

VICINITY MAP (NTS)

RUTHERFORD COUNTY

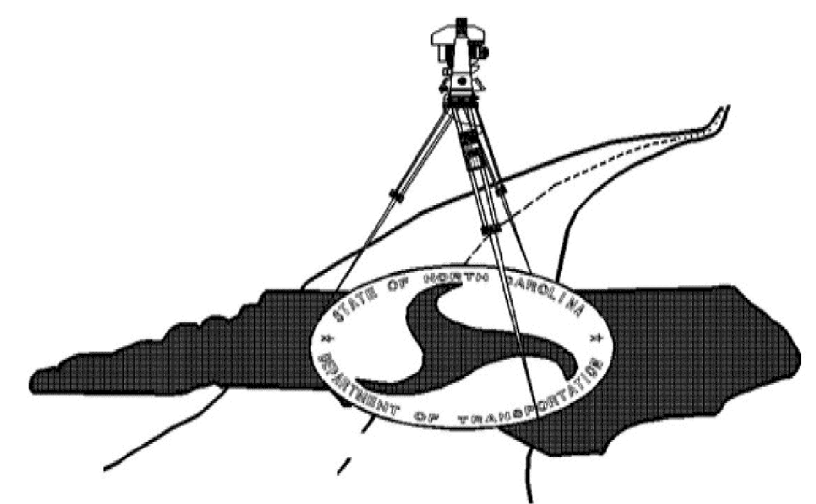


THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.999828116
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

A circular professional seal for Matthew T. Cornwell, a North Carolina Land Surveyor. The seal features a double-lined border. Between the lines, the words "NORTH CAROLINA" are at the top and "LAND SURVEYOR" are at the bottom. In the center, the word "SEAL" is above the license number "L-4775". The name "MATTHEW T. CORNWELL" is written along the bottom inner edge of the seal.

5/26/2026

DATE:

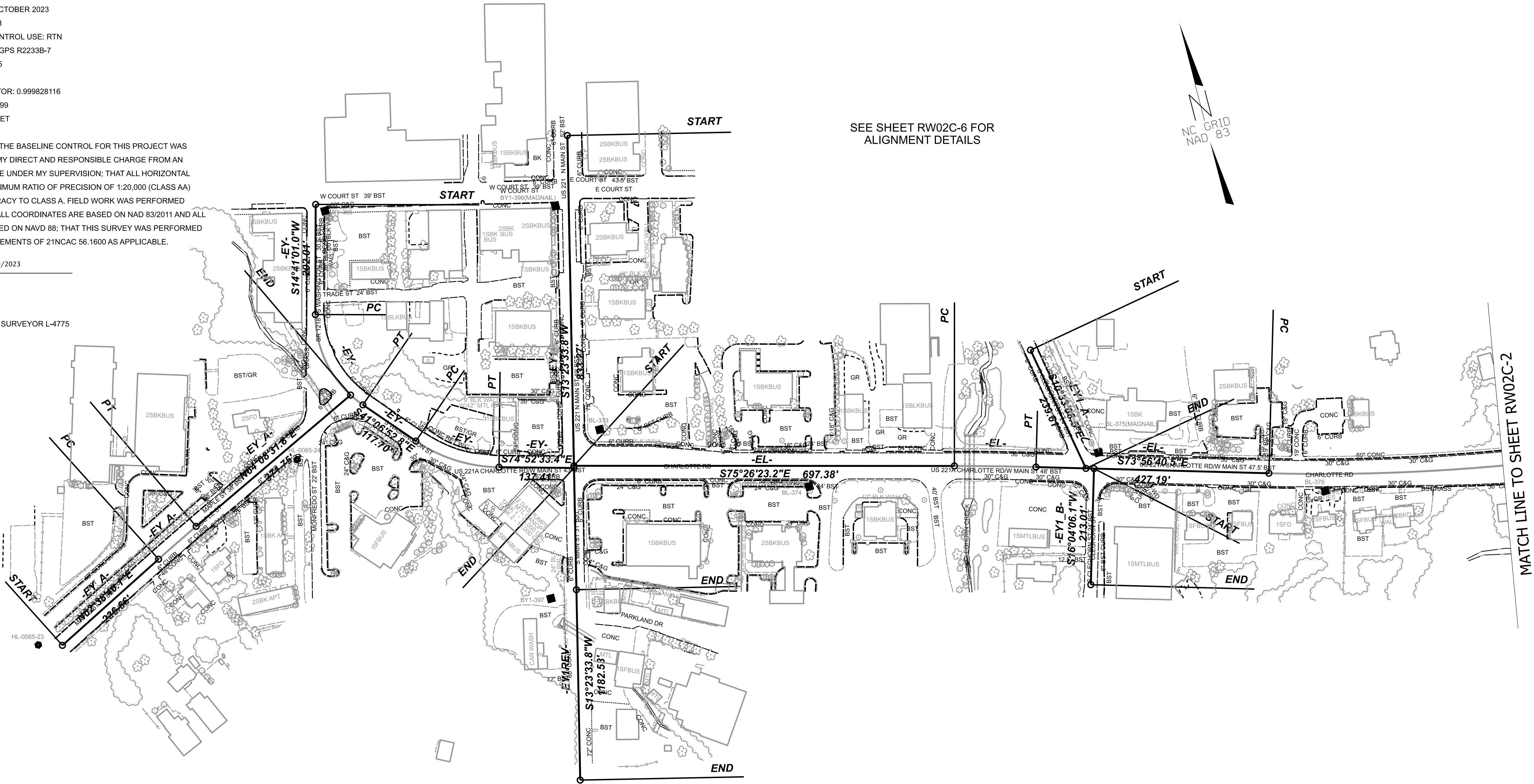


I, MATTHEW T. CORNWELL, PLS, CERTIFY THAT THE PROJECT CONTROL WAS VERIFIED UNDER MY SUPERVISION FROM AN ACTUAL GPS SURVEY MADE UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THE SURVEY:

