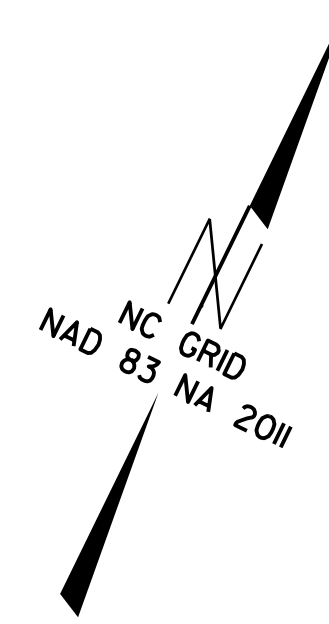
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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-5737	RW02C-6
Location and Surveys	



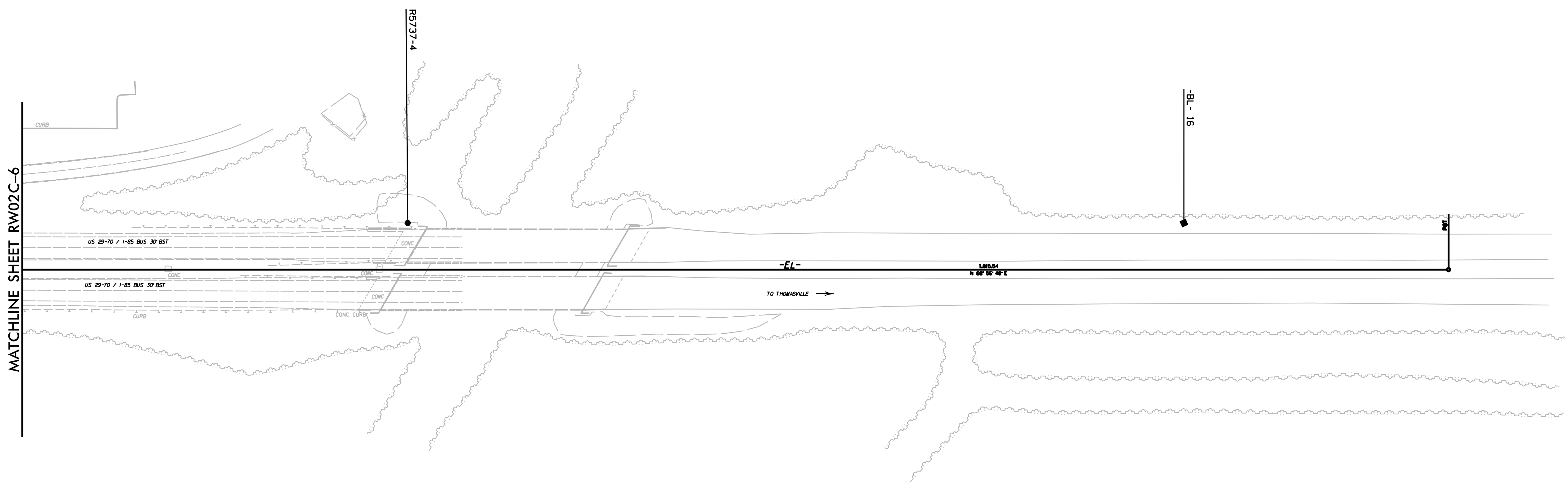
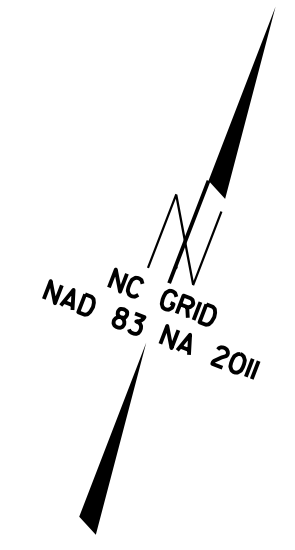
NOTES:

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PROJECT REFERENCE NO.	SHEET NO.
R-5737	RW02C-7
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-13
FOR FURTHER
ALIGNMENT DETAILS

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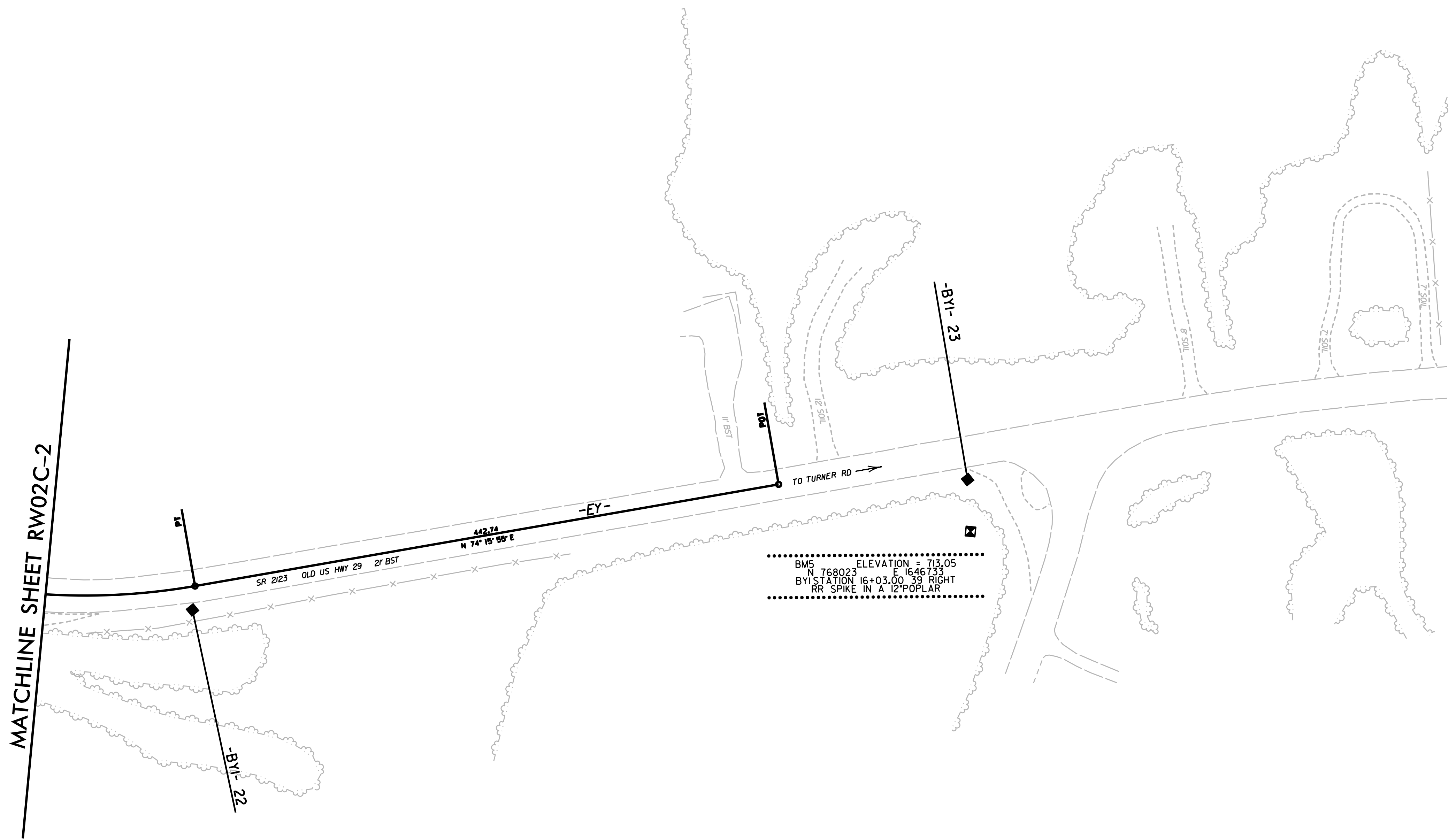
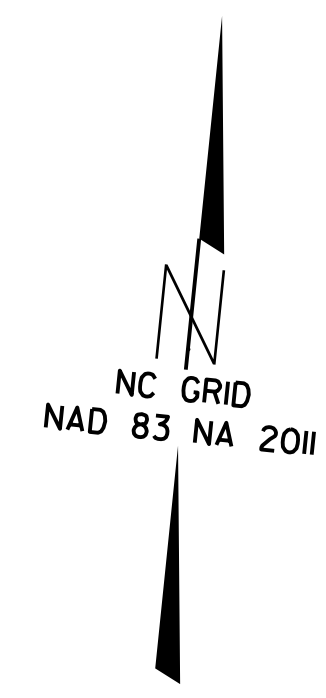
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 AT LS-312635

PROJECT REFERENCE NO.	SHEET NO.
R-5737	RW02C-8
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-13
FOR FURTHER
ALIGNMENT DETAILS

NOTES:

