

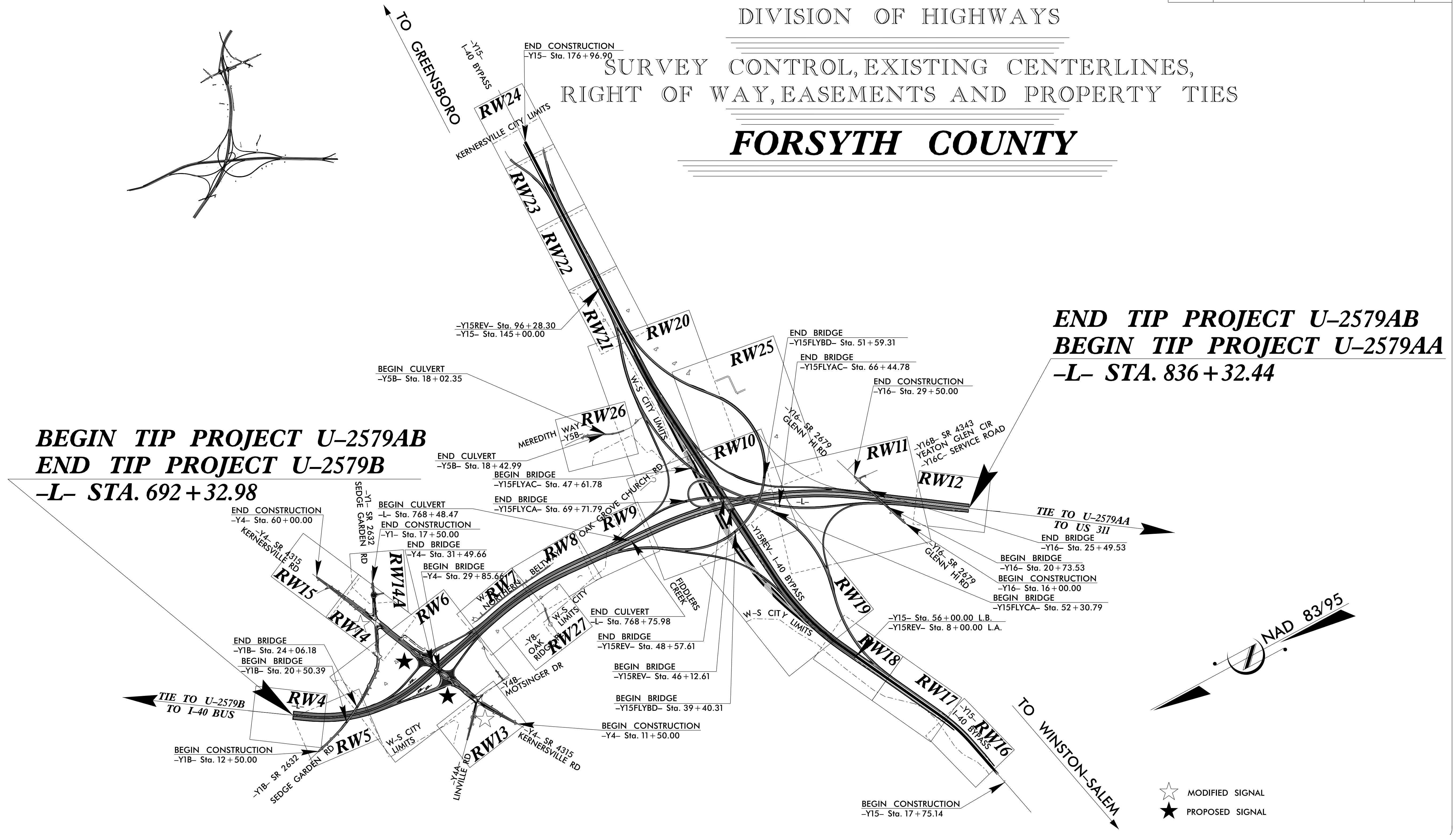
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2579AB	RW01	XX

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

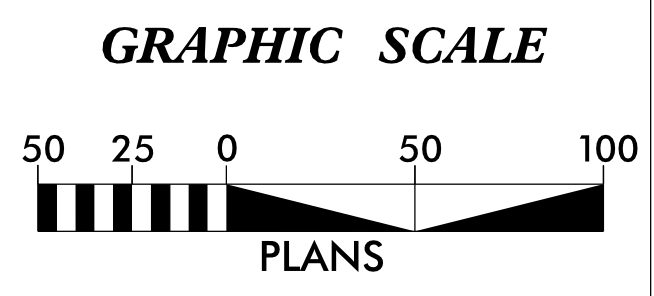
FORSYTH COUNTY

TIP PROJECT: U-2579AB



BEGIN TIP PROJECT U-2579AB
END TIP PROJECT U-2579B
-L- STA. 692 + 32.98

END TIP PROJECT U-2579AB
BEGIN TIP PROJECT U-2579AA
-L- STA. 836 + 32.44



DATUM DESCRIPTION
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U2579C-1" WITH NAD 83/95 STATE PLANE GRID COORDINATES OF
NORTHING: 876,419.285(ft) EASTING: 1,651,591.602(ft)
ELEVATION: 976.94(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99995453
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U2579C-1" TO -L- STATION 692+32.98 IS
S 33°42'50" E 22907.962(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

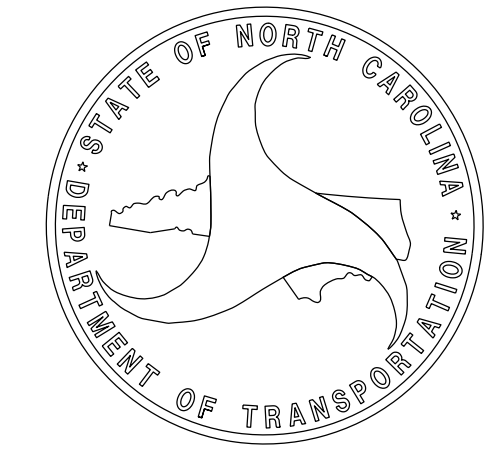
Prepared in the Office of:

2018 STANDARD SPECIFICATIONS
RIGHT OF WAY DATE:
XXXX/XXXX
LETTING DATE:
XXXX/XXXX

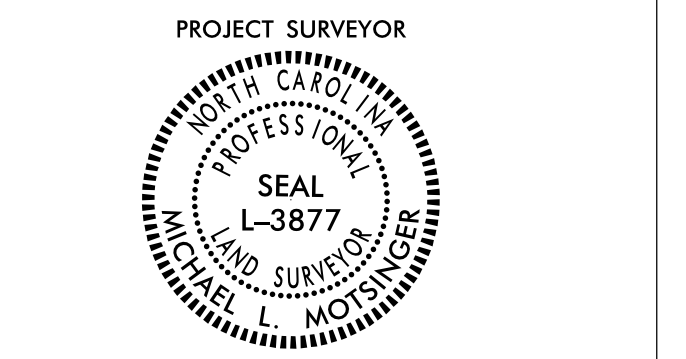
PROFESSIONAL LAND SURVEYOR

DocuSigned by:
Michael L. Motsinger
F0B8F8E70E23C40E
SIGNATURE:

5/12/2021
Date:



09/08/19
\$\$\$\$\$ SYSTEM \$\$\$\$\$\$
\$\$\$\$\$ DGN \$\$\$\$\$\$
\$\$\$\$\$ USERNAME \$\$\$\$\$\$



SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

I, Michael L. Molsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

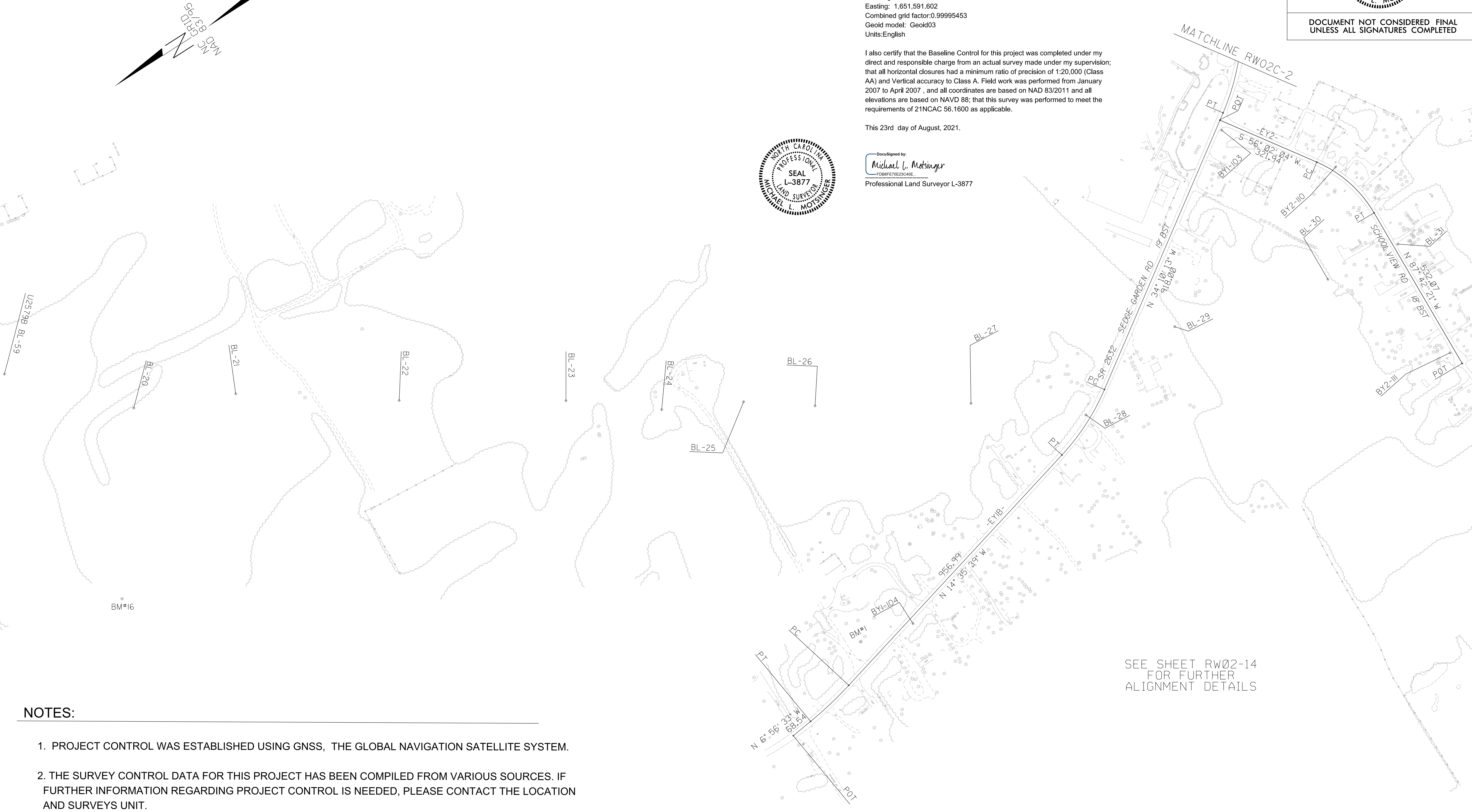
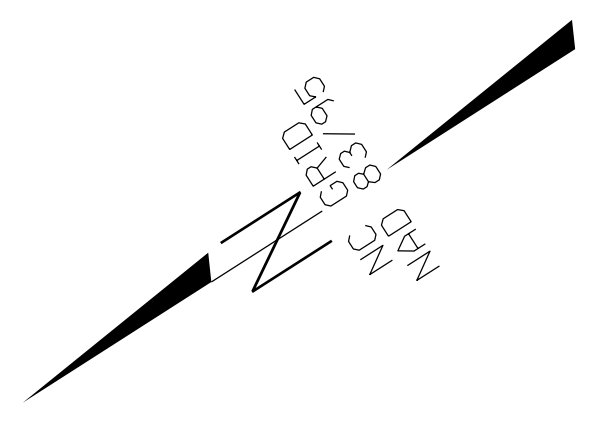
Class of survey: **AA**
 Type of GPS field procedure: Static
 Dates of survey: April 2007
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use:
 Localized around: U2579C-1
 Northing: 876,419,285
 Easting: 1,651,591,602
 Combined grid factor: 0.99995453
 Geoid model: Geoid03
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from January 2007 to April 2007, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23rd day of August, 2021.



DocuSigned by:
Michael L. Molsinger
 Professional Land Surveyor L-3877



SEE SHEET RW02-14
FOR FURTHER
ALIGNMENT DETAILS


NOTES:

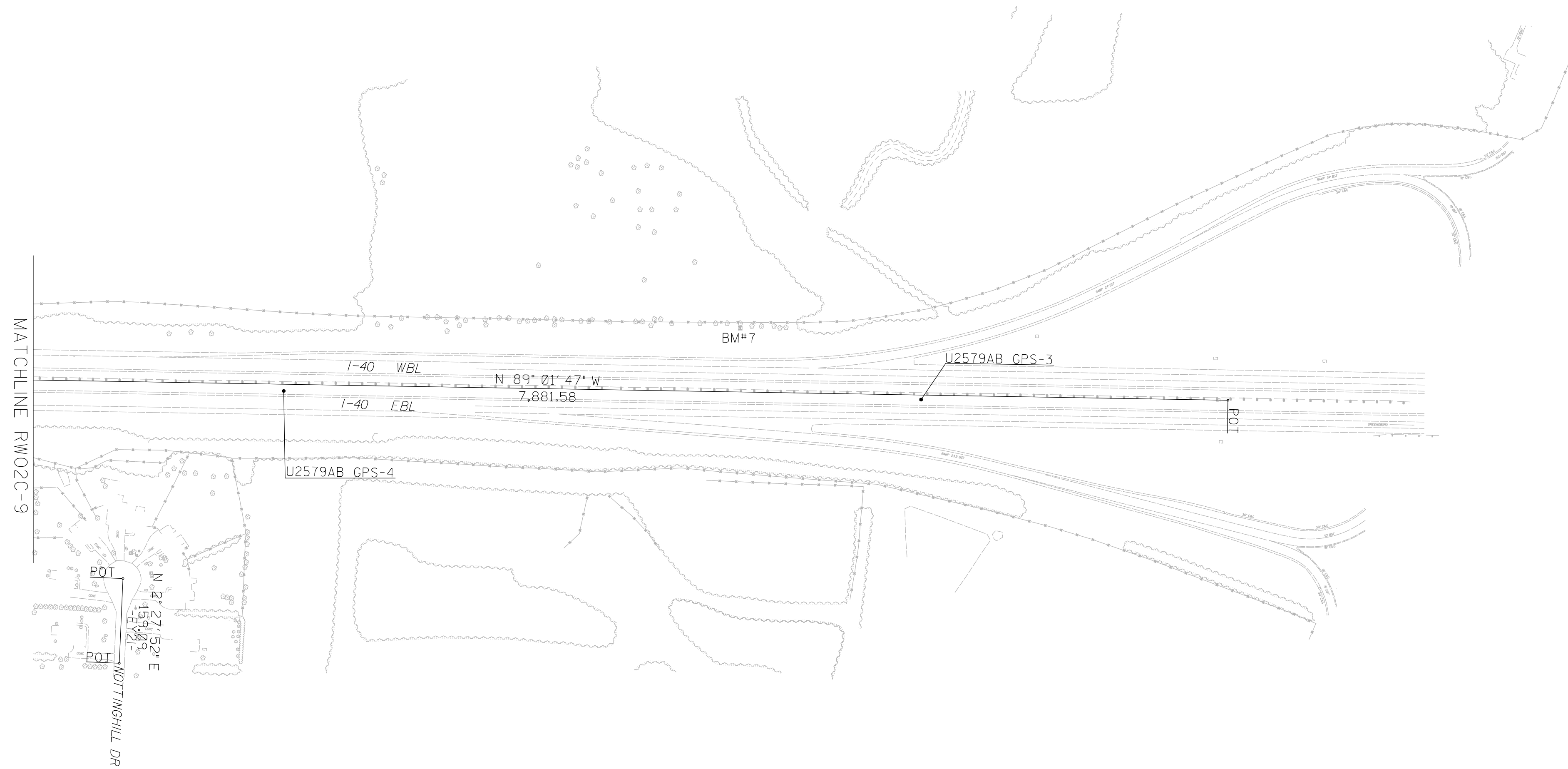
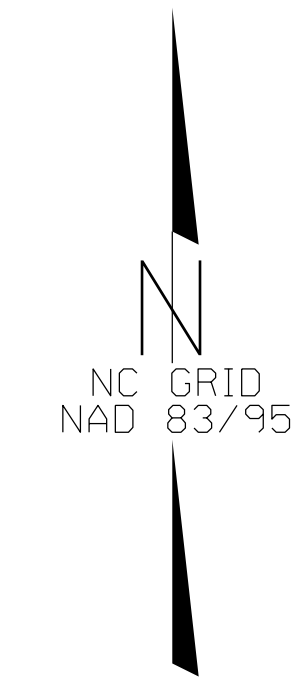
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

6/2/09
 REVISIONS
 23-AUG-2021 16:47
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 AT LS-312635
 mmolsinger

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	RW02C-10
Location and Surveys	
INSERT CONSULTANT'S NAME	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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This 23rd day of August, 2021.

