

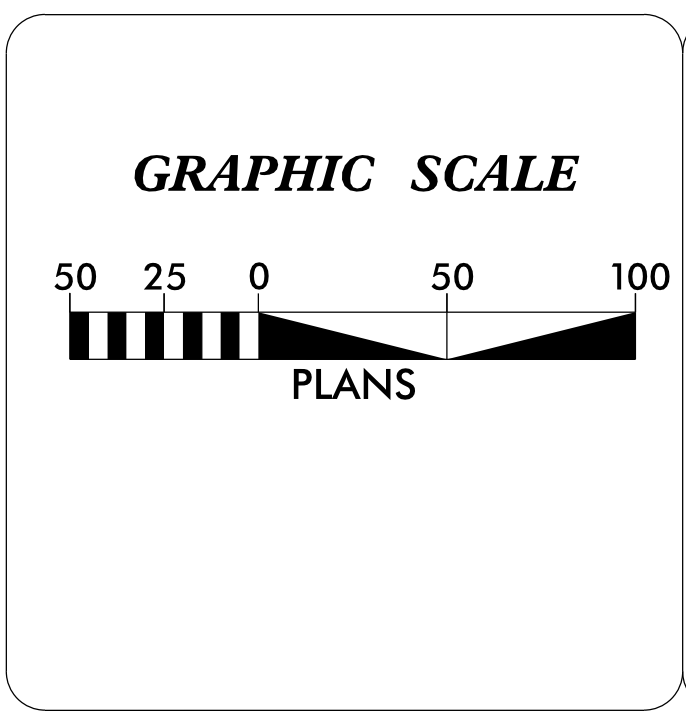
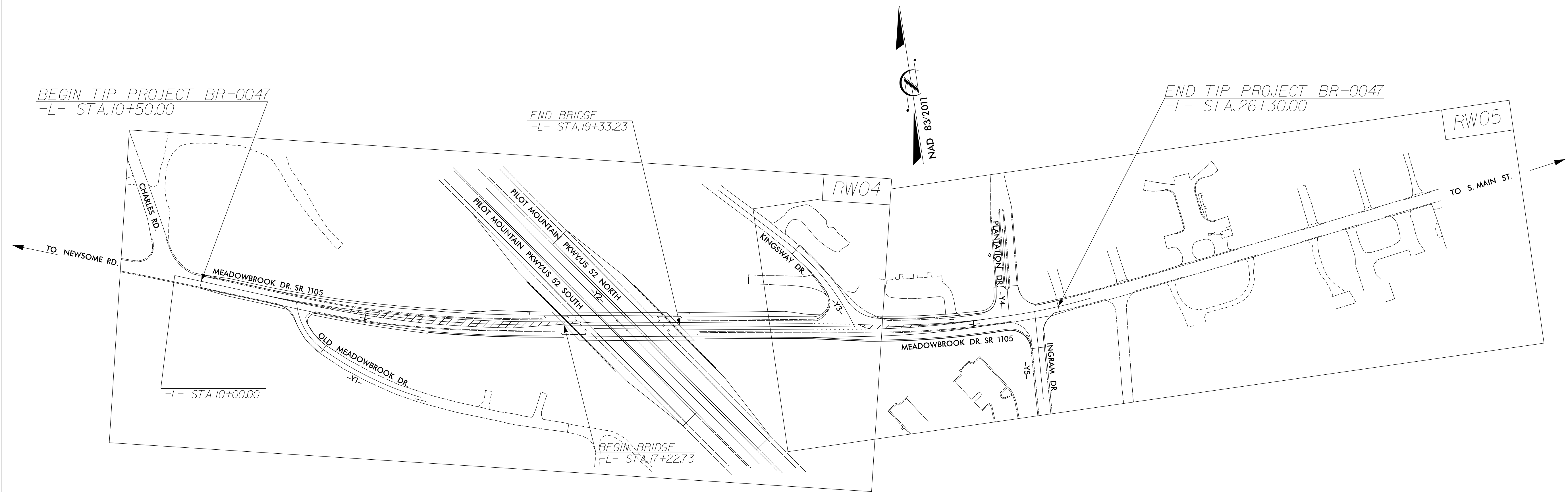
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0047	RW01	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

STOKES COUNTY

TIP PROJECT: BR-0047



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "BR-0047-GPS 2" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 920,826.224(ft) EASTING: 1,593,899.559(ft) ELEVATION: 1,055.11(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999860524