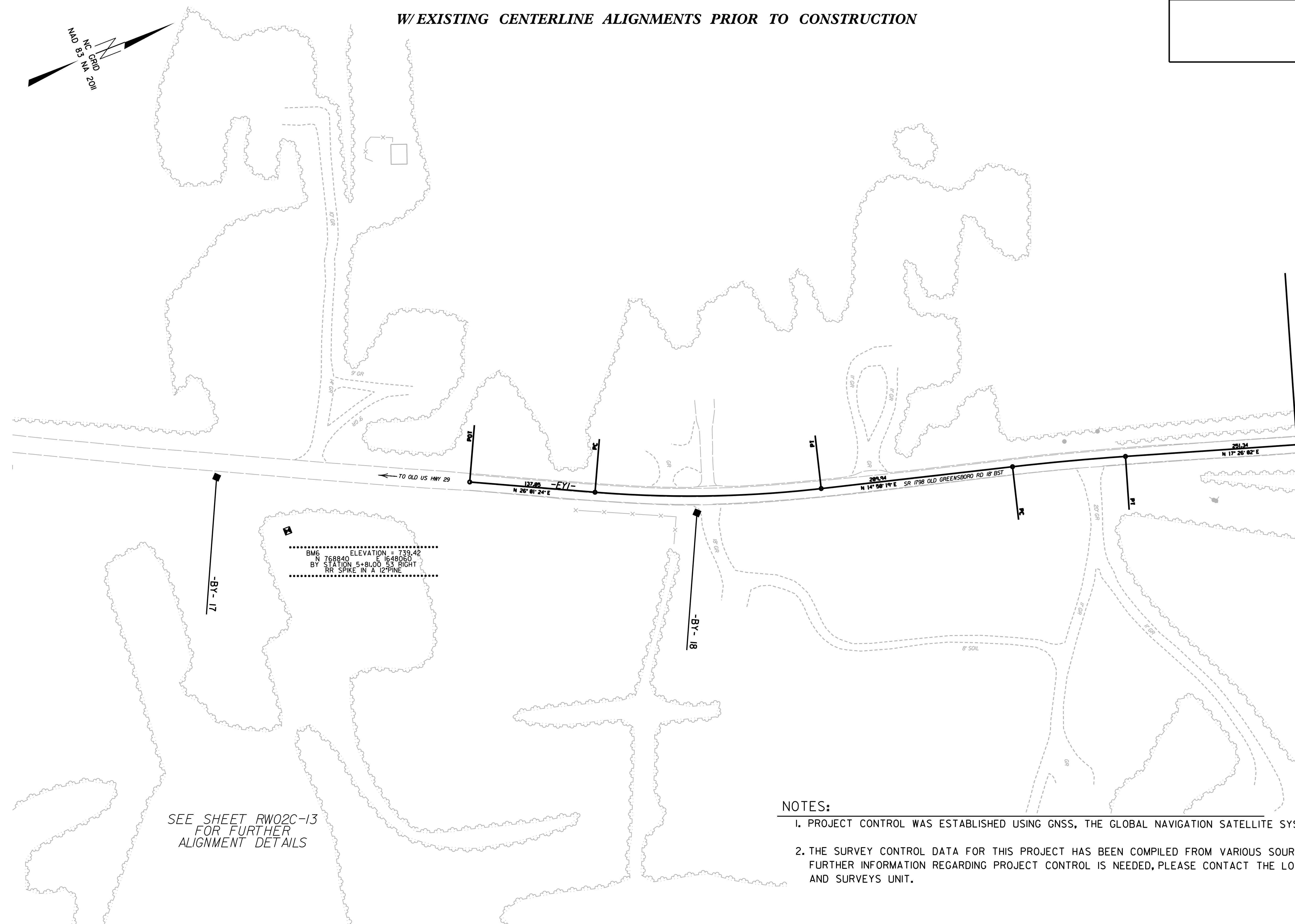
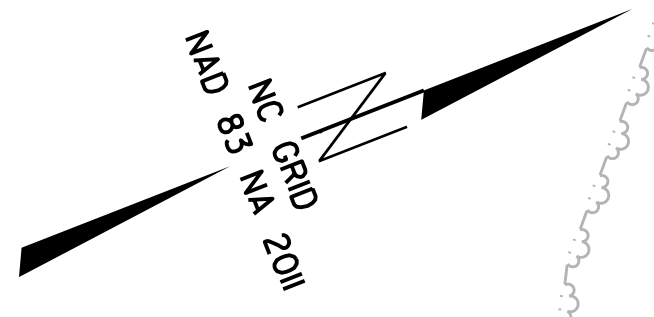
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AT LS-312635
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PROJECT REFERENCE NO.	SHEET NO.
R-5737	RW02C-9
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



MATCHLINE SHEET RW02C-4

SEE SHEET RW02C-13
FOR FURTHER
ALIGNMENT DETAILS

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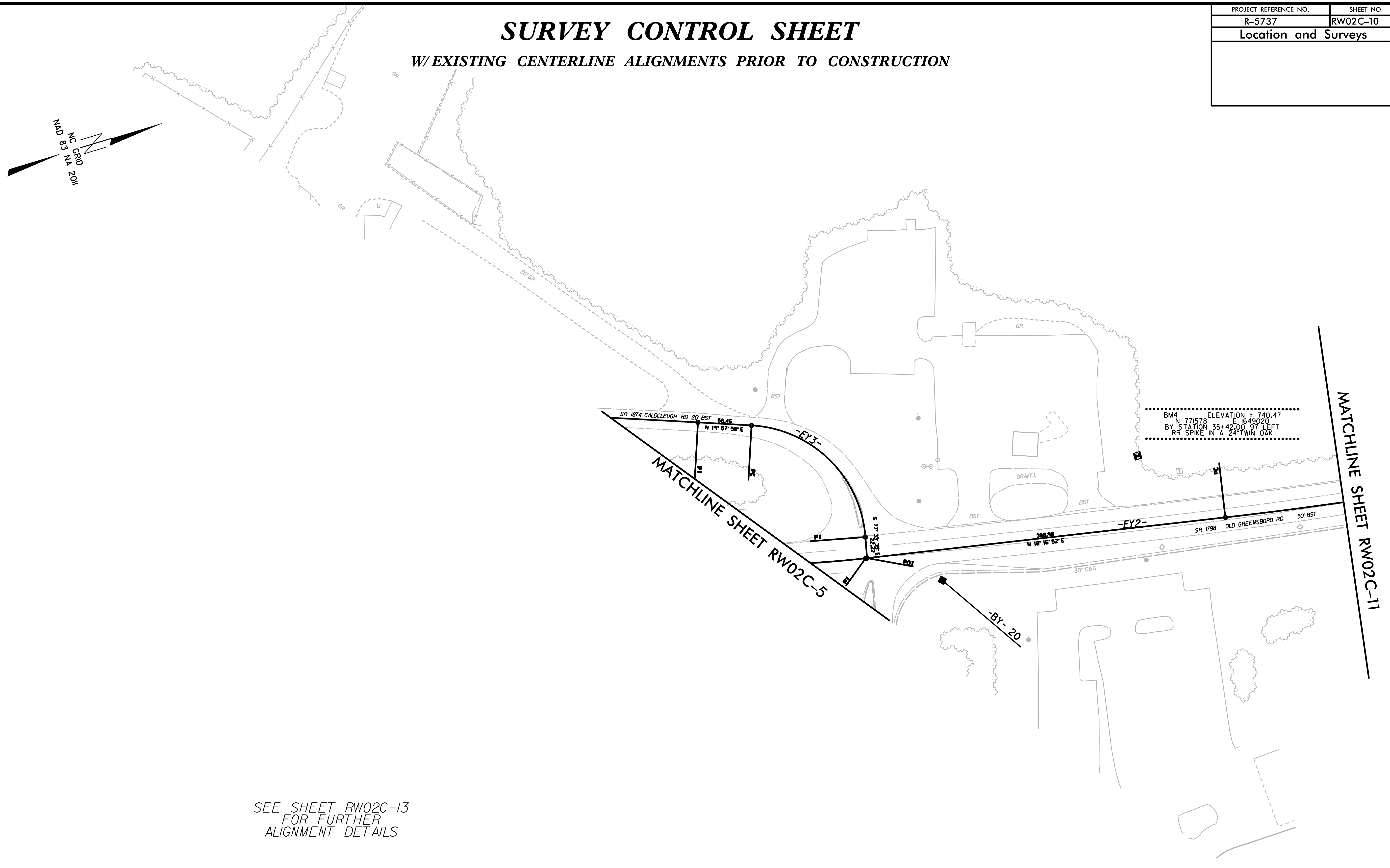
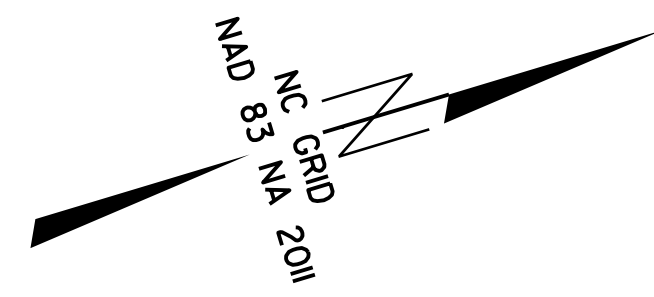
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mmotsinger AT LS-312635

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-5737	RW02C-10
Location and Surveys	