DocuSigned by:

 Professional Land Surveyor L-3877




SEE SHEETS RW02C-16
 & RW02-17
 FOR FURTHER
 ALIGNMENT DETAILS

NOTES:

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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U-2579AB	SHEET NO. RW02C-12
Location and Surveys	
INSERT CONSULTANT'S NAME	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BY10 POINT	DESC.	NORTH	EAST	ELEVATION
200	BY10-200	851312.3390	1664307.9080	877.32
510		851266.4890	1664227.7966	UNKNOWN
515		851146.6300	1664018.3700	887.57

BY17 POINT	DESC.	NORTH	EAST	ELEVATION
300	BY17-300	845531.2430	1656663.6390	810.91
329		843697.7512	1656532.0519	UNKNOWN
301	BY17-301	846316.9080	1656062.8930	812.74

BY11 POINT	DESC.	NORTH	EAST	ELEVATION
518	BY11-210	851146.6960	1664552.9270	865.00
210		850902.3485	1664325.0231	882.86

BY17A POINT	DESC.	NORTH	EAST	ELEVATION
310	BY17A-310	846565.7480	1658198.8050	814.78
311	BY17A-311	846477.1440	1657559.0130	815.01
312	BY17A-312	846366.2230	1656920.7290	812.44
313	BY17A-313	846371.6780	1656411.6260	821.30
530		846316.8390	1656062.6820	812.34

BY12 POINT	DESC.	NORTH	EAST	ELEVATION
230	BY12-230	849318.9320	1664586.1720	906.81
524		849322.8547	1664140.7982	UNKNOWN
231	BY12-231	849323.5720	1664059.3600	867.64

BY18 POINT	DESC.	NORTH	EAST	ELEVATION
341	BY18-341	849180.8720	1666945.7360	866.38
340	BY18-340	848883.6720	1666972.0760	870.93

BY13 POINT	DESC.	NORTH	EAST	ELEVATION
240	BY13-240	849038.3980	1664331.1360	892.67
525		849045.0080	1664101.1900	878.20

BY18A POINT	DESC.	NORTH	EAST	ELEVATION
522		849460.2000	1667134.9550	896.81
521		849180.8720	1666945.7360	866.38

BY14 POINT	DESC.	NORTH	EAST	ELEVATION
250	BY14-250	848707.6680	1664816.8610	905.30
251	BY14-251	848667.9420	1664464.3260	886.12
252	BY14-252	848799.8430	1664133.8770	874.21
526		849045.0080	1664101.1900	878.20

BY19 POINT	DESC.	NORTH	EAST	ELEVATION
352	BY19-352	849798.2660	1666410.8230	854.04
351	BY19-351	849722.3520	1666795.5470	855.01
534		849460.2000	1667134.9551	896.81

BY15 POINT	DESC.	NORTH	EAST	ELEVATION
43	U2579AB-3	848078.0840	1671084.4780	933.37
44	U2579AB-4	848094.2320	1669988.0260	914.07
46	BY15-250	848129.9820	1669890.9350	895.65
47	BY15-251	848129.9820	1669768.2510	878.76
48	BY15-252	848172.4350	1669649.3770	888.97
49	BY15-253	848194.7390	1669530.7370	902.62
50	BY15-254	848194.2435	1669521.5551	UNKNOWN
51	U2579AB-5	848190.8710	1664352.7000	897.13
52	BY15-255	848188.3762	1663980.5221	UNKNOWN
53	U2579AB-6	848182.5130	1663105.8180	872.12
54	BY15-256	847962.1550	1661898.5200	845.53
55	BY15-257	847468.7640	1660734.3740	827.77
56	BY15-258	846869.7730	1659534.9670	820.74
57	BY15-259	846285.0490	1658363.4500	815.14
58	BY15-260	845717.4030	1656658.0820	830.17
59	BY15-261	845697.7512	1656536.0519	UNKNOWN
60	BY15-262	845580.2580	1655805.0040	837.18
61	U2579AB-7	845279.7680	1654472.8750	852.80
62	U2579AB-8			

BY20 POINT	DESC.	NORTH	EAST	ELEVATION
353	BY20-353	850205.7760	1666398.8990	876.94
355		849798.2660	1666410.8230	854.04

BY16 POINT	DESC.	NORTH	EAST	ELEVATION
9	U2579AB-9	845629.8420	1663478.9330	922.17
270	BY16-270	845508.9170	1663134.2200	920.22
527		845396.3030	1662624.1770	924.90
10	U2579AB-10	845113.5460	1661984.2100	925.34
271	BY16-271	844879.6720	1661328.9160	917.40

BY16A POINT	DESC.	NORTH	EAST	ELEVATION
528	BY16A-280	845508.9170	1663134.2200	920.11
280		844878.7170	1663083.3320	910.38

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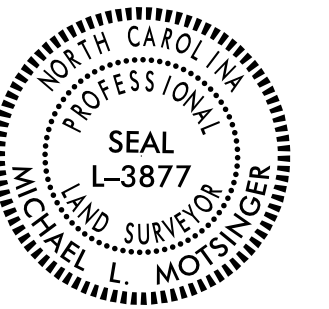
Class of survey: **AA**
 Type of GPS field procedure: Static
 Dates of survey: April 2007
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use:
 Localized around: U2579C-1
 Northing: 876,419.285
 Easting: 1,651,591.602
 Combined grid factor: 0.99995453
 Geoid model: Geoid03
 Units: English

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This 23rd day of August, 2021.

DocuSigned by:

 F0B8F7E2E2340E
 Professional Land Surveyor L-3877



NOTES:

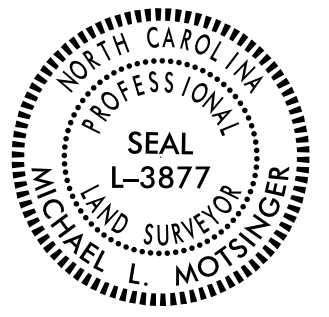
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REVISIONS

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 AT LS-312561
 Jbevington

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	RW02C-13
Location and Surveys	
INSERT CONSULTANT'S NAME	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

 BM1 ELEVATION = 949.28'
 N 857406 E 1663475
 R/R SPIKE SET IN ROOT OF 24"
 WILLOW OAK, 58' OFF OF E. EP
 OF SEDGE GARDEN RD. (BY1)
 -BY1- STA TO BM1 N 13°37'13" E 168.23'

 BM2 ELEVATION = 844.44'
 N 850797 E 1664922
 R/R SPIKE SET IN BASE OF 15"
 MAPLE, 30' OFF OF N. EP OF
 OAK GARDEN DR. (BY5A)
 BY5A-220 TO BM1 N89°02'02"E 223.19'

 BM3 ELEVATION = 925.47'
 N 845741 E 1663780
 R/R SPIKE SET IN ROOT OF 54"
 WILLOW OAK, 17' OFF OF N. EP
 OF GLEEN HI RD. (BY16)
 U2579AB-9 TO BM 3 N69°39'23"E
 320.62'

 BM4 ELEVATION = 822.82'
 N 845331 E 1656661
 R/R SPIKE SET IN BASE OF 30"
 OAK 75' OFF OF W. EP OF
 FRIEDLAND CHURCH RD.
 BY17-300 TO BM 4 S0°46'27"W
 200.14'

 BM5 ELEVATION = 962.62'
 N 855912 E 1666207
 R/R SPIKE SET IN BASE OF 16"
 MAPLE 15' FROM EASTERN EDGE
 OF PAVEMENT OF WEAVIL ROAD.
 BM BEING ACROSS FROM CONCRETE
 DRIVEWAY OF 910 WEAVIL ROAD ADDRESS.
 BY4-130 TO BM 5 N09°28'13"E
 356'

 BM6 ELEVATION = 952.82'
 N 853359 E 1661780
 CHISELED "X" ON THE TOP OF
 CURB AND GUTTER ON THE WEST
 SIDE OF CORBIN STREET AND IN
 THE RADIUS OF KERNERSVILLE ROAD
 BY4-132 TO BM 6 S50°53'37"W
 458'

 BM7 ELEVATION = 930.81'
 N 848212 E 1670745
 R/R SPIKE SET IN BASE OF 18"
 WILLOW OAK. BM BEING 60'NORTH
 OF WEST BOUND LANES OF I-40.
 ALSO BEING JUST WEST OF THE
 UNION CROSS RAMP.
 U2579AB-3 TO BM 7 N68°28'19"W
 365'

 BM8 ELEVATION = 928.89'
 N 847503 E 1669099
 CHISELED "X" IN TOP OF A 15"
 CONCRETE DRIVEWAY PIPE. 10'
 FROM WESTERN EDGE OF PAVEMENT
 OF ADAMS GATE ROAD. BEING ON
 NORTHERN SIDE OF CONCRETE DRIVE-
 WAY OF ADDRESS 520 ADAMS GATE RD.
 BY15-260 TO BM 8 S17°24'54"W
 657'

 BM9 ELEVATION = 924.54'
 N 847265 E 1666602
 CHISELED "X" IN TOP OF A 15"
 CONCRETE PIPE AT INTERSECTION OF
 ANSLEY DRIVE AND ANSLEY COURT.
 BM BEING AT THE WESTERN MOST SIDE
 OF PIPE.
 BY15-262 TO BM 9 S06°49'24.354"E
 914'

 BM10 ELEVATION = 830.80'
 N 847920 E 1660495
 R/R SPIKE SET IN BASE OF 30"
 HICKORY TREE. BM BEING 40'
 SOUTHEAST OF THE END OF CANARY
 TRAIL.
 BY15-265 TO BM 10 N27°58'14"W
 511'

 BM11 ELEVATION = 837.73'
 N 847303 E 1658642
 R/R SPIKE SET IN BASE OF 15" SWEET GUM.
 40' NORTH OF PICNIC SHELTER IN THE
 SEDGE GARDEN RECREATION CENTER PARK.
 ALSON BEING 50' EAST OF SAND VOLLEYBALL
 COURT AND BEING 170' EAST OF EASTERN
 MOST EDGE OF ROBBINS ROAD.
 BY17A-310 TO BM 11 N31°02'35"E
 860'

 BM12 ELEVATION = 955.58'
 N 855236 E 1661637
 R/R SPIKE IN BASE OF 30" WILLOW OAK.
 18' EAST OF INTERSECTION OF LINVILLE RD.
 AND LIVILLE AVE. TREE IS IN YARD OF
 611 LINVILLE ROAD.
 BY4A-140 TO BM12 N41°26'12"W 475'

 BM13 ELEVATION = 871.63'
 N 849821 E 1667332
 CHISELED "X" IN END OF 18" CONCRETE
 PIPE. 12' SOUTH OF JUBILEE TRAIL
 EDGE OF PAVEMENT. PIPE IS UNDER
 DRIVEWAY OF 1619 JUBILEE TRAIL.
 -BY19- STA 12+56 406' LEFT.