CLASS OF SURVEY: **AA**
TYPE OF GPS FIELD PROCEDURE: RTN
DATES OF SURVEY: OCTOBER 2023
DATUM/EPOCH: NAD83
PUBLISHED/FIXED-CONTROL USE: RTN
LOCALIZED AROUND: GPS R2233B-7
NORTHING: 600197.305
EASTING: 1122726.311
COMBINED GRID FACTOR: 0.999828116
GEOID MODEL: GEOID99
UNITS: US SURVEY FEET

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 OCTOBER 2023, 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 10/30/2023
DocuSigned by:
Matthew Cornwell
EBD36PF1473E475
PROFESSIONAL LAND SURVEYOR L-4775



SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

SEE SHEET RW02C-6 FOR
ALIGNMENT DETAILS

NC GRID
NAD 83

MATCH LINE TO SHEET RW02C-2



NOTES:

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

HL-0065

R/W 02C-1

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

PROFESSIONAL LAND
SURVEYOR

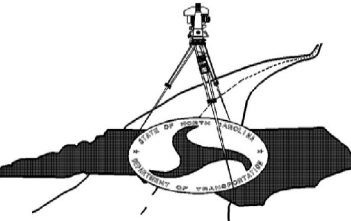
SEAL
L-4775
MATTHEW T. CORNWELL

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL SIGNATURES
ARE COMPLETED

2018 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065
County: Rutherford

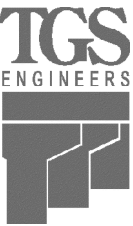
PREPARED FOR



LOCATION AND
SURVEYS UNIT

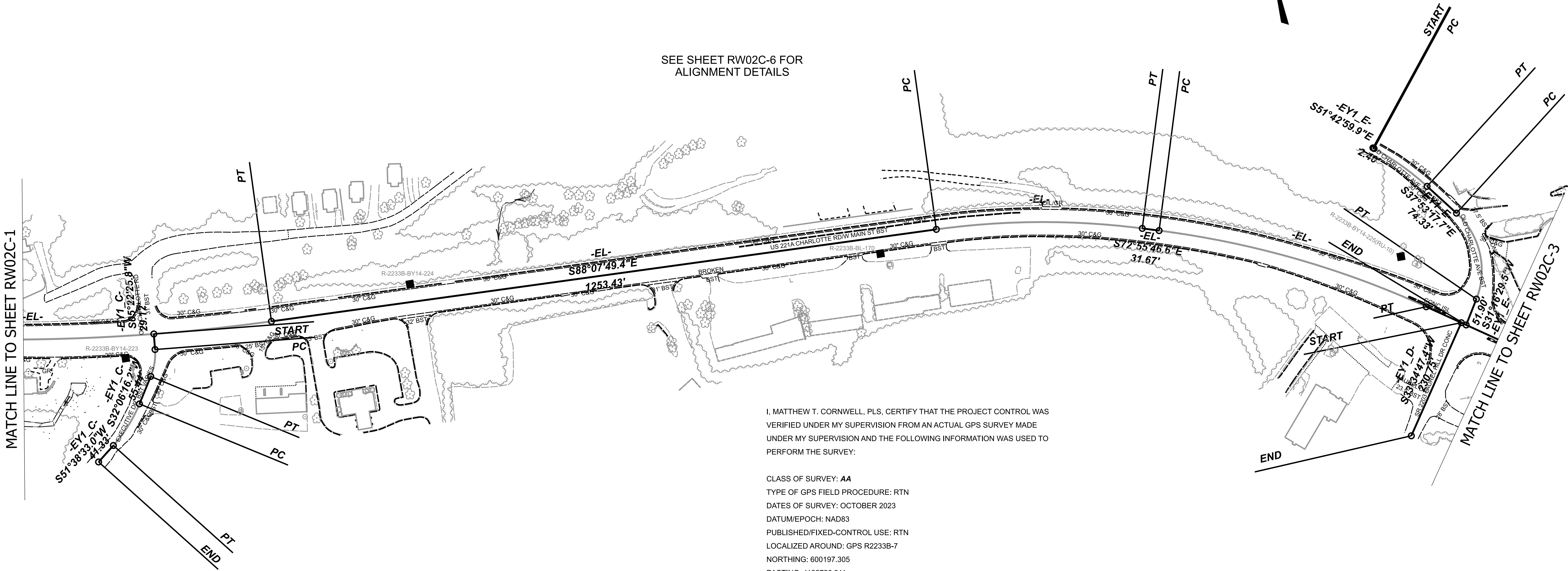
PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003



SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-6 FOR
ALIGNMENT DETAILS

I, MATTHEW T. CORNWELL, PLS, CERTIFY THAT THE PROJECT CONTROL WAS
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THIS 10/30/2023

Digitally signed by
Matthew Cornwell
E0D36F11473E475...