SEE SHEET RW02C-13
FOR FURTHER
ALIGNMENT DETAILS

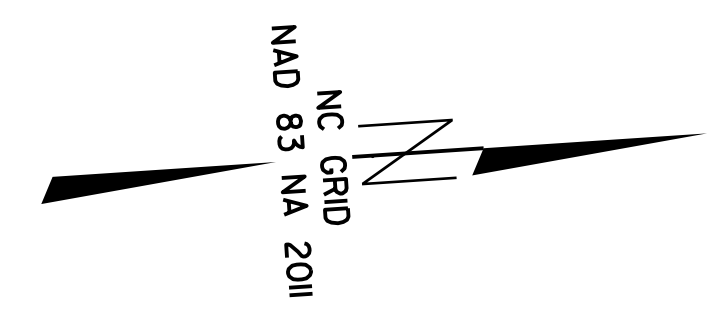
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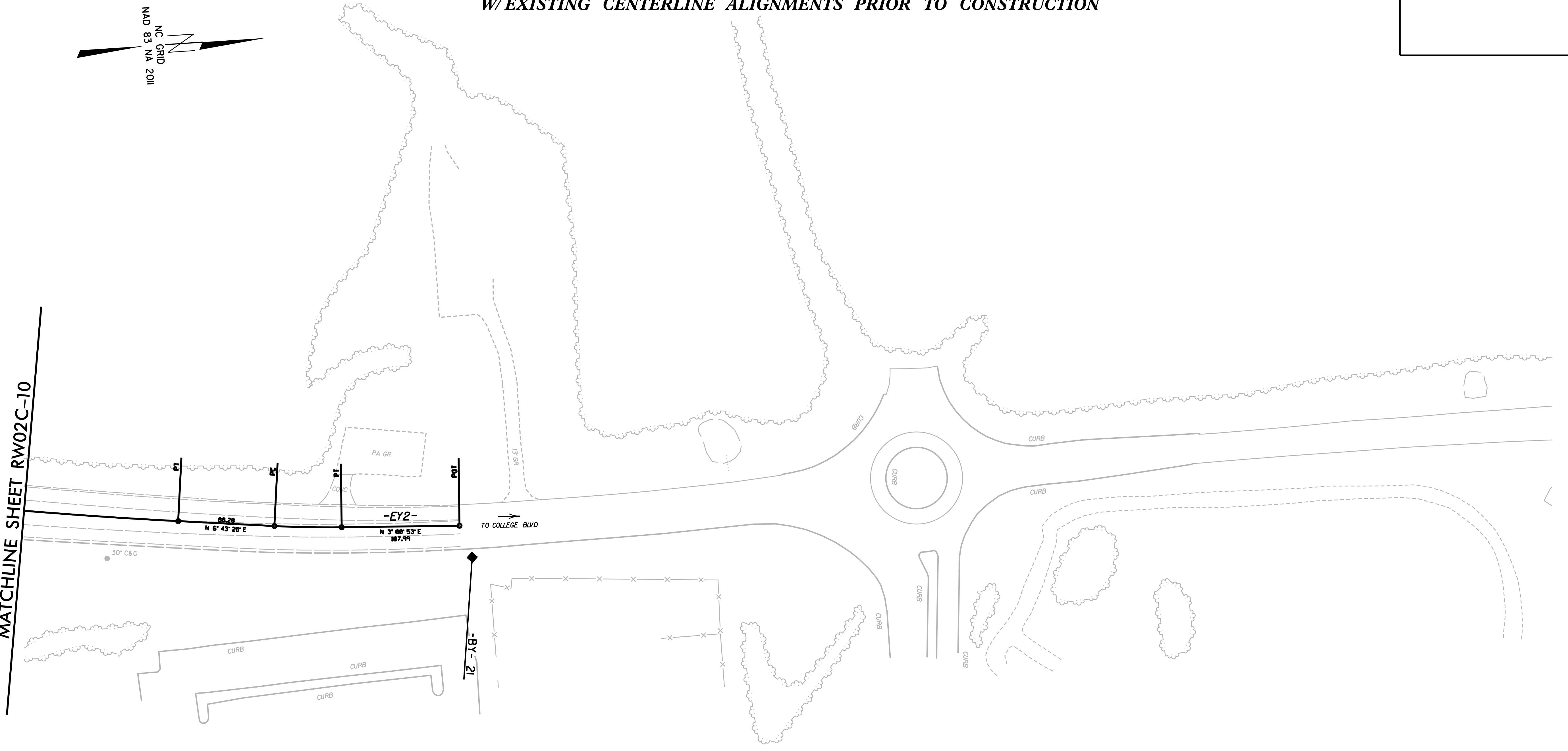
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R-5737	RW02C-11
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



MATCHLINE SHEET RW02C-10



SEE SHEET RW02C-13
FOR FURTHER
ALIGNMENT DETAILS

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mmotsinger AT LS-312635

PROJECT REFERENCE NO.	SHEET NO.
R-5737	RW02C-12
Location and Surveys	

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		R5737-1	767031.0632	1644325.7075	677.34
2		R5737-2	767583.6625	1645015.8520	668.18
10		BL-10	768111.6316	1645683.3463	667.86
11		BL-11	768745.3746	1646504.1597	685.06
12		BL-12	769422.3922	1647365.5352	706.90
13		BL-13	770019.7444	1648093.1016	726.80
14		BL-14	770576.7719	1648819.8899	738.56
15		BL-15	771126.2864	1649535.7277	726.67
3		R5737-3	771624.6957	1650463.3690	687.38
4		R5737-4	771956.3371	1651304.4054	670.92
16		BL-16	772268.3349	1652115.0950	671.22

BY	POINT	DESC.	NORTH	EAST	ELEVATION
17		BY-17	768789.2680	1647977.2291	738.26
18		BY-18	769262.7450	1648204.1149	752.62
19		BY-19	770064.3325	1648415.4796	739.24
A14		BL-14	770576.7719	1648819.8899	738.56
20		BY-20	771343.9744	1649085.8975	741.95
21		BY-21	772178.9208	1649198.7511	741.63

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
A10		BL-10	768111.6316	1645683.3463	667.86
22		BY1-22	767905.4204	1646160.6265	681.09
23		BY1-23	768061.4234	1646726.9902	711.85

.....
 BM1 ELEVATION = 660.81
 N 767907 E 1645736
 RRSPIKE IN15' GUM

.....
 BM2 ELEVATION = 719.85
 N 769546 E 1647312
 RRSPIKE IN8' OAK

.....
 BM3 ELEVATION = 741.68
 N 770003 E 1648343
 RRSPIKE IN24' GUM

.....
 BM4 ELEVATION = 740.47
 N 771578 E 1649020
 RRSPIKE IN24' TWINOAK

.....
 BM5 ELEVATION = 713.05
 N 768023 E 1646733
 RRSPIKE IN12' POPLAR

.....
 BM6 ELEVATION = 739.42
 N 768840 E 1648060
 RRSPIKE IN12' PINE

NOTES:

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REVISIONS

6/2/09

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	767447.846	1644931.714							
LINE			N 51°48'48.2" E	5471.00					
PC	770830.154	1649231.927	N 60°22'48.2" E	1707.08	17°08'00.0"(L T)	00°59'59.7"	1713.46	863.17	5730.00
CURVE									
PT	771673.871	1650715.933	N 68°56'48.2" E	1815.54					
LINE									
POT	772326.078	1652410.280							

EY									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	768038.273	1645682.374							
LINE			S 38°11'11.8" E	67.44					
PC	767985.263	1645724.069	S 55°11'14.5" E	20.83	34°00'05.4"(L T)	160°52'51.2"	21.13	10.89	35.61
CURVE									
PT	767973.374	1645741.167	S 72°11'17.2" E	143.13					
LINE									
PC	767929.592	1645877.433	S 80°06'22.8" E	138.91	15°50'11.3"(L T)	11°21'50.7"	139.36	70.12	504.18
CURVE									
PCC	767905.724	1646014.280	N 83°07'13.4" E	147.50	17°42'36.2"(L T)	11°57'33.9"	148.08	74.64	479.08
CURVE									
P	767923.392	1646160.714	N 74°15'55.3" E	442.74					
LINE									
POT	768043.455	1646586.864							

EY1									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	769044.307	1648082.567							
LINE			N 26°01'24.3" E	137.05					
PC	769167.464	1648142.697	N 20°25'51.4" E	246.57	11°11'05.8"(L T)	04°31'44.6"	246.96	123.87	1265.07
CURVE									
PT	769398.520	1648228.769	N 14°50'18.5" E	209.94					
LINE									
PC	769601.460	1648282.534	N 16°08'10.4" E	123.64	02°35'43.7"(RT)	02°05'56.7"	123.65	61.83	2729.55
CURVE									
PT	769720.227	1648316.895	N 17°26'02.2" E	251.34					
LINE									
PC	769960.018	1648392.197	N 21°25'00.7" E	64.94	07°57'56.9"(RT)	12°15'26.5"	64.99	32.55	467.44
CURVE									
PT	770020.470	1648415.909	N 25°23'59.1" E	4.64					
LINE									
PC	770024.664	1648417.900	N 30°54'09.0" E	50.26	11°00'19.8"(RT)	21°51'43.9"	50.34	25.25	262.08
CURVE									
PCC	770067.792	1648443.714	N 44°25'58.5" E	172.07	16°03'19.3"(RT)	09°18'00.7"	172.63	86.89	616.07
CURVE									
PCC	770190.662	1648564.176	N 53°17'36.1" E	112.49	01°39'55.9"(RT)	01°28'50.2"	112.49	56.25	3869.76
CURVE									
PT	770257.897	1648654.357	N 54°07'34.1" E	103.70					
LINE									
PC	770318.665	1648738.385	N 48°33'43.7" E	75.18	11°07'40.7"(L T)	14°46'43.0"	75.30	37.77	387.69
CURVE									
PCC	770368.419	1648794.745	N 02°24'20.8" E	59.66	81°11'05.2"(L T)	124°58'35.9"	64.96	39.28	45.85
CURVE									
PT	770428.027	1648797.249	N 38°11'11.8" W	47.34					
LINE									
POT	770465.239	1648767.980							

EY2									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	770431.486	1648725.067							
LINE			N 21°55'40.5" E	684.25					
PC	771066.234	1648980.593	N 16°06'16.4" E	215.58	11°38'48.2"(L T)	05°23'35.7"	215.95	108.35	1062.36
CURVE									
PT	771273.352	1649040.393	N 10°16'52.4" E	380.90					
LINE									
PC	771648.137	1649108.375	N 08°30'08.8" E	267.03	03°33'27.1"(L T)	01°19'55.5"	267.07	133.58	4301.35
CURVE									
PT	771912.232	1649147.856	N 06°43'25.2" E	88.28					
LINE									
PC	771999.905	1649158.192	N 04°52'09.0" E	61.70	03°42'32.6"(L T)	06°00'46.1"	61.69	30.87	953.33
CURVE									
P	772061.386	1649163.430	N 03°00'52.7" E	107.99					
LINE									
POT	772169.221	1649169.109							

EY3									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	770730.305	1648702.506	N 20°13'15.2" E	185.22	01°25'26.7"(L T)	00°46'07.8"	185.23	92.62	7452.26
CURVE									
PT	770904.111	1648766.527	N 19°30'31.9" E	143.53					
LINE									
PC	771039.402	1648814.459	N 19°44'11.1" E	112.91	00°27'18.4"(RT)	00°24'11.1"	112.91	56.46	14214.65
CURVE									
PT	771145.679	1648852.588	N 19°57'50.3" E	56.46					
LINE									
PC	771198.741	1648871.864	N 61°12'07.8" E	167.86	82°28'35.1"(RT)	44°59'59.9"	183.28	111.61	127.32
CURVE									
PT	771279.604	1649018.965	S 77°33'34.6" E	22.22					
LINE									
POT	771274.818	1649040.658							

EY3A				
POINT	N	E	BEARING	DIST
POT	771136.526	1649660.632		
LINE			N 77°33'34.6" W	635.15
POT	771273.352	1649040.393		

EY4									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	771201.197	1649367.475							
LINE			N 12°34'48.1" E	30.19					
PC	771230.662	1649374.051	N 49°04'48.1" E	151.47	73°00'00.0"(RT)	46°14'42.3"	157.85	94.21	127.32
CURVE									
PT	771329.876	1649488.506	N 85°34'48.1" E	133.88					
LINE									
PC	771340.193	1649621.983	N 73°55'48.1" E	385.66	23°18'00.0"(L T)	06°00'09.9"	388.16	196.89	954.93
CURVE									
PT	771446.949	1649992.576	N 62°16'48.1" E	153.65					
LINE									
POT	771518.422	1650128.596							

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.

