

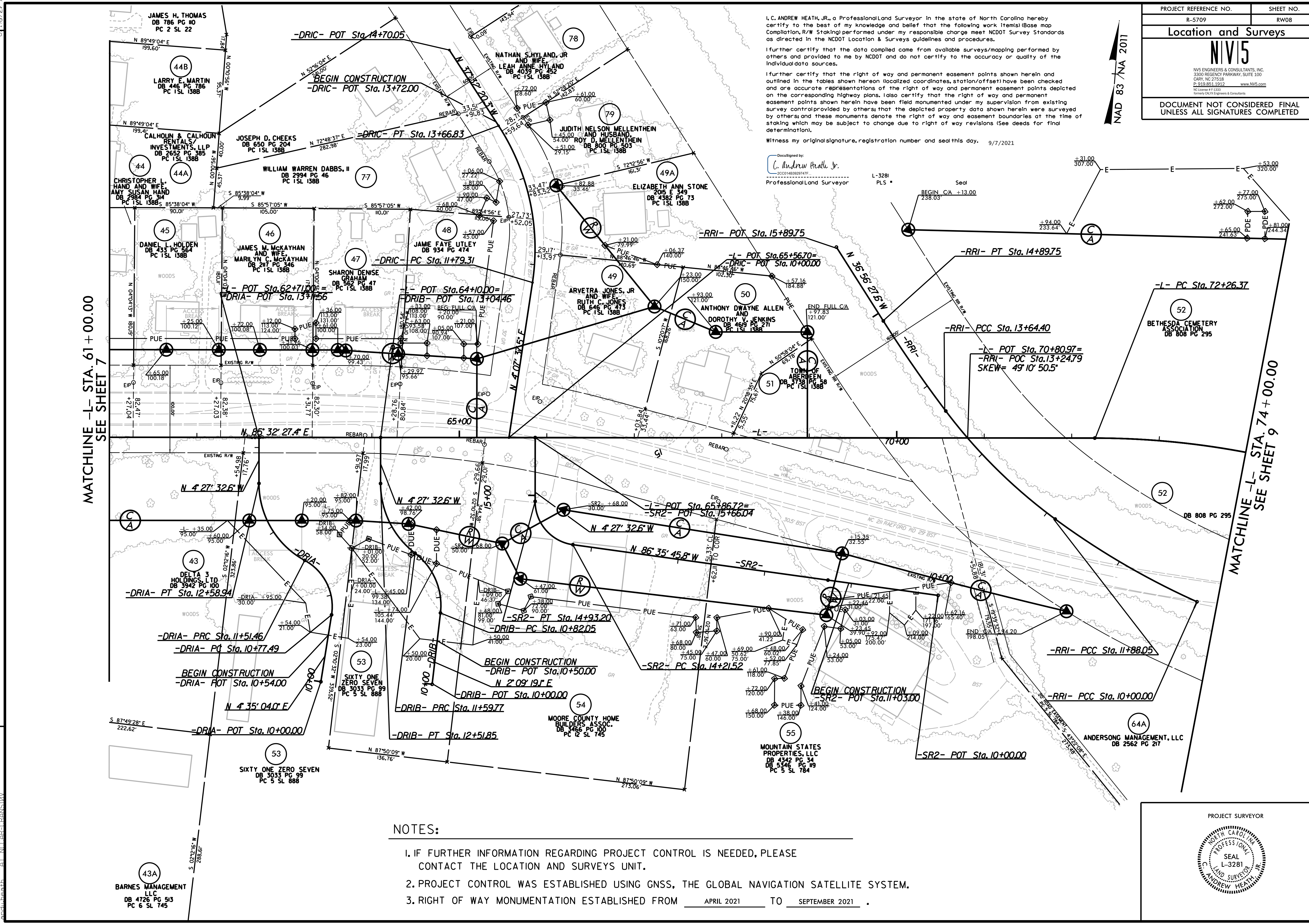
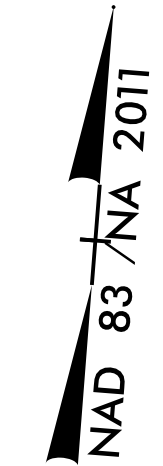
I, C. ANDREW HEATH, JR., a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) Base map Completion, R/W Staking performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & 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 day, 9/7/2021

Designed by:  
*C. Andrew Heath, Jr.*  
 2000148320717  
 Professional Land Surveyor



MATCHLINE -L- STA. 61 + 00.00  
SEE SHEET 7

MATCHLINE -L- STA. 74 + 00.00  
SEE SHEET 9

REVISIONS  
9/7/2021 - REVISED PER DIVISION L&S COMMENTS

**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 FROM APRIL 2021 TO SEPTEMBER 2021 .

PROJECT SURVEYOR

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6/22/19


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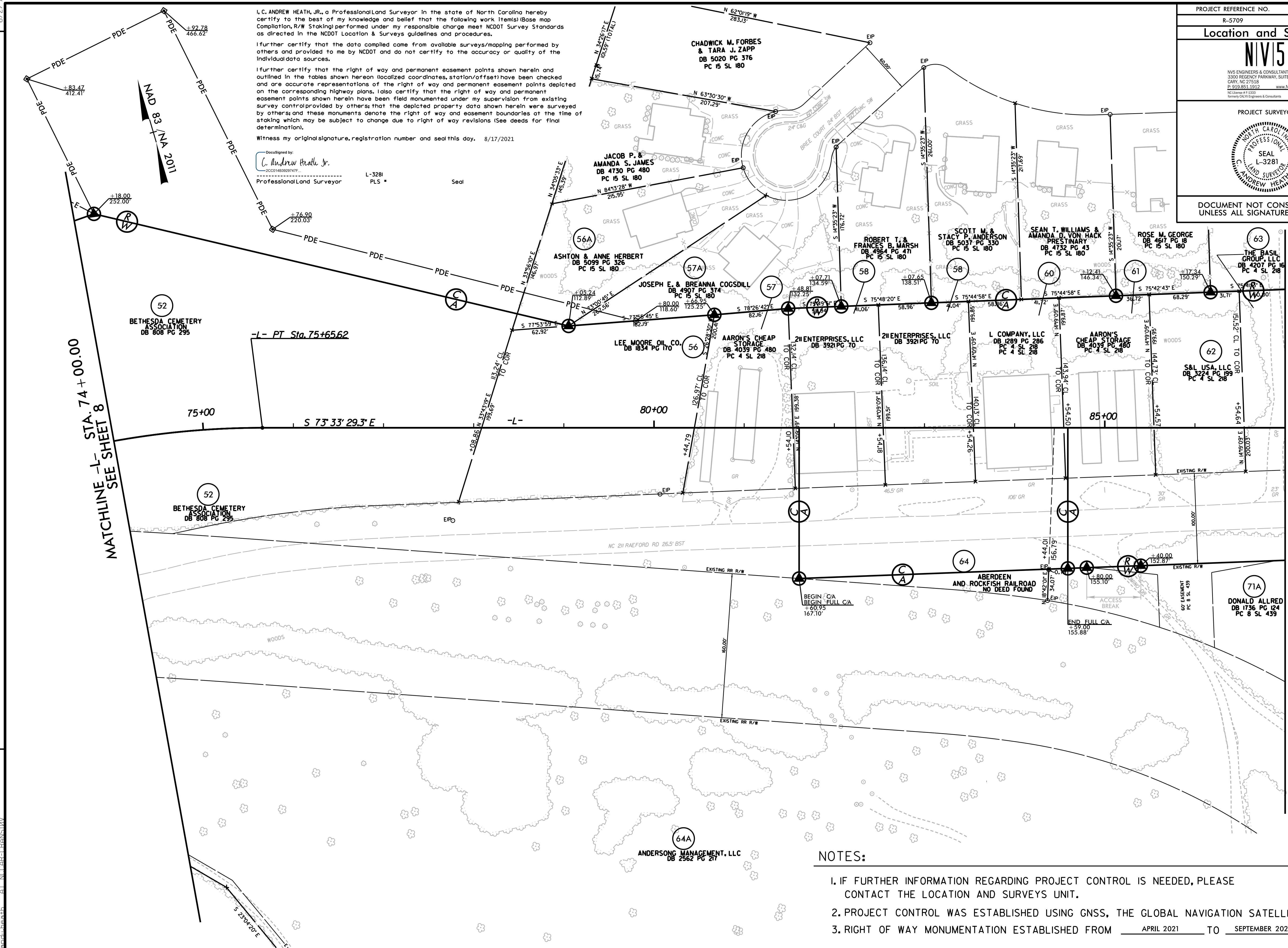
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Witness my original signature, registration number and seal this day, 8/17/2021

Designed by:  
  
 C. Andrew Heath, Jr.  
 22001483929747  
 Professional Land Surveyor L-3281 PLS \*

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW09
<b>Location and Surveys</b>	
<b>NIVIS</b>	
<small>NIVIS ENGINEERS &amp; CONSULTANTS, INC.        3300 REGENCY PARKWAY, SUITE 100        CARY, NC 27513        P: 919.851.1912 www.NIVIS.com        NC License # P-5333        Formerly CIVIL ENGINEERS &amp; CONSULTANTS</small>	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

MATCHLINE -L- STA. 74+00.00  
SEE SHEET 8

MATCHLINE -L- STA. 87+00.00  
SEE SHEET 10

**NOTES:**

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6/2/19


PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW10

**Location and Surveys**

# NIVIS

NIVS ENGINEERS & CONSULTANTS, INC.  
3300 REGENCY PARKWAY, SUITE 100  
CARY, NC 27518  
P: 919.851.1912 www.NIVS.com  
NC License # F-1533  
Formerly CIVIL ENGINEERS & CONSULTANTS

PROJECT SURVEYOR



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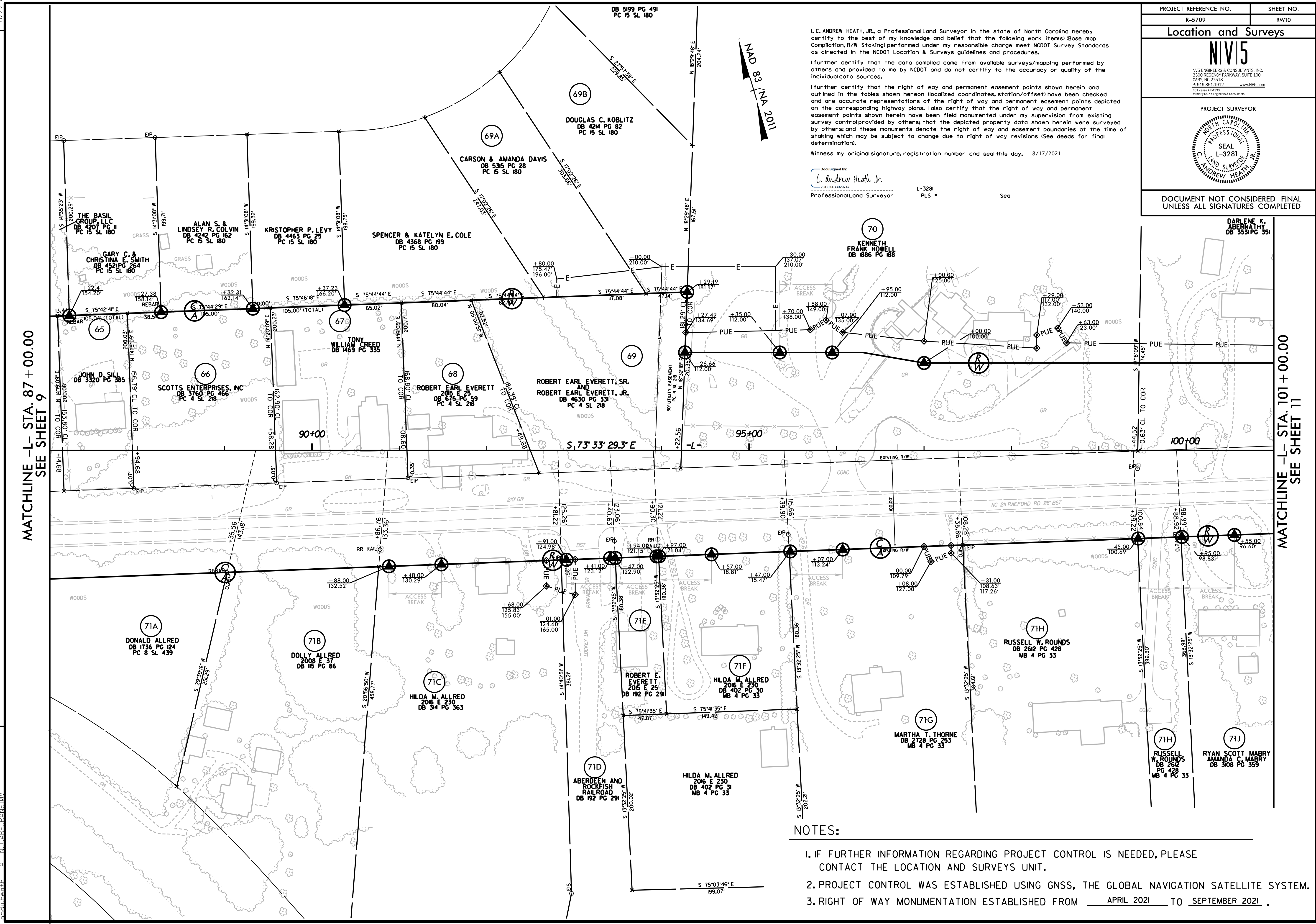
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DocuSigned by:  
*C. Andrew Heath Jr.*  
Professional Land Surveyor L-3281 PLS Seal

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MATCHLINE -L- STA. 87 + 00.00  
SEE SHEET 9

MATCHLINE -L- STA. 101 + 00.00  
SEE SHEET 11

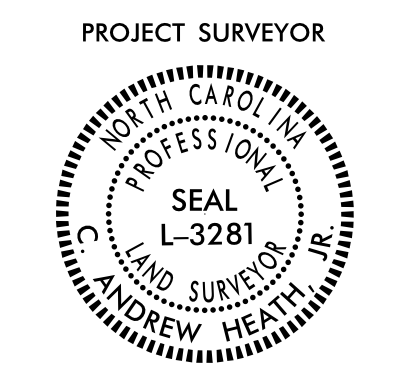
REVISIONS

- NOTES:**
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 andheath



Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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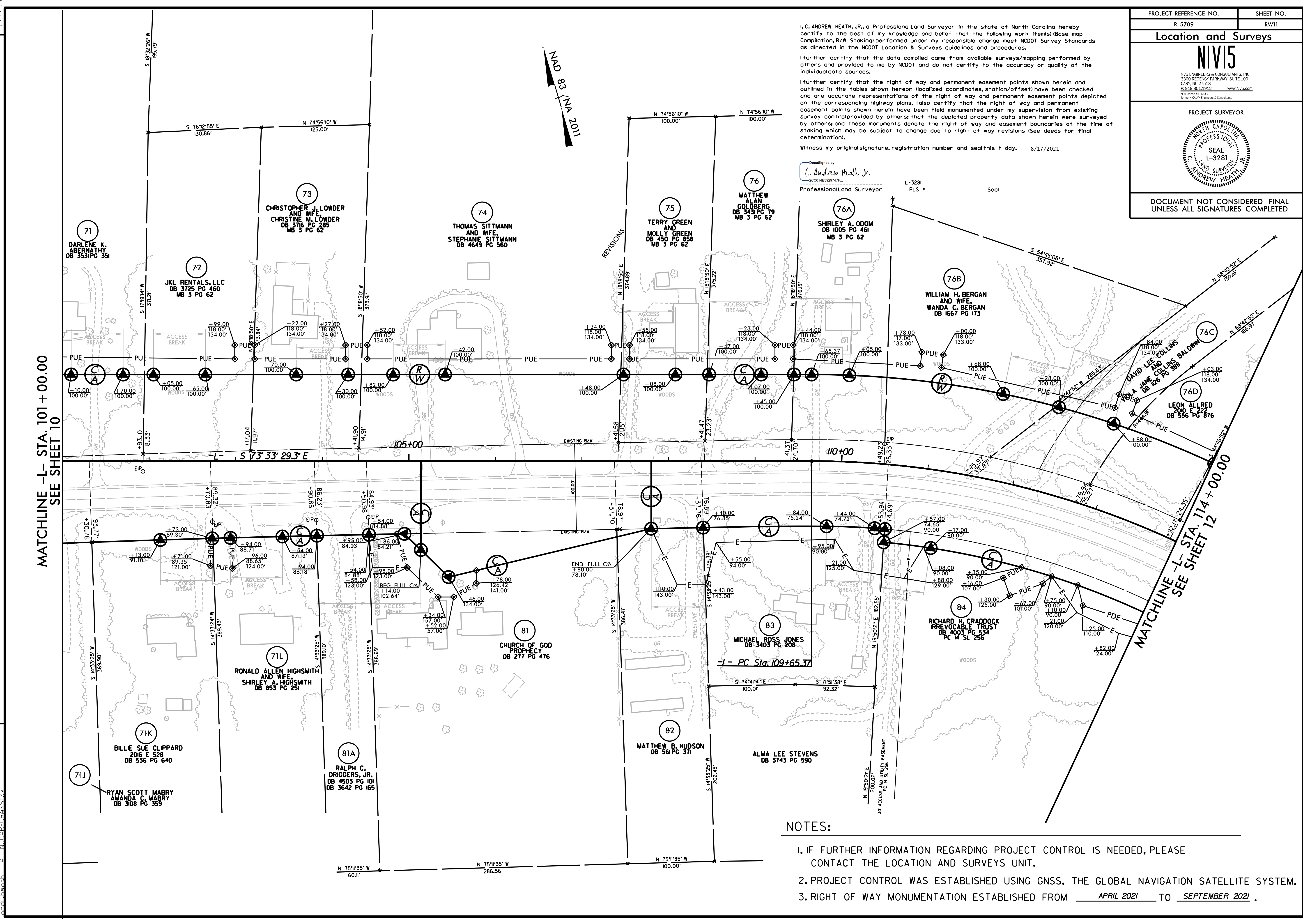
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Witness my original signature, registration number and seal this 8 day, 8/17/2021.