PROFESSIONAL LAND SURVEYOR L-4775

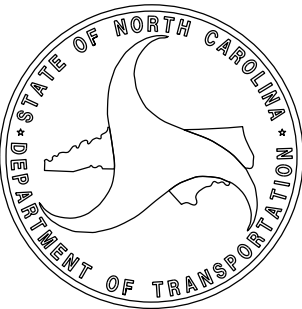
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HL-0065

R/W 02C-2

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR

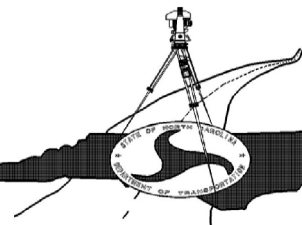


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2018 STANDARD
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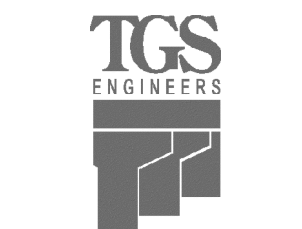
PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003



SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

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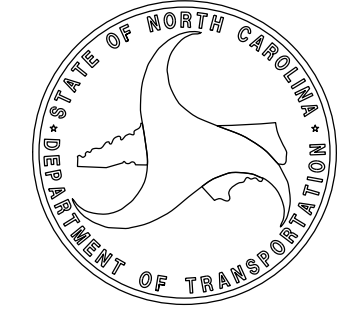
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THIS 10/30/2023
Signed by:
Matthew Cornwell
EBD38F11473E475
PROFESSIONAL LAND SURVEYOR L-4775

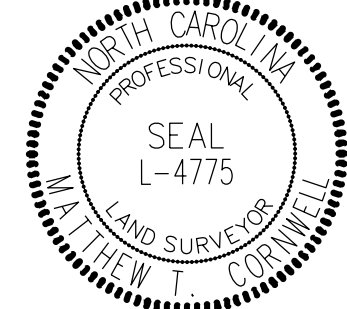
HL-0065

R/W 02C-3

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

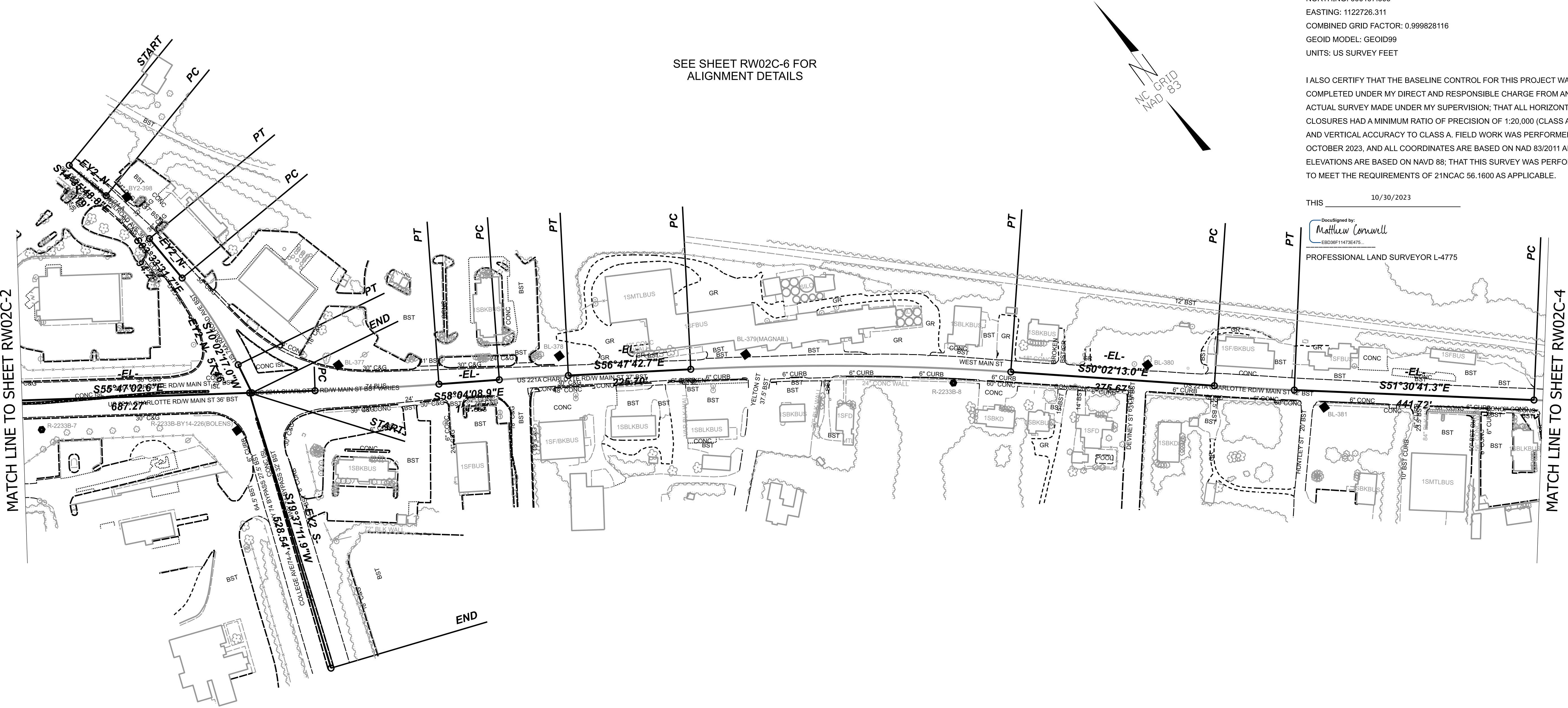


PROFESSIONAL LAND
SURVEYOR



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2018 STANDARD
SPECIFICATIONS