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BR-0047-GPS 2" TO -L- STATION 10+00.00 IS N 72-57'40.36" W 588.78(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: <u>August 30, 2019</u>	LETTING DATE: <u>June 16, 2020</u>
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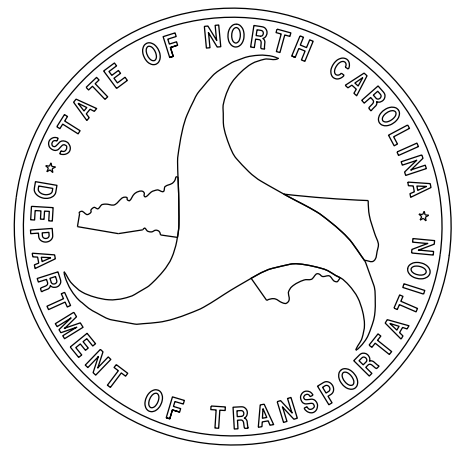
PROFESSIONAL LAND SURVEYOR

DocuSigned by:
Michael L. Molsinger
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SIGNATURE:

3/30/2020

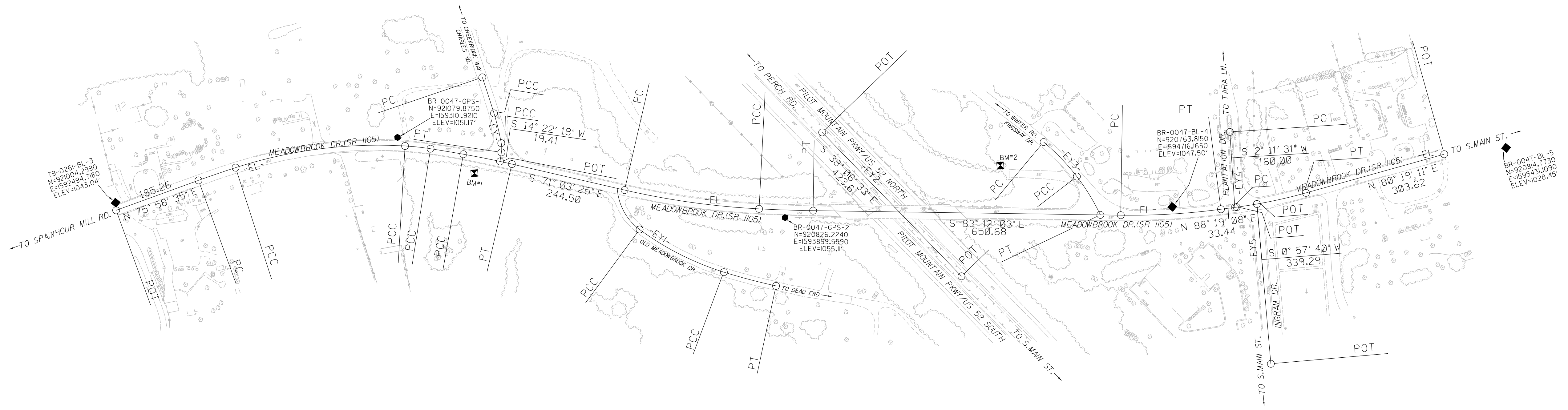
Date:

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

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-2
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.

SURVEY CONTROL SHEET

BASELINE AND BENCHMARKS

BL	POINT	DESC.	NORTH	EAST	ELEVATION
3		BL-3	921004.2990	1592494.7180	1043.04
1		BR0047-1	921079.8750	1593101.9210	1051.17
2		BR0047-2	920826.2240	1593899.5590	1055.11
4		BL-4	920763.8150	1594716.1650	1047.50
5		BL-5	920814.7730	1595431.1090	1028.45

 BM1 ELEVATION = 1042.29 BM2 ELEVATION = 1049.82
 N 920988 E 1593256 N 920889 E 1594363
 RR SPIKE SET IN 25" DIA MAPLE RR SPIKE SET IN 10" DIA MAPLE

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

REVISIONS

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 AT LS-312635
 mmtsinger

EL		N	E	BEARING	DIST	DELTA	D	L	T	R
POT	920988.292	1592494.150								
LINE				N 75°58'35.1" E	185.26					
PC	921033.184	1592673.887								
CURVE				N 77°00'33.2" E	82.91	02°03'56.2"(RT)	02°29'28.0"	82.92	41.46	2300.00
PCC	921051.823	1592754.680								
CURVE				N 88°39'54.5" E	361.32	21°14'46.4"(RT)	05°50'47.4"	363.40	183.81	980.00
PCC	921060.240	1593115.903								
CURVE				S 77°53'20.8" E	54.17	05°38'42.8"(RT)	10°25'02.7"	54.19	27.12	550.00
PCC	921048.876	1593168.866								
CURVE				S 74°33'46.0" E	70.33	01°00'26.9"(RT)	01°25'56.6"	70.34	35.17	4000.00
PCC	921030.154	1593236.663								
CURVE				S 72°33'28.7" E	104.78	03°00'07.6"(RT)	02°51'53.2"	104.79	52.41	2000.00
PT	920998.747	1593336.627								
LINE				S 71°03'24.9" E	244.50					
PC	920919.373	1593567.889								
CURVE				S 76°04'51.6" E	287.24	10°02'53.4"(LT)	03°29'37.1"	287.61	144.18	1640.00
PCC	920850.277	1593846.699								
CURVE				S 82°09'10.4" E	114.29	02°05'44.3"(LT)	01°50'00.5"	114.30	57.16	3125.00
PT	920834.672	1593959.922								
LINE				S 83°12'02.6" E	650.68					
PC	920757.638	1594606.022								
CURVE				S 87°26'27.4" E	212.20	08°28'49.5"(LT)	03°59'33.9"	212.40	106.39	1435.00
PT	920748.163	1594818.013								
LINE				N 88°19'07.9" E	33.44					
PC	920749.144	1594851.437								
CURVE				N 84°19'09.3" E	149.63	07°59'57.1"(LT)	05°20'29.3"	149.76	75.00	1072.66
PT	920763.956	1595000.336								
LINE				N 80°19'10.8" E	303.62					
POT	920815.010	1595299.633								