DocuSigned by:  
C. Andrew Heath, Jr.  
20201483929747F  
Professional Land Surveyor

L-3281 PLS \* Seal



MATCHLINE -L- STA. 101+00.00  
SEE SHEET 10

MATCHLINE -L- STA. 114+00.00  
SEE SHEET 12

NOTES:

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

6/2/2019

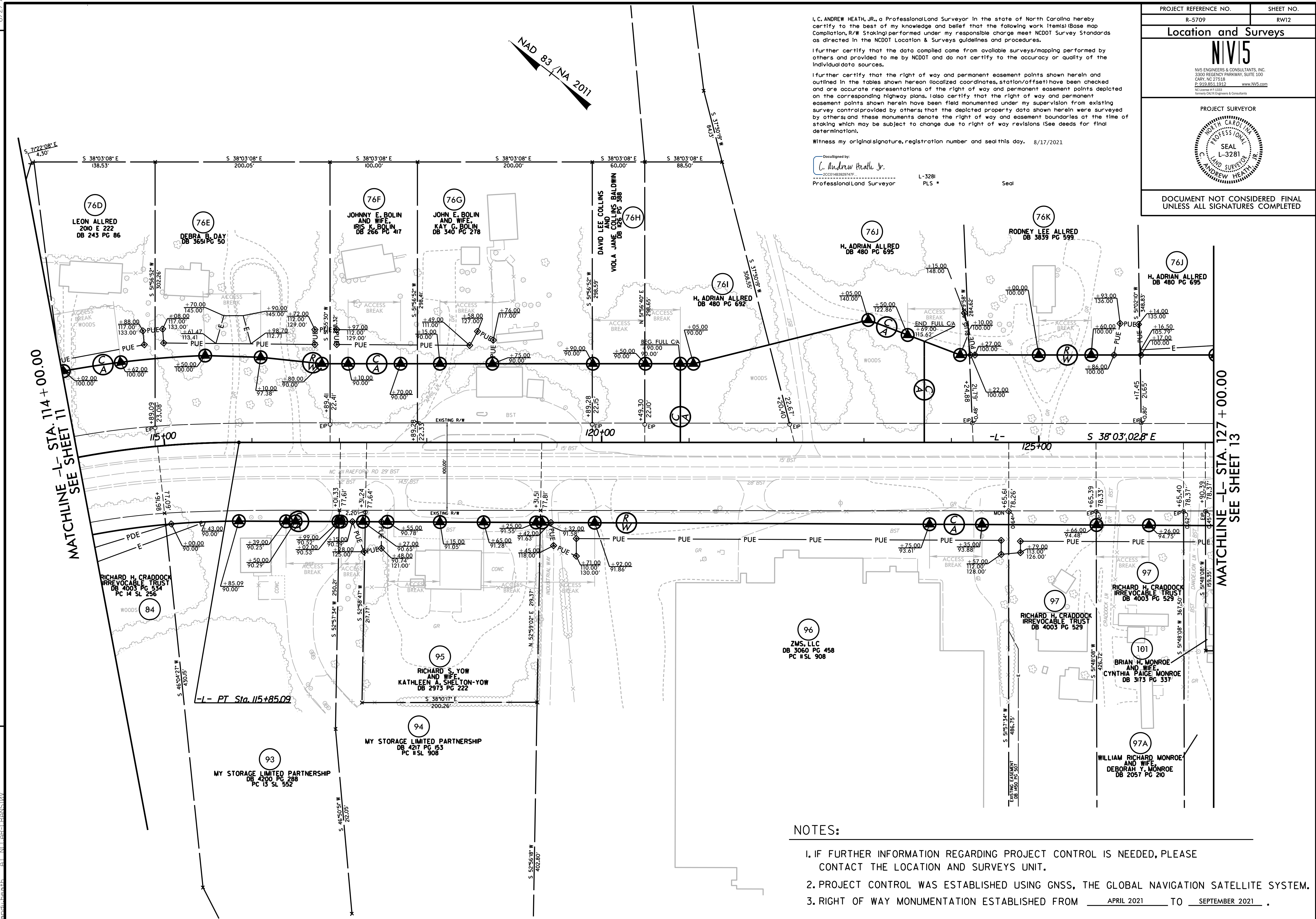
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6/2/19

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l150  
L-3281  
L-3281

REVISIONS



NAD 83 (NA 2011)

I, C. ANDREW HEATH, JR., 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 day, 8/17/2021

Designed by:  
*C. Andrew Heath Jr.*  
2000148302942P  
Professional Land Surveyor

L-3281  
PLS \* Seal

PROJECT REFERENCE NO. R-5709	SHEET NO. RW12
<b>Location and Surveys</b>	
<b>NIVIS</b>	
<small>NIVIS ENGINEERS &amp; CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27513 P: 919.851.1912 www.NIVIS.com NC License # E-1333 Formerly CIVIL Engineers &amp; Consultants</small>	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	


NOTES:

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- RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021 .



6/2/09

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andrew.heath

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW13
<b>Location and Surveys</b>	
<b>NIVIS</b>	
<small>NIVIS ENGINEERS &amp; CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARR, NC 27518 P: 919.851.1912 www.NIVIS.com NC License # F 5333 Surveying &amp; Engineering &amp; Consultants</small>	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

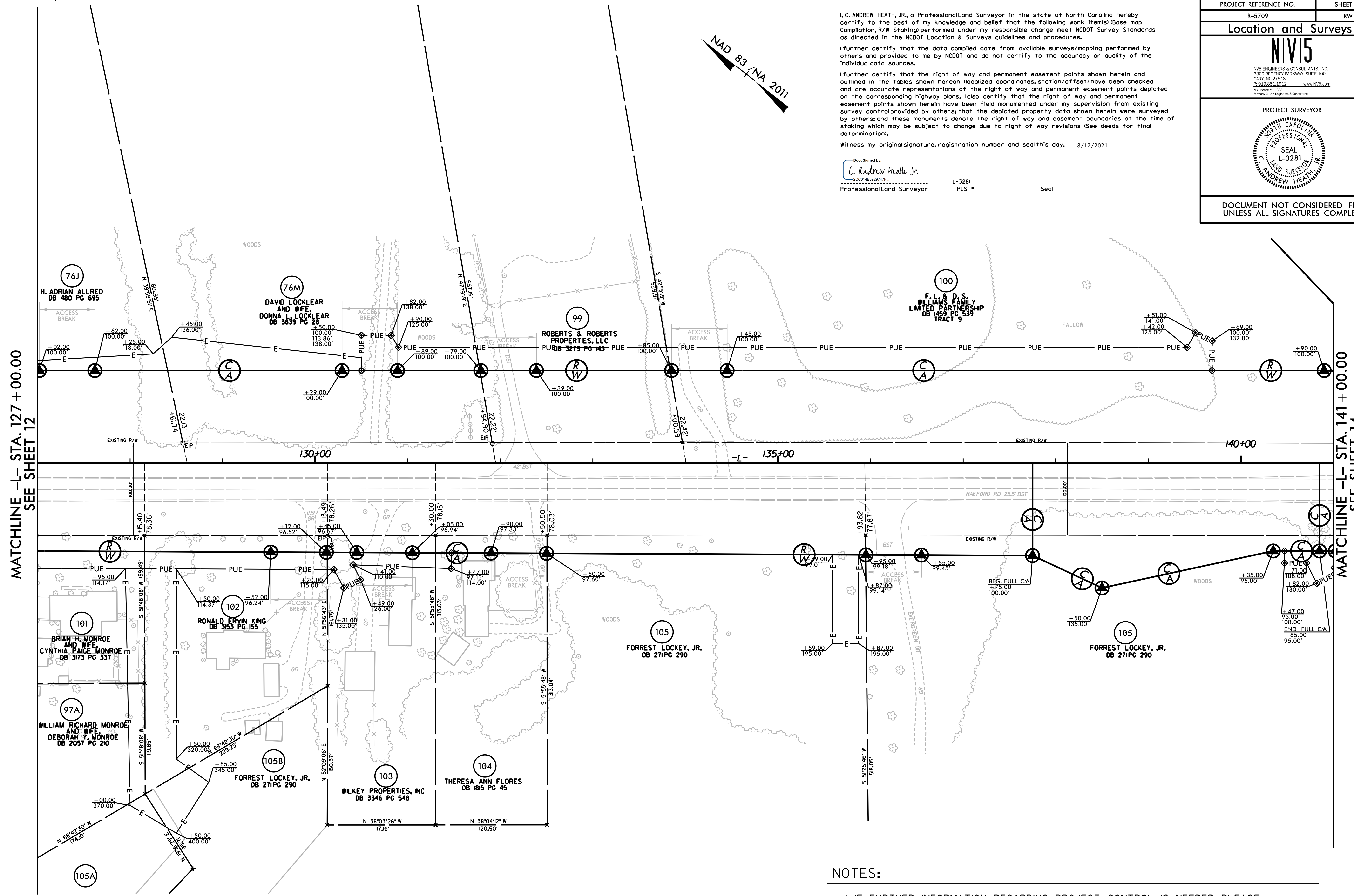
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Witness my original signature, registration number and seal this day. 8/17/2021

DocuSigned by:  
*C. Andrew Heath, Jr.*  
20210818092947  
Professional Land Surveyor L-3281 PLS \* Seal



REVISIONS

MATCHLINE -L- STA. 127 + 00.00  
SEE SHEET 12

MATCHLINE -L- STA. 141 + 00.00  
SEE SHEET 14

**NOTES:**

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.



6/2/2019

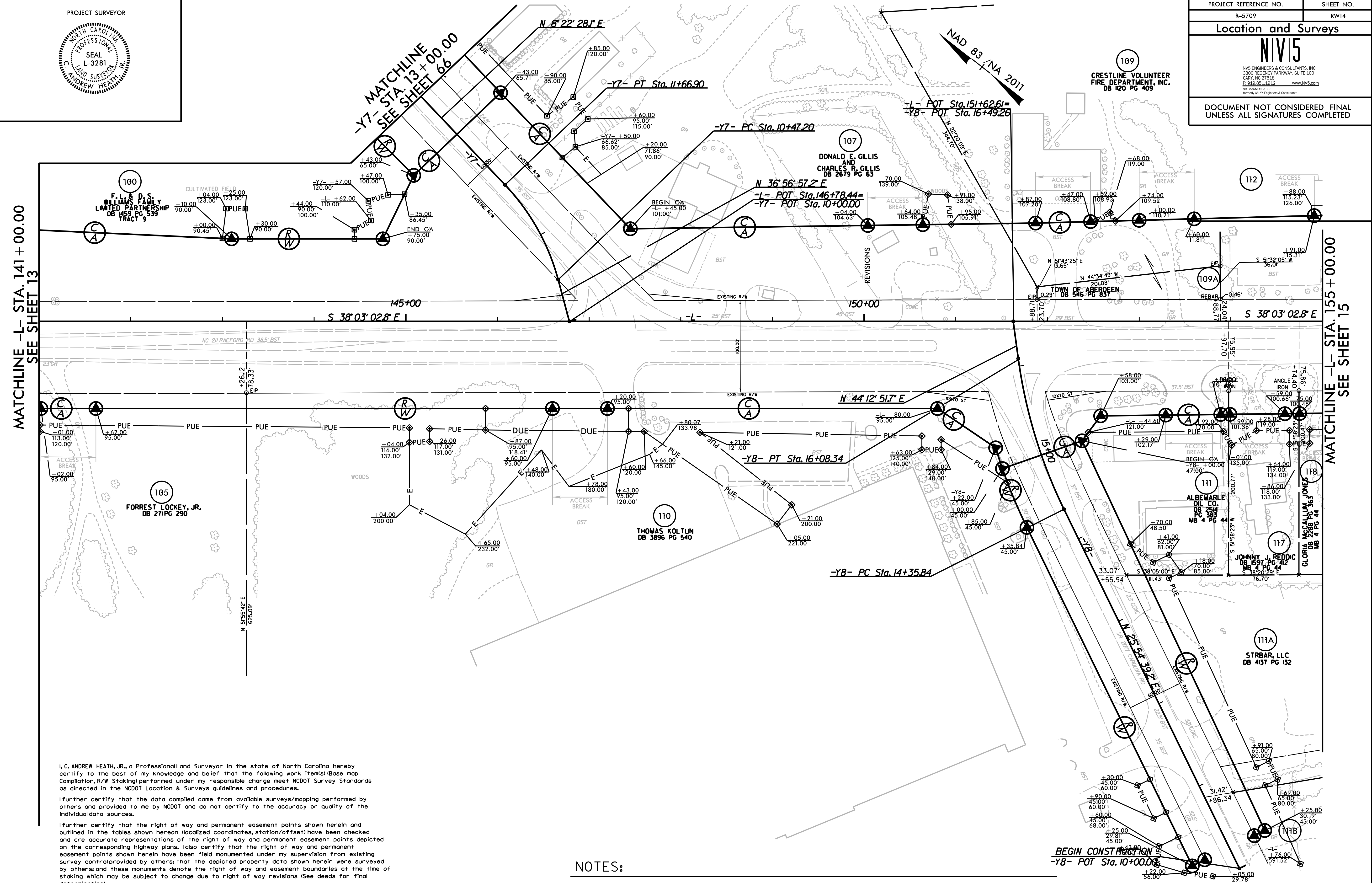
PROJECT SURVEYOR



PROJECT REFERENCE NO. R-5709	SHEET NO. RW14
<b>Location and Surveys</b>	
<b>NIVIS</b>	
<small>NIVIS ENGINEERS &amp; CONSULTANTS, INC.          3300 REGENCY PARKWAY, SUITE 100          CARY, NC 27518          P: 919.851.1912 www.nivis.com          NC License # F-1533          Member: IASAB, Engineers &amp; Consultants</small>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -L- STA. 141+00.00  
SEE SHEET 13

MATCHLINE -L- STA. 155+00.00  
SEE SHEET 15



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Witness my original signature, registration number and seal this day, 8/17/2021

Declassified by:  
*C. Andrew Heath, Jr.*  
 L-3281  
 Professional Land Surveyor PLS \* Seal

**NOTES:**

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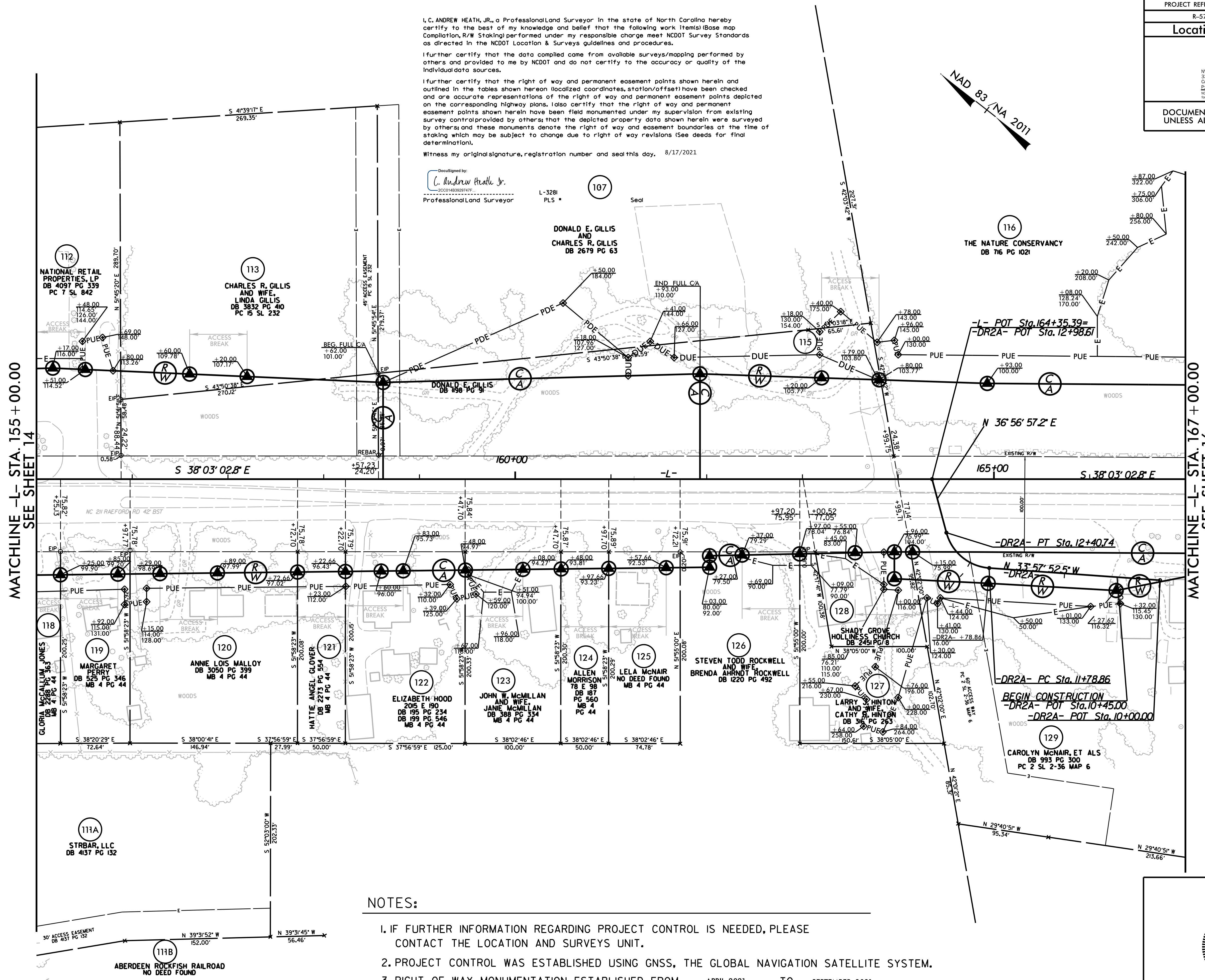
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DocuSigned by:  
  
