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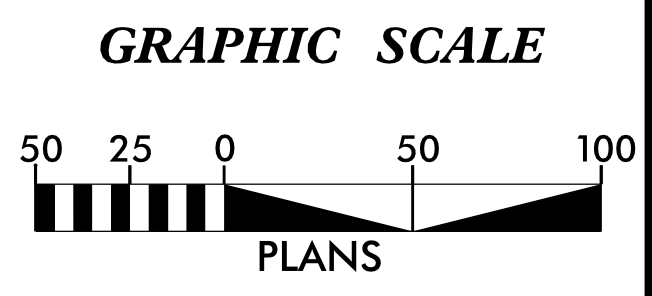
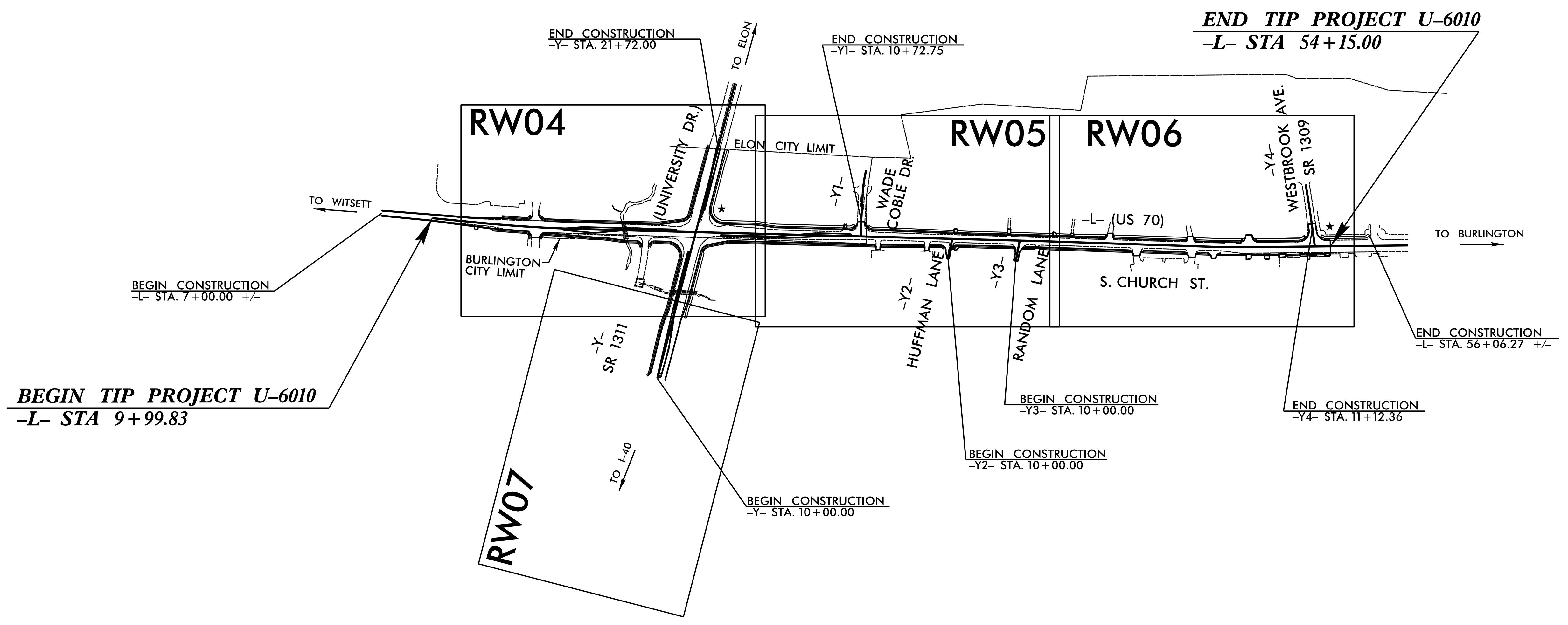
**This file or an individual page  
shall not be considered a certified document.**

09/05/19

TIP PROJECT: U-6010

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-6010	RW01	

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
 SURVEY CONTROL, EXISTING CENTERLINES,  
 RIGHT OF WAY, EASEMENTS AND PROPERTY TIES  
**ALAMANCE COUNTY**



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U5752-2" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 848503.502'(ft) EASTING: 1846940.986'(ft) ELEVATION: 664.72'(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999500302 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-11" TO -L- STATION 9+99.83 IS N 64-07'50.5" E 33.64'(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88/GEOID G12NC

Prepared in the Office of:

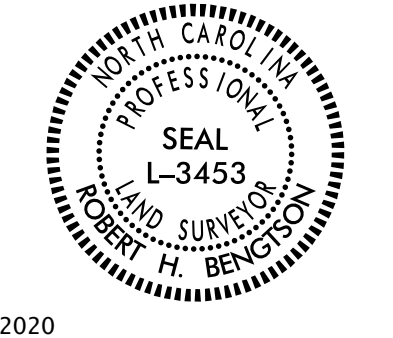
**Dewberry**  
 Dewberry Engineers Inc.  
 551 PINEY FOREST ROAD  
 DANVILLE, VA 24040  
 PHONE: 434.797.4497  
 FAX: 434.797.4341  
 NCBELS #F-0929

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
 MAY 31, 2019

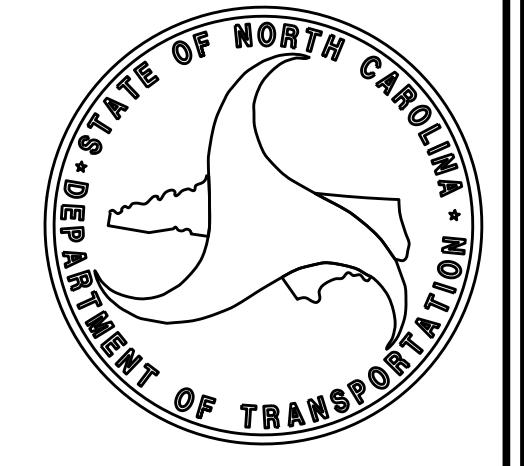
**LETTING DATE:**  
 OCTOBER 20, 2020

**PROFESSIONAL LAND SURVEYOR**



DocuSigned by:  
 Robert H. Bengtson  
 EA79E7CA33894F1...