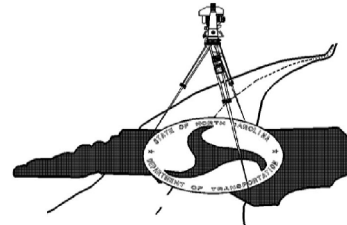
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TIP PROJECT: HL-0065

County: Rutherford

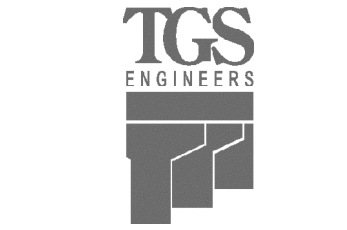
PREPARED FOR



LOCATION AND
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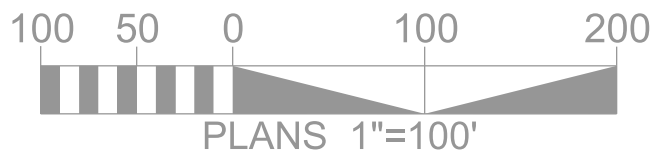
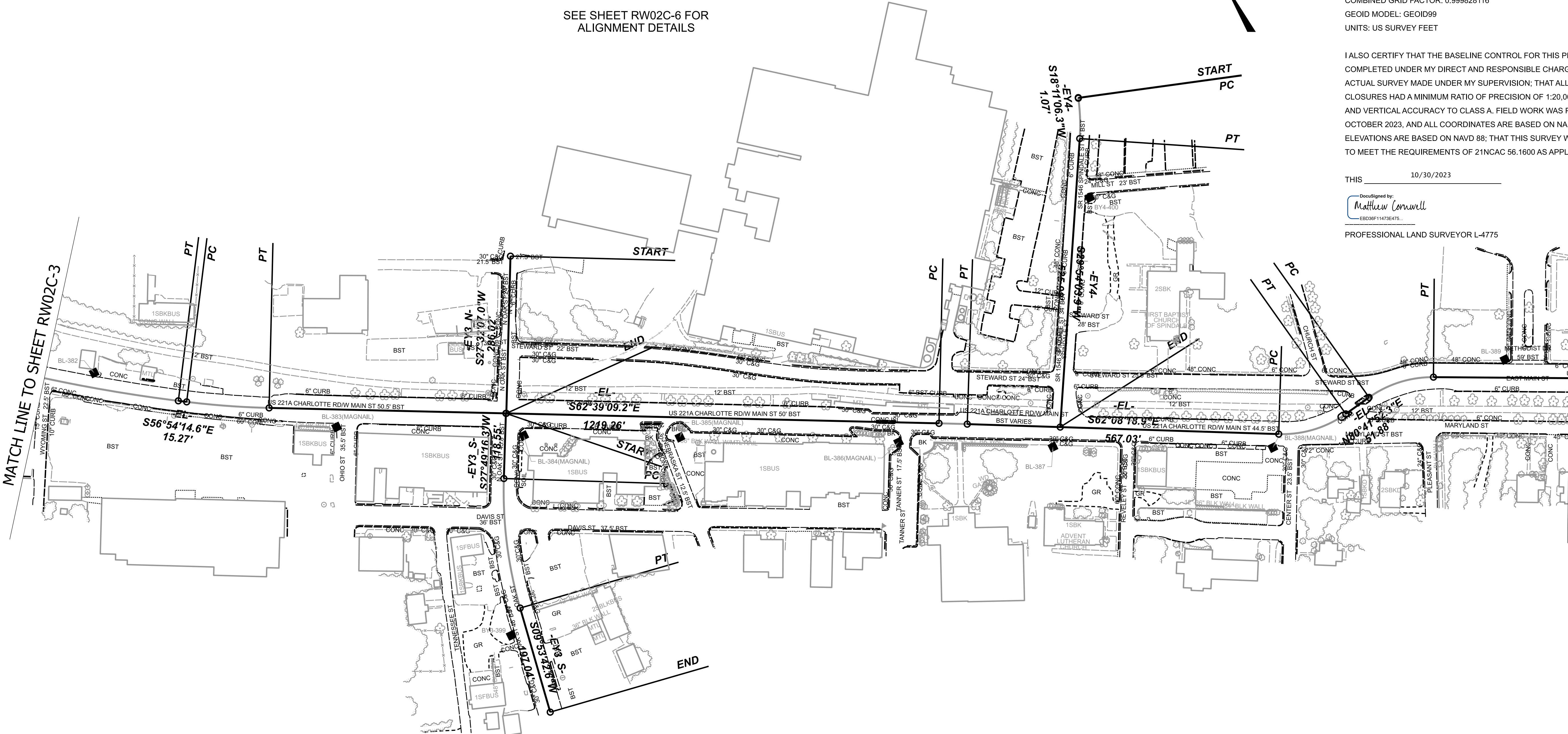
PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003



SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

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Digitally signed by:
Matthew Cornwell
E8D36F11475E475...
PROFESSIONAL LAND SURVEYOR L-4775

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HL-0065

R/W 02C-4

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

PROFESSIONAL LAND
SURVEYOR

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2018 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065
County: Rutherford

PREPARED FOR

LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
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HL-0065

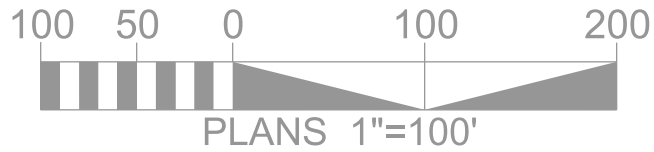
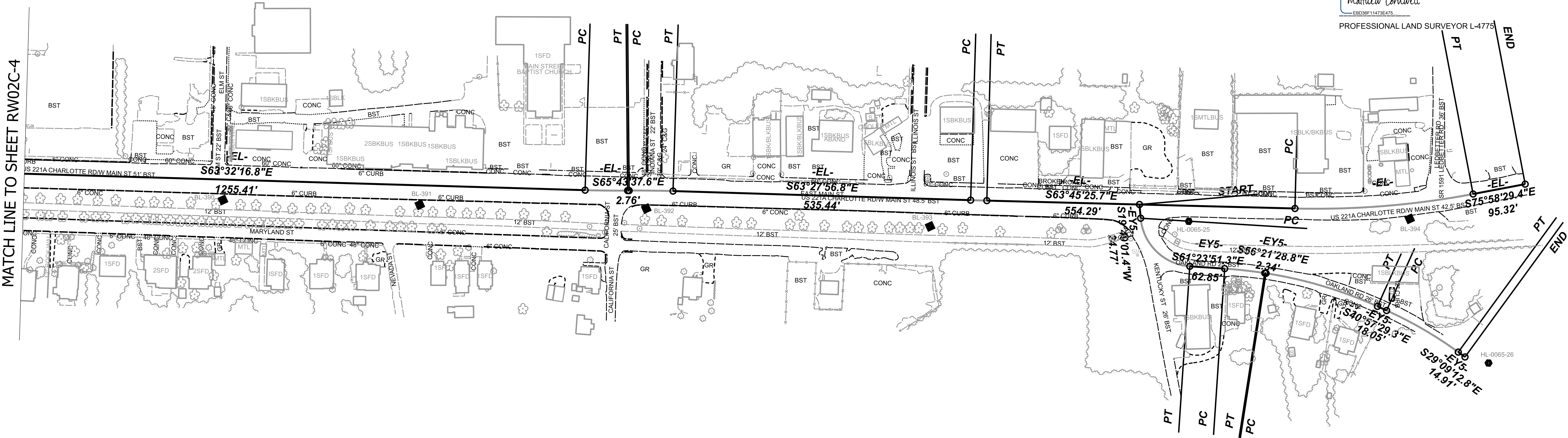
R/W02C-5

NORTH CAROLINA
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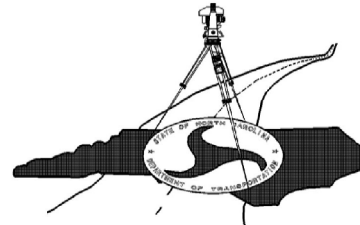


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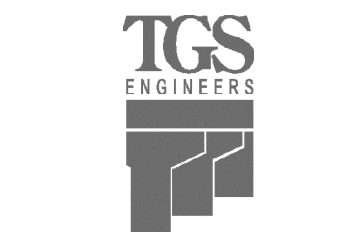
TIP PROJECT: HL-0065
County: Rutherford

PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY
TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003



SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EXISTING ALIGNMENT NAME:EL									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	601154.937	1118366.025							
LINE									
PC	600979.618	1119041.008	S75°26'23.2"E	697.380					
CURVE									
PT	600940.146	1119185.217			01°29'42.7" Right	01°00'00.0"	149.52	74.76	5729.58
LINE									
PC	600822.000	1119595.740	S73°56'40.5"E	427.185					
CURVE									
PT	600683.036	1120476.857			14°11'08.8" Left	01°35'10.5"	894.29	449.44	3612.00
LINE									
PC	600642.142	1121729.624	S88°07'49.4"E	1253.434					
CURVE									
PT	600578.860	1122109.003			15°12'02.7" Right	03°56'26.0"	385.75	194.01	1454.00
LINE									
PC	600569.563	1122139.278	S72°55'46.6"E	31.670					
CURVE									
PT	600345.067	1122606.933			17°08'44.0" Right	03°17'34.3"	520.69	262.30	1740.00
LINE									
PC	599958.609	1123175.249	S55°47'02.6"E	687.265					
CURVE									
PT	599833.918	1123366.719			02°17'06.3" Left	01°00'00.0"	228.51	114.27	5729.58
LINE									
PC	599774.974	1123461.303	S58°04'08.9"E	111.447					
CURVE									
PT	599706.400	1123568.661			01°16'26.1" Right	01°00'00.0"	127.39	63.70	5729.58
LINE									
PC	599582.800	1123757.508	S66°47'42.7"E	225.699					
CURVE									
PT	599231.501	1124230.809			06°45'29.7" Right	01°08'45.3"	589.77	295.23	5000.00
LINE									
PC	598990.213	1124518.742	S50°02'13.0"E	375.667					
CURVE									
PT	598896.969	1124632.965			01°28'28.3" Left	01°00'00.0"	147.45	73.73	5729.58
LINE									
PC	598622.061	1124978.714	S51°30'41.3"E	441.721					
CURVE									
PT	598467.992	1125192.397			05°23'33.3" Left	02°02'46.8"	263.53	131.86	2800.00
LINE									
PC	598459.656	1125205.187	S56°54'14.6"E	15.267					
CURVE									
PT	598383.936	1125335.173			05°44'54.6" Left	03°49'11.0"	150.50	75.31	1500.00
LINE									
PC	597823.826	1126418.165	S62°39'09.2"E	1219.260					
CURVE									
PT	597800.011	1126463.710			00°30'50.2" Right	01°00'00.0"	51.40	25.70	5729.58
LINE									
PC	597535.018	1126965.011	S62°08'18.9"E	567.031					
CURVE									
PT	597514.464	1127090.806			37°09'48.8" Left	28°38'52.4"	129.73	67.24	200.00
LINE									
PC	597522.850	1127142.005	N80°41'52.3"E	51.881					
CURVE									
PT	597504.526	1127263.454			35°45'50.9" Right	28°38'52.4"	124.84	64.53	200.00
LINE									
PC	596945.110	1128387.334	S63°32'16.8"E	1255.409					
CURVE									
PT	596912.375	1128456.377			02°11'20.8" Left	02°51'53.2"	76.41	38.21	2000.00
LINE									
PC	596911.241	1128458.890	S65°43'37.6"E	2.757					
CURVE									
PT	596877.381	1128530.188			02°15'40.8" Right	02°51'53.2"	78.94	39.47	2000.00
LINE									
PC	596638.181	1129009.233	S63°27'56.8"E	535.444					
CURVE									
PT	596625.231	1129035.334			00°17'28.9" Left	01°00'00.0"	29.14	14.57	5729.58
LINE									
PC	596380.135	1129532.495	S63°45'25.7"E	554.294					
CURVE									
PT	596269.510	1129834.237			12°13'03.7" Left	03°47'39.9"	321.99	161.61	1510.00
LINE									
END	596246.408	1129926.720	S75°58'29.4"E	95.324					

EXISTING ALIGNMENT NAME:EY									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	601737.860	1118028.042							
LINE									
PC	601542.448	1117976.836	S14°41'01.0"W	202.010					
CURVE									
PT	601360.238	1118019.625			55°47'53.8" Left	28°38'52.4"	194.77	105.89	200.00
LINE									
PC	601271.566	1118097.019	S41°06'52.8"E	117.697					
CURVE									
PT	601186.922	1118232.452			33°45'40.6" Left	20°50'05.4"	162.04	83.45	275.00
LINE									
END	601151.070	1118365.104	S74°52'33.4"E	137.411					

EXISTING ALIGNMENT NAME:EY_A									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	601071.476	1117375.723							
LINE									
PC	601180.223	1117585.918	N62°38'40.1"E	236.660					
CURVE									
PT	601221.197	1117667.716			01°29'51.7" Right	01°38'13.3"	91.49	45.75	3500.00
LINE									
END	601383.330	1118002.242	N64°08'31.8"E	371.746					

EXISTING ALIGNMENT NAME:EY1									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	601744.422	1118506.381							
LINE									
END	600933.811	1118313.375	S13°23'33.8"W	833.272					

EXISTING ALIGNMENT NAME:EY1_A									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	601150.349	1119229.447							
LINE									
END	600914.788	1119273.328	S10°33'08.5"E	239.613					

EXISTING ALIGNMENT NAME:EY1_B									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	600910.724	1119287.451							
LINE									
END	600706.036	1119228.493	S16°04'06.1"W	213.009					

EXISTING ALIGNMENT NAME:EY1_C									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	600696.988	1120256.423							
LINE									
PC	600667.995	1120253.696	S05°22'25.8"W	29.121					
CURVE						26°43'50.4" Right	52°05'13.5"	51.32	26.14
PT	600619.836	1120237.358							
LINE									
PC	600572.871	1120207.892	S32°06'16.2"W	55.443					
CURVE									
PT	600504.645	1120146.733				19°32'16.8" Right	21°13'14.4"	92.07	46.49
LINE									
END	600478.997	1120114.325	S51°38'33.0"W	41.329					

EXISTING ALIGNMENT NAME:EY1_D									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	600304.686	1122666.317							
LINE									
END	600112.440	1122538.686	S33°34'47.4"W	230.755					

EXISTING ALIGNMENT NAME:EY1_E									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	600654.116	1122558.899							
LINE									
PC	600652.631	1122560.780	S51°42'59.9"E	2.396					
CURVE									
PT	600566.361	1122646.458				13°49'42.2" Right	11°20'44.5"	121.88	61.24
LINE									
PC	600507.698	1122692.107	S37°53'17.7"E	74.331					
CURVE									
PT	600343.374	1122701.601				69°09'47.2" Right	39°30'51.6"	175.03	99.96
LINE									
END	600299.015	1122674.657	S31°16'29.5"W	51.901					