EY2		N	E	BEARING	DIST
POT	920997.364	1593996.176			
LINE				S 38°06'33.0" E	423.61
POT	920664.049	1594257.614			

EY3		N	E	BEARING	DIST	DELTA	D	L	T	R
PC	920928.525	1594459.789								
CURVE				S 37°55'08.4" E	101.28	12°31'36.1"(RT)	12°20'36.3"	101.48	50.95	464.18
PCC	920848.625	1594522.032								
CURVE				S 25°34'59.2" E	95.21	12°08'42.3"(RT)	12°43'56.6"	95.39	47.87	450.00
PT	920762.750	1594563.146								

EY4		N	E	BEARING	DIST
POT	920908.907	1594853.648			
LINE				S 02°11'30.6" W	160.00
POT	920749.029	1594847.529			


EY5		N	E	BEARING	DIST
POT	920751.292	1594894.740			
LINE				S 00°57'39.5" W	339.29
POT	920412.053	1594889.050			

EY		N	E	BEARING	DIST	DELTA	D	L	T	R
PC	921187.706	1593293.427								
CURVE				S 12°01'26.1" E	80.10	01°42'04.2"(RT)	02°07'25.5"	80.10	40.05	2697.87
PCC	921109.364	1593310.113								
CURVE				S 07°43'51.5" E	64.85	06°53'04.9"(RT)	10°36'37.2"	64.89	32.48	540.00
PCC	921045.105	1593318.836								
CURVE				S 05°02'29.5" W	19.45	18°39'37.0"(RT)	95°29'34.7"	19.54	9.86	60.00
PT	921025.726	1593317.127								
LINE				S 14°22'18.0" W	19.41					
POT	921006.919	1593312.308								

EY1		N	E	BEARING	DIST	DELTA	D	L	T	R
PC	920924.492	1593552.976								
CURVE				S 22°30'01.1" E	98.92	50°21'36.0"(LT)	49°17'09.2"	102.18	54.65	116.25
PCC	920833.100	1593590.833								
CURVE				S 57°11'09.3" E	199.83	19°00'40.7"(LT)	09°28'13.4"	200.74	101.30	605.00
PCC	920724.812	1593758.772								
CURVE				S 69°18'21.2" E	114.03	05°13'43.1"(LT)	04°35'01.2"	114.07	57.08	1250.00
PT	920684.515	1593865.447								

NOTES:

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PROJECT REFERENCE NO.	SHEET NO.
BR-0047	RW04
Location and Surveys	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Michael L. Mottisinger, 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.