1/31/2020  
 Date:

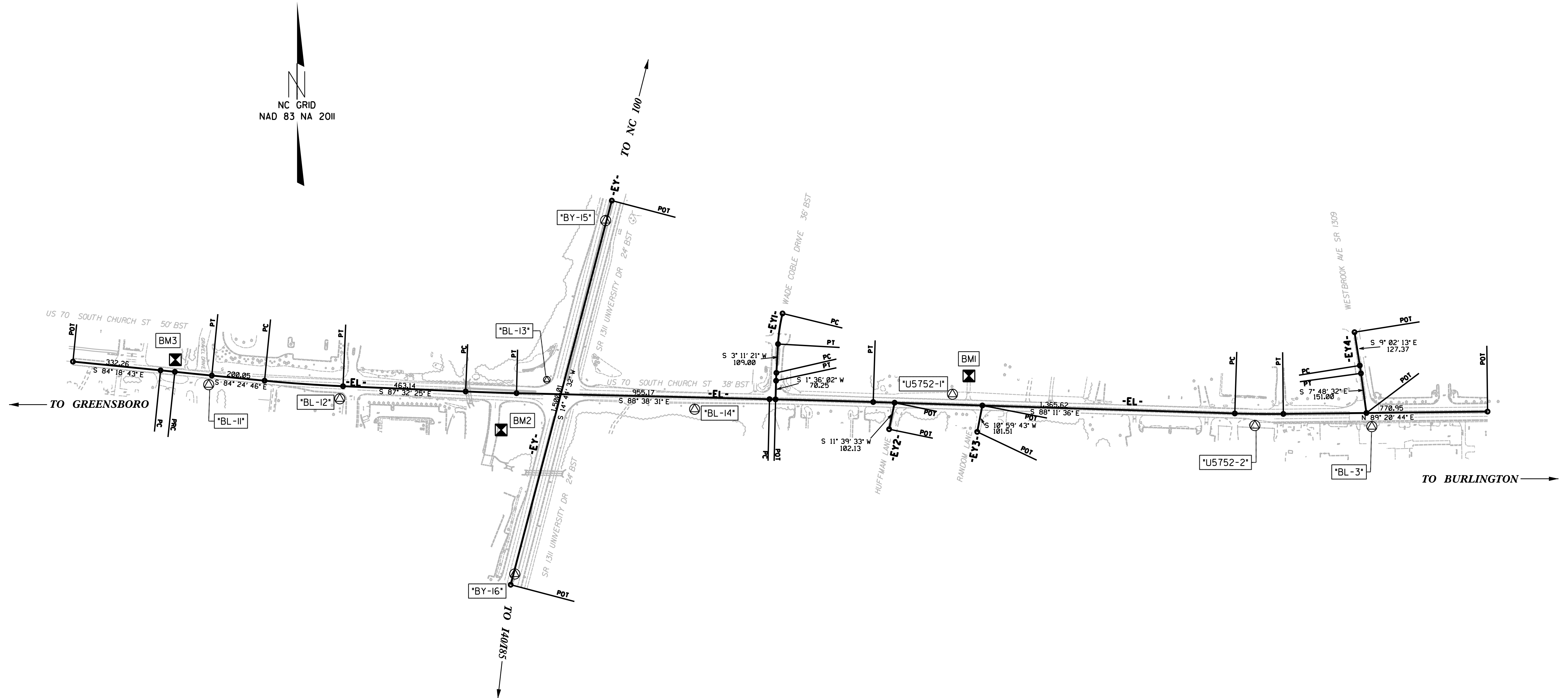
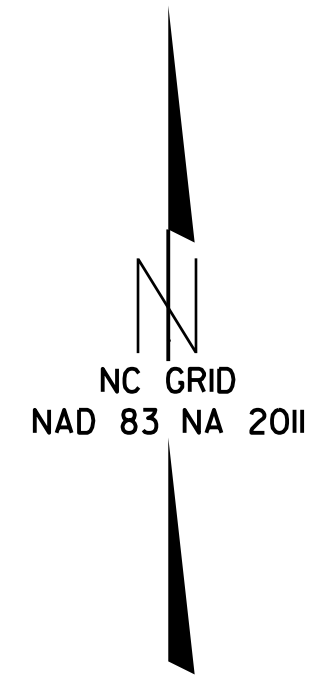


\$\$\$\$\$ SYSTEM \$\$\$\$\$\$  
 \$\$\$ DDN \$\$\$  
 \$\$\$ USERNAME \$\$\$

PROJECT REFERENCE NO.	SHEET NO.
U6010	RW02C-1
Location and Surveys	
INSERT CONSULTANT'S NAME	

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



REVISIONS

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 semakinnay AT LS-312551

### 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.

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U6010	SHEET NO. RW02C-2
Location and Surveys	
INSERT CONSULTANT'S NAME	

BASELINE DATA

BL	POINT	DESC.	NORTH	EAST	ELEVATION
11		BL - 11	848663.0438	1842987.7740	637.98
12		BL - 12	848608.0466	1843486.4310	634.29
13		BL - 13	848658.1628	1844261.5900	619.60
14		BL - 14	848569.3669	1844822.8610	632.19
1		U5752 - 1	848606.9140	1845777.6330	643.46
2		U5752 - 2	848503.5020	1846940.9860	664.72
3		BL - 3	848494.7141	1847372.7530	670.96