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PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5737	RW02D-1
Location and Surveys	
SO-DEEP SAM NC	

BT			
TYPE	STATION	NORTH	EAST
POT	10+00.00	770920.6443	1649193.6590
EOB	10+03.57	770921.0869	1649190.1194
EOA	10+16.06	770921.0869	1649190.1194

BT2			
TYPE	STATION	NORTH	EAST
POT	10+00.00	770743.6720	1649246.9266
TS	10+69.80	771246.4266	1649956.7107
SC	19+69.80	771303.6336	1650038.7286
CS	22+90.94	771464.3894	1650316.4360
SC	23+90.94	771506.7403	1650407.0207
PT	26+34.53	771601.8771	1650631.2427
EOB	26+44.16	771605.8426	1650640.0091
EOA	7+38.69	771605.8426	1650640.0091

C1			
TYPE	STATION	NORTH	EAST
PC	10+00.00	770207.5398	1649480.2958
PCC	11+31.95	770130.5200	1649513.8212
PT	12+63.89	770207.5398	1649480.2958

C1A			
TYPE	STATION	NORTH	EAST
PC	10+00.00	770215.7919	1649476.7038
PCC	11+60.22	770122.2679	1649517.4132
PT	13+20.44	770215.7919	1649476.7038

C2			
TYPE	STATION	NORTH	EAST
PC	10+00.00	770711.9354	1649260.7410
PCC	10+45.90	770746.4455	1649288.1921
PCC	12+44.37	770917.9016	1649213.5602
PCC	13+36.17	770886.8160	1649142.1455
PCC	15+34.64	770715.3599	1649216.7775
PT	15+80.54	770711.9353	1649260.7410

C2A			
TYPE	STATION	NORTH	EAST
PC	10+00.00	770703.6832	1649264.3330
PCC	10+54.69	770744.8017	1649297.0408
PCC	12+63.85	770925.4980	1649218.3867
PCC	13+73.23	770888.4598	1649133.2969
PCC	15+82.40	770707.7636	1649211.9509
PT	16+37.09	770703.6832	1649264.3330

C3			
TYPE	STATION	NORTH	EAST
PC	10+00.00	771320.5659	1649039.8134
PCC	11+31.95	771275.2903	1649110.5673
PT	12+63.89	771320.5659	1649039.8134

C3A			
TYPE	STATION	NORTH	EAST
PC	10+00.00	771270.5150	1648986.6084
PCC	11+60.22	771215.5374	1649072.5239
PT	13+20.44	771270.5150	1648986.6084

DET			
TYPE	STATION	NORTH	EAST
POT	10+00.00	770904.1107	1648766.5266
PC	14+21.15	771301.0834	1648907.1710
PT	15+65.22	771429.0665	1648972.4178
PC	16+65.60	771511.7739	1649029.2969
PCC	19+15.71	771742.5029	1649120.1327
PT	19+36.68	771763.2473	1649123.1797

DET2			
TYPE	STATION	NORTH	EAST
POT	10+00.00	768960.9992	1646817.1634
PC	28+39.22	770098.0513	1648262.7934
PRC	33+98.30	770474.5540	1648675.4145
PT	48+71.45	771325.2303	1649866.9512
POT	54+19.54	771552.3118	1650365.7820

DETA			
TYPE	STATION	NORTH	EAST
PC	10+00.00	768626.2834	1646448.5699
PRC	12+57.20	768798.6340	1646639.1270
PT	14+98.38	768961.1380	1646817.0541

DETB			
TYPE	STATION	NORTH	EAST
PC	5+34.44	771327.6482	1649952.2475
PCC	10+00.00	771539.7628	1650366.5324
PRC	11+72.06	771595.1546	1650529.1027
PT	14+19.48	771667.9864	1650765.3139

DETC			
TYPE	STATION	NORTH	EAST
PC	10+00.00	768653.6451	1646445.8738
PRC	12+40.53	768788.0056	1646645.1218
PT	14+81.11	768922.3994	1646844.4120

DETD			
TYPE	STATION	NORTH	EAST
PC	10+00.00	771548.5870	1650444.8738
PRC	11+94.81	771637.6556	1650618.0052
PT	14+69.70	771757.3031	1650885.1392

EY3			
TYPE	STATION	NORTH	EAST
POT	10+00.00	769597.0157	1647498.6343
PC	21+27.13	770296.7194	1648382.2862
PT	22+21.62	770358.5954	1648453.6502
PC	22+47.62	770376.4864	1648472.5162
PT	25+20.67	770593.0906	1648636.7723
PC	25+59.73	770627.6338	1648655.0067
PCC	26+89.68	770745.9848	1648708.4842
PT	28+58.13	770904.1107	1648766.5266
PC	30+01.66	771039.4016	1648814.4591
PT	31+14.57	771145.6786	1648852.5880
PC	31+71.02	771198.7414	1648871.8635
PT	33+54.30	771279.6038	1649018.9649
POT	33+76.52	771274.8182	1649040.6585

L			
TYPE	STATION	NORTH	EAST
POT	10+00.00	767662.7617	1645203.1887
TS	57+90.64	770623.4526	1648969.4304
SC	58+90.64	770685.2017	1649048.0882
CS	62+54.25	770907.2563	1649336.0150
SC	63+04.25	770937.4147	1649375.8957
CS	77+42.77	771639.3021	1650626.7253
ST	78+62.77	771682.8377	1650738.5488
POT	97+52.19	772361.8146	1652501.7566

RD1			
TYPE	STATION	NORTH	EAST
PC	10+00.00	770865.6932	1649275.9885
PCC	10+52.85	770906.6791	1649242.9365
PRC	11+11.64	770937.0148	1649193.0144
PCC	11+42.40	770955.8351	1649169.3539
PT	11+85.17	770993.4511	1649149.1083

RD2			
TYPE	STATION	NORTH	EAST
PC	10+00.00	770769.1469	1649153.4384
PT	11+13.59	770878.6494	1649131.7594
PC	11+51.78	770916.5333	1649136.6062
PT	12+36.22	770999.1176	1649124.8291

RPA			
TYPE	STATION	NORTH	EAST
PC	7+61.94	771672.7520	1650613.4174
CS	10+00.00	771579.9511	1650394.2076
ST	11+20.00	771529.9689	1650285.1130
PC	14+59.45	771387.4533	1649977.0358
PRC	20+17.31	771113.9623	1649491.4941
PRC	21+28.27	771062.7486	1649393.3158
PRC	22+93.45	770959.6486	1649267.8443
PT	23+79.42	770924.8685	1649194.1872

RPB			
TYPE	STATION	NORTH	EAST
TS	10+00.00	769990.0805	1648105.4781
SC	11+00.00	770052.1003	1648183.9222
PRC	15+05.88	770316.1331	1648492.0752
PT	21+26.14	770717.6426	1648964.6552
POT	24+04.39	770889.6045	1649183.4047

RPC			
TYPE	STATION	NORTH	EAST
POT	10+00.00	769704.8109	1647859.0937
PC	13+04.97	769876.2970	1648109.9074
PT	20+38.01	770313.4478	1648699.6716
PC	23+27.63	770492.4398	1648927.3640
PRC	24+50.78	770555.8127	1649032.5917
PRC	25+82.39	770637.3410	1649134.0321
PCC	26+60.74	770692.8869	1649188.9030
PT	27+14.41	770708.1119	1649239.2047

RPD			
TYPE	STATION	NORTH	EAST
PC	7+38.69	771605.8426	1650640.0091
CS	10+00.00	771503.3930	1650399.6525
SC	11+00.00	771460.7443	1650309.2076
CS	14+13.57	771303.3247	1650038.2926
ST	15+13.57	771246.1177	1649956.2747
POT	23+82.84	770743.6719	1649246.9266

SPURA			
TYPE	STATION	NORTH	EAST
PC	10+00.00	771112.5005	1649492.4713
PRC	11+11.99	771061.2591	1649393.1566
PRC	12+65.00	770968.3067	1649274.5277
PT	13+64.25	770925.2151	1649189.6084

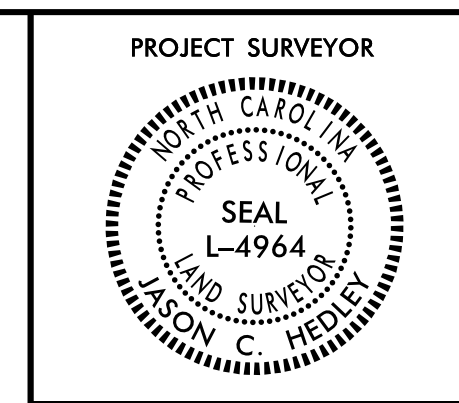
SPURC			
TYPE	STATION	NORTH	EAST
PC	10+00.00	770492.4397	1648927.3640
PRC	11+23.15	770555.8126	1649032.5916
PRC	12+68.95	770648.9899	1649142.1185
PCC	12+95.16	770670.1609	1649157.5575
PT	13+89.63	770708.0541	1649240.4715

Y1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	770169.0299	1649497.0585
PC	19+28.81	771020.6611	1649126.3579
PT	20+86.79	771172.9894	1649087.0444
PC	22+64.27	771349.6723	1649070.2808
PT	24+06.03	771490.8014	1649076.9420
PC	24+26.32	771510.7334	1649080.7531
PT	26+98.47	771779.1560	1649125.4636
PC	27+53.01	771833.1592	1649133.1388
PT	29+85.29	772063.9829	1649158.7764
PC	30+60.43	772138.8849	1649164.7854
PT	33+56.43	772434.5828	1649165.4240

Y2			
TYPE	STATION	NORTH	EAST
POT	10+00.00	771297.9281	1649075.1903
PC	15+48.42	771340.1933	1649621.9829
PT	19+36.76	771446.9492	1649992.5760

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. R-5737	SHEET NO. RW03E-1
SO-DEEP SAM NC	



I, Jason C. Hedley, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 23rd day of December, 2018.

