

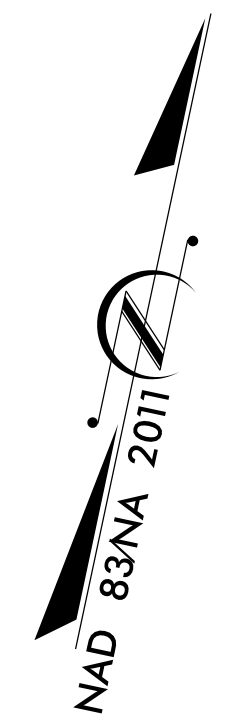
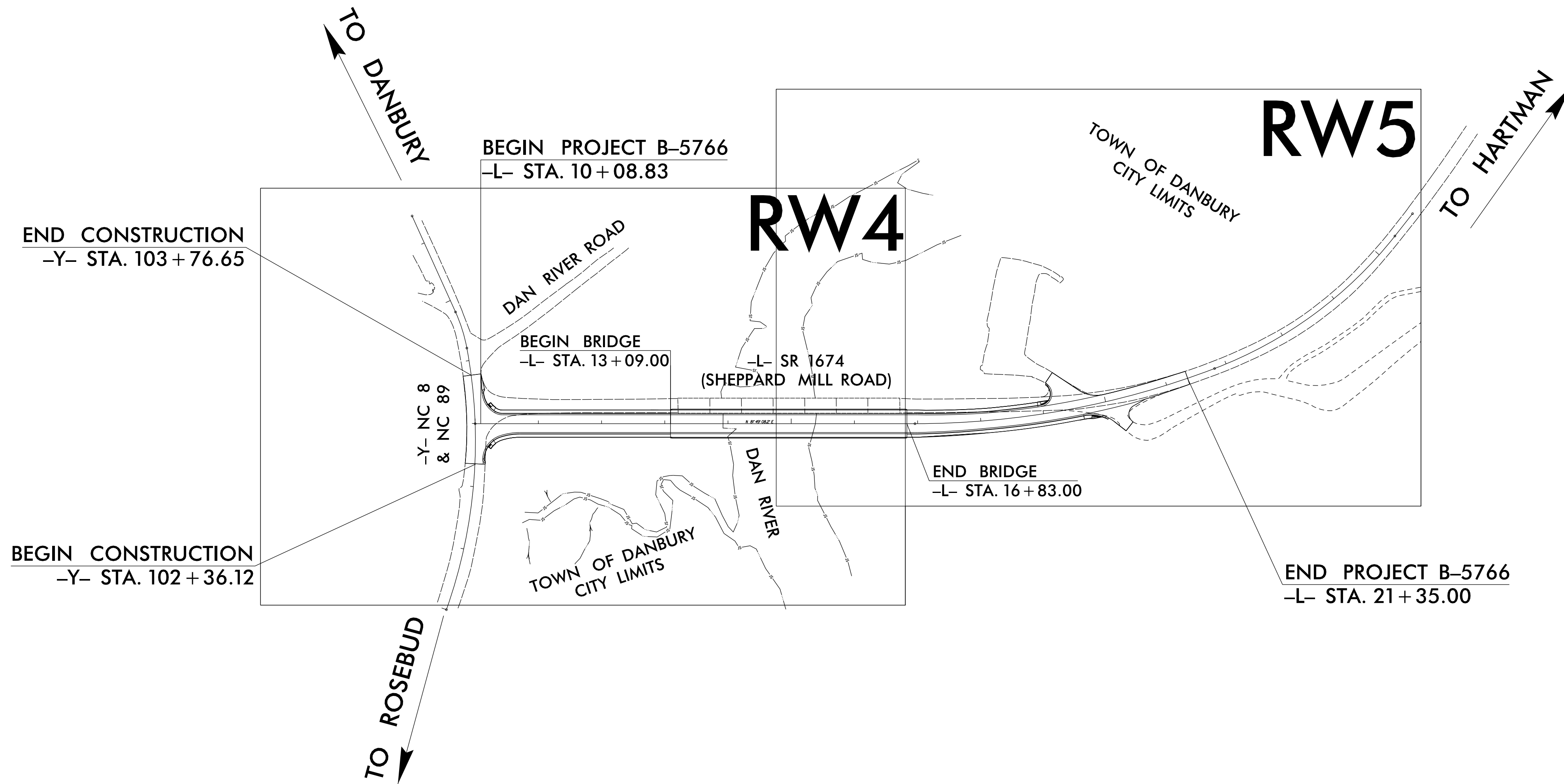
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5766	RW01	06