BY	POINT	DESC.	NORTH	EAST	ELEVATION
15		BY - 15	849265.3885	1844481.4220	625.40
313		BL - 13	848658.1628	1844261.5900	619.60
16		BY - 16	847930.5706	1844138.4890	622.09

BY	POINT	DESC.	NORTH	EAST	ELEVATION
15		BY - 15	849265.3885	1844481.4220	625.40
313			848658.1628	1844261.5900	619.60

BENCHMARK DATA

```

.....
BM1      ELEVATION = 647.31
N 848678      E 1845853
EL STATION 38+34.00 110 LEFT
BM - 1
.....
BM2      ELEVATION = 619.33
N 848474      E 1844082
EL STATION 20+70.00 141 RIGHT
BM 2
.....
BM3      ELEVATION = 640.77
N 848740      E 1842857
EL STATION 8+34.00 45 LEFT
BM - 3
.....
    
```

**NOTES:**

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# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U6010	RW02C-3
Location and Surveys	
INSERT CONSULTANT'S NAME	

EL									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	848732.597	1842470.791							
LINE			S 84°18'42.7" E	332.26					
PC	848699.665	1842801.420							
CURVE			S 84°09'23.1" E	54.27	00°18'39.3"(RT)	00°34'22.6"	54.27	27.13	10000.00
PCC	848694.141	1842855.403							
CURVE			S 84°12'24.7" E	140.27	00°24'42.5"(LT)	00°17'36.9"	140.27	70.13	19516.17
PT	848679.982	1842994.955							
LINE			S 84°24'45.9" E	200.05					
PC	848660.505	1843194.057							
CURVE			S 85°58'35.4" E	296.95	03°07'39.1"(LT)	01°03'11.1"	296.98	148.53	5440.71
PCC	848639.669	1843490.272							
CURVE			S 87°32'25.0" E	463.14					
PT	848619.793	1843952.987							
LINE			S 88°05'27.9" E	192.27	01°06'05.9"(LT)	00°34'22.6"	192.27	96.14	10000.00
PC	848613.388	1844145.150							
CURVE			S 88°38'30.9" E	955.17					
PCC	848590.750	1845100.056							
CURVE			S 88°25'03.2" E	391.57	00°26'55.3"(RT)	00°06'52.5"	391.57	195.79	50000.00
PT	848579.936	1845491.475							
LINE			S 88°11'35.5" E	1365.62					
PC	848536.880	1846856.411							
CURVE			S 89°25'25.8" E	183.22	02°27'40.5"(LT)	01°20'35.5"	183.24	91.63	4265.61
PCC	848535.037	1847039.626							
CURVE			N 89°20'43.9" E	770.95					
PT	848543.843	1847810.524							

EY				
POINT	N	E	BEARING	DIST
POT	849340.683	1844504.802		
LINE			S 14°44'32.4" W	1500.01
POT	847890.055	1844123.090		

EY1									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	848914.463	1845149.261							
CURVE			S 08°26'14.3" W	116.73	10°29'47.4"(LT)	08°58'45.4"	116.90	58.61	638.09
PT	848798.993	1845132.133							
LINE			S 03°11'20.6" W	109.00					
PC	848690.160	1845126.069							
CURVE			S 02°23'41.4" W	29.76	01°35'18.4"(LT)	05°20'13.0"	29.76	14.88	1073.57
PT	848660.424	1845124.825							
LINE			S 01°36'02.2" W	70.25					
POT	848590.204	1845122.863							

EY2				
POINT	N	E	BEARING	DIST
POT	848577.389	1845572.239		
LINE			S 11°39'33.0" W	102.13
POT	848477.367	1845551.600		


EY3				
POINT	N	E	BEARING	DIST
POT	848566.938	1845903.520		
LINE			S 10°59'43.5" W	101.51
POT	848467.289	1845884.159		

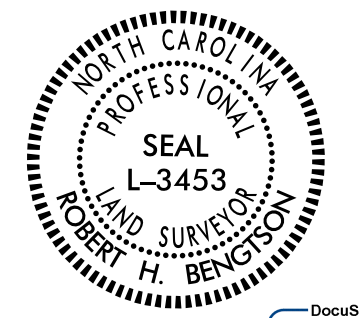
EY4									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	848843.692	1847308.248							
LINE			S 09°02'13.2" E	127.37					
PC	848717.903	1847328.255							
CURVE			S 08°25'22.8" E	30.01	01°13'40.8"(RT)	04°05'33.2"	30.01	15.00	1400.00
PT	848688.222	1847332.650							
LINE			S 07°48'32.4" E	151.00					
POT	848538.619	1847353.167							

NOTES:

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- 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.

# PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-6010	RW02D-1
Location and Surveys	
 Dewberry Engineers Inc. <small>551 PINEY FOREST ROAD                  DANVILLE, VA 24540                  PHONE: 434.797.4497                  FAX: 434.797.4341                  NCBELS #F-0929</small>	



DocuSigned by:  
**Robert H. Bengtson**  
 EA79E7CA33884F1

1/31/2020

L

TYPE	STATION	NORTH	EAST
POT	09+99.83	848677.7233	1843018.0465
PC	12+30.44	848655.2711	1843247.5577
PT	17+40.66	848623.7478	1843756.6956
PC	39+09.49	848567.0257	1845924.7861
PT	40+59.72	848562.5842	1846074.9458
PC	48+17.39	848537.5972	1846832.2035
PT	50+39.43	848535.2036	1847054.2092
POT	57+95.79	848543.8432	1847810.5240

Y

TYPE	STATION	NORTH	EAST
POT	10+00.00	847890.0549	1844123.0903
POT	25+00.01	849340.6826	1844504.8015

Y3

TYPE	STATION	NORTH	EAST
POT	10+00.00	848467.2892	1845884.1585
POT	11+02.17	848567.5789	1845903.6445

Y4

TYPE	STATION	NORTH	EAST
POT	10+00.00	848538.6187	1847353.1668
PC	11+51.00	848688.2220	1847332.6498
PT	11+81.01	848717.9035	1847328.2547
POT	13+08.38	848843.6920	1847308.2485

**NOTES:**

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- THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATINO REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/09

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 User: rbowell

# RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. U-6010	SHEET NO. RW03E-1
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**Location and Surveys**

PROJECT SURVEYOR

3/30/2020

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

I, ROBERT H. BENGTON, 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 27th day of March, 2020.