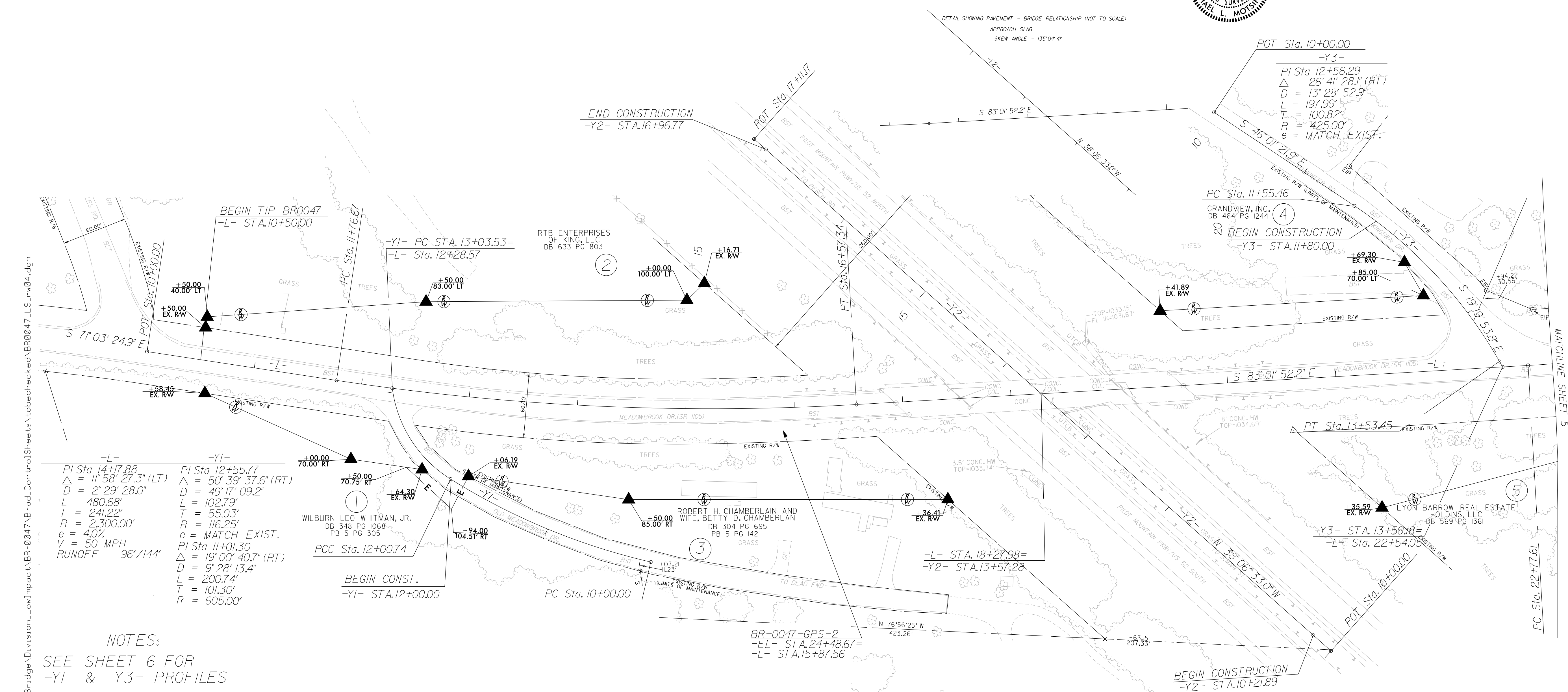
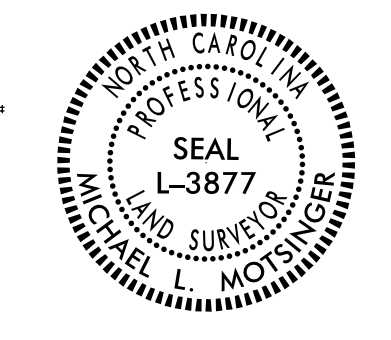
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

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 23rd day of January, 2020.

DocuSigned by:
Michael L. Mottisinger
 1088F8E23044E
 Professional Land Surveyor

L-3877
 PLS #



-L-	-Y1-
PI Sta 14+17.88	PI Sta 12+55.77
$\Delta = 11' 58" 27.3" (LT)$	$\Delta = 50' 39" 37.6" (RT)$
$D = 2' 29" 28.0"$	$D = 49' 17" 09.2"$
$L = 480.68'$	$L = 102.79'$
$T = 241.22'$	$T = 55.03'$
$R = 2,300.00'$	$R = 116.25'$
$e = 40\%$	$e = MATCH EXIST.$
$V = 50 MPH$	PI Sta 11+01.30
$RUNOFF = 96"/144'$	$\Delta = 19' 00" 40.7" (RT)$
	$D = 9' 28" 13.4"$
	$L = 200.74'$
	$T = 101.30'$
	$R = 605.00'$

NOTES:
 SEE SHEET 6 FOR
 -Y1- & -Y3- PROFILES

BM #1
 -BL- STA.12+86.46
 41.24' RT

BM #2
 -L- STA.20+39.99
 101.89 LT

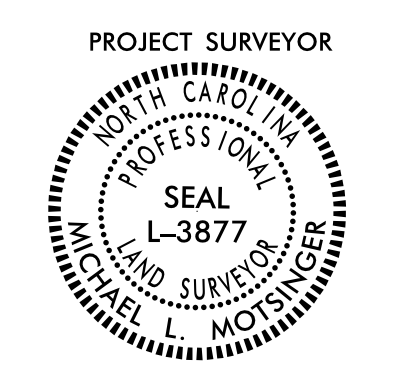
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 mmoisinger AT LS-312635

REVISIONS

Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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DocuSigned by:
Michael L. Motsinger
 FDB6FE70E23C40E...
 Professional Land Surveyor

L-3877
 PLS #



REVISIONS

6/2/19

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