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

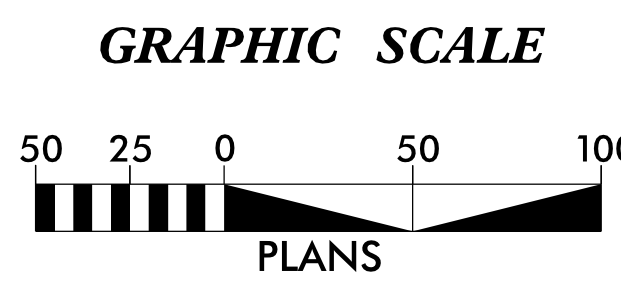
SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

STOKES COUNTY

TIP PROJECT: B-5766



19-SEP-2024 13:52
 F:\Bridge\B5766\Right of Way\to be checked\B5766-LS-rw01.dgn
 mmotisinger AT LS-3286 JIL



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B5766-2" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 969,517.1351(ft) EASTING: 1,646,981.2315(ft) ELEVATION: 705.77(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.0000477691 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B5766-2" TO -L- STATION 10+00.00 IS S 80°40'08.58" W 685.87(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

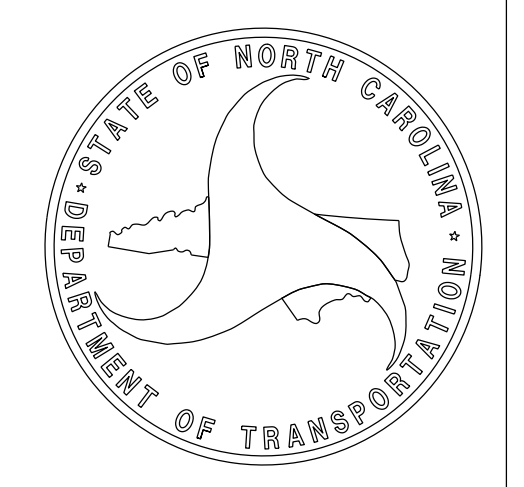
2024 STANDARD SPECIFICATIONS
RIGHT OF WAY DATE: 01/30/2024
LETTING DATE: 02/18/2025

PROFESSIONAL LAND SURVEYOR

Designed by: *Michael L. Mottinger*
 SIGNATURE: _____




Date: 09/19/2024



SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
B-5766	RW02C-1
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

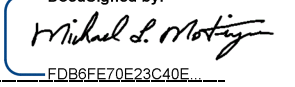


I, Michael L. Motsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: RTN
 Dates of survey: March 7, 2016
 Datum/Epoch: NAD 1983/2011
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]
 Localized around: B5766-2
 Northing: 969517.1351
 Easting: 1646981.2315
 Combined grid factor:
 Geoid model: 0.9999522332
 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 September 2016 to October 2016, 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 23 rd day of September, 2024.

DocuSigned by:

 Professional Land Surveyor L-3877



SEE SHEET RW2C-2
 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

BASELINE AND BENCHMARKS

PROJECT REFERENCE NO.	SHEET NO.
B-5766	RW02C-2
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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 Type of GPS field procedure: RTN
 Dates of survey: March 7, 2016
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This 23 rd day of September, 2024.