DocuSigned by:  
*Robert H. Bengtson*  
L-3453  
Professional Land Surveyor

L-3453  
PLS #

Seal

ROW MARKER IRON PIN AND CAP - E

ALIGN	STATION	OFFSET	NORTH	EAST
L	12+95.00	40.00	848609.4050	1843308.3048
L	12+95.00	28.98	848620.3814	1843309.2780
L	14+00.00	-52.60	848693.2016	1843420.3666
L	14+00.00	-55.00	848695.5949	1843420.5434
L	14+67.01	55.00	848581.2346	1843479.8035
L	14+67.01	40.00	848596.2036	1843480.7684
L	17+40.23	55.00	848568.7779	1843754.8262
L	17+40.23	-55.00	848678.7403	1843757.7030
L	18+46.97	55.00	848565.9863	1843861.5287
L	19+23.85	65.00	848553.9791	1843938.1206
L	20+57.07	-55.00	848670.4538	1844074.4369
L	21+63.12	65.00	848547.7213	1844177.3122
L	27+04.68	-55.00	848653.5169	1844721.8191
L	31+04.44	55.00	848533.0993	1845118.5724
L	34+97.31	55.00	848522.8246	1845511.3023
L	35+85.17	-50.99	848626.4777	1845601.9074
L	35+85.17	-55.00	848630.4890	1845602.0142
L	39+14.48	50.00	848516.9122	1845928.4494
L	40+56.66	51.06	848511.6551	1846070.2159
L	40+56.82	50.00	848512.7064	1846070.4105
L	40+72.56	-48.97	848611.1000	1846089.3901
L	40+73.50	-55.00	848617.0998	1846090.5318
L	42+73.58	-55.00	848610.5014	1846290.5029
L	48+17.39	-55.00	848592.5673	1846834.0173
L	50+39.43	-55.00	848590.2001	1847053.5809
L	52+38.76	-55.00	848592.4769	1847252.8999

ROW MARKER IRON PIN AND CAP - E

ALIGN	STATION	OFFSET	NORTH	EAST
Y	10+00.00	-55.00	847904.0509	1844069.9009
Y	10+00.00	-43.30	847901.0732	1844081.2170
Y	15+96.28	-55.00	848480.7048	1844221.6389

**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.


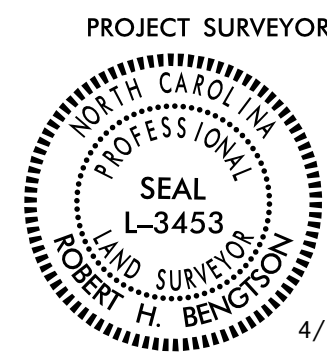
REVISIONS

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 bbowell





6/2/19

PROJECT REFERENCE NO.	SHEET NO.
U-6010	RW04
<b>Location and Surveys</b>	
 <b>Dewberry</b> Dewberry Engineers Inc. <small>551 PINEY FOREST ROAD          DANVILLE, VA 24040          PHONE: 434.787.4407          FAX: 434.787.4341          NCBELS #F-0929</small>	
PROJECT SURVEYOR  SEAL L-3453 LAND SURVEYOR ROBERT H. BENGTSON 4/2/2020	
<b>DOCUMENT NOT CONSIDERED FINAL          UNLESS ALL SIGNATURES COMPLETED</b>	

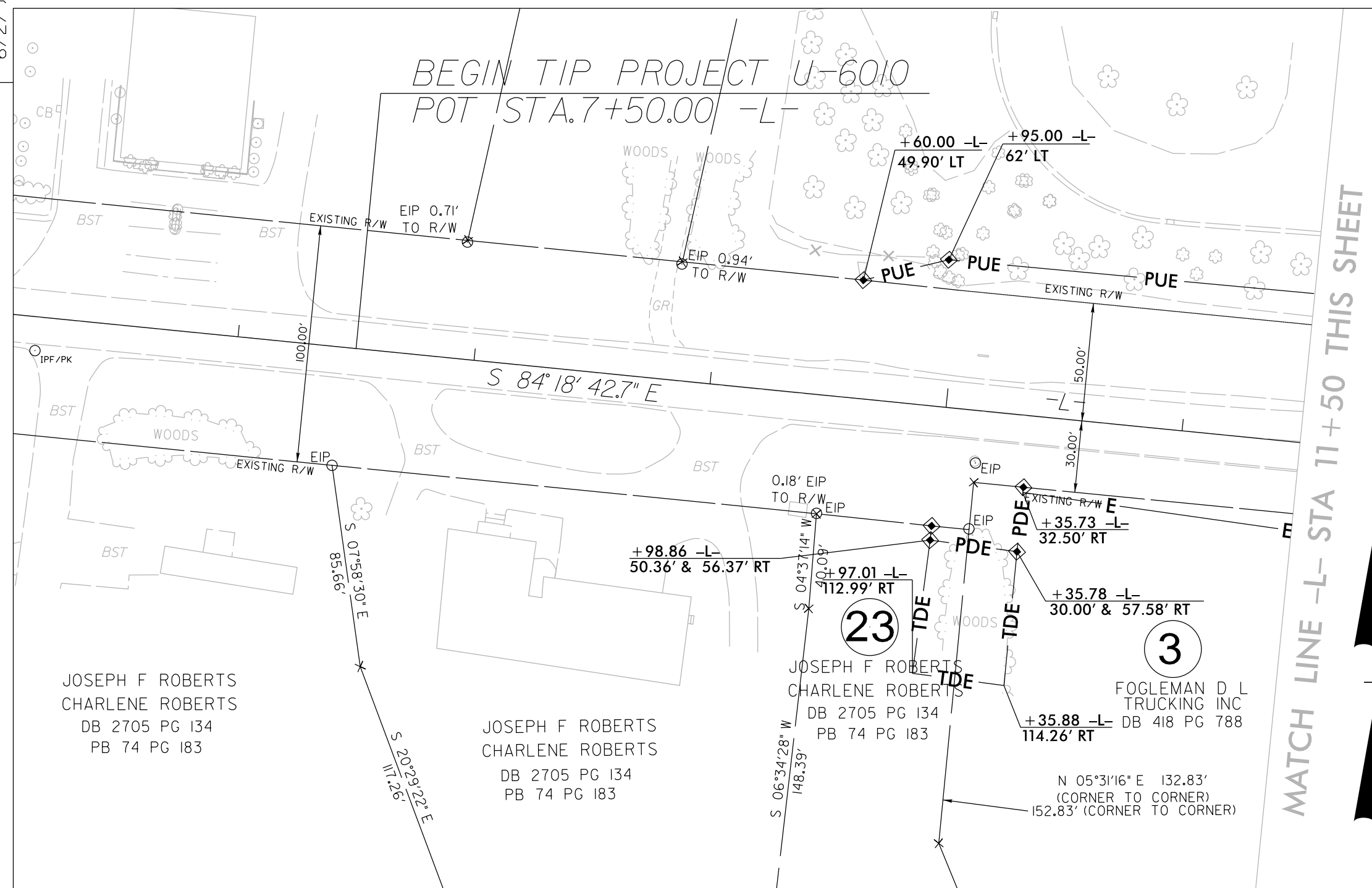
I, ROBERT H. BENGTSON, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location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