EXISTING ALIGNMENT NAME:EY1REV									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	601744.422	1118506.381							
LINE									
END	600594.052	1118232.478	S13°23'33.8"W	1182.529					

EXISTING ALIGNMENT NAME:EY2_N									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	600560.615	1123054.009							
LINE									
PC	600475.273	1123076.234	S14°35'48.8"E	88.188					
CURVE									
PT	600364.536	1123093.927				11°02'17.1" Right	09°49'39.9"	112.32	56.33
LINE									
PC	600270.440	1123099.779	S03°33'31.7"E	94.277					
CURVE									
PT	600080.631	1123089.035				13°35'48.7" Right	07°08'06.8"	190.56	95.73
LINE									
END	600024.046	1123079.019	S10°02'17.0"W	57.465					

EXISTING ALIGNMENT NAME:EY2_S									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	600026.411	1123075.541							
LINE			S19°37'11.9"W	528.539					
END	599528.558	1122898.068							

PROPOSED ALIGNMENT CONTROL SHEET

PROPOSED ALIGNMENT: L1												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	601747.6603	1118030.6097	S14°41'01.0"W	212.14							
PC	12+12.14	601542.4478	1117976.8359	S13°12'55.9"E	187.17	55°47'53.8"	28°38'52.4"	194.77	105.89	200.00		
PT	14+06.91	601360.2379	1118019.6249	S41°29'52.9"E	105.51							
PC	15+12.42	601281.2155	1118089.5332	S58°27'13.7"E	174.98	33°54'41.5"	19°05'54.9"	177.56	91.47	300.00		
PT	16+89.98	601189.6684	1118238.6543	S75°24'34.4"E	131.98							
END	18+21.96	601156.4216	1118366.3782									

PROPOSED ALIGNMENT: L2												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	601154.9375	1118366.0248	S75°26'23.2"E	697.38							
PC	16+97.38	600979.6179	1119041.0078	S74°41'31.9"E	149.51	01°29'42.7"	01°00'00.0"	149.52	74.76	5729.58		
PT	18+46.90	600940.1455	1119185.2173	S73°56'40.5"E	406.91							
PC	22+53.81	600827.6068	1119576.2589	S76°23'44.7"E	333.59	04°54'08.2"	01°28'08.8"	333.69	166.95	3900.00		
PCC	25+87.50	600749.1425	1119900.4857	S83°29'12.0"E	582.79	09°16'46.4"	01°35'25.9"	583.43	292.35	3602.33		
PT	31+70.93	600683.0338	1120479.5156	S88°07'35.2"E	1248.63							
PC	44+19.56	600642.2111	1121727.4802	S82°56'29.3"E	261.50	10°22'11.7"	03°57'36.3"	261.86	131.29	1446.83		
PCC	46+81.42	600610.0768	1121987.0016	S66°47'52.7"E	679.21	21°55'01.6"	03°12'25.9"	683.37	345.91	1786.47		
PT	53+64.79	600342.4846	1122611.2796	S55°50'21.9"E	330.69							
PC	56+95.49	600156.7952	1122884.9179	S56°38'58.2"E	169.66	01°37'12.7"	00°57'17.7"	169.67	84.84	6000.00		
END	58+65.15	600063.5229	1123026.6389									