 C. Andrew Heath, Jr.  
 L-3281 PLS  
 Professional Land Surveyor



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REVISIONS

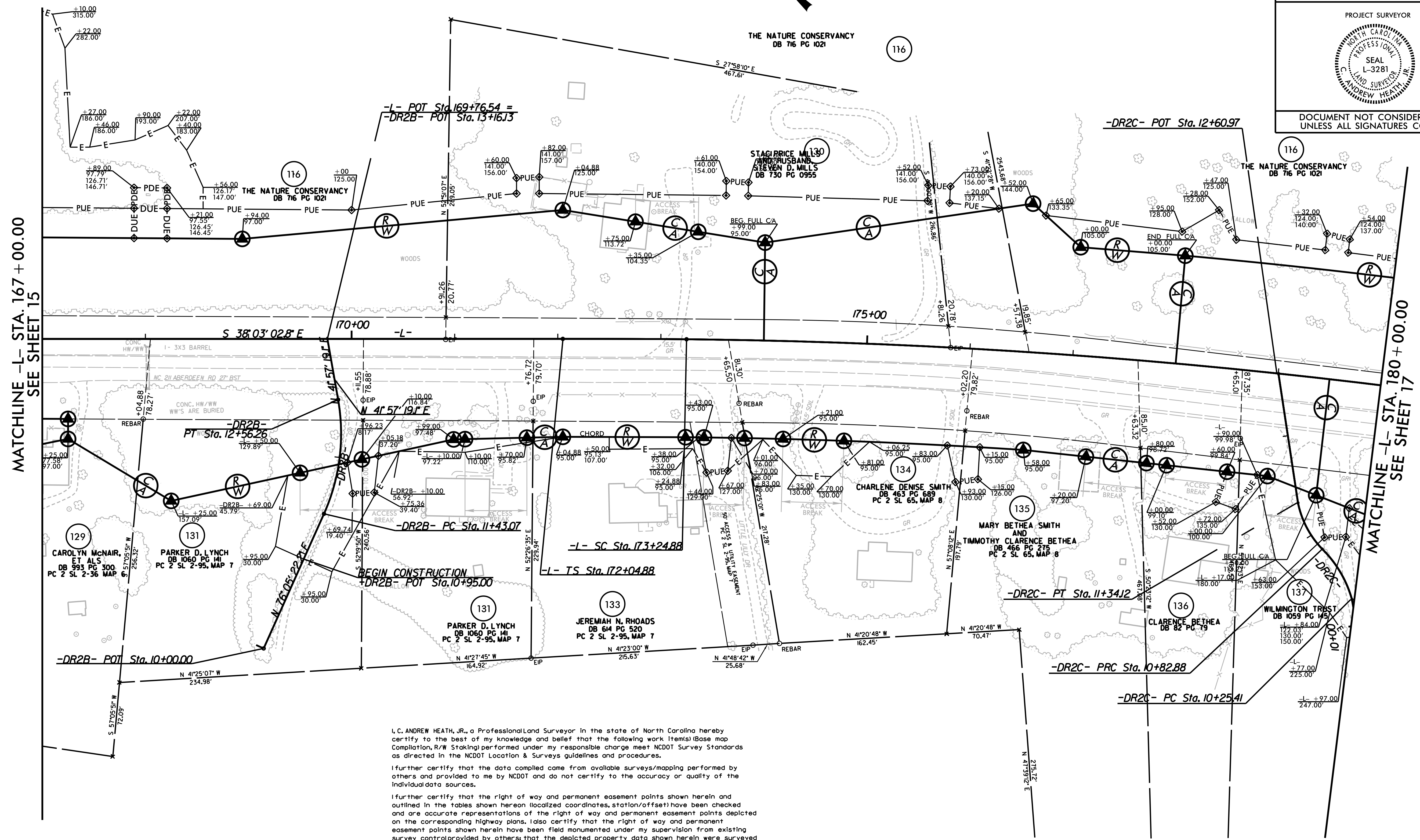
MATCHLINE -L- STA. 155 + 00.00  
SEE SHEET 14

MATCHLINE -L- STA. 167 + 00.00  
SEE SHEET 16

6/2/09

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 andrewh





REVISIONS

MATCHLINE -L- STA. 167 + 00.00  
SEE SHEET 15

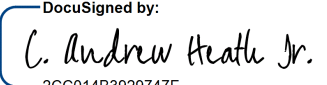
MATCHLINE -L- STA. 180 + 00.00  
SEE SHEET 17

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Witness my original signature, registration number and seal this day. 8/17/2021

DocuSigned by:  
  
 C. Andrew Heath, Jr.  
 20001483929147E  
 Professional Land Surveyor L-3281 PLS Seal

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 andrewh



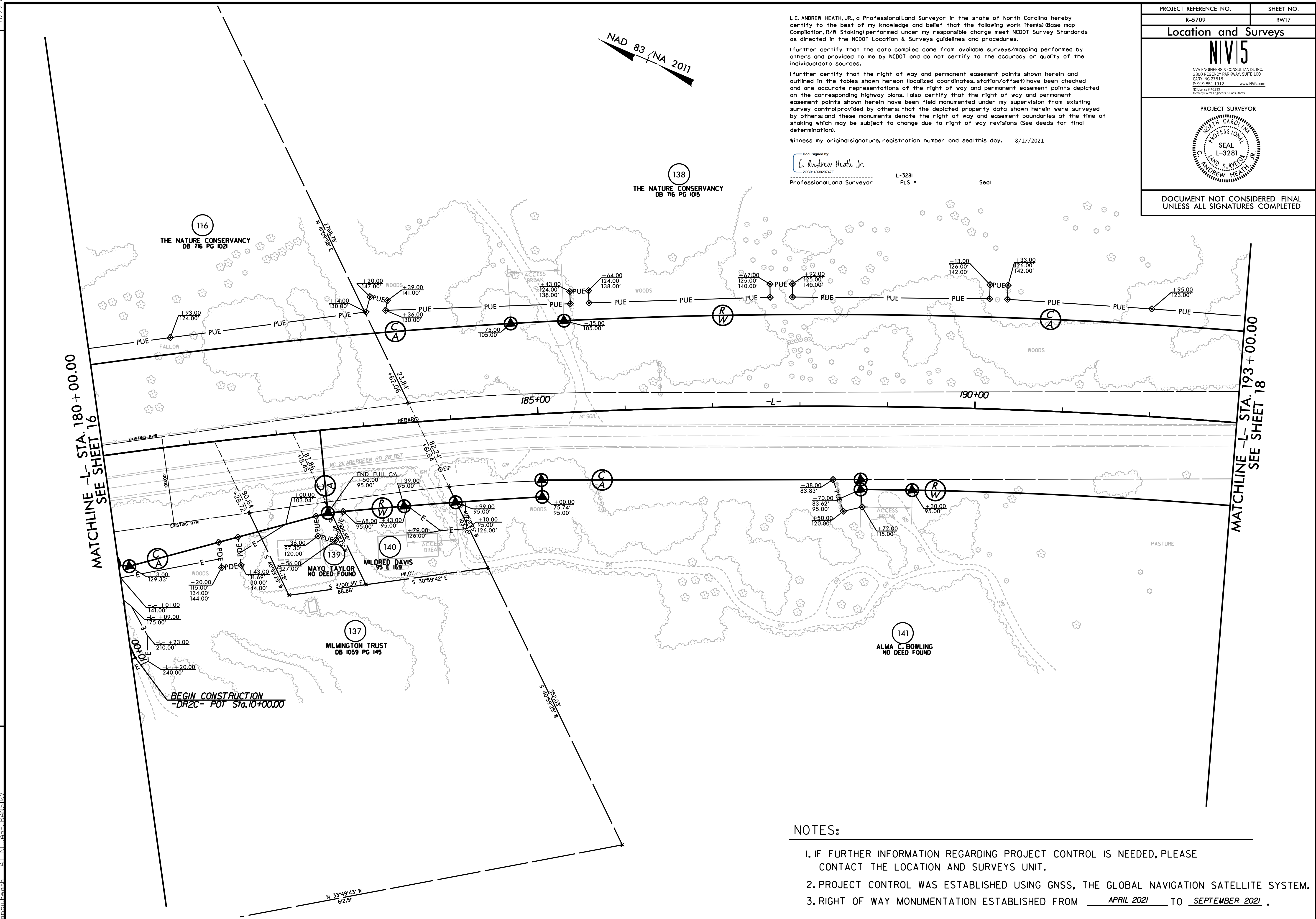
6/2/09

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C:\Users\andrew\Documents\Projects\5709\1s\_r17.dgn  
andrew

REVISIONS

MATCHLINE -L- STA. 180+00.00  
SEE SHEET 16

MATCHLINE -L- STA. 193+00.00  
SEE SHEET 18



NAD 83 / NA 2011


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C. Andrew Heath Jr.  
Professional Land Surveyor L-3281 PLS Seal

PROJECT REFERENCE NO. R-5709	SHEET NO. RW17
<b>Location and Surveys</b>	
<b>NIVIS</b> NIVIS ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.NIVIS.com NC License # P-1233 Formerly CIVIL Engineers & Consultants	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

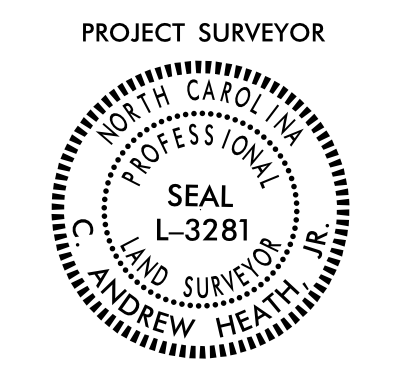
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6/2/2019

Location and Surveys



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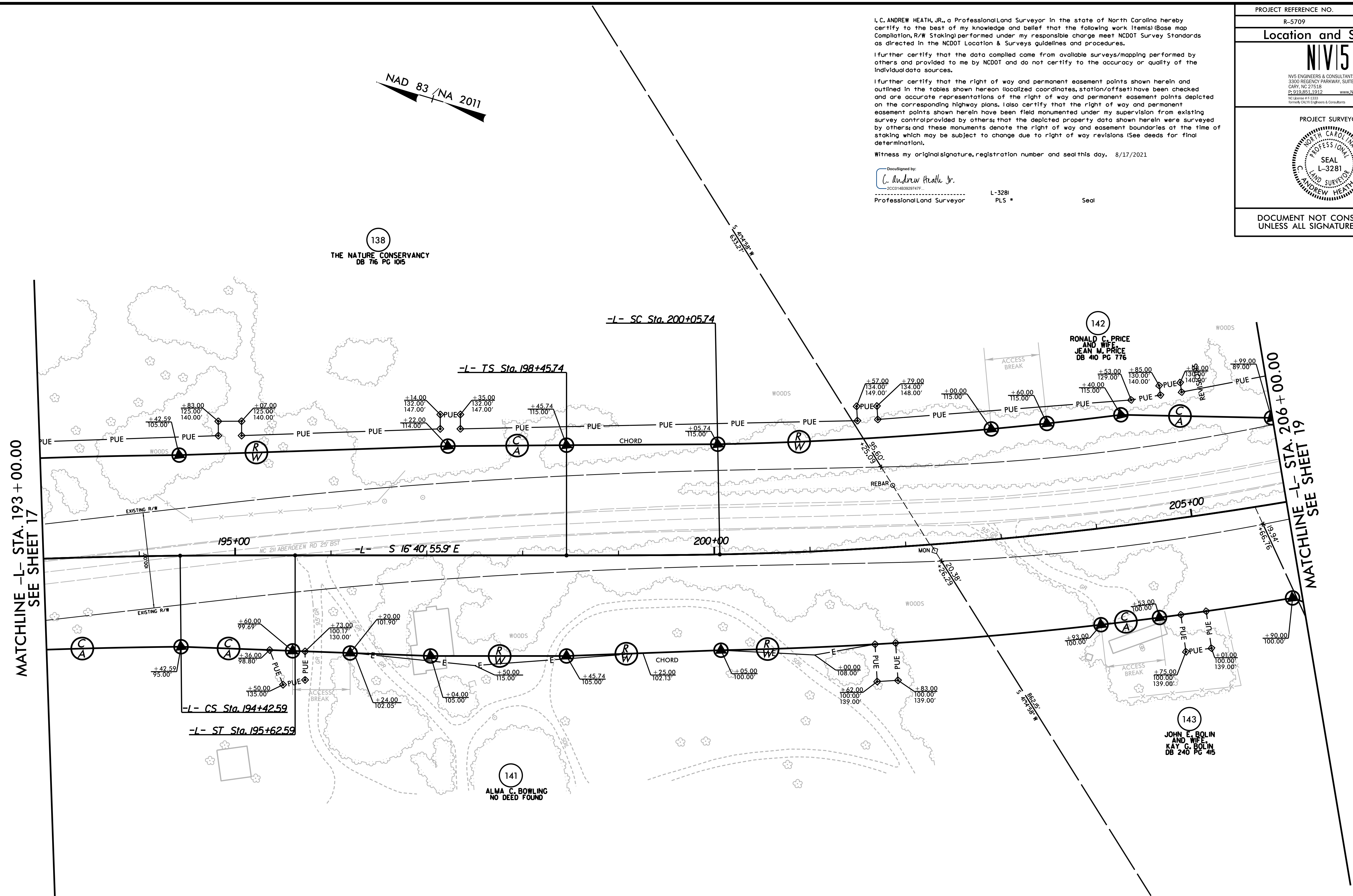
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DocuSigned by:  
*C. Andrew Heath Jr.*  
 202004820291476  
 Professional Land Surveyor

L-3281  
 PLS  
 Seal

NAD 83 / N.A. 2011



MATCHLINE -L- STA. 193 + 00.00  
SEE SHEET 17

MATCHLINE -L- STA. 206 + 00.00  
SEE SHEET 19

REVISIONS

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 andheath

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 FROM APRIL 2021 TO SEPTEMBER 2021.



6/2/19

Location and Surveys

# NIVIS

NIVIS ENGINEERS & CONSULTANTS, INC.  
 3300 REGENCY PARKWAY, SUITE 100  
 CHRY, NC 27518  
 P: 919.851.1912 www.NIVIS.com  
 NC License # F 1533  
 Member NCEM Engineers & Geospatial

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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 day, 8/17/2021

DocuSigned by:  
*C. Andrew Heath Jr.*  
 20201483929747E  
 Professional Land Surveyor

L-3281 PLS \*

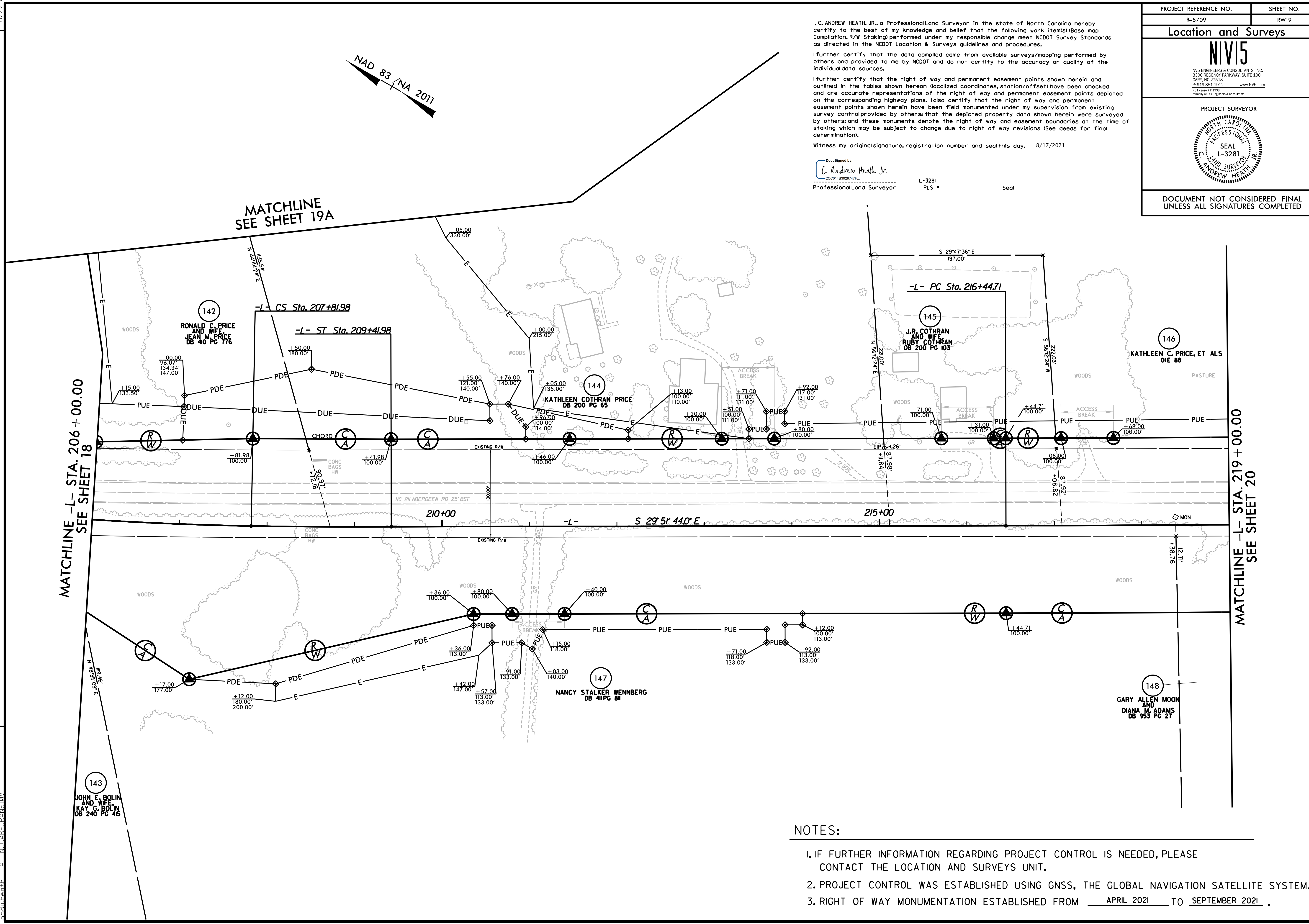
Seal

NAD 83 / N.A. 2011

MATCHLINE  
 SEE SHEET 19A

MATCHLINE -L- STA. 206 + 00.00  
 SEE SHEET 18

MATCHLINE -L- STA. 219 + 00.00  
 SEE SHEET 20



REVISIONS

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### 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 FROM APRIL 2021 TO SEPTEMBER 2021.



6/2/19

17-AUG-2021 11:50  
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andrew

REVISIONS

NAD 83 (NA 2011)

I, C. ANDREW HEATH, JR., 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.