 BM14 ELEVATION = 892.99'
 N 852609 E 1664828
 R/R SPIKE SET IN BASE OF 18"
 OAK TREE. BENCH IS 520' EAST
 OF OAK GROVE CHURCH ROAD. BENCH
 IS IN BACK OF FIELD BEHIND
 ADDRESS 177 OAK GROVE CHURCH ROAD.
 -BY5- STATION 11+81 518' LEFT

 BM15 ELEVATION = 838.80'
 N 849513 E 1662531
 R/R SPIKE SET IN BASE OF
 24" OAK TREE. 160 SOUTH-
 EAST OF CUL-DE-SAC OF
 DENNY DRIVE.
 -BY15- STATION 88+07 1412' RIGHT

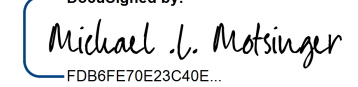
 BM16 ELEVATION = 878.72'
 N 859234 E 1664800
 R/R SPIKE SET IN BASE OF 54"
 FORKED OAK TREE. BENCH IS
 IN EDGE OF WOODS BESIDE
 CULTIVATED FIELD.
 BL-20 TO BM 16
 N53°51'17"W 582.70'

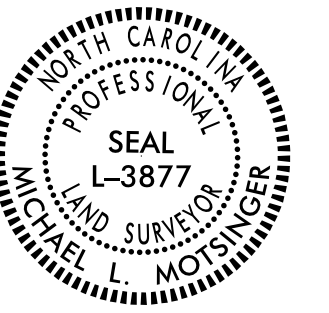
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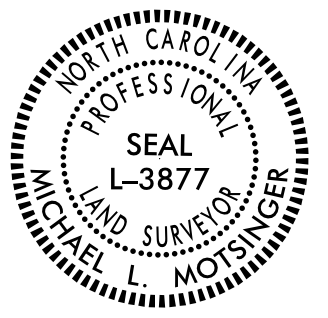
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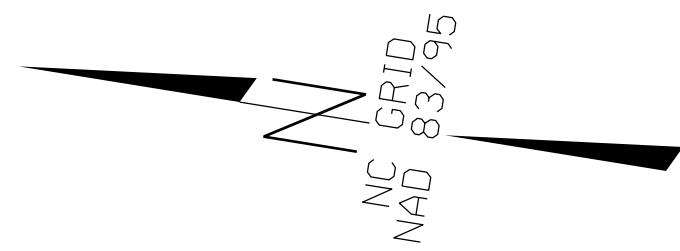
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6/2/09

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U-2579AB	SHEET NO. RW02C-2
Location and Surveys	
INSERT CONSULTANT'S NAME	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

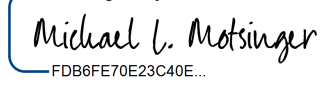


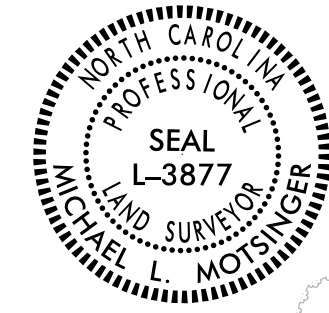
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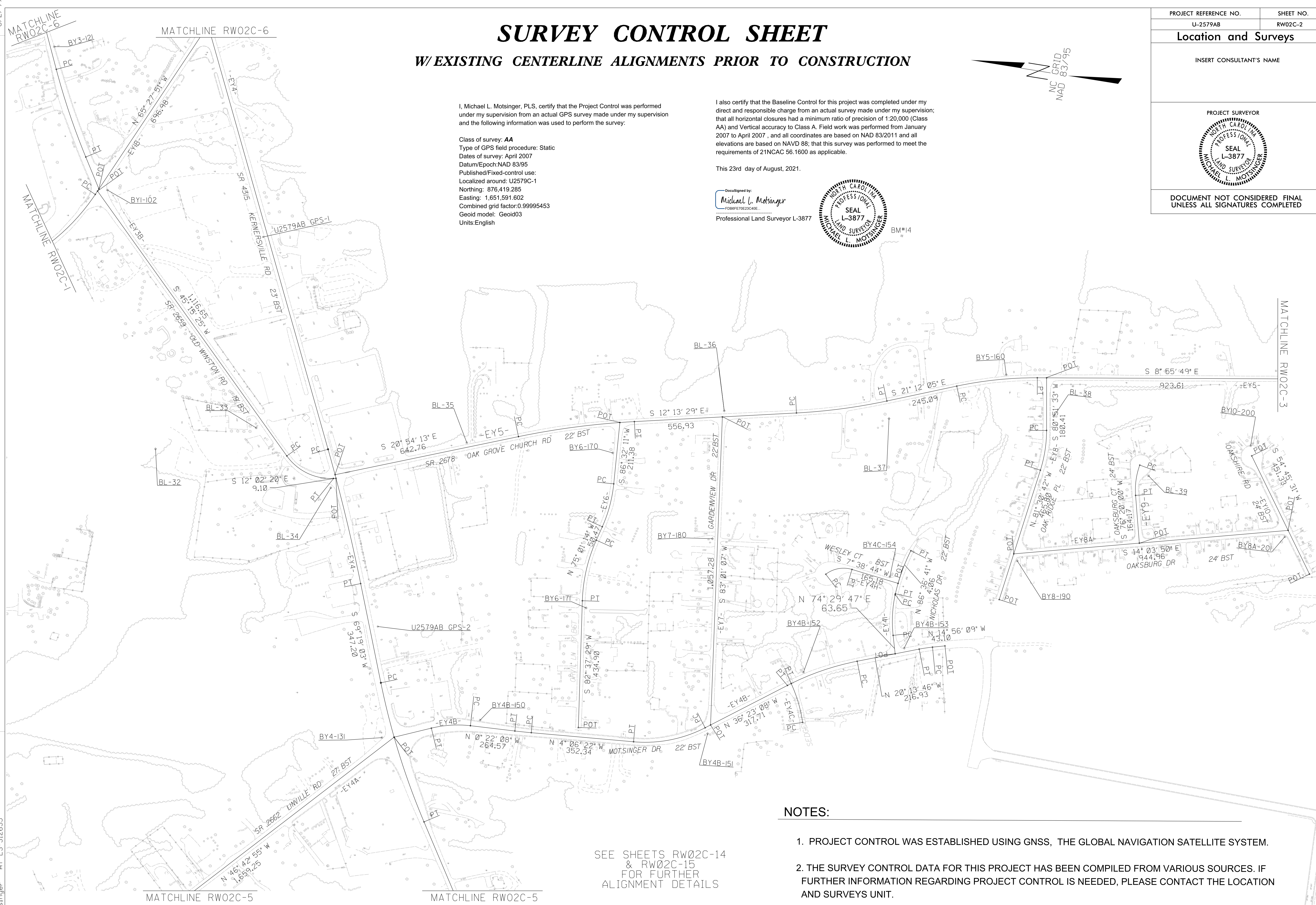
This 23rd day of August, 2021.

DocuSigned by:

 Professional Land Surveyor L-3877



REVISIONS

23-AUG-2021 14:09
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 AT LS-312635
 mmotsinger




NOTES:

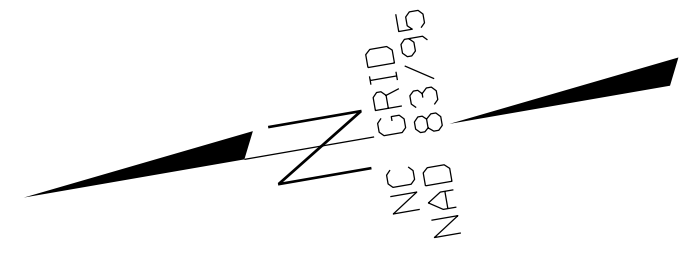
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

SEE SHEETS RW02C-14
 & RW02C-15
 FOR FURTHER
 ALIGNMENT DETAILS

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U-2579AB	SHEET NO. RW02C-3
Location and Surveys	
INSERT CONSULTANT'S NAME	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SEE SHEETS RW02C-15
& RW02C-16
FOR FURTHER
ALIGNMENT DETAILS



I, Michael L. Motsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: Static
 Dates of survey: April 2007
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use:
 Localized around: U2579C-1
 Northing: 876,419.285
 Easting: 1,651,591.602
 Combined grid factor: 0.99995453
 Geoid model: Geoid03
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from January 2007 to April 2007, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23rd day of August, 2021.