DocuSigned by:

 F0B6F670E23C40E
 Professional Land Surveyor L-3877



BL	POINT	DESC.	NORTH	EAST	ELEVATION
3		BL -3	969462.4351	1646323.6125	721.40
2		B5766-2	969517.1351	1646981.2315	705.77
1		B5766-1	969669.3327	1647498.2763	709.74
4		BL -4	969937.4379	1647737.6103	721.55

 BM1 ELEVATION = 696.19
 N 969981 E 1647834
 R/R SPIKE SET IN ROOT OF 40' POPLAR

 BM2 ELEVATION = 693.11
 N 969728 E 1647164
 R/R SPIKE SET IN ROOT OF 15' MAPLE

REVISIONS

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL		N	E	BEARING	DIST	DELTA	D	L	T	R
POT	POINT	969433.929	1646298.916							
LINE				N 81°49'08.2" E	851.18					
PC		969555.054	1647141.433							
CURVE				N 71°28'25.9" E	323.24	20°41'24.5"(LT)	06°21'58.3"	325.00	164.29	900.00
PCC		969657.758	1647447.919							
CURVE				N 45°35'45.7" E	356.16	31°03'55.9"(LT)	08°36'57.3"	360.56	184.83	665.00
PT		969906.968	1647702.368							
LINE				N 30°03'47.8" E	45.09					
POT		969945.993	1647724.957							

EY1		N	E	BEARING	DIST	DELTA	D	L	T	R
POT	POINT	969717.092	1646158.920							
LINE				S 32°30'21.5" E	166.74					
PC		969576.478	1646248.521							
CURVE				S 25°37'49.8" E	59.86	13°45'03.6"(RT)	22°55'05.9"	60.00	30.14	250.00
PCC		969522.512	1646274.413							
CURVE				S 03°42'43.6" E	415.27	30°05'08.9"(RT)	07°09'43.1"	420.08	215.00	800.00
PT		969108.116	1646301.299							

EY2		N	E	BEARING	DIST	DELTA	D	L	T	R
POT	POINT	969635.962	1646418.807							
LINE				S 44°25'01.0" W	70.68					
PC		969585.480	1646369.343							
CURVE				S 47°24'05.2" W	60.92	05°58'08.5"(RT)	09°47'38.9"	60.94	30.50	585.00
PT		969544.248	1646324.501							
LINE				S 50°23'09.5" W	58.41					
POT		969507.004	1646279.503							

PROPOSED ALIGNMENT


		NORTH	EAST
POT	STATION	10+00.00	969405.9297
PC		16+95.76	969504.9370
PCC		21+80.36	969658.8052
PT		25+38.76	969906.9679
POT		25+83.85	969945.9934

		NORTH	EAST
PC	STATION	100+00.00	969108.1156
PCC		104+20.08	969522.5118
PT		104+80.08	969576.4782
POT		106+46.81	969717.0920

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.

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. B-5766	SHEET NO. RW03E-1
Location and Surveys	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP-E

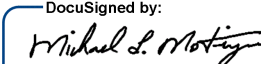
ALIGN	STATION	OFFSET	NORTH	EAST
L	11+36.88	27.00	969398.6830	1646443.7639
L	16+95.76	27.00	969478.2118	1646996.9507
L	16+95.76	25.00	969480.1914	1646996.6661
L	19+97.42	25.00	969557.9048	1647293.3364