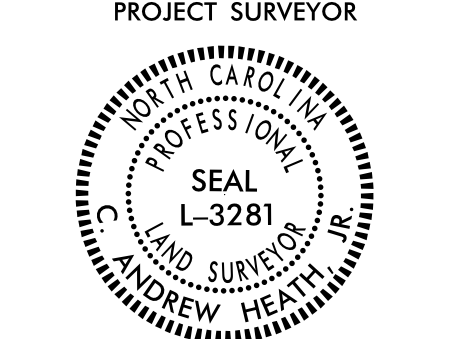
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

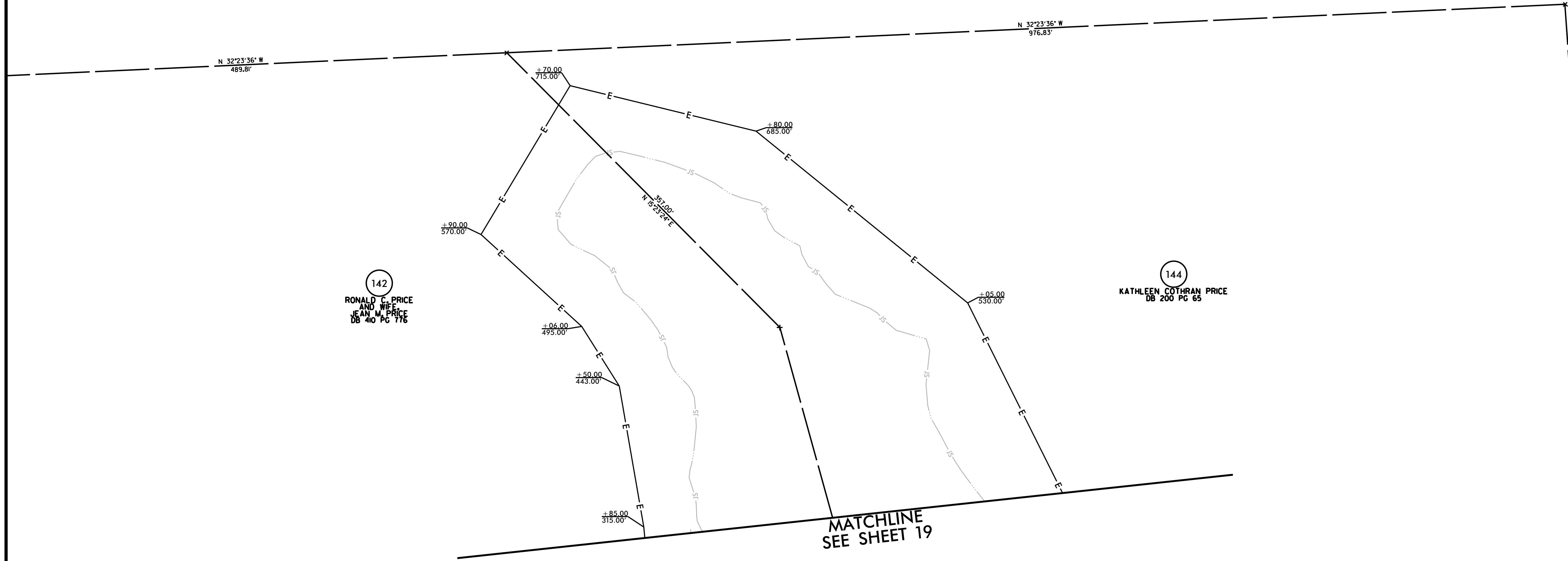
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Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
C. Andrew Heath Jr.  
Professional Land Surveyor

L-3281  
PLS Seal

PROJECT REFERENCE NO. R-5709	SHEET NO. RW19A
<b>Location and Surveys</b>	
 <small>NIVIS ENGINEERS &amp; CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CHAR, NC 27318 P: 919.851.1912 www.NIVIS.com NC License # F-1333 Member NCSPE Engineers &amp; Consultants</small>	
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 FROM APRIL 2021 TO SEPTEMBER 2021.







6/2/19

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW21
<b>Location and Surveys</b>	
<b>NIV15</b>	
<small>NVS ENGINEERS &amp; CONSULTANTS, INC.          3300 REGENCY PARKWAY, SUITE 100          CHARLOTTE, NC 27218          P: 919.851.1912 www.NVS.com          NC License # F-1313          Member: NCMA Engineers &amp; Consultants</small>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



L. C. ANDREW HEATH, JR., a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work (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.

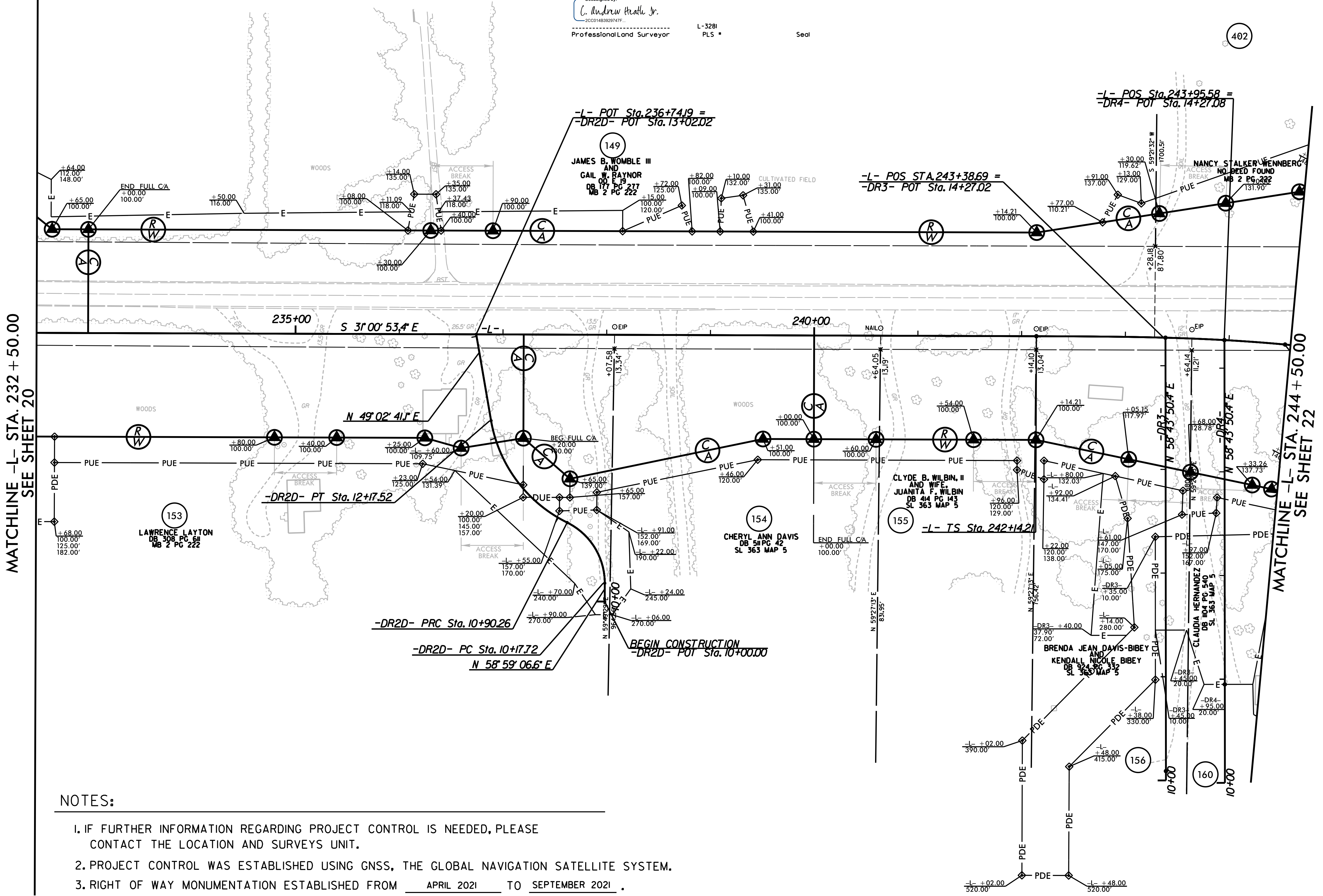
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

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Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
**L. Andrew Heath, Jr.**  
202108160929474F  
 Professional Land Surveyor L-3281 PLS Seal

NAD 83 / NA 2011



- 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 FROM APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

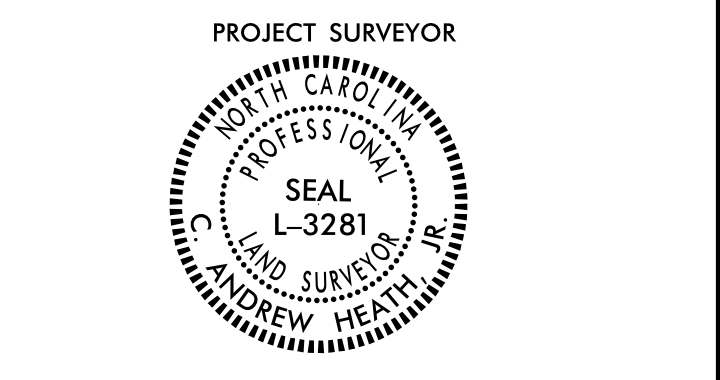
MATCHLINE -L- STA. 232 + 50.00  
SEE SHEET 20

MATCHLINE -L- STA. 244 + 50.00  
SEE SHEET 22

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 L. Andrew Heath  
 202108160929474F  
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 6/2/19

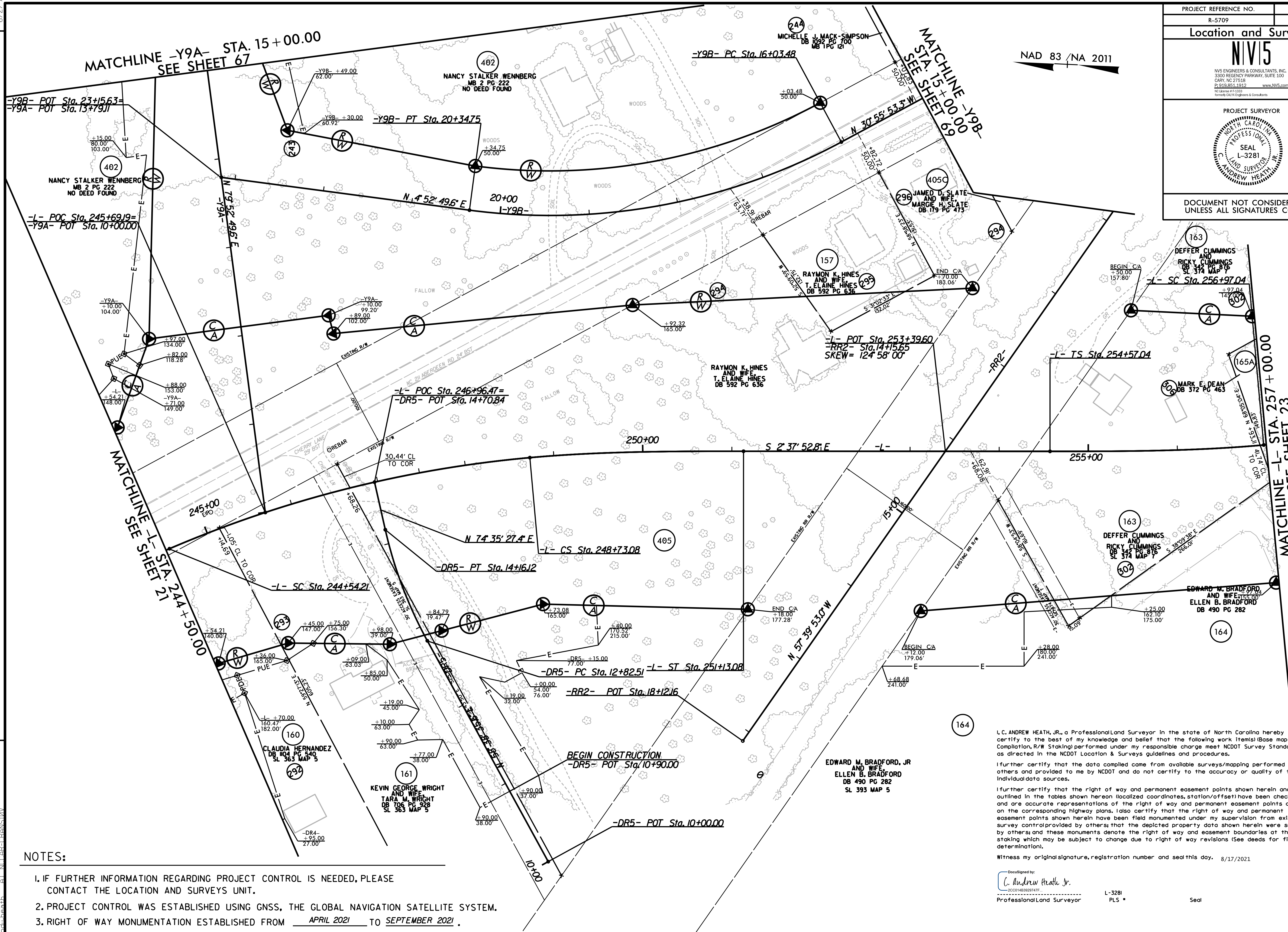


Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

6/22/19



REVISIONS

NOTES:

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DocuSigned by:  
C. Andrew Heath, Jr.  
20201483929743F  
Professional Land Surveyor

L-3281  
PLS Seal

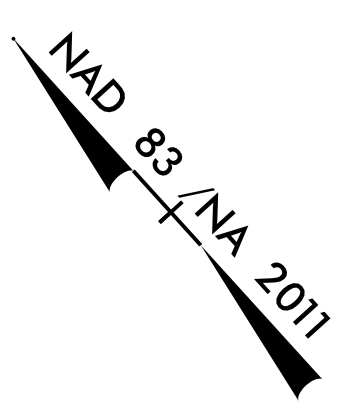
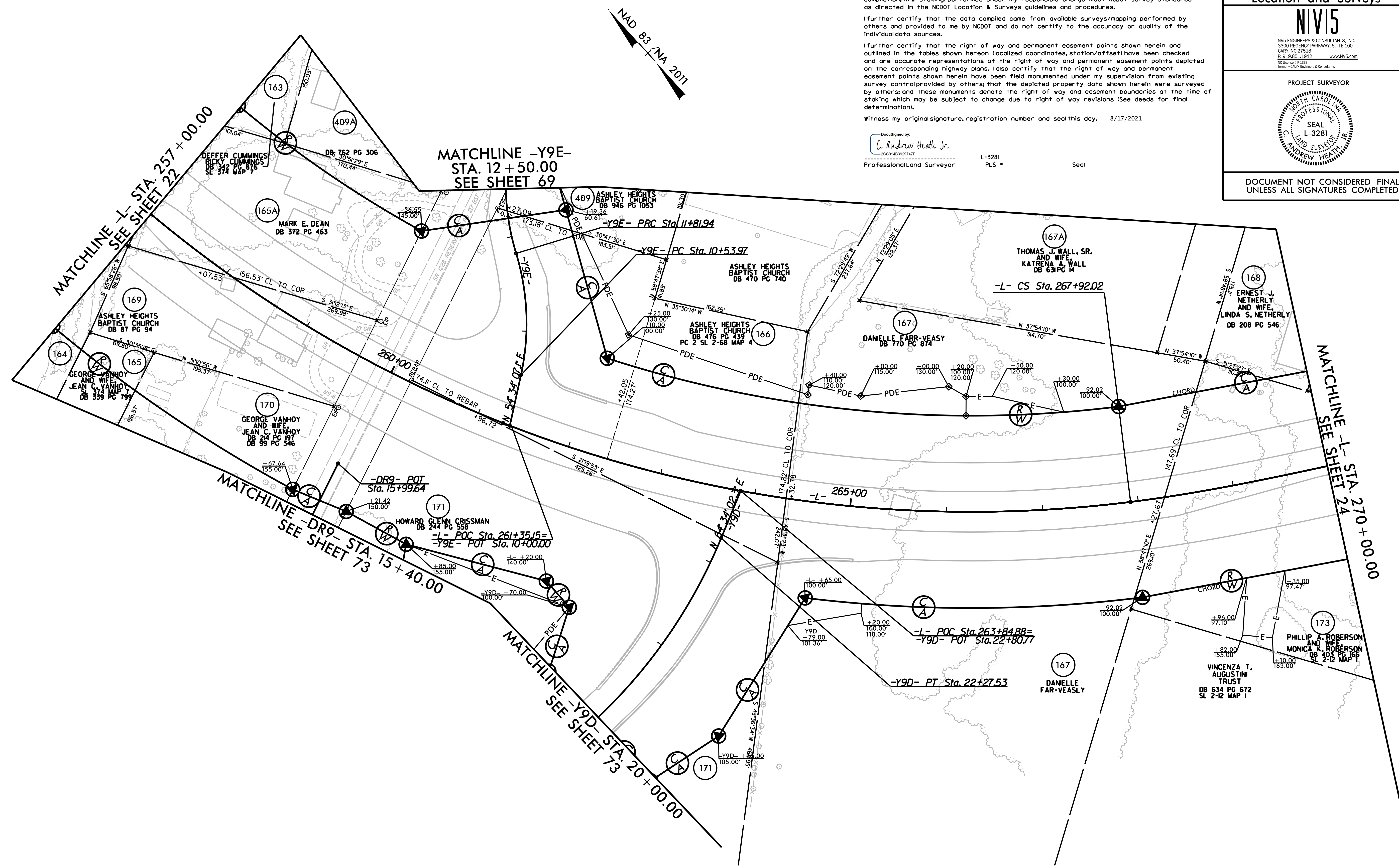
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6/2/2019

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REVISIONS



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Witness my original signature, registration number and seal this day, 8/17/2021

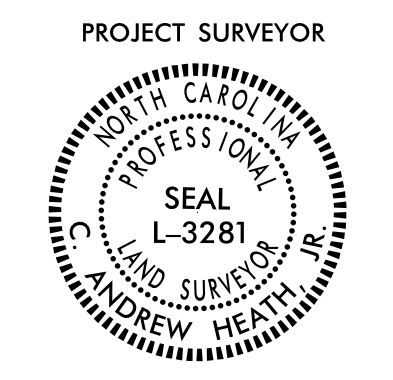
Declassified by:  
C. Andrew Heath Jr.  
20201483929747F  
Professional Land Surveyor L-3281 PLS \* Seal

PROJECT REFERENCE NO. R-5709	SHEET NO. RW23
<b>Location and Surveys</b>	
<b>NIVIS</b>	
<small>NVIS ENGINEERS &amp; CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 PH: 919.851.1912 www.NVIS.com NC License # 1333 Formerly CIVIL ENGINEERS &amp; CONSULTANTS</small>	
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 FROM APRIL 2021 TO SEPTEMBER 2021.



Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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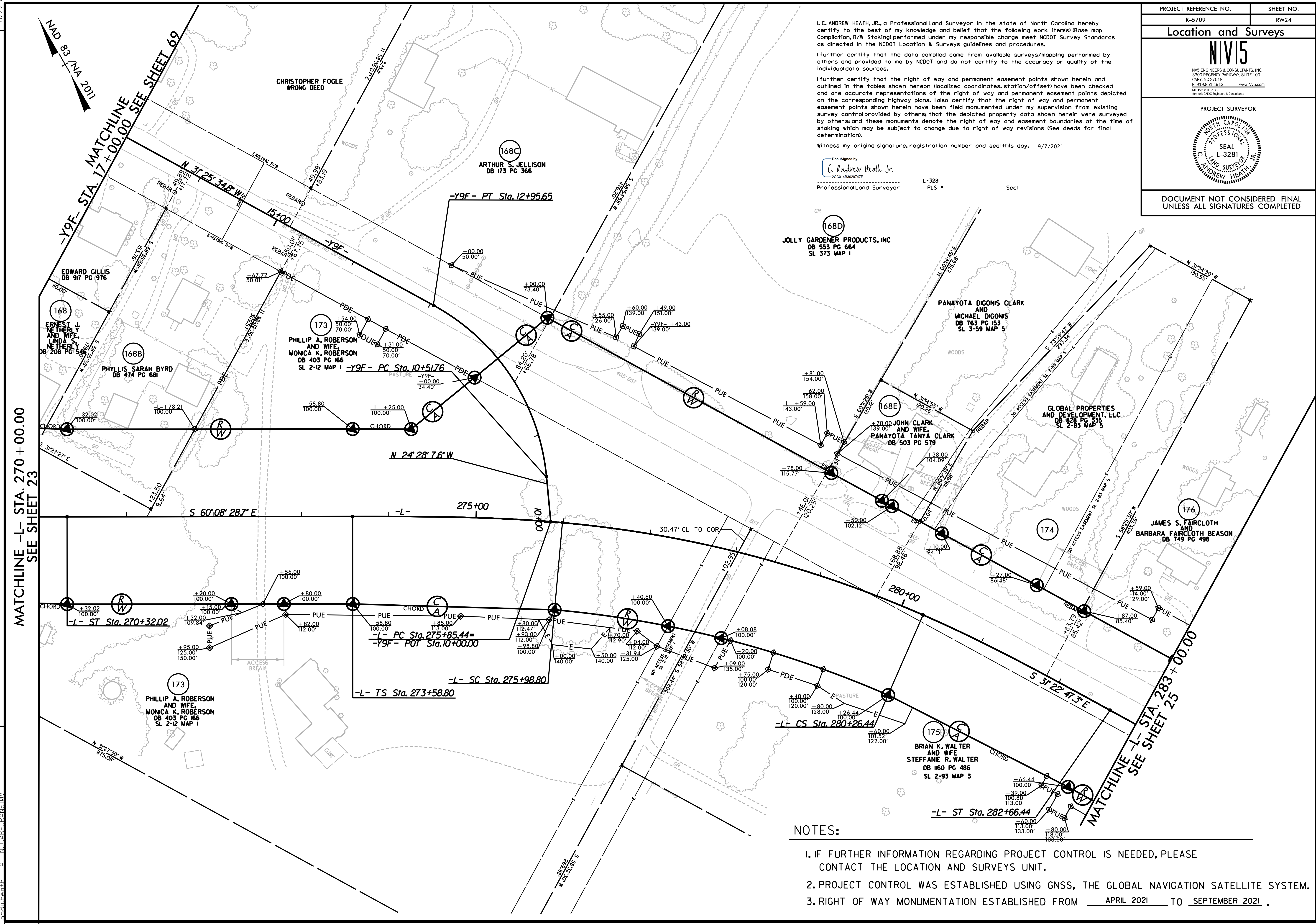
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Witness my original signature, registration number and seal this day, 9/7/2021.

DocuSigned by:  
C. Andrew Heath, Jr.  
20001489929747E  
Professional Land Surveyor

L-3281  
PLS \* Seal



- 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 FROM APRIL 2021 TO SEPTEMBER 2021.

REVISIONS  
97/2021 - REVISED PER DIVISION L&S COMMENTS

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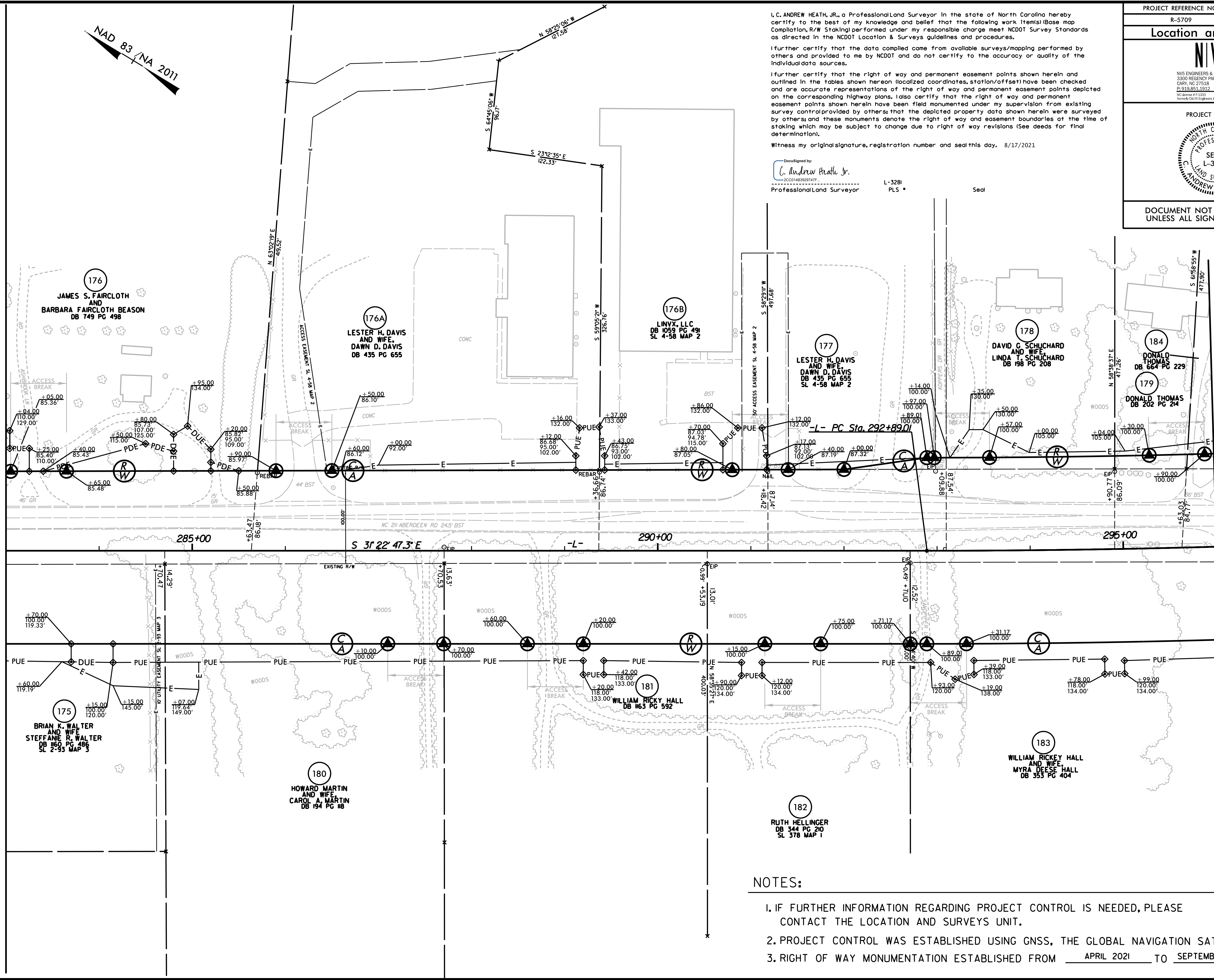
6/2/19

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6/2/19

REVISIONS

MATCHLINE -L- STA. 283 + 00.00  
SEE SHEET 24

MATCHLINE -L- STA. 296 + 00.00  
SEE SHEET 26



NAD 83 / NA 2011

I, C. ANDREW HEATH, JR., 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.

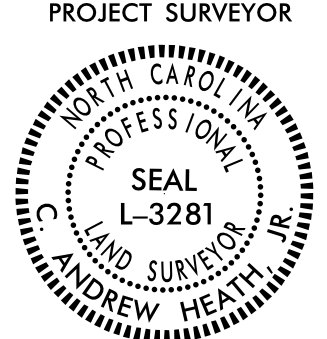
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Witness my original signature, registration number and seal this day, 8/17/2021

Designed by:  
C. Andrew Heath Jr.  
20001483029747F  
Professional Land Surveyor

L-3281  
PLS  
Seal

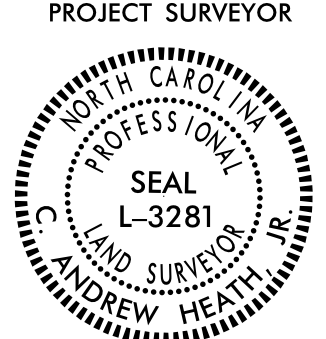
PROJECT REFERENCE NO. R-5709	SHEET NO. RW25
<b>Location and Surveys</b>	
<b>NIVIS</b>	
<small>NVIS ENGINEERS &amp; CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CHAR, NC 27218 P: 919.851.1912 www.NVIS.com NC License # F 1333 Member NCEM Engineers &amp; Consultants</small>	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NOTES:

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- RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.



6/2/2019

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW26
<b>Location and Surveys</b>	
<b>NIVIS</b>	
<small>NVIS ENGINEERS &amp; CONSULTANTS, INC.          3300 REGENCY PARKWAY, SUITE 100          CARR, NC 27518          P: 919.851.1912 www.NVIS.com          NC License # F-5333          Licensed Civil Engineers &amp; Surveyors</small>	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, C. ANDREW HEATH, JR., 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.

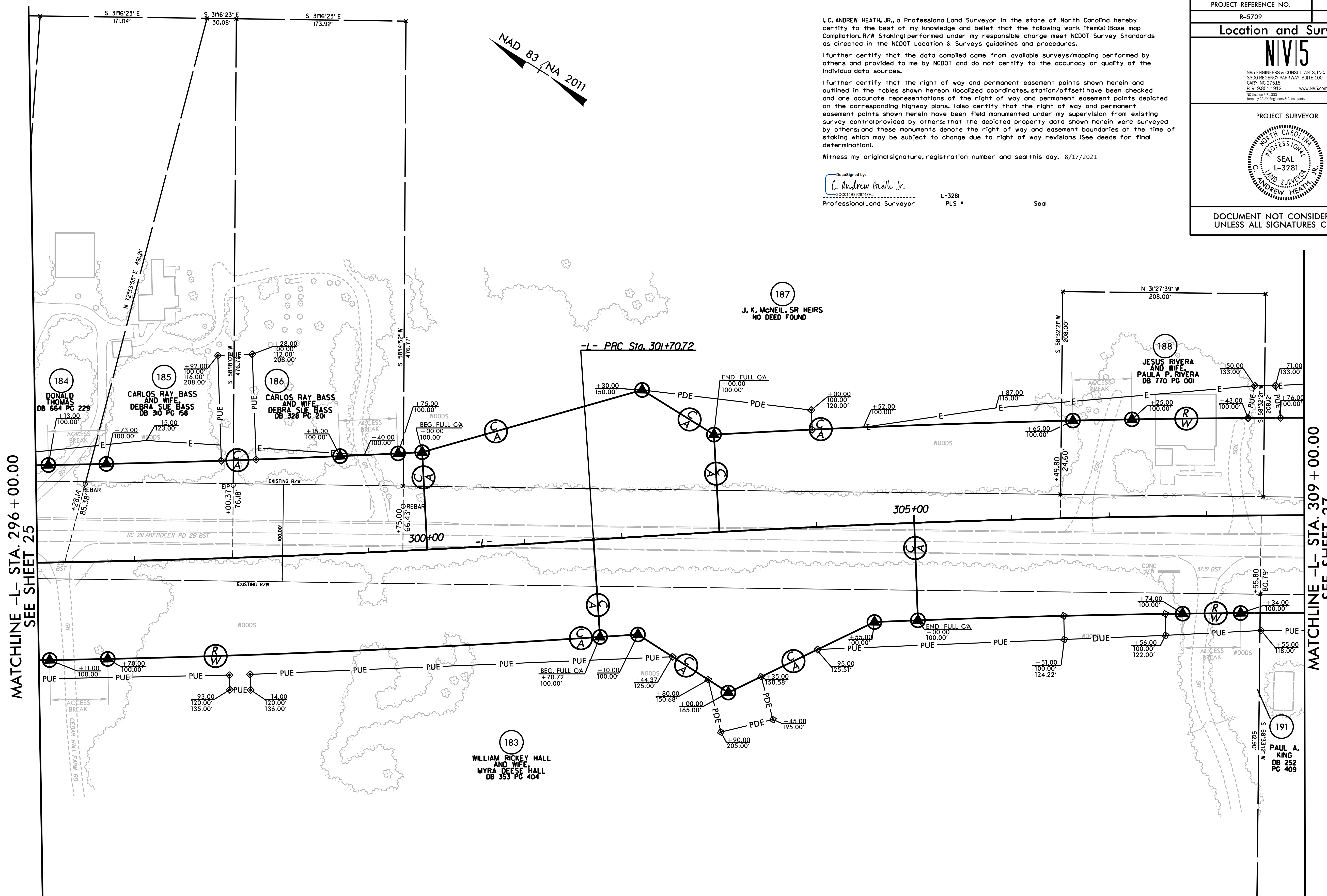
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Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
*C. Andrew Heath Jr.*  
 Professional Land Surveyor L-3281 PLS Seal

NAD 83 / NA 2011



REVISIONS

MATCHLINE -L- STA. 296 + 00.00  
SEE SHEET 25

MATCHLINE -L- STA. 309 + 00.00  
SEE SHEET 27

**NOTES:**

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- RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021 .


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 andheath



6/2/2019

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NAD 83 / NA 2011

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW27
<b>Location and Surveys</b>	
<b>NIVIS</b>	
<small>NVIS ENGINEERS &amp; CONSULTANTS, INC.          3300 REGENCY PARKWAY, SUITE 100          CARY, NC 27518          P: 919.851.1912 www.NVIS.com          NC License # F-1533          General Civil Engineers &amp; Consultants</small>	
PROJECT SURVEYOR	
	
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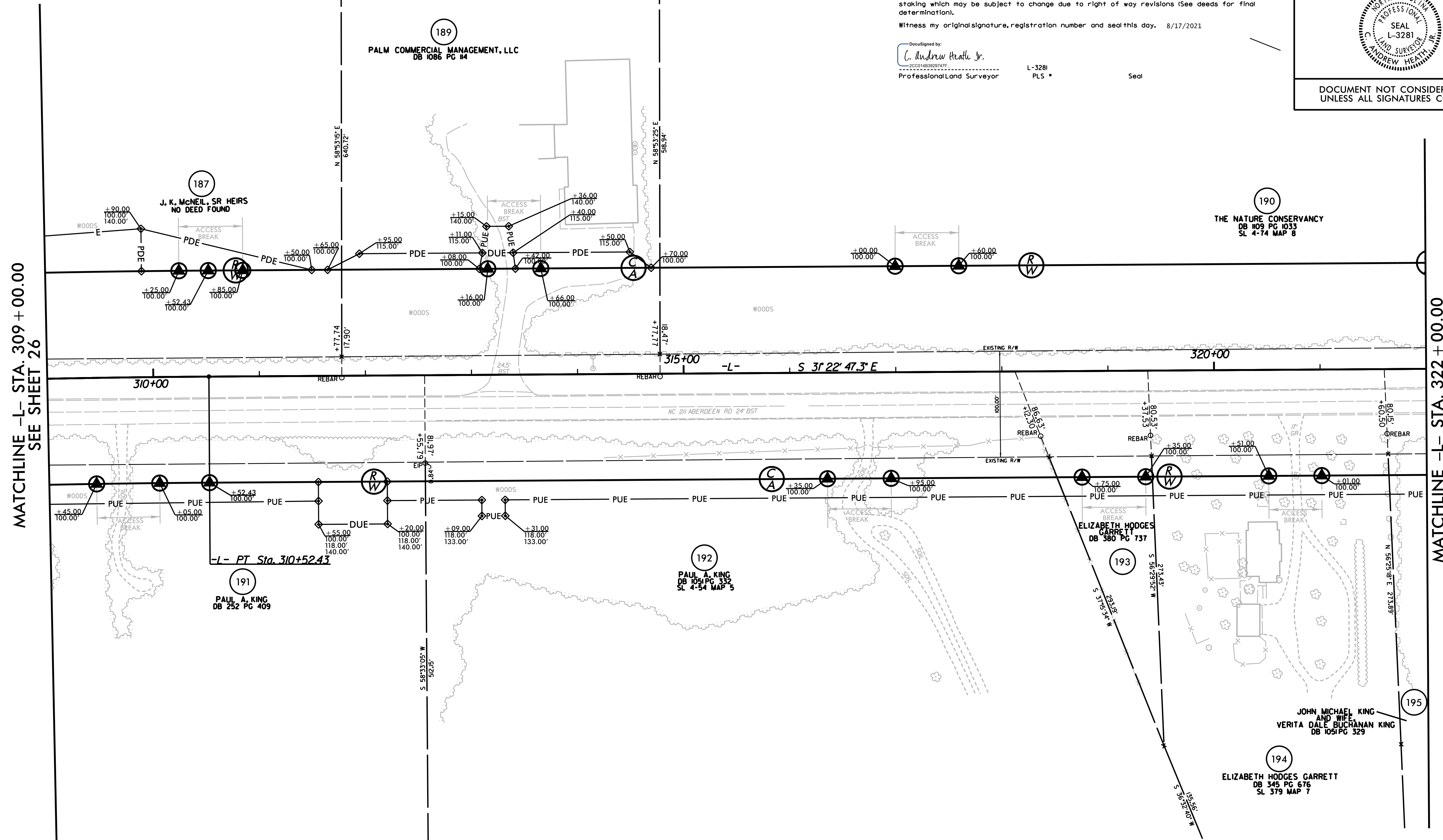
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DocuSigned by:  
*C. Andrew Heath Jr.*  
 L-3281  
 Professional Land Surveyor PLS Seal