DocuSigned by:
Jason C. Hedley
406CE026263344E
Professional Land Surveyor

L-4964
PLS #

Seal

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
RPC	23+27.63	52.84	770450.8952	1648960.0227

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
RPD	15+63.00	-65.42	771164.1574	1649953.7535
RPD	17+72.00	-78.00	771033.0915	1649790.4719

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	10+20.00	140.00	770243.2436	1649617.4426
Y1	11+00.00	-62.00	770235.9752	1649400.2994
Y1	11+00.00	74.00	770290.2544	1649524.9981
Y1	12+67.00	65.00	770439.7851	1649450.0943
Y1	14+48.00	-100.00	770539.8909	1649226.5661
Y1	14+48.00	83.00	770612.9284	1649394.3592
Y1	15+78.00	93.00	770736.1168	1649351.6437
Y1	23+46.18	46.34	771428.2869	1649115.4721
Y1	23+69.19	-76.54	771463.2035	1648995.3283

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	31+14.40	90.15	771170.3581	1648956.5008

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	10+00.00	-48.00	769413.9277	1648183.9425
Y4	10+00.00	-30.72	769409.5297	1648200.6505
Y4	10+43.71	29.35	769436.5124	1648269.8689
Y4	12+50.00	50.00	769622.9918	1648342.9959
Y4	14+30.00	-55.94	769825.0867	1648381.2689
Y4	18+00.00	-60.00	769964.8255	1648737.2202
Y4	19+40.00	-108.00	770056.6355	1648853.3017
Y4	20+60.00	-62.00	770053.1429	1648981.7689
Y4	24+50.00	-72.00	770192.2209	1649346.2648

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

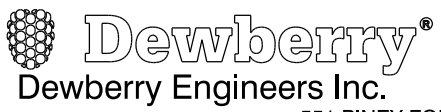
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

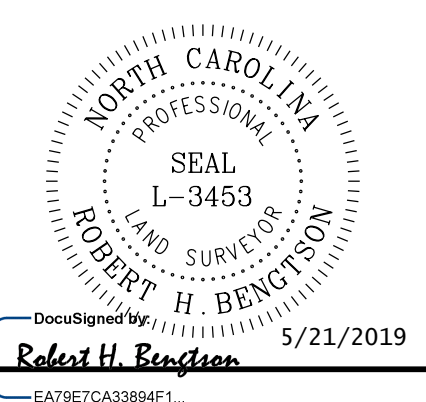
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Jason Hedley

RIGHT OF WAY CONTROL SHEET

PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R5737	RW03E-3
Location and Surveys	
	
<small>551 PINEY FOREST ROAD DANVILLE, VA 24040 PHONE: 434.797.4497 FAX: 434.797.4341 NCBELS #F-0929</small>	



I, ROBERT H. BENGTSON, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 20th day of May, 2019.

DocuSigned by:
Robert H. Bengtson
EAT9E7ECAS3894F1
L-3453
PLS #
Seal

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	10+43.71	-29.35	769436.5124	1648269.8689
Y4	10+41.05	-48.81	769428.9818	1648288.0171
Y4	12+84.71	-59.72	769703.1622	1648260.4526
Y4	12+91.65	-42.19	769701.3304	1648279.6783
Y4	13+59.02	-62.58	769689.6915	1648401.8362
Y4	24+48.75	-118.43	770012.2021	1649408.3884

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
C1	11+63.76	-144.99	770095.7319	1649669.0839

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	12+76.58	-82.96	769705.5652	1648235.2469

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
RPD	11+22.44	-95.21	771365.7401	1650332.0743
RPD	11+26.69	-170.00	771297.2188	1650362.3030
RPD	13+00.00	-165.89	771222.7514	1650219.9278
RPD	13+75.00	-115.28	771228.0891	1650133.3866
RPD	13+75.00	-83.08	771255.0668	1650115.7971

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.

REVISIONS

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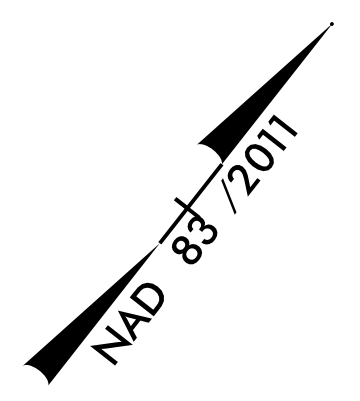
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REVISIONS

CURVE DATA FOR -Y6-

PI Sta 10+92.76	PI Sta 16+65.25
$\Delta = 76^\circ 24' 41.8" (RT)$	$\Delta = 0^\circ 24' 50.8" (LT)$
$D = 81^\circ 51' 04.0"$	$D = 0^\circ 22' 55.1"$
$L = 93.35'$	$L = 108.42'$
$T = 55.10'$	$T = 54.21'$
$R = 70.00'$	$R = 15,000.00'$
$Se = EXIST$	$Se = EXIST$



**BEGIN CONSTRUCTION
BEGIN MILL & OVERLAY
-L- POT Sta. 12+70.00**

I, Jason C. Hedley, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base Map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. Also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 13th day of August, 2019.

DocuSigned by:
Jason C. Hedley
406CE02526344E
Professional Land Surveyor



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO. R-5737	SHEET NO. RW04
---------------------------------	-------------------

Location and Surveys

SO-DEEP | SAM NC

-L- POT Sta. 10+00.00

-Y6- PC Sta. 10+37.67

-L- POT Sta. 15+82.53 =
-Y6- POT Sta. 10+00.00

-Y6- PT Sta. 11+31.02

-Y6- N 50° 47' 42.9" E

-Y6- PC Sta. 16+11.04

-Y6- PT Sta. 17+19.46

-Y6- PC Sta. 18+27.83

-Y6- N 50° 22' 52.0" E

-L- N 51° 49' 43.2" E

-L- POT Sta. 16+07.90 =
-Y5- POT Sta. 10+00.00

-Y5- PC Sta. 10+56.39

**END CONSTRUCTION
END MILL & OVERLAY
-Y5- POC Sta. 11+00.00**

GEORGE W. JR. AND
PHOEBE SHIRLEY CURRY
AND LAURA VEIGH CURRY
DB 159 PG 307
DB 210 PG 130
DB 210 PG 162
PB 4 PG 103

SARAH C. BECK
DB 536 PG 105
DB 536 PG 438

CURVE DATA FOR -Y5-

PI Sta 13+03.29
$\Delta = 52^\circ 33' 34.1" (LT)$
$D = 11^\circ 27' 33.0"$
$L = 458.67'$
$T = 246.90'$
$R = 500.00'$

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.

MATCH TO SHEET 5 - -L- STA. 24+00.00

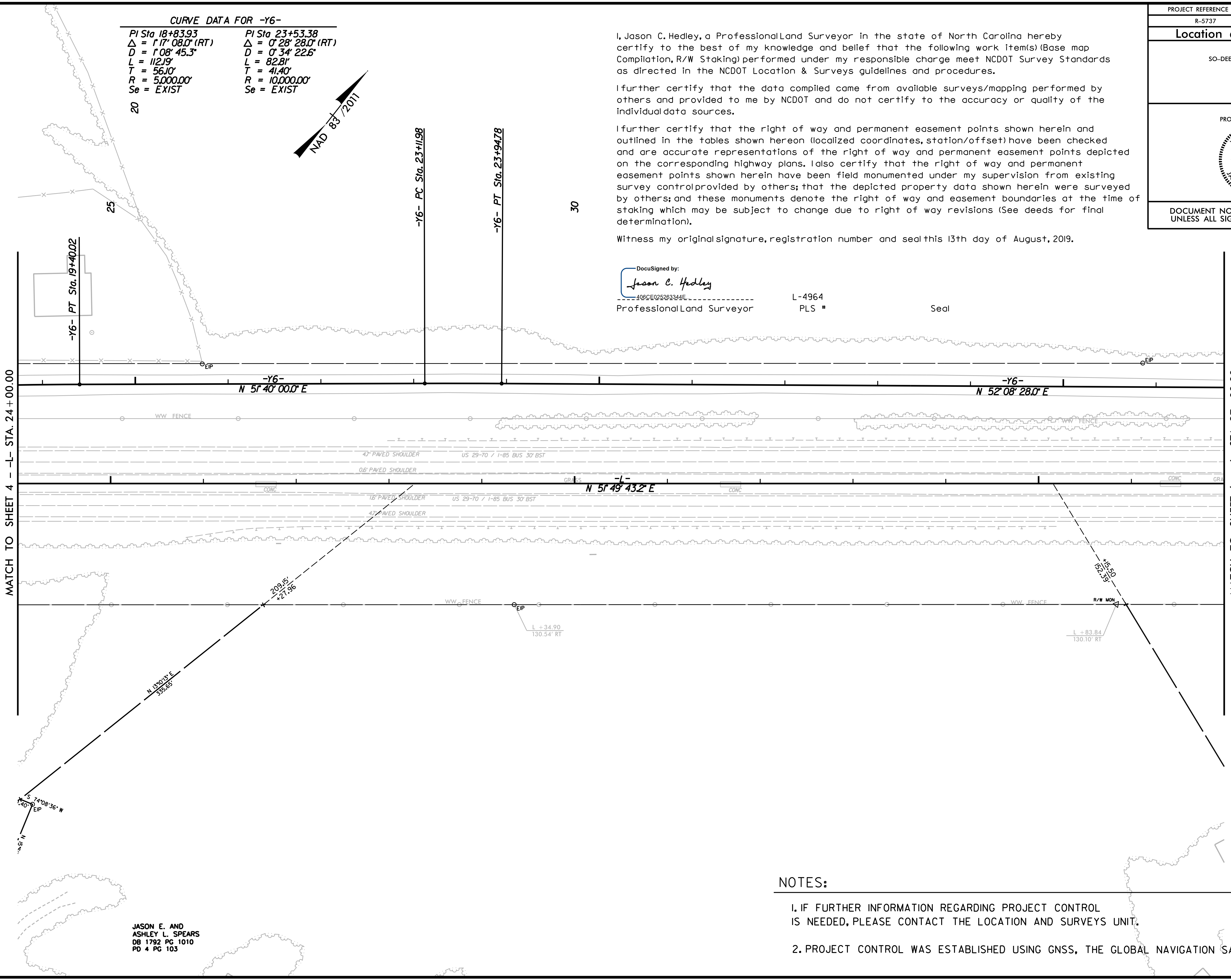
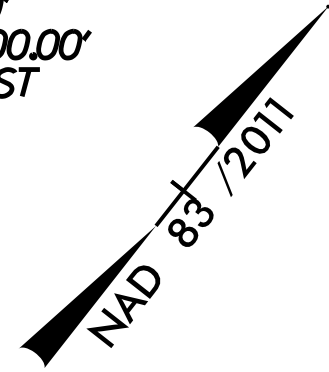
6/22/19