DocuSigned by:

 Michael L. Motsinger
 Professional Land Surveyor L-3877



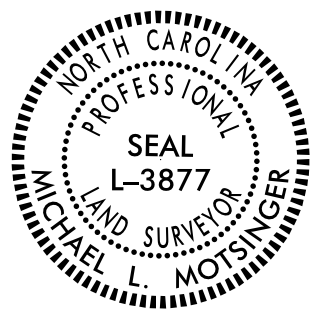
NOTES:

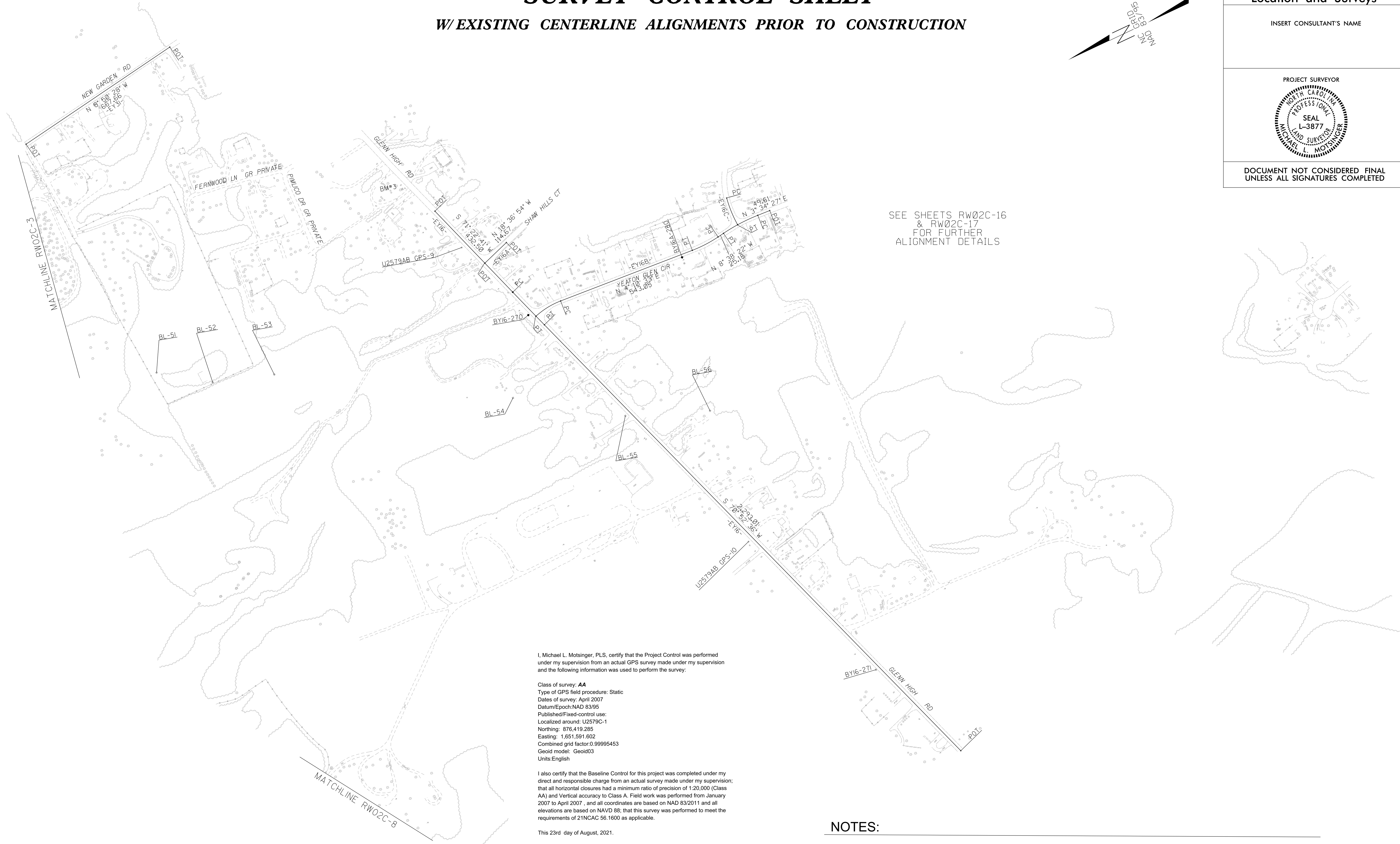
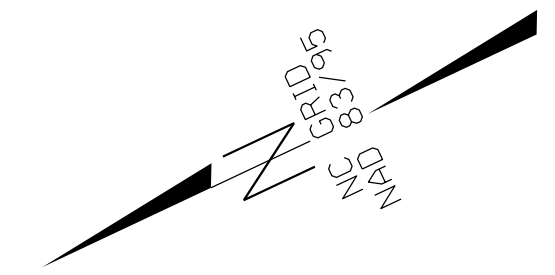
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS
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 23-AUG-2021/603
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 AT LS-312635
 mmotsinger

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U-2579AB	SHEET NO. RW02C-4
Location and Surveys	
INSERT CONSULTANT'S NAME	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SEE SHEETS RW02C-16
& RW02C-17
FOR FURTHER
ALIGNMENT DETAILS

I, Michael L. Motsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: **Static**
 Dates of survey: **April 2007**
 Datum/Epoch: **NAD 83/95**
 Published/Fixed-control use:
 Localized around: **U2579C-1**
 Northing: **876,419,285**
 Easting: **1,651,591,602**
 Combined grid factor: **0.99995453**
 Geoid model: **Geoid03**
 Units: **English**

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from January 2007 to April 2007, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23rd day of August, 2021.

DocuSigned by:

 Professional Land Surveyor L-3877



NOTES:

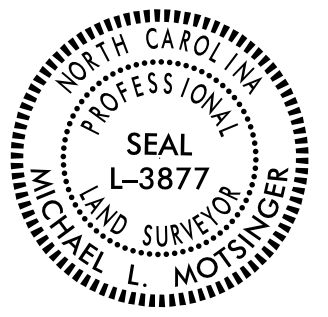
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

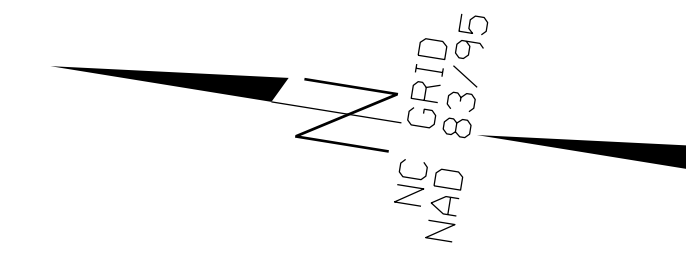
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 AT LS-312635
 mmotsinger

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U-2579AB	SHEET NO. RW02C-5
Location and Surveys	
INSERT CONSULTANT'S NAME	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SEE SHEET RW02C-14
FOR FURTHER
ALIGNMENT DETAILS



I, Michael L. Molsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: Static
 Dates of survey: April 2007
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use:
 Localized around: U2579C-1
 Northing: 876,419.285
 Easting: 1,651,591.602
 Combined grid factor: 0.99995453
 Geoid model: Geoid03
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from January 2007 to April 2007, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23rd day of August, 2021.

Decided by:
Michael L. Molsinger
FDBRF7E7E23C40E

Professional Land Surveyor L-3877



REVISIONS


23-AUG-2021 16:32
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LS-312635
molsinger

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. U-2579AB	SHEET NO. RW02C-6
Location and Surveys	
INSERT CONSULTANT'S NAME	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I, Michael L. Molsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: Static
 Dates of survey: April 2007
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use:
 Localized around: U2579C-1
 Northing: 876,419.285
 Easting: 1,651,591.602
 Combined grid factor: 0.99995453
 Geoid model: Geoid03
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from January 2007 to April 2007, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23rd day of August, 2021.