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	11+80.00	-76.00	969506.7705	1646471.7861
L	11+80.00	-58.50	969489.4486	1646474.2764
L	12+80.00	27.00	969419.0489	1646585.4255
L	12+80.00	95.00	969351.7409	1646595.1020
L	12+85.00	-58.50	969504.3903	1646578.2078
L	12+85.00	-74.00	969519.7326	1646576.0022
L	12+85.00	-80.00	969525.6715	1646575.1483
L	12+91.17	95.00	969353.3306	1646606.1596
L	12+97.93	85.94	969363.2652	1646611.5617
L	13+35.00	88.00	969366.4963	1646648.5462
L	13+45.00	43.00	969412.4614	1646652.0409
L	13+45.00	27.00	969428.2985	1646649.7640
L	13+65.00	-80.00	969537.0557	1646654.3342
L	13+65.00	-58.50	969515.7745	1646657.3937
L	13+65.00	-73.00	969530.1269	1646655.3303
L	16+30.00	-58.50	969553.4845	1646919.6969
L	16+30.00	-69.00	969563.8776	1646918.2027
L	16+30.00	-87.00	969581.6944	1646915.6413
L	16+45.00	27.00	969470.9891	1646946.7110
L	16+45.00	60.00	969438.3249	1646951.4070
L	17+10.00	25.00	969482.3333	1647011.0186
L	17+10.00	60.00	969447.7448	1647016.3699
L	17+10.00	-58.43	969564.7795	1646998.2631
L	17+10.00	-87.00	969593.0165	1646993.8945