6/22/19 10:53 AM D:\Projects\2019\08-14\Julie\to be checked\R5737_ls_rw05.dgn
I:\Projects\2019\08-14\Julie\to be checked\R5737_ls_rw05.dgn
I:\Projects\2019\08-14\Julie\to be checked\R5737_ls_rw05.dgn

REVISIONS

CURVE DATA FOR -Y6-

PI Sta 18+83.93	PI Sta 23+53.38
$\Delta = 1^{\circ}17'08.0''$ (RT)	$\Delta = 0^{\circ}28'28.0''$ (RT)
$D = 1^{\circ}08'45.3''$	$D = 0^{\circ}34'22.6''$
$L = 112.19'$	$L = 82.81'$
$T = 56.10'$	$T = 41.40'$
$R = 5,000.00'$	$R = 10,000.00'$
Se = EXIST	Se = EXIST

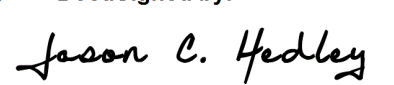



I, Jason C. Hedley, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 13th day of August, 2019.

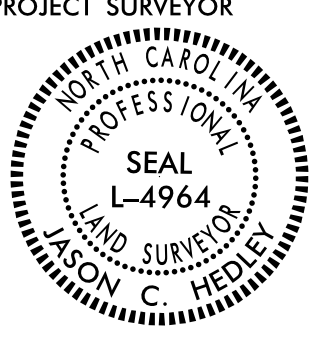
DocuSigned by:

 408CE025283344E L-4964
 Professional Land Surveyor PLS # Seal

PROJECT REFERENCE NO. R-5737	SHEET NO. RW05
Location and Surveys	
SO-DEEP SAM NC	
	
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.

JASON E. AND
 ASHLEY L. SPEARS
 DB 1792 PG 1010
 PD 4 PG 103

PROJECT REFERENCE NO.	SHEET NO.
R-5737	RW06
Location and Surveys	
SO-DEEP SAM NC	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Jason C. Hedley, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

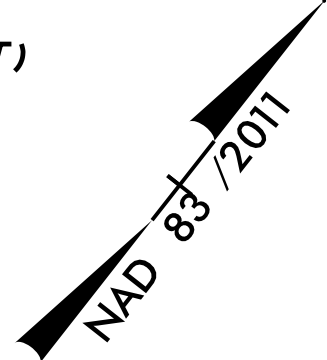
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 14th day of August, 2019.

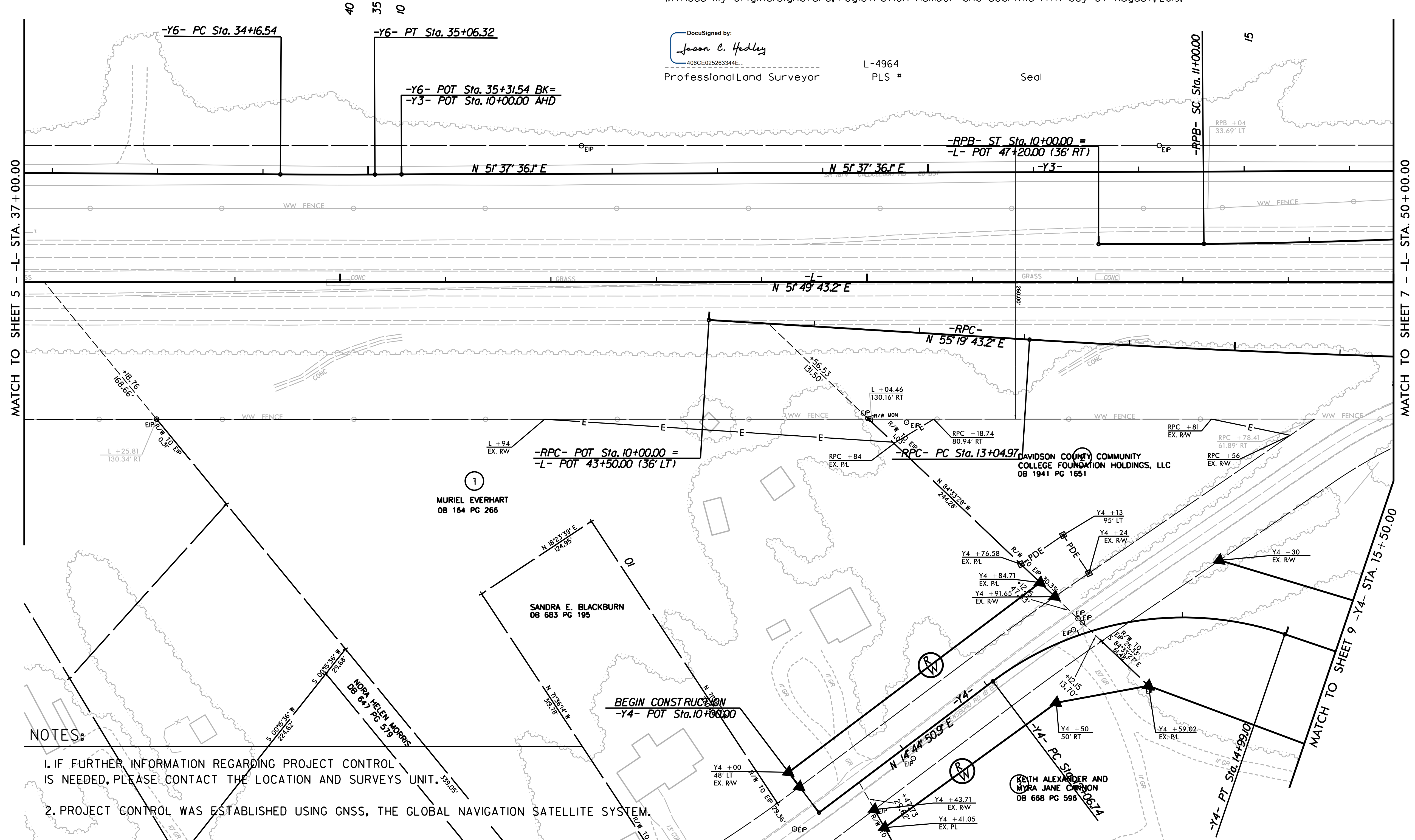
IRVE DATA FOR -Y6-
 PI Sta 34+61.43
 $\Delta = 0^\circ 30' 51.9" (LT)$
 $D = 0^\circ 34' 22.6"$
 $L = 89.78'$
 $T = 44.89'$
 $R = 10,000.00'$
 $Se = EXIST$

CURVE DATA FOR -RPB-
 PI Sta 10+66.67
 $\Delta = 0^\circ 28' 41.7"$
 $Ls = 100.00'$
 $LT = 66.67'$
 $ST = 33.33'$

PI Sta 13+03.02
 $\Delta = 3^\circ 52' 56.3" (LT)$
 $D = 0^\circ 57' 23.5"$
 $L = 405.88'$
 $T = 203.02'$
 $R = 5,990.00'$
 $Se = 0.02$



DocuSigned by:
 Jason C. Hedley
 408CE025263344E
 Professional Land Surveyor L-4964
 Seal



- 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.