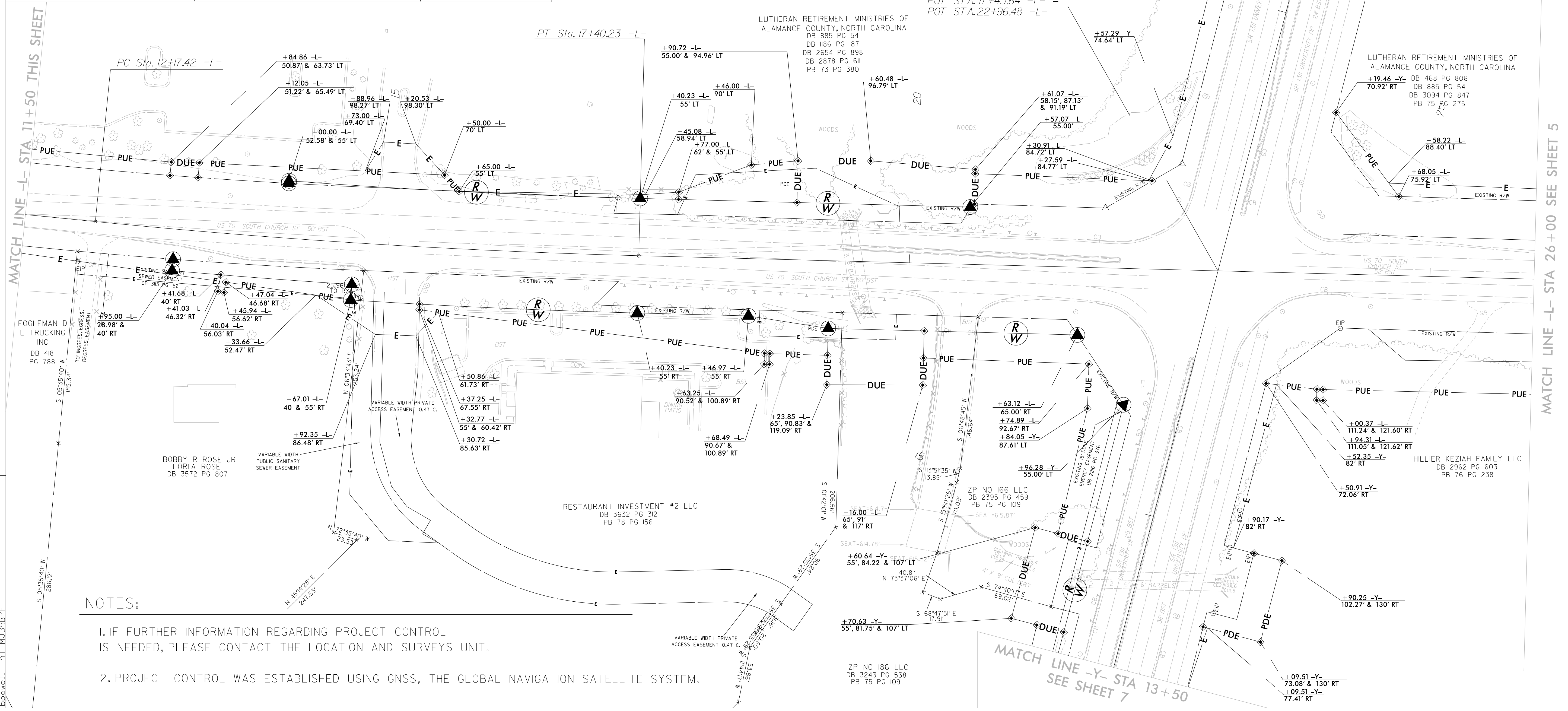
Witness my original signature, registration number and seal this 2nd day of April, 2020.