L	17+10.00	-67.00	969573.2516	1646996.9524
L	17+98.00	-75.00	969596.5581	1647077.3108
L	17+98.00	-54.73	969576.7787	1647081.7268
L	17+98.00	-63.00	969584.8464	1647079.9256
L	18+50.00	-68.00	969601.4163	1647126.7694
L	19+75.00	-36.88	969607.8980	1647250.5884

I, Michael L. Motsinger, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from September 2nd, 2024 to September 23, 2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 24th day of September, 2024.

DocuSigned by:

 Professional Land Surveyor L-3877



REVISIONS

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 _____ .

Location and Surveys

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NOTES:

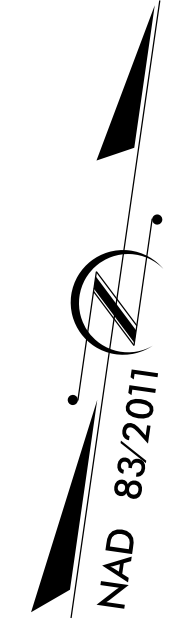
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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ____ TO ____.

I, Michael L. Molsinger, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from September 2nd, 2024 to September 23, 2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

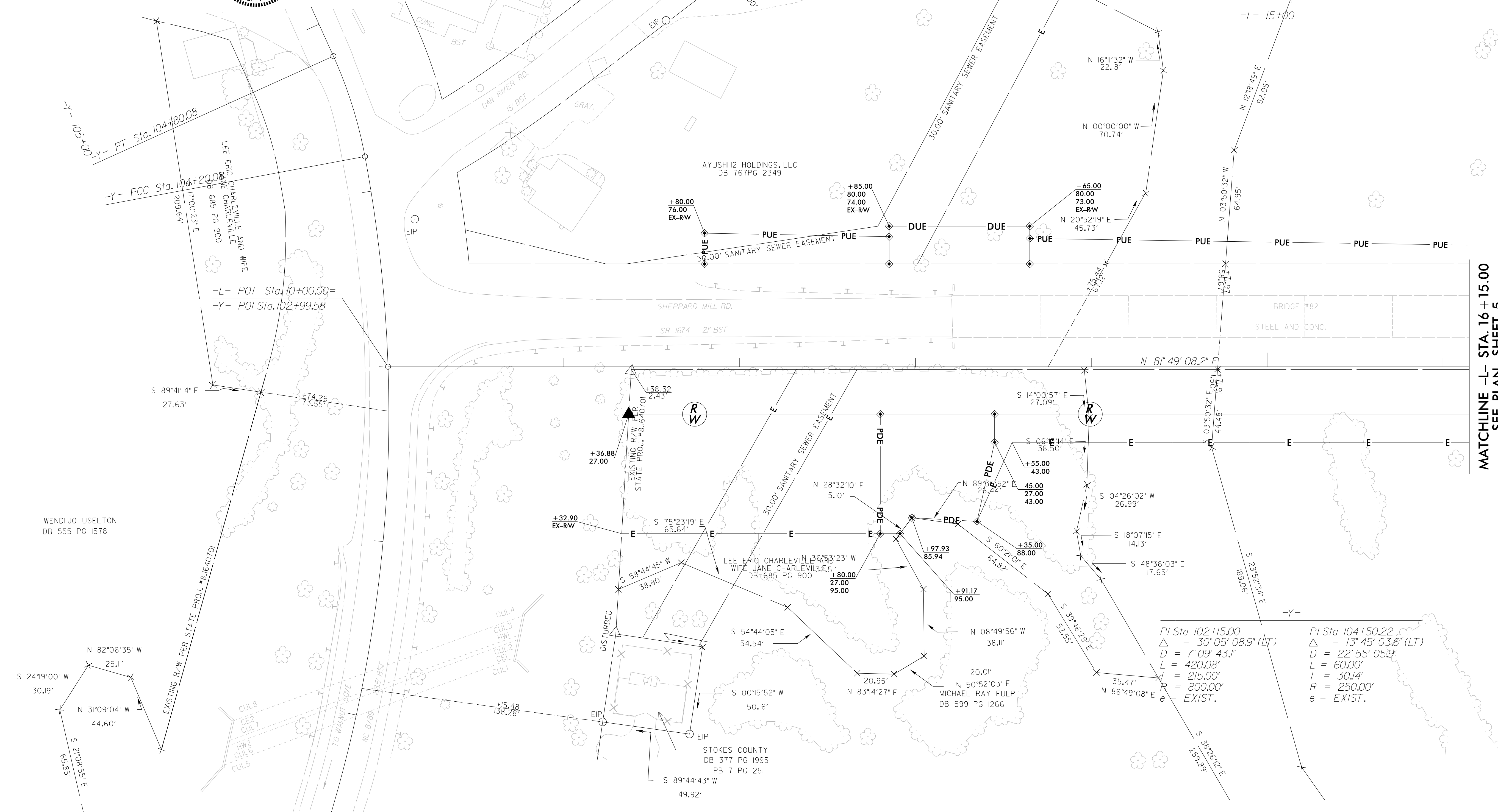
This 24th day of September, 2024.