DocuSigned by:

 Professional Land Surveyor L-3877




SEE SHEET RW02C-14
 FOR FURTHER
 ALIGNMENT DETAILS

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

23-AUG-2021 11:01
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 AT LS-312635
 mmolsinger

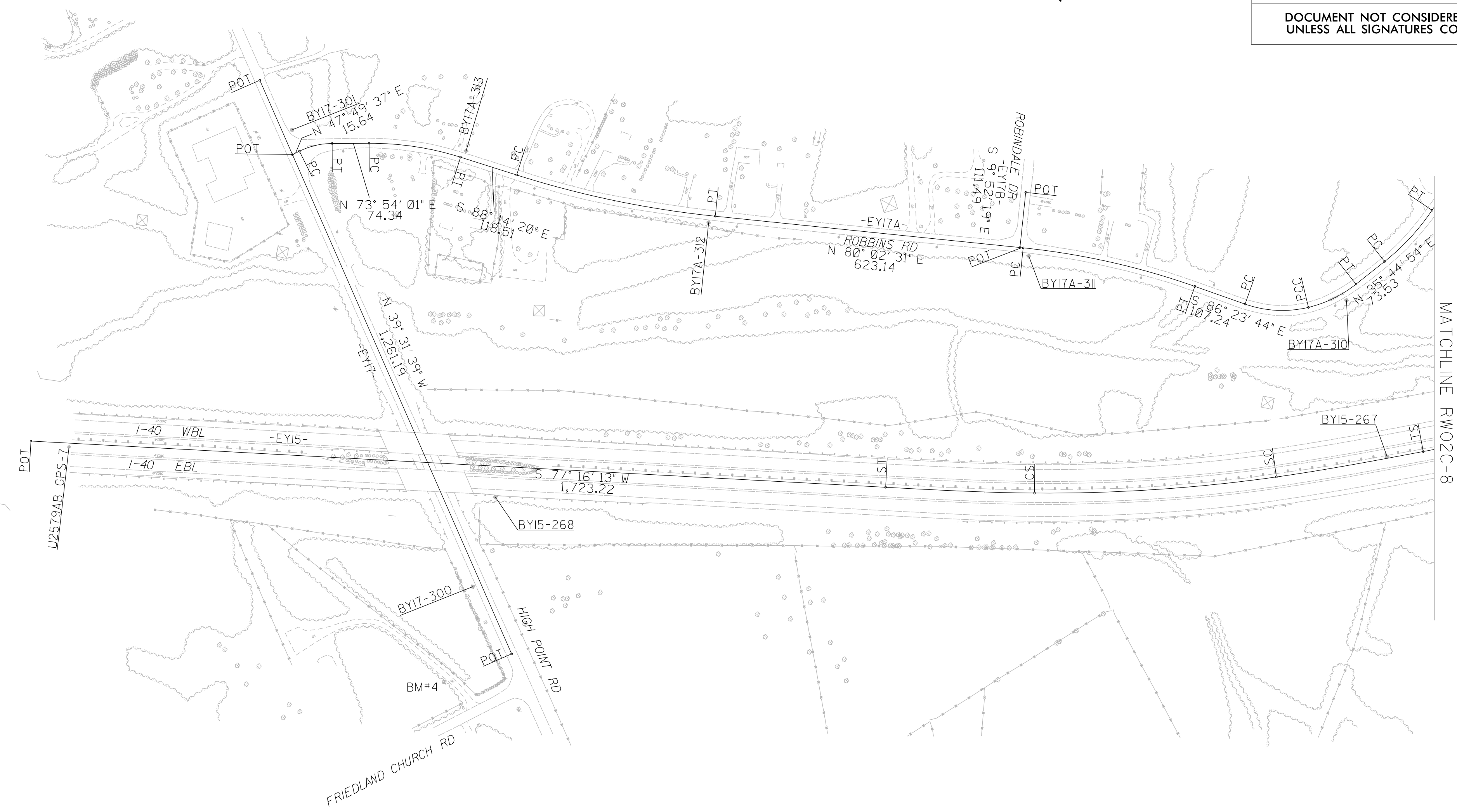
PROJECT REFERENCE NO. U-2579AB	SHEET NO. RW02C-7
Location and Surveys	
INSERT CONSULTANT'S NAME	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-16
FOR FURTHER
ALIGNMENT DETAILS



U2579AB_GPS-8

MATCHLINE RW02C-8

REVISIONS

24-AUG-2021 09:08 S:\Units\Winston\Clif\ Computer\Urbon\U2579ab\Right of Way\RW Ctl Sheets 2020\Julie\tobechecked\U2579AB.LS.rw02c-7.dgn
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AT LS-312561

I, Michael L. Molsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: Static
 Dates of survey: April 2007
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use:
 Localized around: U2579C-1
 Northing: 876,419.285
 Easting: 1,651,591.602
 Combined grid factor: 0.99995453
 Geoid model: Geoid03
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from January 2007 to April 2007, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23rd day of August, 2021.

DocuSigned by:

 Professional Land Surveyor L-3877




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

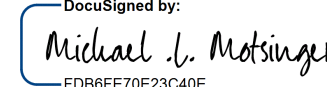
PROJECT REFERENCE NO. U-2579AB	SHEET NO. RW02C-8
Location and Surveys	
INSERT CONSULTANT'S NAME	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Michael L. Molsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA
 Type of GPS field procedure: Static
 Dates of survey: April 2007
 Datum/Epoch: NAD 83/95
 Published/Fixed-control use:
 Localized around: U2579C-1
 Northing: 876,419,285
 Easting: 1,651,591,602
 Combined grid factor: 0.99995453
 Geoid model: Geoid03
 Units: English

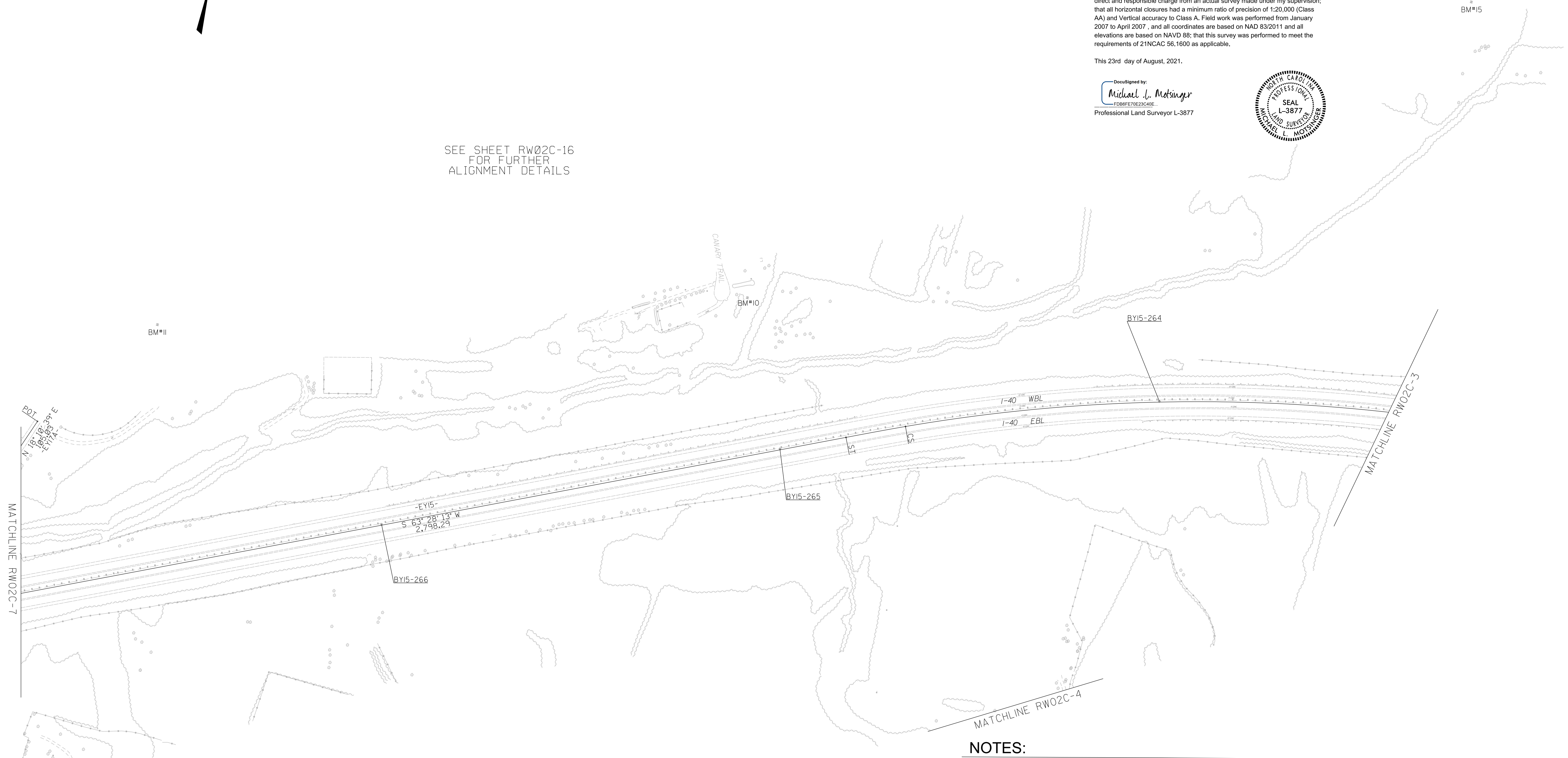
I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from January 2007 to April 2007, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23rd day of August, 2021.