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REVISIONS



**Location and Surveys**



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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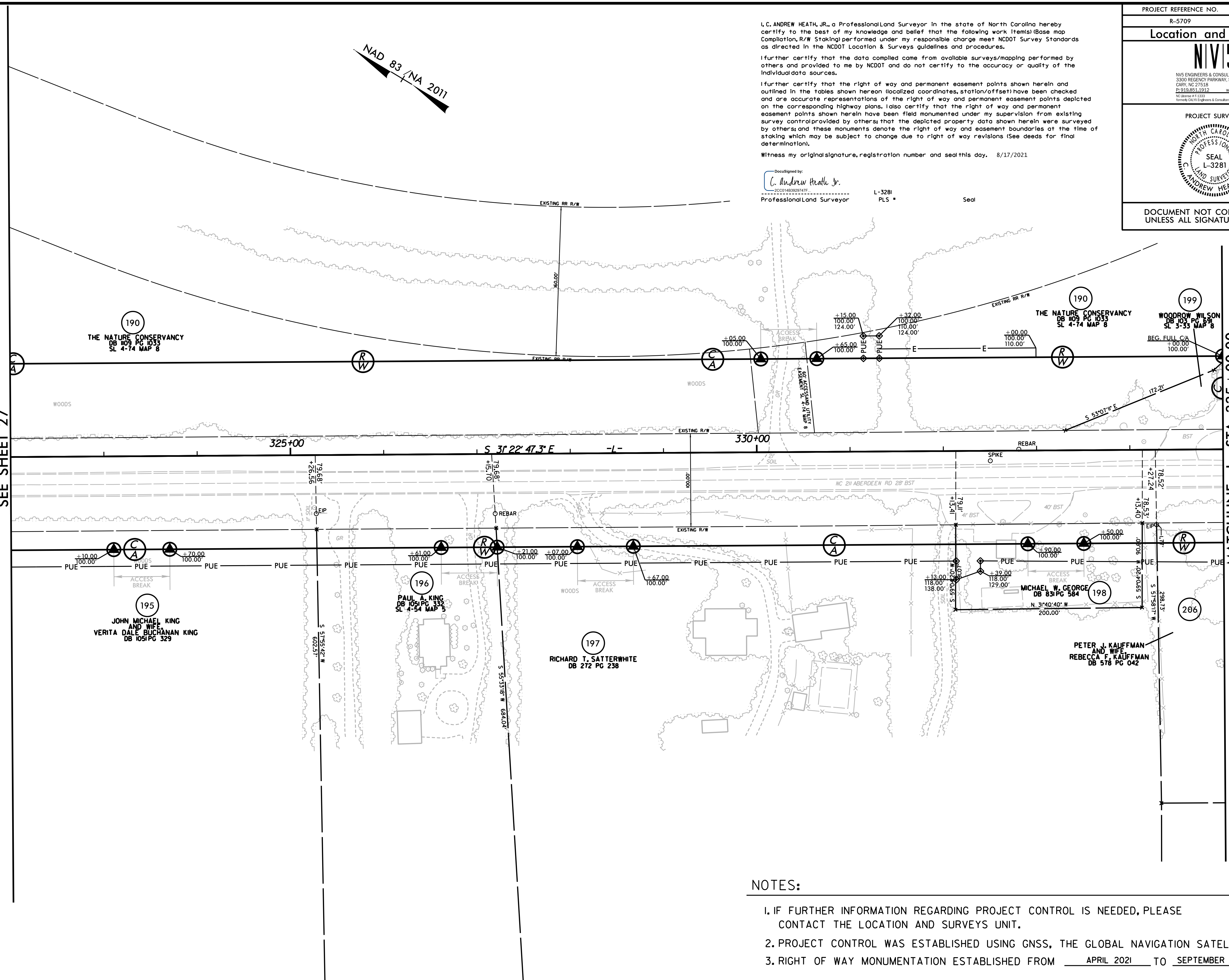
Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
*C. Andrew Heath Jr.*  
Professional Land Surveyor L-3281 PLS Seal

NAD 83 / NA 2011

MATCHLINE -L- STA. 322 + 00.00  
SEE SHEET 27

MATCHLINE -L- STA. 335 + 00.00  
SEE SHEET 29



**NOTES:**

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- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.

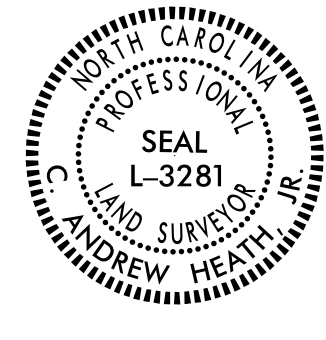
REVISIONS

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 8/17/2021 10:41



6/2/19

PROJECT SURVEYOR



NAD 83 (NA 2011)

I, C. ANDREW HEATH, JR., 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.

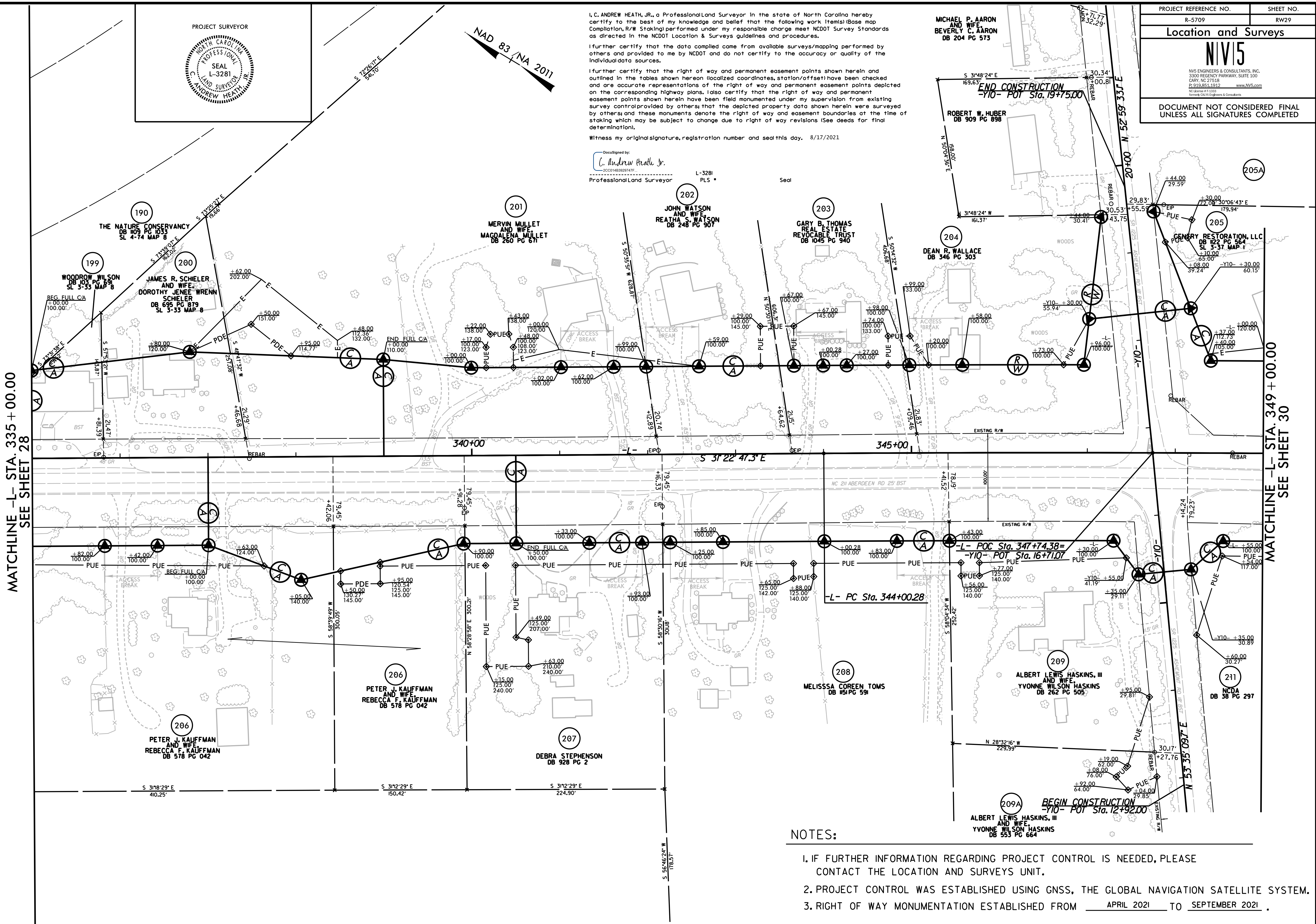
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (local 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 day, 8/17/2021

DocuSigned by:  
*C. Andrew Heath Jr.*  
 L-3281  
 Professional Land Surveyor

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW29
<b>Location and Surveys</b>	
<b>NIVIS</b>	
<small>NVIS ENGINEERS &amp; CONSULTANTS, INC.        3300 REGENCY PARKWAY, SUITE 100        CARY, NC 27518        P: 919.851.1312        www.nvis.com</small>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

MATCHLINE -L- STA. 335+00.00  
SEE SHEET 28

MATCHLINE -L- STA. 349+00.00  
SEE SHEET 30

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 FROM APRIL 2021 TO SEPTEMBER 2021.

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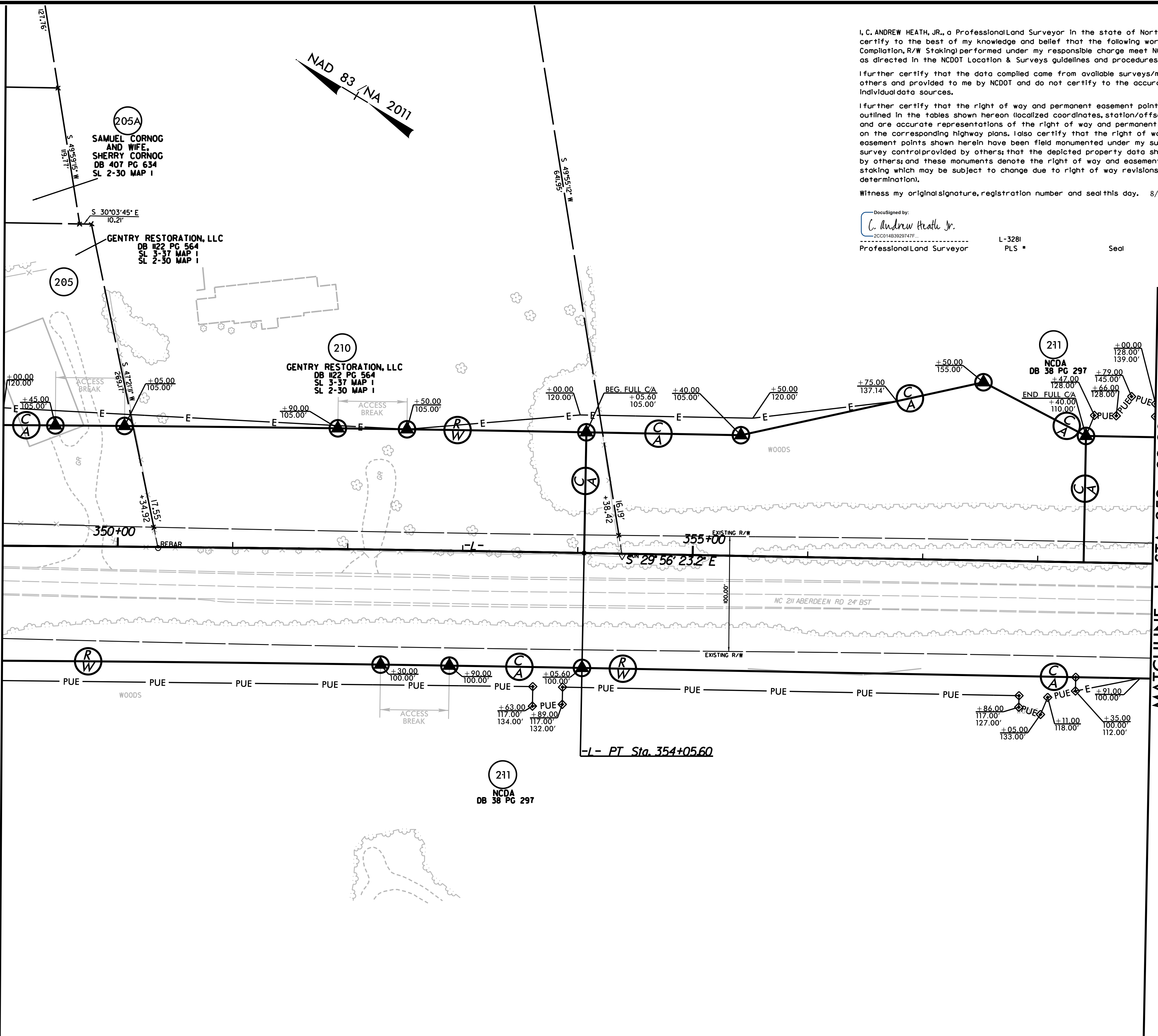
6/2/2019

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andrewh

REVISIONS

MATCHLINE -L- STA. 349 + 00.00  
SEE SHEET 29

MATCHLINE -L- STA. 359 + 00.00  
SEE SHEET 31



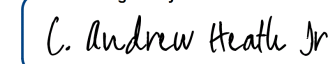
NAD 83 / NA 2011


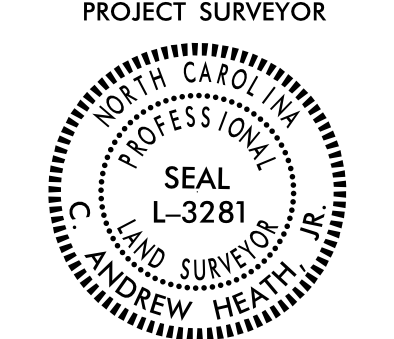
I, C. ANDREW HEATH, JR., a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (Base map Completion, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location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

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I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon, localized coordinates, station/offsets 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 day, 8/17/2021

DocuSigned by:  
  
 C. Andrew Heath Jr.  
 L-3281  
 Professional Land Surveyor PLS \* Seal

PROJECT REFERENCE NO. R-5709	SHEET NO. RW30
<b>Location and Surveys</b>	
 <b>NIVIS</b> <small>NVIS ENGINEERS &amp; CONSULTANTS, INC.        3300 REGENCY PARKWAY, SUITE 100        CARY, NC 27513        P: 919.851.1912 www.NVIS.com        NC License # 1332        Member NCEM Engineers &amp; Consultants</small>	
PROJECT SURVEYOR  SEAL L-3281 ANDREW HEATH JR.	
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 FROM APRIL 2021 TO SEPTEMBER 2021 .



6/2/19

17-AUG-2021 11:50  
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andrewh

REVISIONS

NAD 83 / NA 2011

I, C. ANDREW HEATH, JR., 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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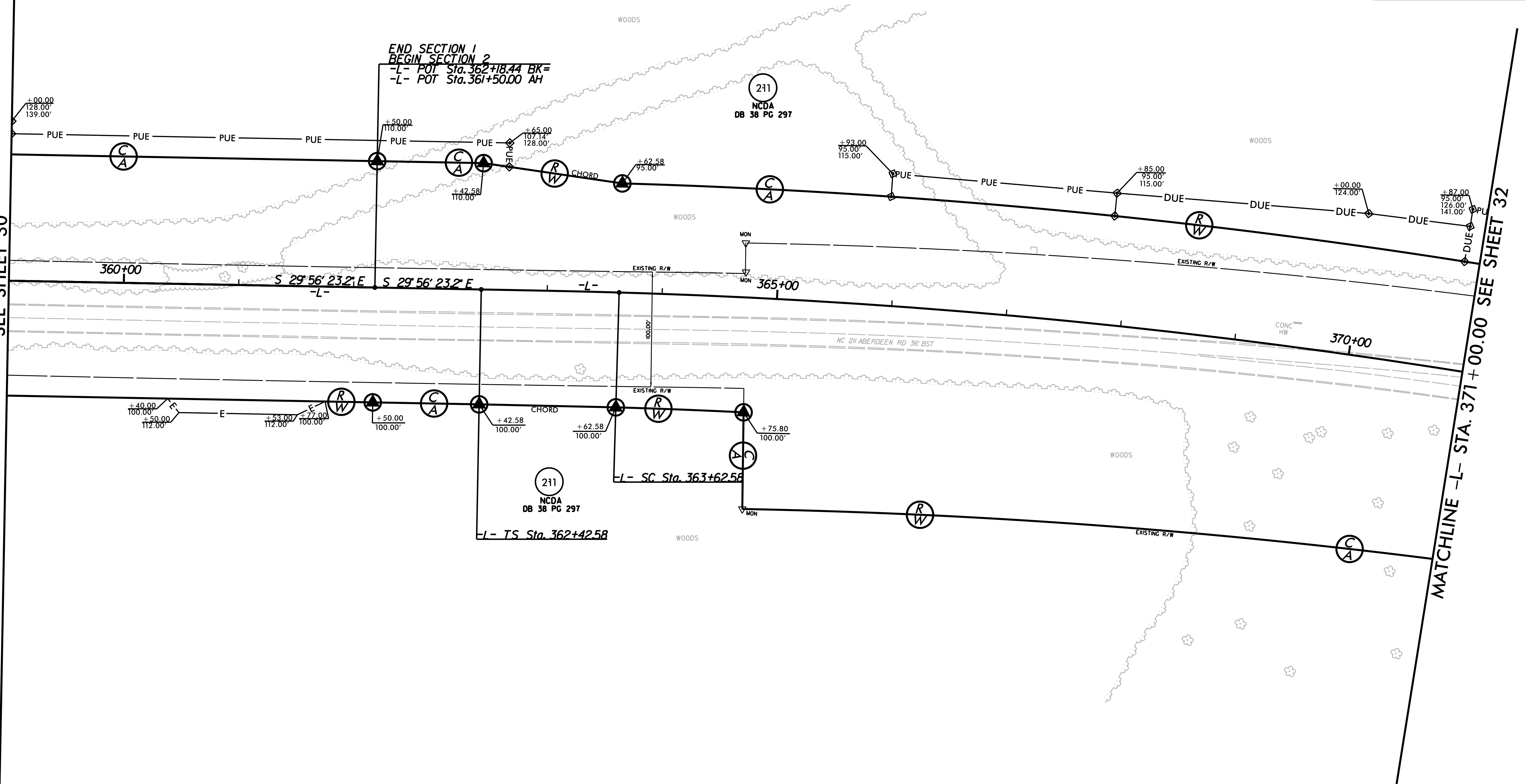
Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
C. Andrew Heath Jr.  
20201483829747F  
Professional Land Surveyor L-3281 PLS # Seal

PROJECT REFERENCE NO. R-5709	SHEET NO. RW31
<b>Location and Surveys</b>	
<b>NIVIS</b>	
<small>NVIS ENGINEERS &amp; CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27519 P: 919.851.1912 www.NVIS.com NC License # 1333 Member NCEM Engineers &amp; Consultants</small>	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -L- STA. 359 + 00.00  
SEE SHEET 30

MATCHLINE -L- STA. 371 + 00.00 SEE SHEET 32



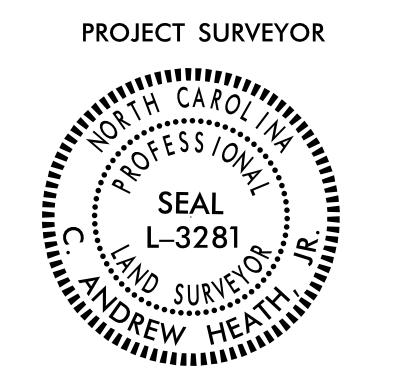
NOTES:

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- RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021 .