DocuSigned by:

 Professional Land Surveyor L-3877



REVISIONS



MATCHLINE -L- STA. 16 + 15.00
SEE PLAN SHEET 5

PI Sta 102+15.00 $\Delta = 30' 05' 08.9''$ (LT) $D = 7' 09' 43.1''$ $L = 420.08'$ $T = 215.00'$ $R = 800.00'$ $e =$ EXIST.	PI Sta 104+50.22 $\Delta = 13' 45' 03.6''$ (LT) $D = 22' 55' 05.9''$ $L = 60.00'$ $T = 30.14'$ $R = 250.00'$ $e =$ EXIST.
--	---

P:\1-SEP-2024\1013\F1\1515.dwg B5766 Right of Way\to be checked\B5766.L.S.-rw04.dgn
 6/2/19
 Michael L. Molsinger

Location and Surveys

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NOTES:

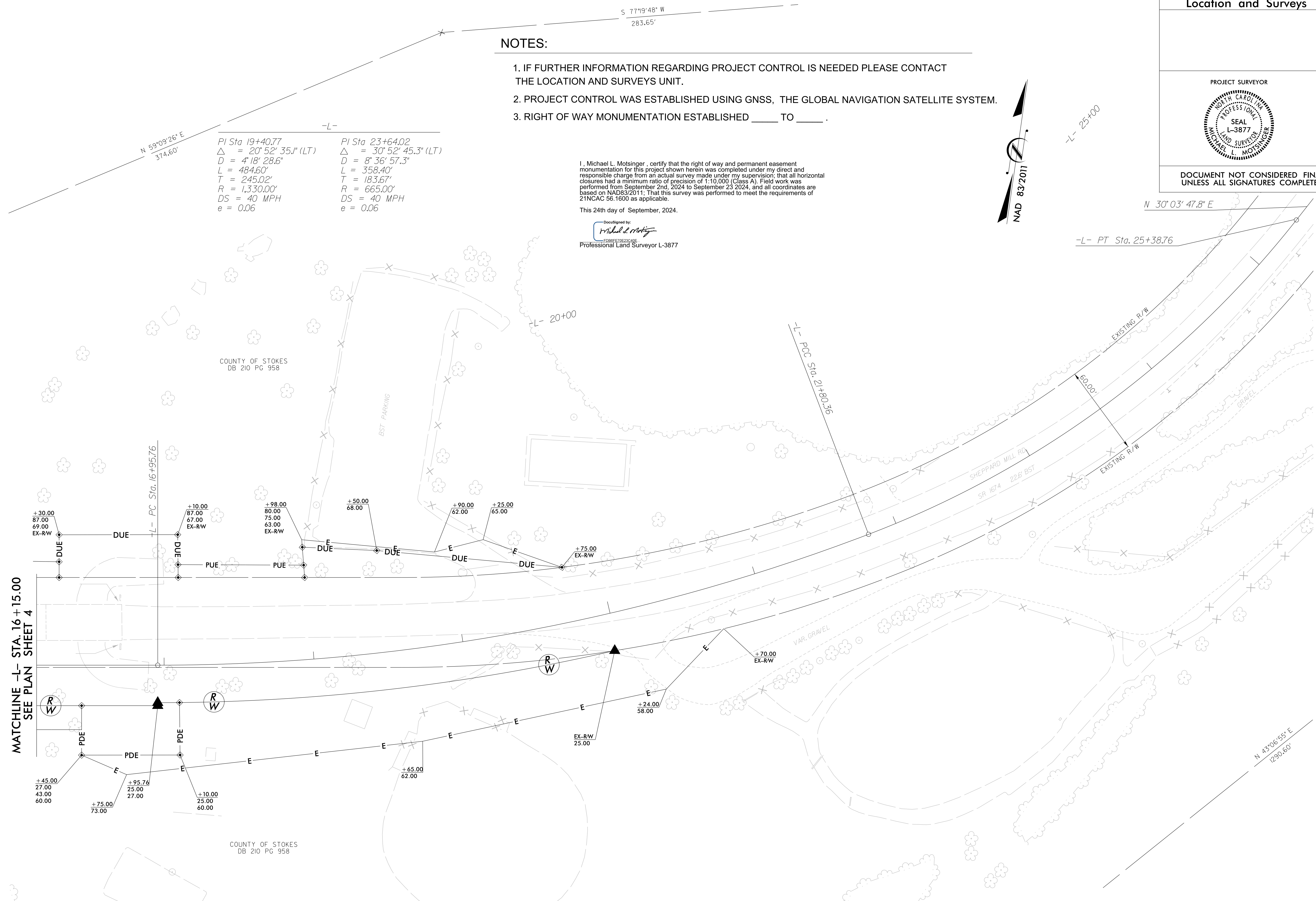
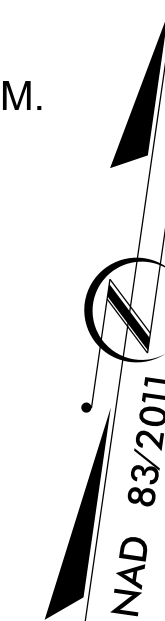
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ____ TO ____.

I, Michael L. Molsinger, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from September 2nd, 2024 to September 23, 2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 58.1600 as applicable.

This 24th day of September, 2024.

DocuSigned by:

 Professional Land Surveyor L-3877



PI Sta 19+40.77 $\Delta = 20^\circ 52' 35.1''$ (LT) $D = 4' 18.286''$ $L = 484.60'$ $T = 245.02'$ $R = 1,330.00'$ $DS = 40$ MPH $e = 0.06$	PI Sta 23+64.02 $\Delta = 30^\circ 52' 45.3''$ (LT) $D = 8' 36.573''$ $L = 358.40'$ $T = 183.67'$ $R = 665.00'$ $DS = 40$ MPH $e = 0.06$
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MATCHLINE -L- STA. 16+15.00
SEE PLAN SHEET 4

REVISIONS

P:\SEP-2024\1018 B5766\Right of Way\to be checked\B5766.L.S.-rw05.dgn
 M.L.Molsinger
 AT L.S.-328671