DocuSigned by:  
**Robert H. Bengtson**  
EA787E7CA33894F1  
 Professional Land Surveyor L-3453 PLS # Seal



MATCH LINE -L- STA 11 + 50 THIS SHEET

END CONSTRUCTION  
 POT STA. 21+72.00 -Y-



**NOTES:**

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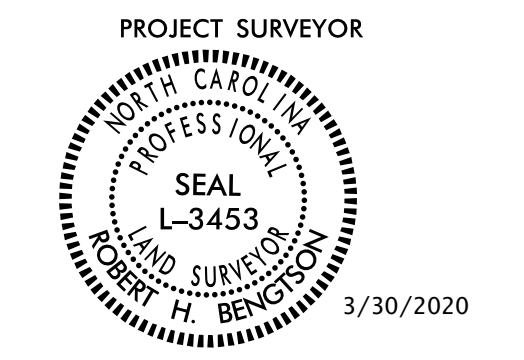
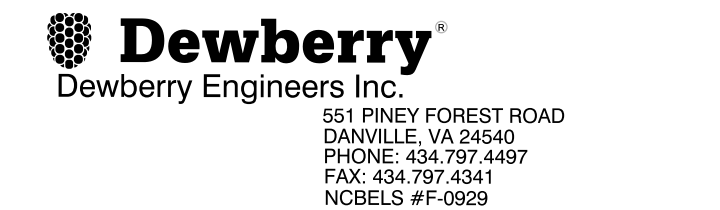
MATCH LINE -Y- STA 13 + 50  
 SEE SHEET 7

REVISIONS

PS: 5/11/19 3:27 PM C:\Users\michael\OneDrive\Documents\2020\U-6010.LS.RW04.200402.dgn  
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 6/2/19 10:13 AM C:\Users\michael\OneDrive\Documents\2020\U-6010.LS.RW04.200402.dgn

MATCH LINE -L- STA 26 + 00 SEE SHEET 5

Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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) (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 27th day of March, 2020.

Documented by: Robert H. Bengtson Professional Land Surveyor L-3453 PLS # Seal

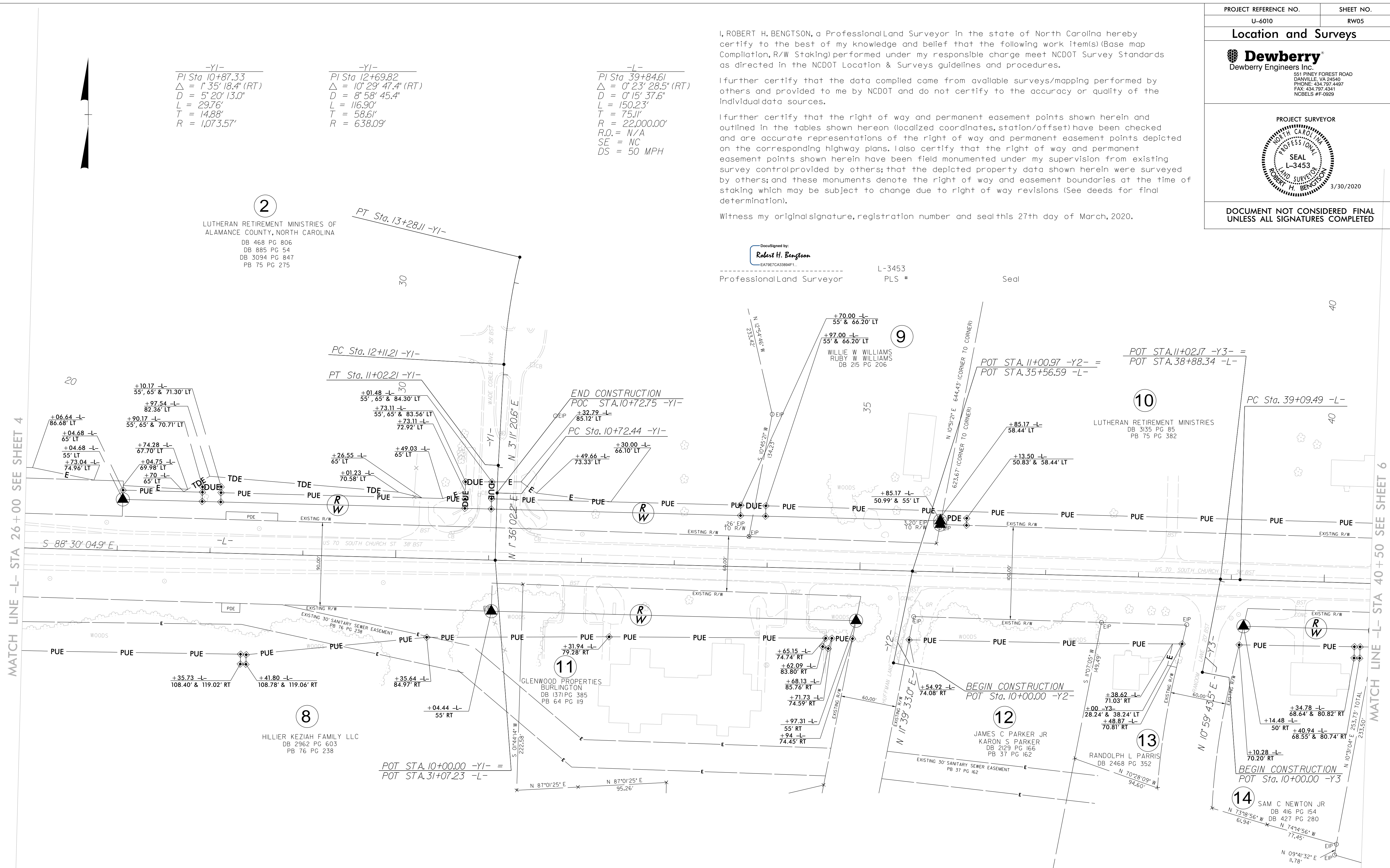


Table with 3 columns: Curve type (-YI-, -L-, -YI-), PI Station, Delta, D, L, T, R, R.O., SE, DS.