6/2/2019

Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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 Completion, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

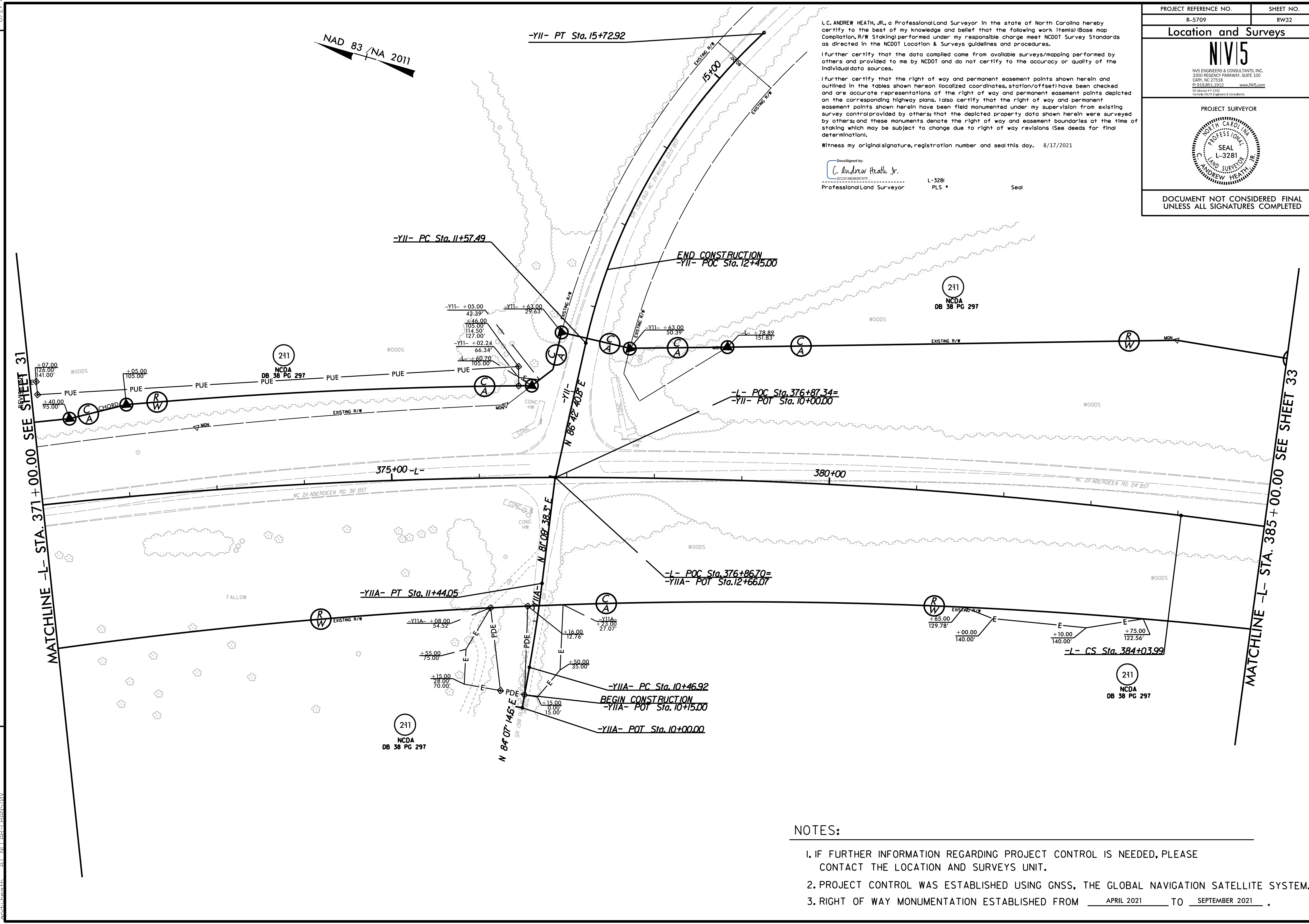
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Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
 C. Andrew Heath Jr.  
 202011819292747F  
 Professional Land Surveyor L-3281  
 PLS Seal

NAD 83 / NA 2011



MATCHLINE -L- STA. 371+00.00 SEE SHEET 31

MATCHLINE -L- STA. 385+00.00 SEE SHEET 33

REVISIONS

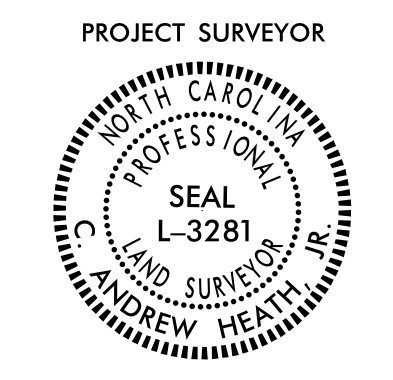
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 andheath

NOTES:

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- RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.



**Location and Surveys**



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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.

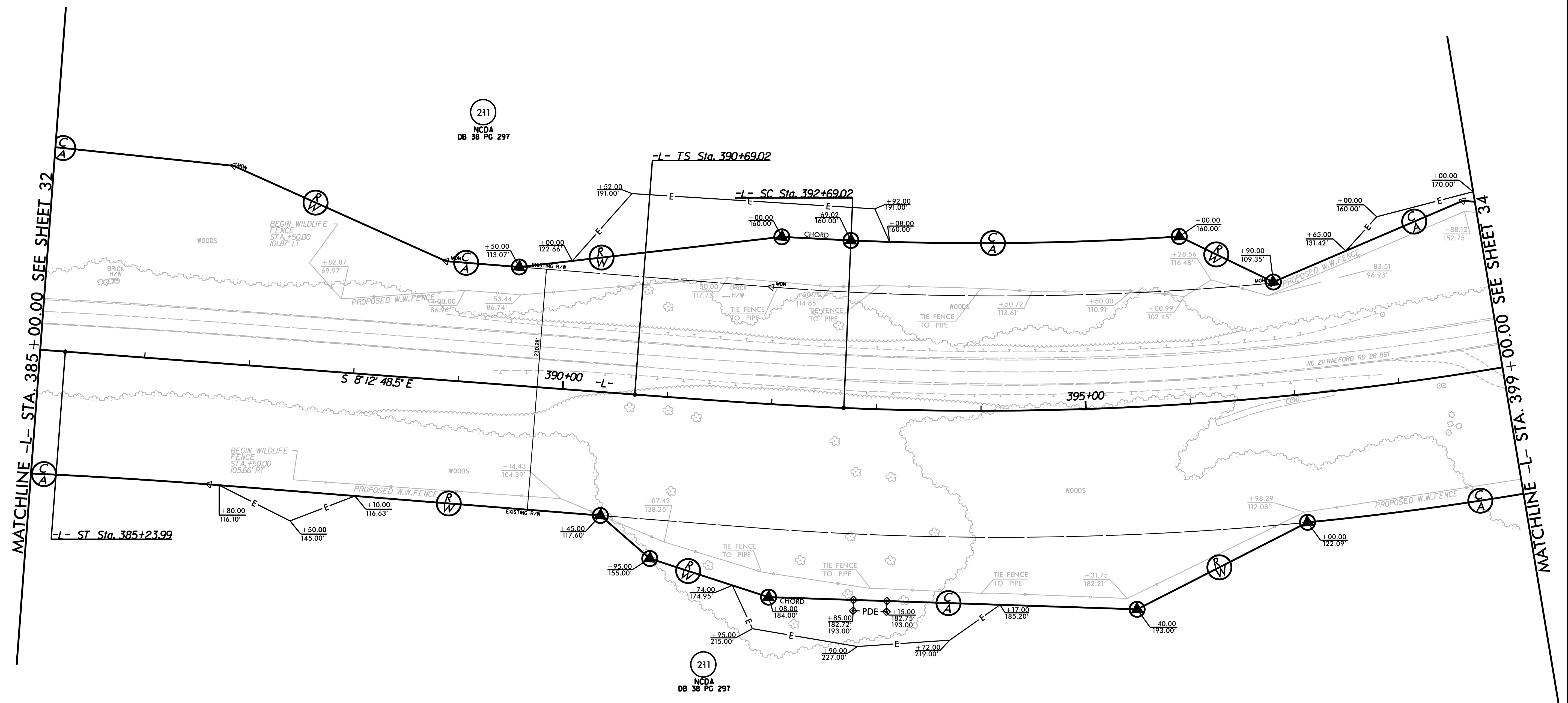
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Witness my original signature, registration number and seal this day, 8/17/2021

Designed by: *C. Andrew Heath Jr.*  
Professional Land Surveyor L-3281  
PLS Seal

NAD 83 / NA 2011



**NOTES:**

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- RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

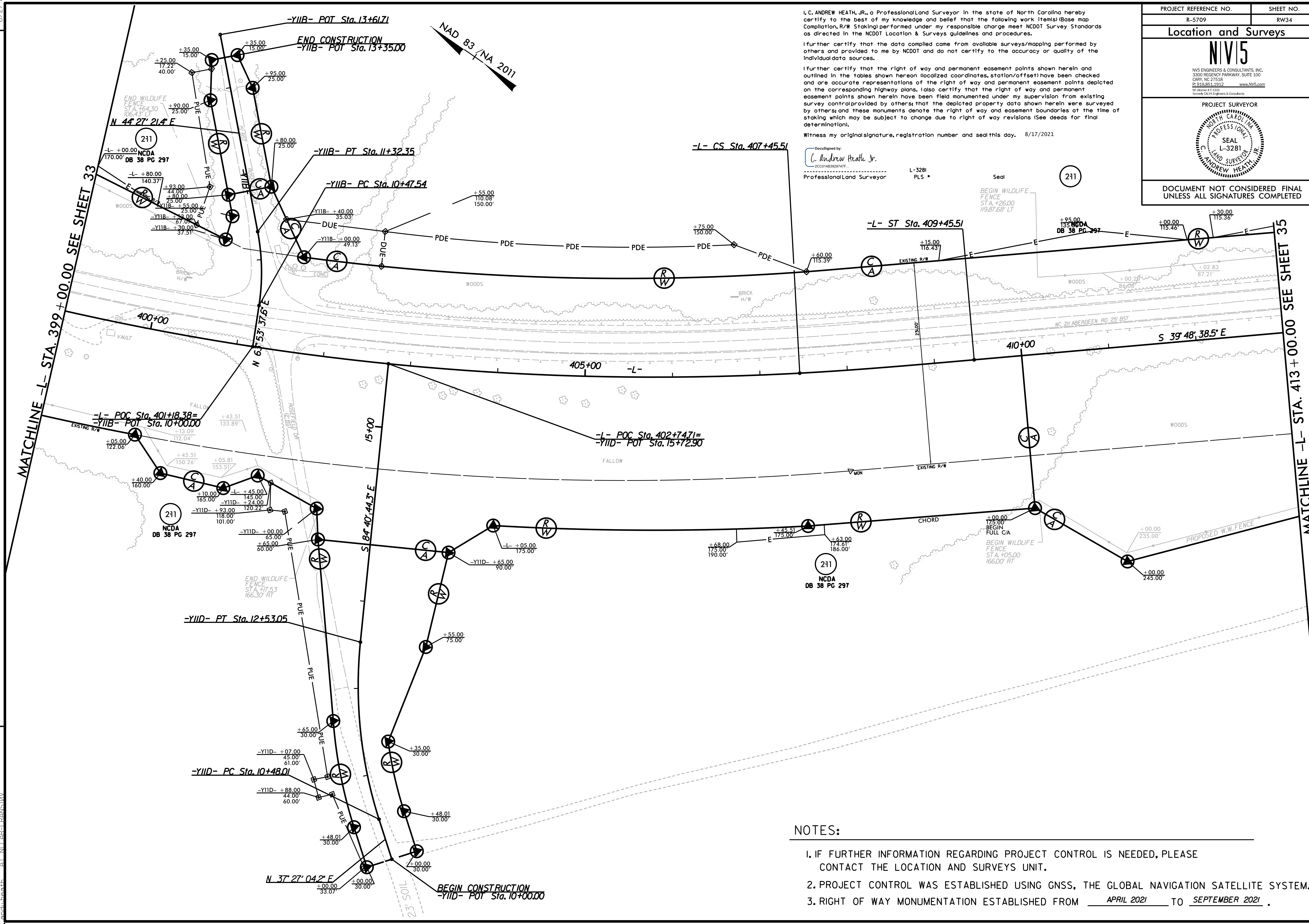
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 andheath  
 8/17/2021 9:49



6/2/19

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andrew.heath

REVISIONS



I, C. ANDREW HEATH, JR., 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 day, 8/17/2021

Delegated by:  
*C. Andrew Heath Jr.*  
 2000148300741F  
 Professional Land Surveyor L-3281 PLS

PROJECT REFERENCE NO. R-5709	SHEET NO. RW34
<b>Location and Surveys</b>	
 NIVIS ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.nivis.com NC License # F 1533 Member NCEM Engineers & Consultants	
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 FROM APRIL 2021 TO SEPTEMBER 2021.



6/2/2019

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andrew.heath

REVISIONS

MATCHLINE -L- STA. 413 + 00.00 SEE SHEET 34

MATCHLINE -L- STA. 427 + 00.00 SEE SHEET 36

NAD 83 / NA 2011

I, C. ANDREW HEATH, JR., 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.

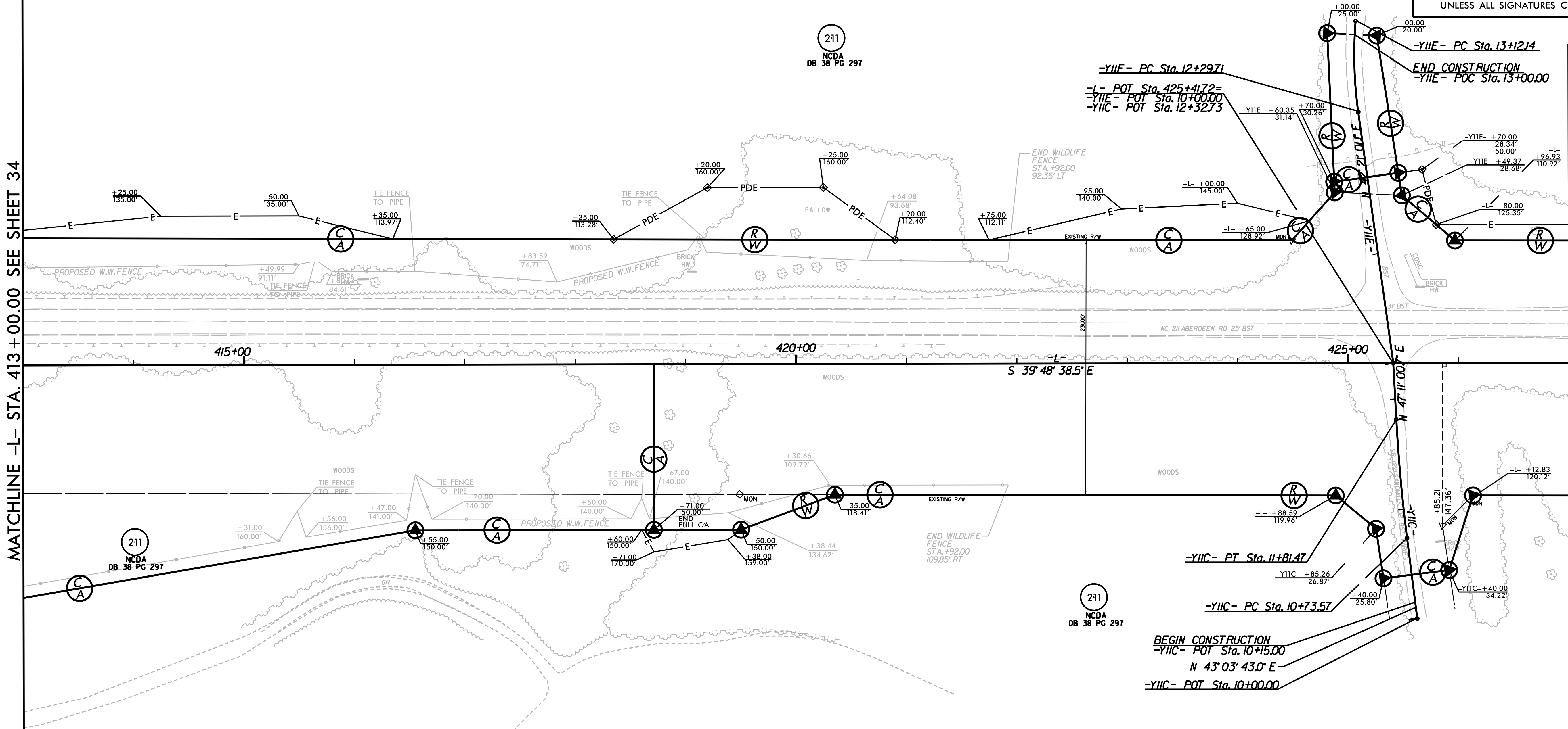
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Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
C. Andrew Heath Jr.  
20001483929747  
Professional Land Surveyor L-3281 PLS \* Seal

PROJECT REFERENCE NO. R-5709	SHEET NO. RW35
<b>Location and Surveys</b>	
<b>NIVIS</b>	
<small>NIVS ENGINEERS &amp; CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.NIVS.com NC License # F 1393 Formerly CIVIL ENGINEERS &amp; CONSULTANTS</small>	
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 FROM APRIL 2021 TO SEPTEMBER 2021 .



6/2/19

I, C. ANDREW HEATH, JR., 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 Completion, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.