Designed by:

 Professional Land Surveyor L-3877



SEE SHEET RW02C-16
 FOR FURTHER
 ALIGNMENT DETAILS



NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

I, Michael L. Molsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA
Type of GPS field procedure: Static
Dates of survey: April 2007
Datum/EPOCH: NAD 83/95
Published/Fixed-control use:
Localized around: U2579C-1
Northing: 876,419.285
Easting: 1,651,591.602
Combined grid factor: 0.99995453
Geoid model: Geoid03
Units: English

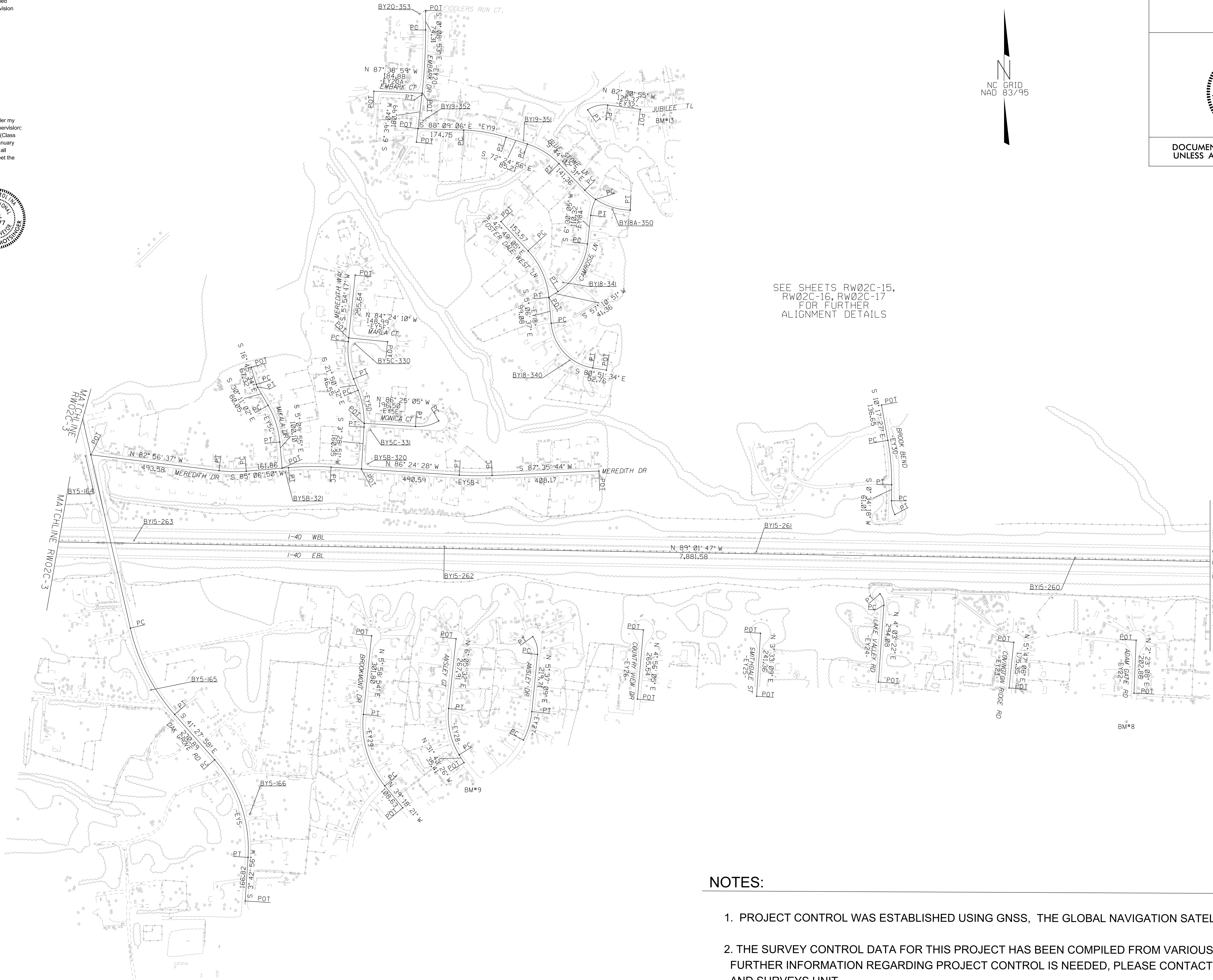
I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from January 2007 to April 2007, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23rd day of August, 2021.

DocuSigned by:
Michael L. Molsinger
FDB8F70E23CA0E
Professional Land Surveyor L-3877



PROJECT REFERENCE NO. U-2579AB	SHEET NO. RW02C-9
Location and Surveys	
INSERT CONSULTANT'S NAME	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SEE SHEETS RW02C-15,
RW02C-16, RW02C-17
FOR FURTHER
ALIGNMENT DETAILS

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

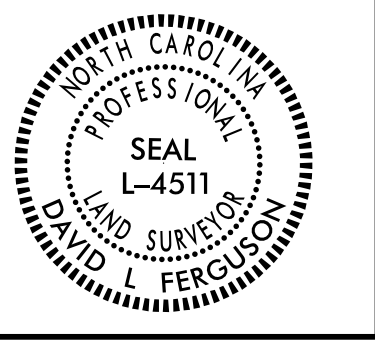
REVISIONS

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At LS-312561
J. Bevington



CHARLOTTE
9800 SOUTHERN PINE BLVD, STE I, CHARLOTTE, NC 28273
TEL: (704) 927-9700 FAX: (704) 529-3272
www.cardno.com

PROJECT SURVEYOR



RIGHT OF WAY CONTROL SHEET

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Row 1: DR1 12+05.00 -20.00 844531.9160 1662853.8445

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Row 1: UXRPB 10+00.00 -121.00 848274.2314 1670633.3299

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Rows 1-30: L 693+26.46 -200.00 857174.6403 1664420.0878

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Row 1: UXRPC 10+00.00 121.00 847918.3224 1670387.8387

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Row 1: Y1 11+50.00 50.00 854967.7154 1665278.4159

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Row 1: Y15 21+65.00 128.43 845787.6121 1657269.3138

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Row 1: Y15FLYBD 73+83.42 145.00 847187.3673 1666149.5140

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Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Row 1: SRI 10+42.00 -25.00 853401.8295 1664247.6192

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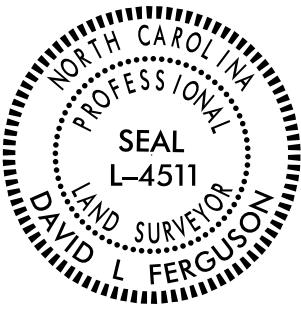
Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Row 1: Y15RPA 10+00.00 150.00 848710.9899 1666389.0292

I, David L. Ferguson, 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 1st day of March, 2019.

DocuSigned by: David Ferguson Professional Land Surveyor



L-4511 PLS #

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.

6/2/19

REVISIONS

01-MAR-2019 07:17 Mt:Cardno_Data\Projects\NCDOT\Location & Surveys\2017-2018\24-u2579ab\CAD\uz2579ab_ls_rw3e1_ldch.dgn

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. U-2579AB SHEET NO. RW03E-2 Cardno CHARLOTTE 9800 SOUTHERN PINE BLVD, STE 1, CHARLOTTE, NC 28273

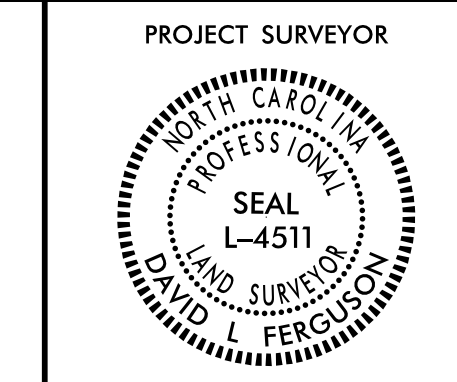


Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Data for ROW MARKER IRON PIN AND CAP-E.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Data for ROW MARKER IRON PIN AND CAP-E.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Data for ROW MARKER IRON PIN AND CAP-E.

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Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Data for ROW MARKER IRON PIN AND CAP-E.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Data for ROW MARKER IRON PIN AND CAP-E.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Data for ROW MARKER IRON PIN AND CAP-E.

REVISIONS

I, David L. Ferguson, 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 1st day of March, 2019.

DocuSigned by: David Ferguson




Professional Land Surveyor L-4511 PLS #

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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RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. U-2579AB	SHEET NO. RW03E-5
Location and Surveys	
ENTER CONSULTANT'S NAME IN THIS BOX	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	11+70.00	40.00	854967.5061	1665297.2553
Y1	12+16.34	-76.73	855054.4528	1665387.8892
Y1	13+45.88	40.00	854894.4692	1665457.2540
Y1	14+10.00	40.00	854867.9795	1665516.1144
Y1	14+10.00	-60.00	854959.3881	1665556.6663
Y1	15+20.00	-70.00	854926.9369	1665657.1887
Y1	16+15.00	50.00	854781.7803	1665704.5429
Y1	16+15.00	-32.06	854858.3223	1665734.1287
Y1	17+50.00	30.00	854748.1031	1665834.5894

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y15FLYBD	73+83.99	144.30	847187.3673	1666149.5140
Y15FLYBD	74+34.18	145.81	847218.6404	1666188.4574
Y15FLYBD	75+47.32	148.32	847288.0991	1666274.9519
Y15FLYBD	76+84.27	147.84	847370.2721	1666377.2790
Y15FLYBD	78+12.14	221.89	847380.7192	1666517.4401
Y15FLYBD	78+85.85	156.66	847473.2444	1666537.9826
Y15FLYBD	81+30.33	155.26	847592.5549	1666735.6509
Y15FLYBD	81+42.02	260.97	847504.4705	1666795.0935
Y15FLYBD	82+77.16	164.12	847647.0766	1666863.2830
Y15FLYBD	85+99.31	162.67	847762.1749	1667143.9177
Y15FLYBD	86+46.52	241.11	847701.4350	1667210.1275
Y15FLYBD	87+49.17	164.57	847802.1714	1667279.2938
Y15FLYBD	94+33.39	173.61	847890.9976	1667914.8085
Y15FLYBD	95+95.44	173.12	847892.9316	1668070.0121
Y15FLYBD	96+59.77	255.21	847810.1106	1668131.9151