REVISIONS

6/2/19
 18-NOV-2019 15:53 Winston_Ruths Computer \Rural\RPB\37\Right of Way Staking\Received from SoDeep\2019-08-14\Julie\to be checked\R5737_ls_rw06.dgn
 18-NOV-2019 15:53 Winston_Ruths Computer \Rural\RPB\37\Right of Way Staking\Received from SoDeep\2019-08-14\Julie\to be checked\R5737_ls_rw06.dgn
 18-NOV-2019 15:53 Winston_Ruths Computer \Rural\RPB\37\Right of Way Staking\Received from SoDeep\2019-08-14\Julie\to be checked\R5737_ls_rw06.dgn

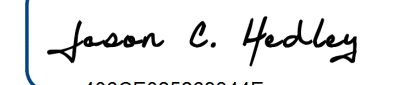
PROJECT REFERENCE NO. R-5737	SHEET NO. RW07
Location and Surveys	
SO-DEEP SAM NC	
PROJECT SURVEYOR SEAL L-4964 LAND SURVEYOR JASON C. HEDLEY	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

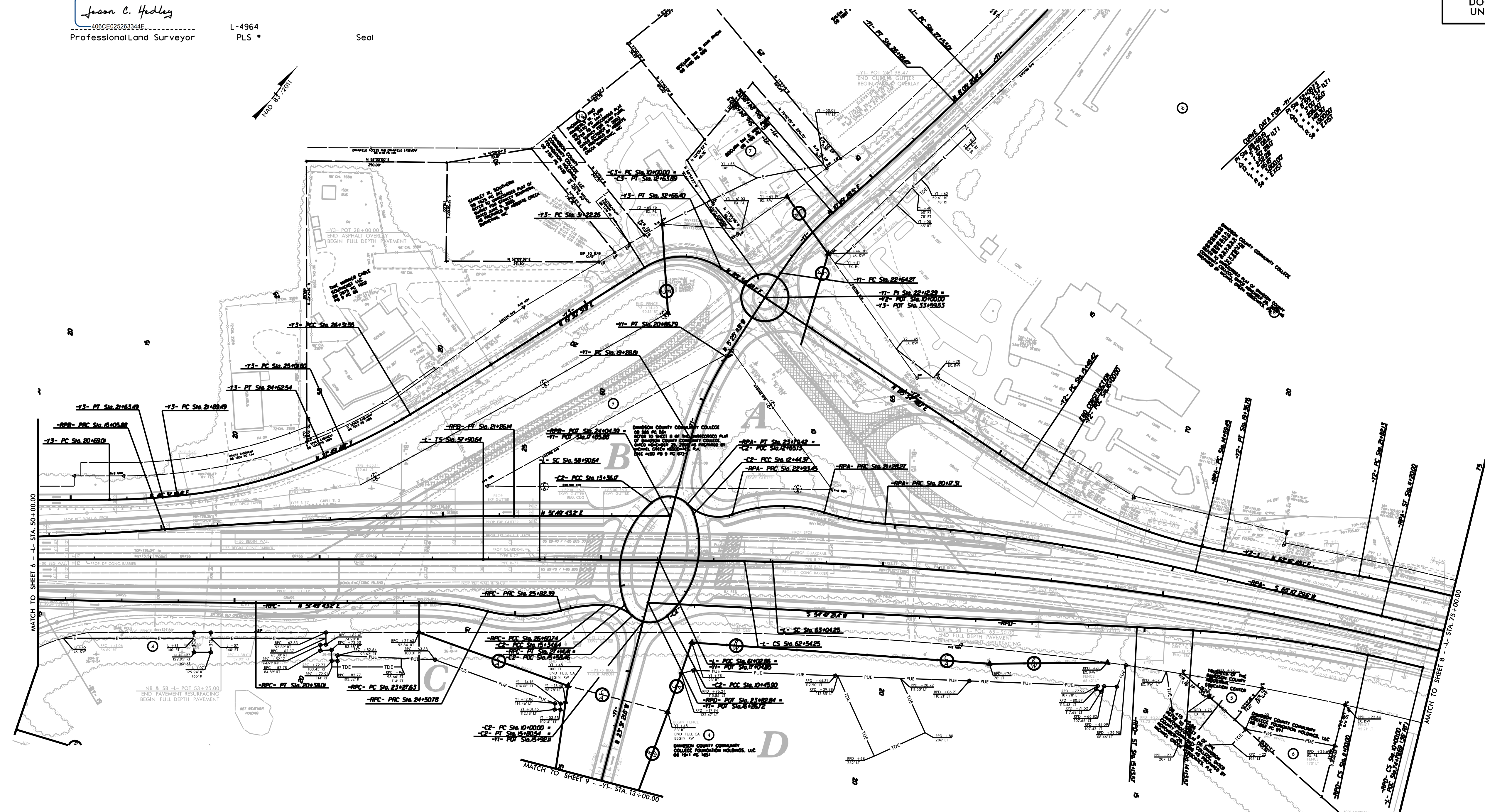
I, Jason C. Hedley, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 13th day of August, 2019.

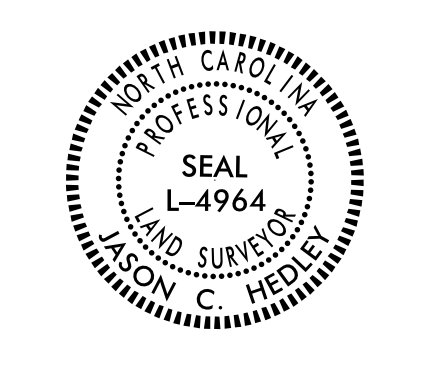
DocuSigned by:

 L-4964
 Professional Land Surveyor PLS # Seal



- NOTES:**
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
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6/22/19

PROJECT REFERENCE NO. R-5737	SHEET NO. RW08
Location and Surveys	
SO-DEEP SAM NC	

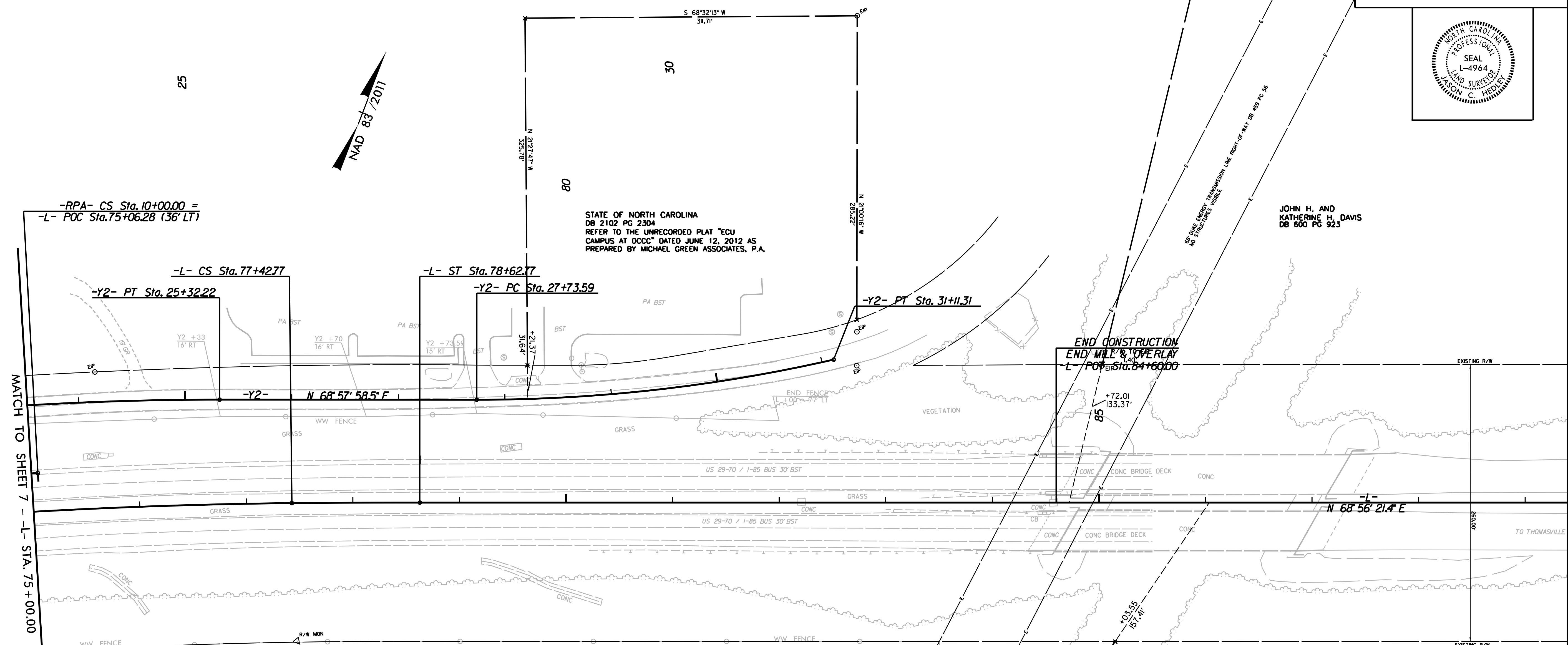


CURVE DATA FOR -L-

PI Sta 70+27.77	PIs Sta 77+82.77
$\Delta = 15' 12' 24.7''$ (RT)	$\Theta_s = 0' 38' 03.4''$
$D = 1' 03' 25.6''$	$L_s = 120.00'$
$L = 1,438.52'$	$LT = 80.00'$
$T = 723.51'$	$ST = 40.00'$
$R = 5,420.00'$	
$Se = 0.03$	

CURVE DATA FOR -Y2-

PI Sta 23+57.38	PI Sta 29+43.16
$\Delta = 6' 41' 10.4''$ (RT)	$\Delta = 12' 53' 59.5''$ (LT)
$D = 1' 54' 35.5''$	$D = 3' 49' 11.0''$
$L = 350.09'$	$L = 337.72'$
$T = 175.24'$	$T = 169.58'$
$R = 3,000.00'$	$R = 1,500.00'$
$Se = NC$	$Se = NC$



REVISIONS
 6/22/19
 18 NOV 2019 15:59
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 Computer: Ruths
 18 NOV 2019 15:59
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 Computer: Ruths

MATCH TO SHEET 7 - L- STA. 75+00.00
 JOHN H. AND
 KATHERINE H. DAVIS
 DB 600 PG 923

I, Jason C. Hedley, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 14th day of August, 2019.

DocuSigned by:
 Jason C. Hedley
 L-4964
 Professional Land Surveyor PLS # Seal

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.