REVISIONS

MATCH LINE -L- STA 26+00 SEE SHEET 4

MATCH LINE -L- STA 40+50 SEE SHEET 6

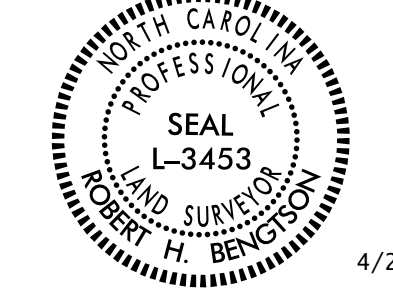
NOTES:

- 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.

Vertical text on the left margin containing file paths and sheet information.

Location and Surveys

**Dewberry**  
Dewberry Engineers Inc.  
551 PINEY FOREST ROAD  
DANVILLE, VA 24540  
PHONE: 434.787.4487  
FAX: 434.787.4341  
NCBELS #F-0929

PROJECT SURVEYOR  
  
 4/2/2020

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

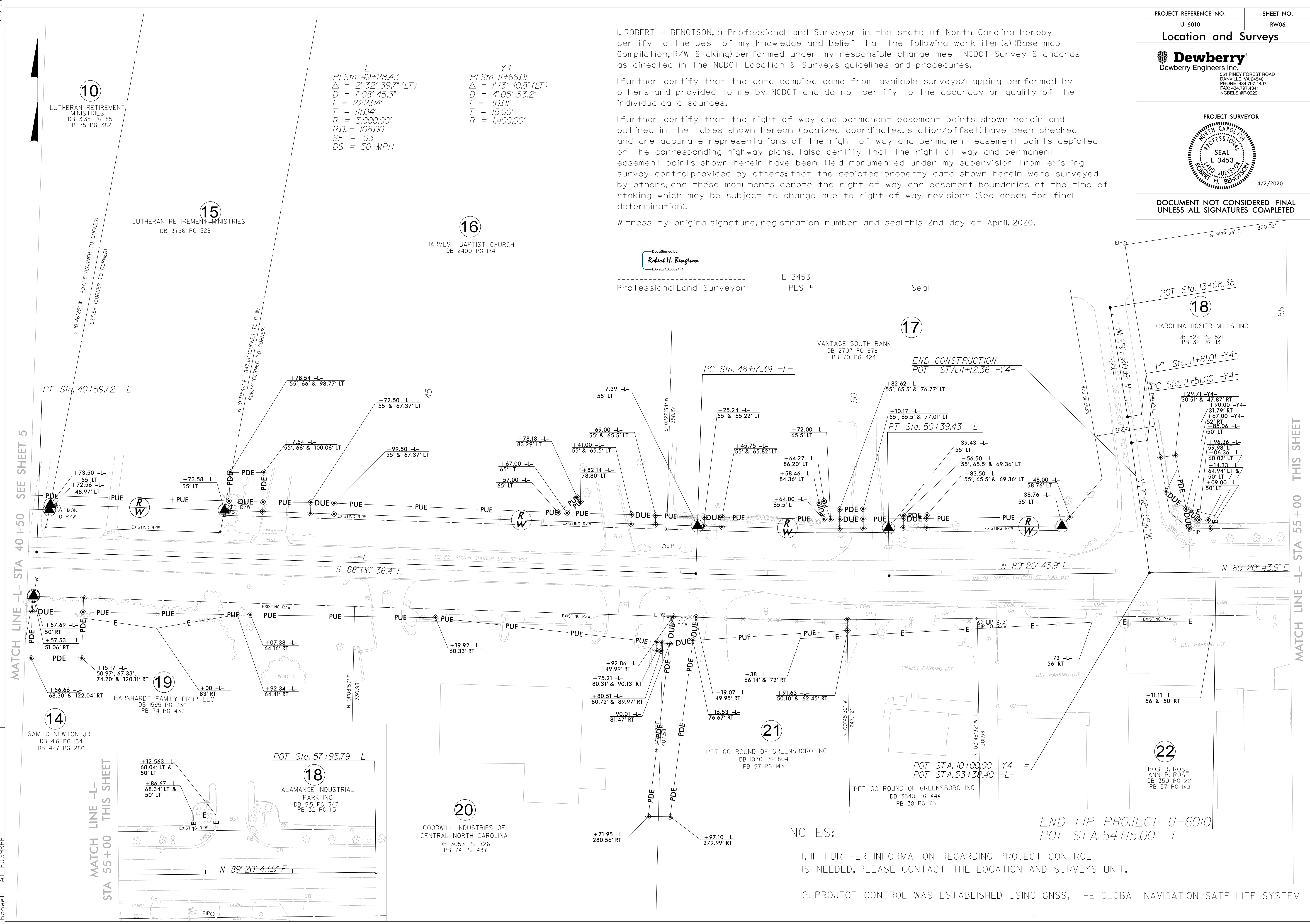
I, ROBERT H. BENGTSON, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & 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 2nd day of April, 2020.