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1A	10+90.00	35.00	854789.9532	1665562.0515
Y1A	10+92.93	-60.00	854758.0175	1665651.5707
Y1A	11+25.00	-24.42	854738.4113	1665607.8643
Y1A	11+65.00	19.39	854713.7810	1665553.8978

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y15REV	90+24.49	244.02	847891.2417	1668197.7800

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1B	13+00.00	30.00	857211.5184	1663429.5489
Y1B	15+25.00	44.00	856989.6850	1663473.3510
Y1B	15+35.00	-29.34	856999.7615	1663546.6846
Y1B	30+50.55	50.00	855622.4680	1664164.7935
Y1B	31+10.57	50.00	855573.5436	1664199.5637

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y15	149+87.00	-180.00	848296.8031	1669295.5964
Y15	149+87.00	-157.00	848273.8064	1669295.2084

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	11+44.02	-30.00	853617.8820	1662066.1593
Y4	11+45.15	-50.00	853634.9897	1662055.7911
Y4	58+94.11	49.67	855589.6650	1666384.4090
Y4	58+96.02	54.77	855585.8556	1666388.2949

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y5B	11+42.99	123.38	848784.0902	1666288.5612
Y5B	11+58.93	24.57	848770.5979	1666188.7691
Y5B	11+62.76	-25.47	848756.5287	1666140.5973
Y5B	21+78.28	-29.41	849733.3579	1666352.6431
Y5B	23+32.57	-36.04	849882.8087	1666369.6307

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y6	17+50.00	-60.00	853518.2787	1663709.6111

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y15RPA	11+04.02	125.00	848693.1992	1666282.7482
Y15RPA	11+04.91	146.50	848714.6631	1666284.1209
Y15RPA	12+29.65	116.68	848693.4264	1666157.6386
Y15RPA	13+72.55	134.84	848721.3008	1666016.3086
Y15RPA	13+90.10	176.12	848763.6827	1666001.6263

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
SR1	22+46.93	-25.00	852214.9935	1664456.2486
SR1	22+67.66	-190.24	852209.0630	1664622.7210
SR1	23+69.80	-25.00	852092.0340	1664466.4495
SR1	23+88.03	-200.13	852085.8960	1664642.4520

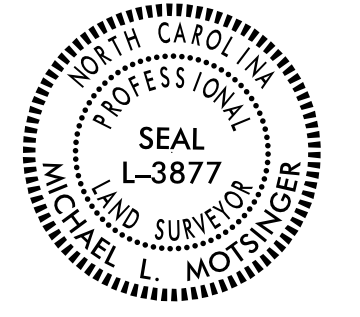
ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
UXRPC	16+66.65	76.46	847908.3972	1671040.7496
UXRPC	16+68.85	109.08	847875.8749	1671037.4196

I, Michael L. Molsinger, certify that the right of way and permanent easement monumentation for this project shown herein was verified under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from December 2018 to June 2019 and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23 rd day of August, 2021.

DocuSigned by:
Michael L. Molsinger
Professional Land Surveyor L-3877



REVISIONS

6/2/19
30-AUG-2021 14:45
S:\Units\1004\Winston\Cliffs Computer-Urban\U2579ab\Right of Way\RW Ctl Sheets 2020\Julie\to be checked\U2579AB.L.S.-rw03e-5.dgn
At L.S.-312556
Jeturbeville

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 _____ TO _____ .

PROJECT SURVEYOR

I, Michael L. Motsinger, certify that the right of way and permanent easement monumentation for this project shown herein was verified under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from December 2018 to June 2019, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23rd day of August, 2021.

DocuSigned by:
Michael L. Motsinger
FDB6FE78E23C40E...
Professional Land Surveyor L-3877



JONAH R. MOTSINGER, JR. and wife
KATHRYN G. MOTSINGER
DB 3096 PG 1416
PB 9 PG 98

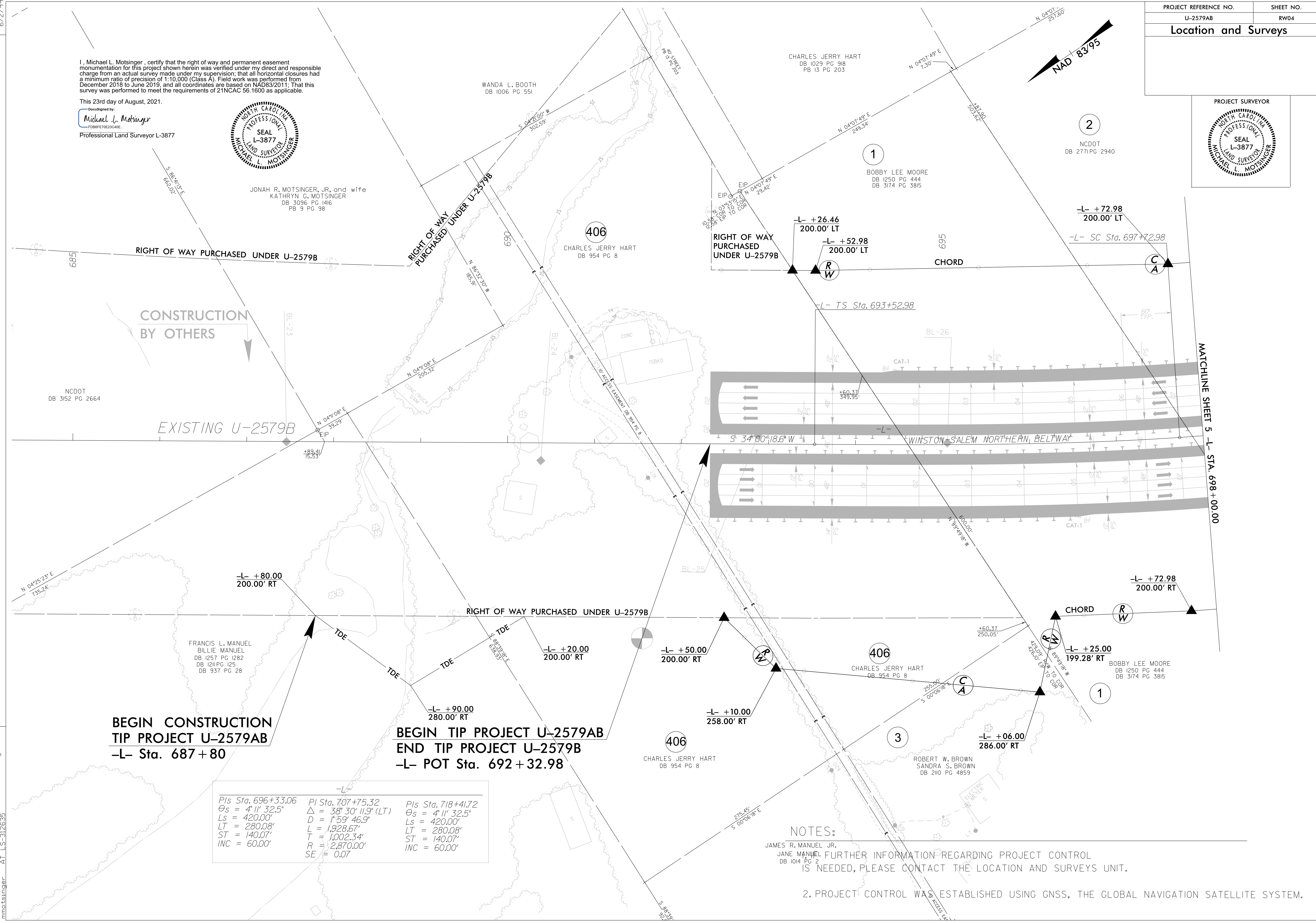
WANDA L. BOOTH
DB 1006 PG 551

CHARLES JERRY HART
DB 1029 PG 918
PB 13 PG 203

BOBBY LEE MOORE
DB 1250 PG 444
DB 3174 PG 3815

406
CHARLES JERRY HART
DB 954 PG 8

2
NCDOT
DB 2771 PG 2940



BEGIN CONSTRUCTION TIP PROJECT U-2579AB
-L- Sta. 687+80

BEGIN TIP PROJECT U-2579AB
END TIP PROJECT U-2579B
-L- POT Sta. 692+32.98

PIs Sta. 696+33.06 θs = 4' 11" 32.5" Ls = 420.00' LT = 280.08' ST = 140.07' INC = 60.00'	PI Sta. 707+75.32 Δ = 38' 30" 11.9" (LT) D = 1' 59" 46.9" L = 1928.67' T = 1002.34' R = 2870.00' SE = 0.07	PIs Sta. 718+41.72 θs = 4' 11" 32.5" Ls = 420.00' LT = 280.08' ST = 140.07' INC = 60.00'
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NOTES:
JAMES R. MANUEL JR.
JANE MANUEL
DB 1014 PG 2

1. 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

6/2/19

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mmotsinger AT 11/5/21 3:26:35