6/2/19

6/2/19 10:50 AM C:\Users\jhedley\OneDrive\Documents\Projects\2019\08-14\Julie\to be checked\R5737_1s_rw09.dgn

REVISIONS

I, Jason C. Hedley, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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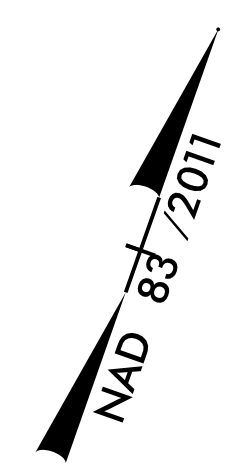
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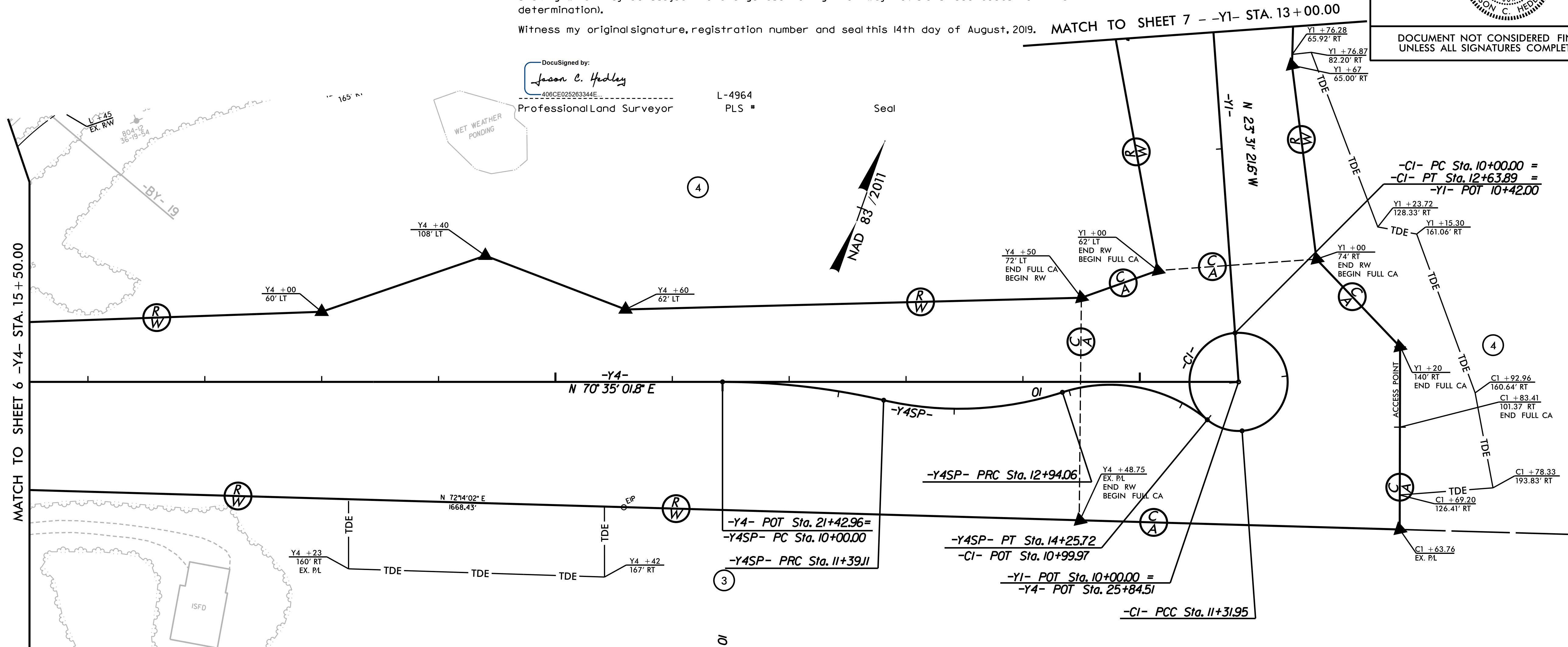
DocuSigned by: Jason C. Hedley Professional Land Surveyor

L-4964 PLS #

Seal



PROJECT REFERENCE NO.	SHEET NO.
R-5737	RW09
Location and Surveys	
SO-DEEP SAM NC	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



CURVE DATA FOR -Y4SP-

PI Sta 10+69.85	PI Sta 12+18.54	PI Sta 13+66.06
$\Delta = 12^\circ 58' 51.8" (RT)$	$\Delta = 31^\circ 02' 34.9" (LT)$	$\Delta = 57^\circ 34' 58.4" (RT)$
$D = 9^\circ 19' 53.6"$	$D = 20^\circ 02' 00.6"$	$D = 43^\circ 44' 14.1"$
$L = 139.11'$	$L = 154.96'$	$L = 131.66'$
$T = 69.85'$	$T = 79.43'$	$T = 71.99'$
$R = 614.00'$	$R = 286.00'$	$R = 131.00'$
$Se = 0.02$	$Se = 0.02$	$Se = 0.02$

CURVE DATA FOR -CI-

PI Sta 10+00.00
$\Delta = 360^\circ 00' 00.0" (LT)$
$D = 136^\circ 35' 06.7"$
$L = 263.90'$
$T = 0.00'$
$R = 42.00'$

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.

Location and Surveys

SO-DEEP | SAM NC

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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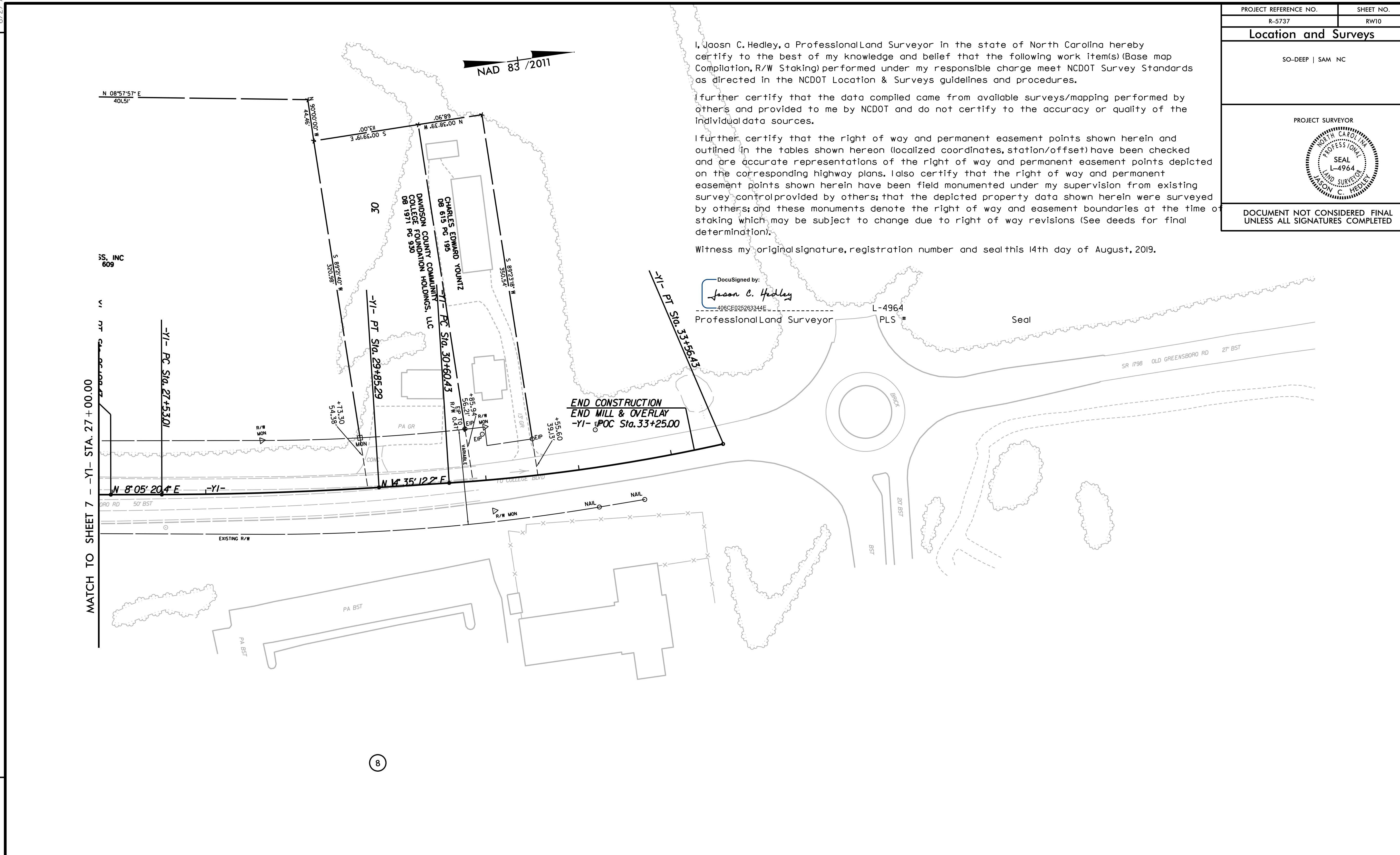
Witness my original signature, registration number and seal this 14th day of August, 2019.

DocuSigned by:
Jason C. Hedley
408CE025263344E

Professional Land Surveyor

L-4964
PLS #

Seal



MATCH TO SHEET 7 - -YI- STA. 27 +00.00

CURVE DATA FOR -YI-

PI Sta 28+69.19	PI Sta 32+08.73
$\Delta = 3^\circ 30' 08.2''$ (LT)	$\Delta = 8^\circ 55' 33.7''$ (LT)
D = 1' 30' 28.0"	D = 3' 00' 56.0"
L = 232.28'	L = 296.00'
T = 116.18'	T = 148.30'
R = 3,800.00'	R = 1,900.00'
Se = EXIST	Se = EXIST

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.

REVISIONS

S:\NOV-2019\1658\Winston_Ruths_Computer\Reel\RE737\Right of Way Staking\Received From SoDeep\2019-08-14\Julie\to be checked\R5737_ls_rwl0.dgn