Designed by:  
**Robert H. Bengtson**  
EA79E7CA38804F1...  
Professional Land Surveyor L-3453 PLS # Seal



**-L-**  
 PI Sta 49+28.43  
 $\Delta = 2' 32' 39.7''$  (LT)  
 $D = 1' 08' 45.3''$   
 $L = 222.04'$   
 $T = 111.04'$   
 $R = 5,000.00'$   
 $R.O. = 108.00'$   
 $SE = .03$   
 $DS = 50$  MPH

**-Y4-**  
 PI Sta 11+66.01  
 $\Delta = 1' 13' 40.8''$  (LT)  
 $D = 4' 05' 33.2''$   
 $L = 30.01'$   
 $T = 15.00'$   
 $R = 1,400.00'$

MATCH LINE -L- STA 40+50 SEE SHEET 5

MATCH LINE -L- STA 55+00 THIS SHEET

MATCH LINE -L- STA 55+00 THIS SHEET

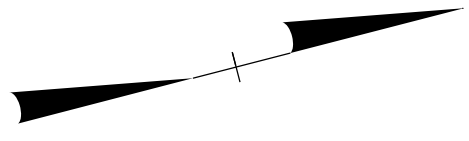
NOTES:  
 1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.  
 2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

END TIP PROJECT U-6010 POT STA. 54+15.00 -L-

PC: APR 2020, 09:37  
 PS: 5/11/2020, 13:38  
 AT: M3385P  
 Survey/MICROSTATION v.w. sheets  
 2020U-6010.LS.RW06.200402.dgn

REVISIONS

20200313 10:37:05 C:\Users\brb\OneDrive\Documents\Projects\2020\U-6010\LS.RW07\_200327.dgn  
PC-MAR-2020-10-04-13:56:04 S:\Proj\U-6010\MICROSTATION\w\_sheets\2020\U-6010.LS.RW07\_200327.dgn  
brb



I, ROBERT H. BENGTON, 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.

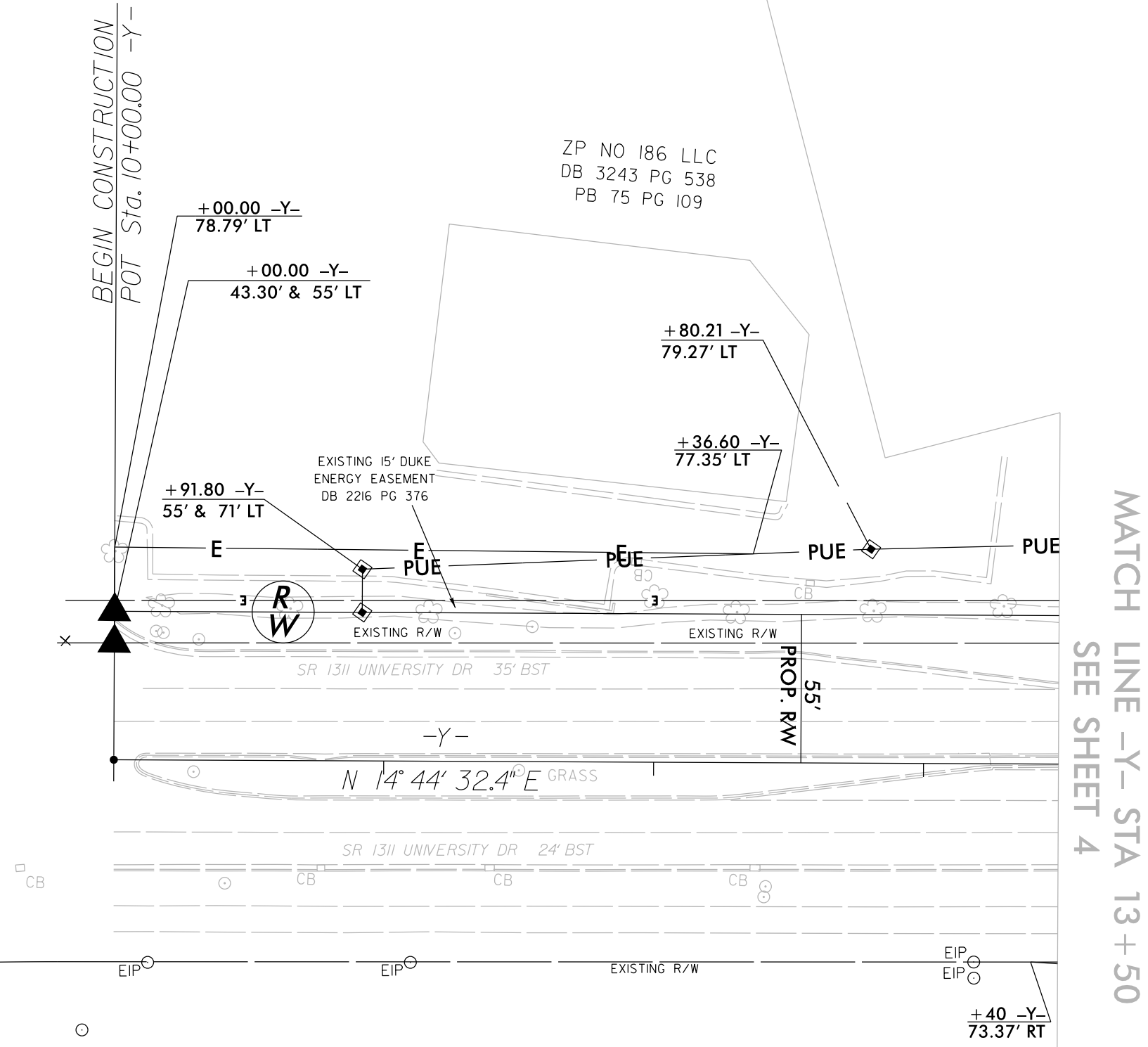
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

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 27th day of March, 2020.

DocuSigned by:  
**Robert H. Bengton**  
EA79E7CA33864F1... L-3453  
Professional Land Surveyor PLS # Seal

PROJECT REFERENCE NO. U-6010	SHEET NO. RW07
<b>Location and Surveys</b>	
 <b>Dewberry</b> Dewberry Engineers Inc. 551 PINEY FOREST ROAD DANVILLE, VA 24540 PHONE: 434.787.4407 FAX: 434.787.4341 NCBELS #F-0929	
PROJECT SURVEYOR  SEAL L-3453 ROBERT H. BENGTON 3/30/2020	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCH LINE -Y- STA 13+50  
SEE SHEET 4

- 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.

N 88° 09' 13" E  
111.92' ±  
M 21.00' ±  
N .66. BLOE. S.  
100'