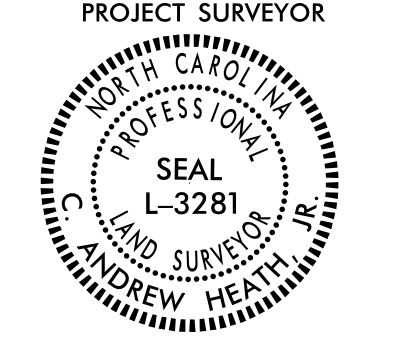
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Witness my original signature, registration number and seal this day, 8/17/2021

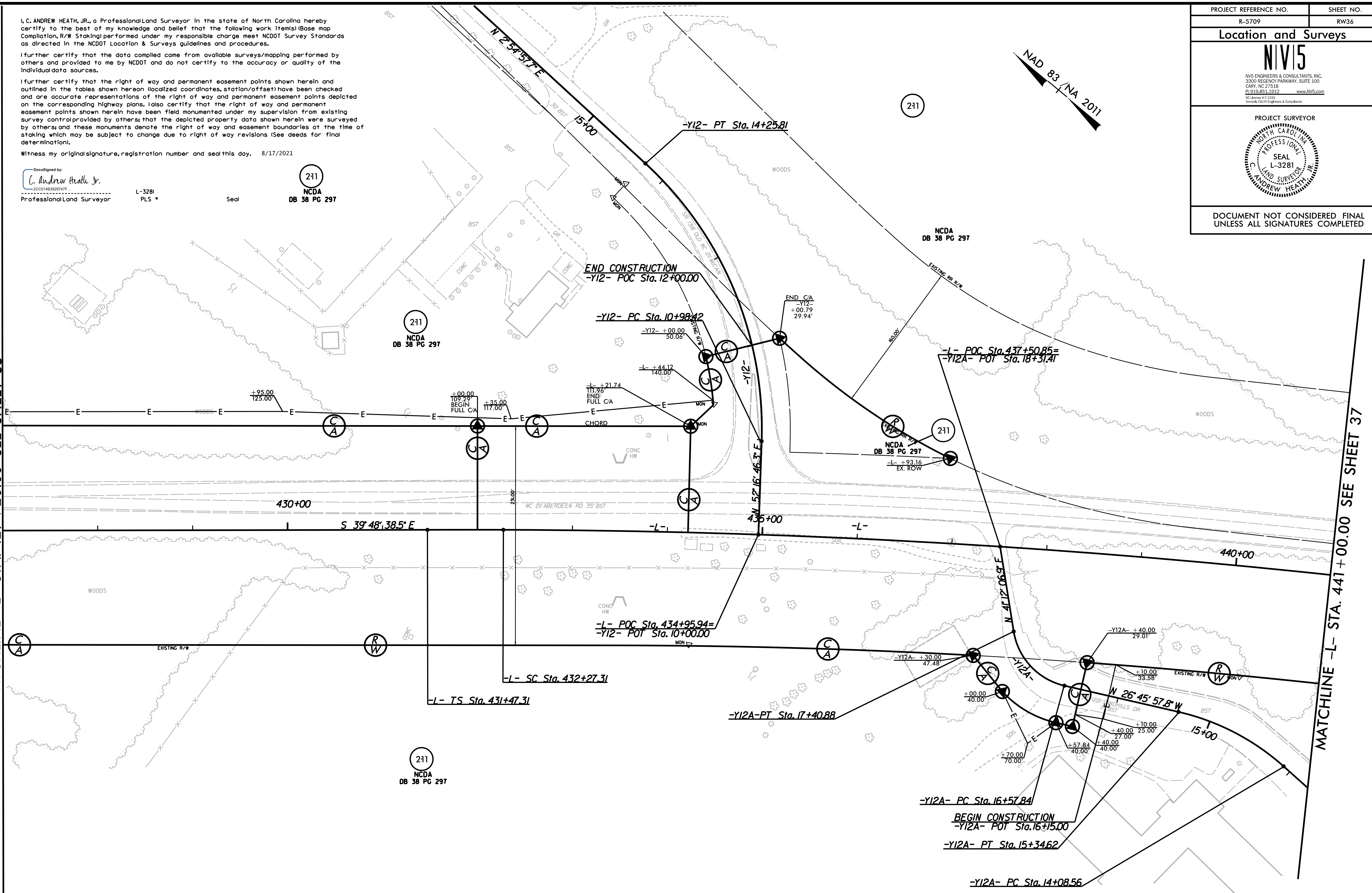
DocuSigned by:  
**C. Andrew Heath Jr.**  
 L-3281 PLS \*  
 Professional Land Surveyor Seal

211  
 NCDA  
 DB 38 PG 297

PROJECT REFERENCE NO. R-5709	SHEET NO. RW36
<b>Location and Surveys</b>	
 NIVIS <small>NIVIS ENGINEERS &amp; CONSULTANTS, INC.          3300 REGENCY PARKWAY, SUITE 100          CARY, NC 27518          P: 919.851.1912 www.NIVIS.com          NC License # F 1533          Member NCEES Engineers &amp; Consultants</small>	
PROJECT SURVEYOR  SEAL L-3281 C. ANDREW HEATH JR. LAND SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -L- STA. 427 + 20.00 SEE SHEET 35

MATCHLINE -L- STA. 441 + 00.00 SEE SHEET 37



NOTES:

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- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021 .

REVISIONS

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6/2/19

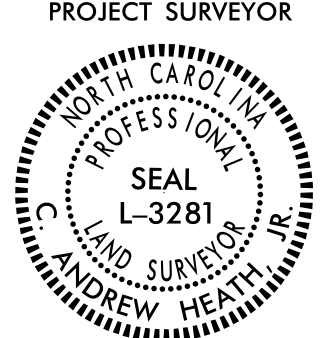
I, C. ANDREW HEATH, JR., a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (Base map Completion, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location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

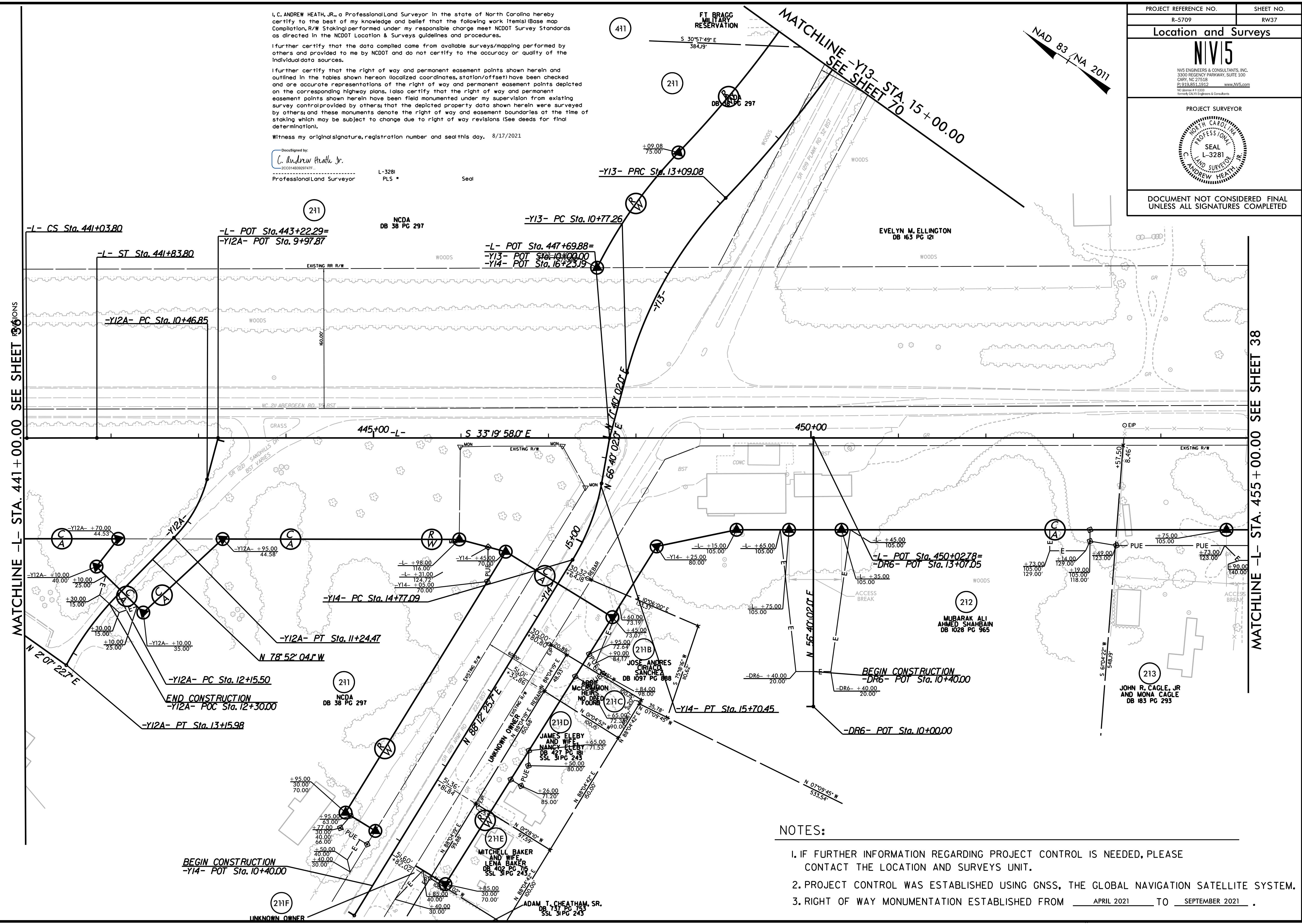
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Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
**C. Andrew Heath Jr.**  
 20001483929747E  
 Professional Land Surveyor L-3281 PLS Seal

PROJECT REFERENCE NO. R-5709	SHEET NO. RW37
<b>Location and Surveys</b>	
<b>NIVIS</b>	
<small>NIVIS ENGINEERS &amp; CONSULTANTS, INC.        3300 REGENCY PARKWAY, SUITE 100        CARY, NC 27518        P: 919.851.1912 www.nivis.com        NC License # F-1533        Kenneth P. Kelly, Engineer &amp; Geospatial</small>	
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 FROM APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

MATCHLINE -L- STA. 441+00.00 SEE SHEET 36

MATCHLINE -L- STA. 455+00.00 SEE SHEET 38

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 andrewh



6/2/2019

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REVISIONS

MATCHLINE -L- STA. 455 + 00.00 SEE SHEET 37

MATCHLINE -L- STA. 469 + 00.00 SEE SHEET 39

NAD 83 (NA 2011)

I, C. ANDREW HEATH, JR., 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 Completion, 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.

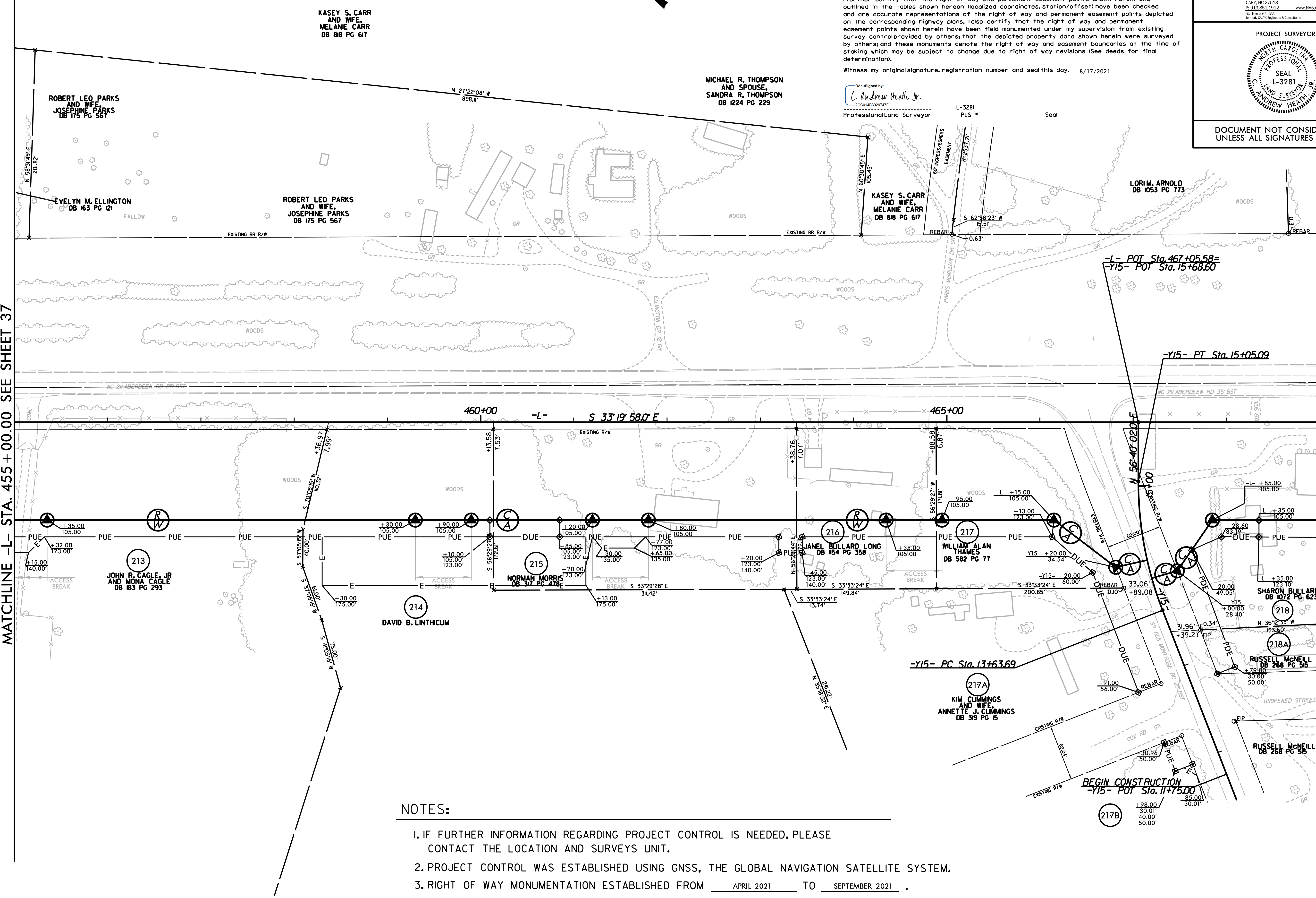
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway 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 and 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 day, 8/17/2021

DocuSigned by:  
C. Andrew Heath Jr.  
20001483929747E  
Professional Land Surveyor

L-3281  
PLS \* Seal

PROJECT REFERENCE NO. R-5709	SHEET NO. RW38
<b>Location and Surveys</b>	
<b>NIVIS</b>	
<small>NIVIS ENGINEERS &amp; CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 300 CARY, NC 27518 P: 919.851.1912 www.nivis.com NC License # 1333 Member: IACQS Engineers &amp; Consultants</small>	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

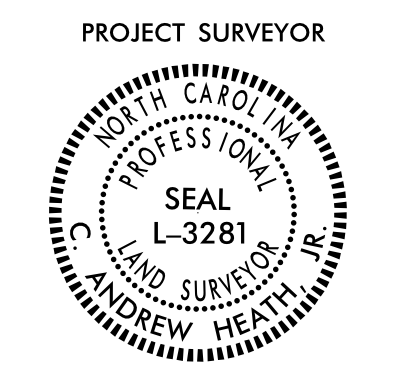


NOTES:

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 FROM APRIL 2021 TO SEPTEMBER 2021 .



Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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 Completion, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

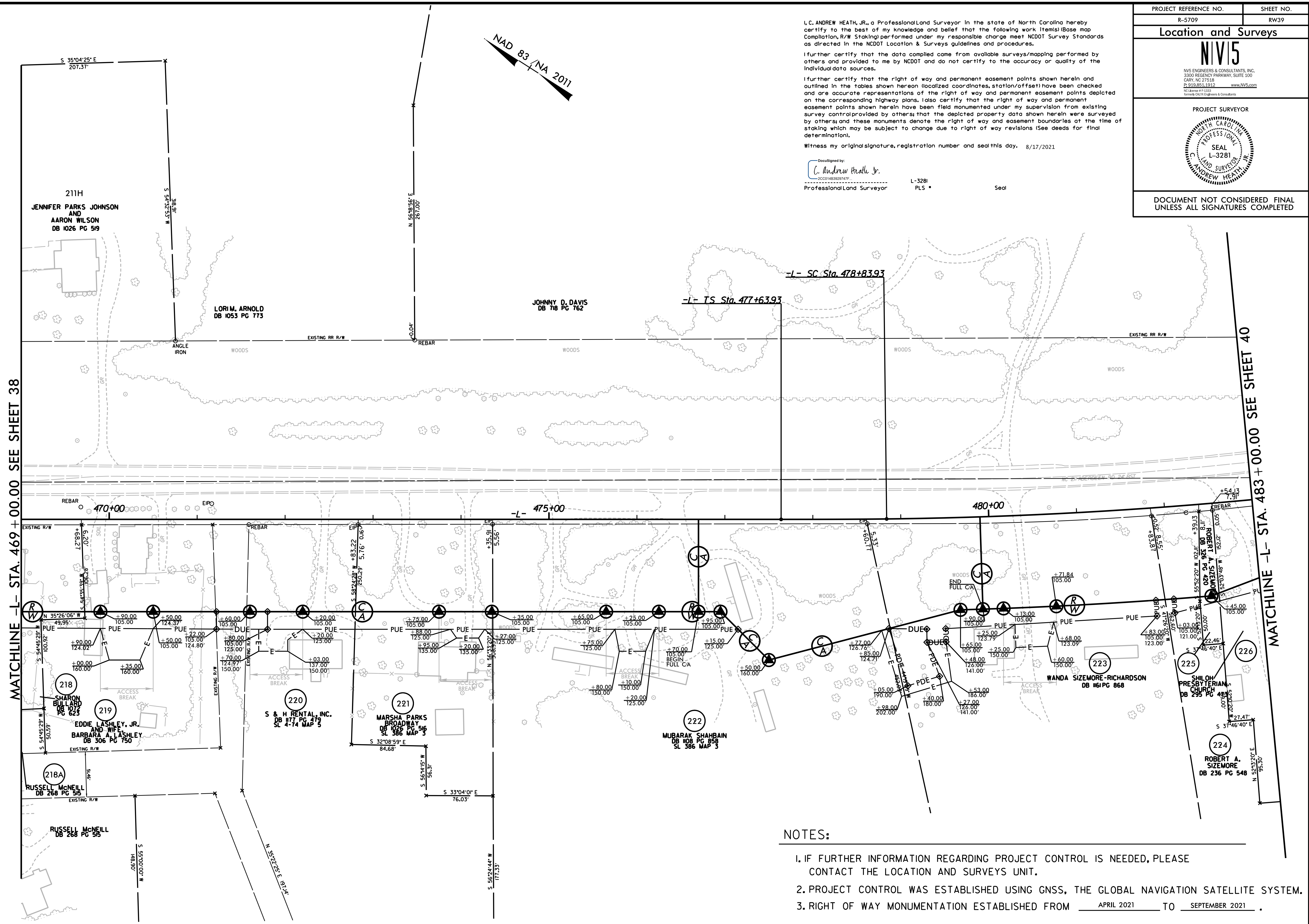
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

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 day, 8/17/2021.

DocuSigned by:  
*C. Andrew Heath Jr.*  
 20001483029747F  
 Professional Land Surveyor L-3281 PLS \* Seal

NAD 83 / NA 2011



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 FROM APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

MATCHLINE -L- STA. 469 + 00.00 SEE SHEET 38

MATCHLINE -L- STA. 483 + 00.00 SEE SHEET 40

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