PROPOSED ALIGNMENT: L3												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
PC	10+60.94	599977.3178	1123109.9854	S62°27'45.0"E	183.85	08°47'12.3"	04°46'28.7"	184.03	92.20	1200.00		
PT	12+44.97	599892.3190	1123273.0059	S58°04'08.9"E	221.87							
PC	14+66.84	599774.9739	1123461.3026	S57°25'55.8"E	127.39	01°16'26.1"	01°00'00.0"	127.39	63.70	5729.58		
PT	15+94.23	599706.4001	1123568.6610	S56°47'42.7"E	120.54							
PC	17+14.77	599640.3888	1123669.5185	S57°15'22.5"E	160.93	00°55'19.5"	00°34'22.6"	160.94	80.47	10000.00		
PRC	18+75.70	599553.3423	1123804.8799	S53°55'22.2"E	483.10	07°35'20.2"	01°34'11.1"	483.45	242.08	3650.00		
PT	23+59.15	599268.8585	1124195.3311	S50°07'42.0"E	426.31							
PC	27+85.47	598995.5637	1124522.5168	S50°46'52.4"E	182.32	01°18'20.8"	00°42'58.3"	182.32	91.16	8000.00		
PRC	29+67.78	598880.2889	1124663.7632	S51°16'44.6"E	186.73	00°18'36.4"	00°09'57.9"	186.73	93.37	34500.00		
PRC	31+54.52	598763.4829	1124809.4517	S52°00'41.8"E	298.21	01°46'30.9"	00°35'43.0"	298.22	149.12	9625.00		
PCC	34+52.74	598579.9340	1125044.4818	S57°50'41.6"E	474.16	09°53'28.7"	02°05'00.5"	474.75	237.97	2750.00		
PT	39+27.49	598327.5805	1125445.9096	S62°47'26.0"E	262.42							
HPI	41+89.90	598207.5915	1125679.2881	S62°47'26.0"E	869.47							
PC	50+59.37	597810.0324	1126452.5407	S61°39'28.6"E	197.67	02°15'54.8"	01°08'45.3"	197.68	98.85	5000.00		
PRC	52+57.05	597716.1938	1126626.5117	S61°19'55.0"E	140.78	01°36'47.8"	01°08'45.3"	140.78	70.40	5000.00		
PT	53+97.83	597648.6571	1126750.0336	S62°08'18.9"E	243.17							
PC	56+41.00	597535.0175	1126965.0114	S80°43'13.3"E	127.46	37°09'48.8"	28°38'52.4"	129.73	67.24	200.00		
PT	57+70.72	597514.4637	1127090.8064	N80°41'52.3"E	51.88							
PC	58+22.61	597522.8498	1127142.0054	S81°25'12.2"E	122.82	35°45'50.9"	28°38'52.4"	124.84	64.53	200.00		
PT	59+47.45	597504.5259	1127263.4544	S63°32'16.8"E	1243.45							
PC	71+90.90	596950.4377	1128376.6314	S64°38'18.1"E	134.43	02°12'02.7"	01°38'13.3"	134.44	67.23	3500.00		
PRC	73+25.33	596892.8583	1128498.1030	S64°34'45.5"E	141.64	02°19'08.0"	01°38'13.3"	141.65	70.84	3500.00		
PT	74+66.99	596832.0567	1128626.0317	S63°25'11.5"E	739.09							
PC	82+06.07	596501.3530	1129287.0038	S63°35'18.6"E	58.87	00°20'14.3"	00°34'22.6"	58.87	29.43	10000.00		
PT	82+64.94	596475.1674	1129339.7277	S63°45'25.7"E	214.92							
PC	84+79.86	596380.1348	1129532.4954	S69°51'57.6"E	321.38	12°13'03.7"	03°47'39.9"	321.99	161.61	1510.00		
PT	88+01.85	596269.5100	1129834.2369	S75°58'29.4"E	95.32							
END	88+97.18	596246.4083	1129926.7196									

PROPOSED ALIGNMENT: MUP												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	599169.5354	1124538.6789	S43°30'09.1"W	7.81							
PC	10+07.81	599163.8711	1124533.3031	S68°16'16.7"W	25.14	49°32'15.3"	190°59'09.4"	25.94	13.84	30.00		
PT	10+33.75	599154.5649	1124509.9518	N86°57'35.6"W	81.06							
PC	11+14.80	599158.8638	1124429.0090	S66°24'05.8"W	26.90	53°16'37.1"	190°59'09.4"	27.90	15.05	30.00		
PT	11+42.70	599148.0944	1124404.3571	S39°45'47.3"W	41.32							
END	11+84.02	599116.3349	1124377.9307									

PROPOSED ALIGNMENT: RAB												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
PC	10+00.00	600078.7890	1123066.6248	S45°00'00.0"W	84.85	90°00'00.0"	95°29'34.7"	94.25	60.00	60.00		
PCC	10+94.25	600018.7890	1123006.6248	S45°00'00.0"E	84.85	90°00'00.0"	95°29'34.7"	94.25	60.00	60.00		
PCC	11+88.50	599958.7890	1123066.6248	N70°21'27.5"E	40.34	39°17'04.9"	95°29'34.7"	41.14	21.42	60.00		
PCC	12+29.63	599972.3484	1123104.6153	N25°21'27.5"E	51.39	50°42'55.1"	95°29'34.7"	53.11	28.44	60.00		
PCC	12+82.74	600018.7890	1123126.6248	N45°00'00.0"W	84.85	90°00'00.0"	95°29'34.7"	94.25	60.00	60.00		

PROPOSED ALIGNMENT: Y1												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	601665.2086	1118487.5202	S13°23'33.8"W	105.33							
HPI	11+05.33	601562.7459	1118463.1238	S13°23'33.8"W	419.21							
END	15+24.54	601154.9375	1118366.0248									

PROPOSED ALIGNMENT: Y2												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	601154.9375	1118366.0248	S13°23'33.8"W	211.56							
HPI	12+11.56	600949.1287	1118317.0218	S13°23'33.8"W	365.00							
END	15+76.57	600594.0518	1118232.4782									

PROPOSED ALIGNMENT: Y3												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	601150.3486	1119229.4469	S10°33'08.5"E	96.74							
HPI	10+96.74	601055.2460	1119247.1631	S10°33'08.5"E	142.87							
END	12+39.61	600914.7879	1119273.3282									

I, MATTHEW T. CORNWELL, PLS, 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.

THIS 5/26/2026
Signed by: Matthew Cornwell
PROFESSIONAL LAND SURVEYOR L-4775

PROPOSED ALIGNMENT: Y4												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	600910.7236	1119287.4506	S16°04'06.1"W	138.66							
HPI	11+38.66	600777.4848	1119249.0729	S16°04'06.1"W	74.35							
END	12+13.01	600706.0362	1119228.4930									

PROPOSED ALIGNMENT: Y5												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	600697.2689	1120256.4497	S05°22'25.8"W	29.40							
PC	10+29.40	600667.9948	1120253.6959	S18°44'21.0"W	50.86	26°43'50.4"	52°05'13.5"	51.32	26.14	110.00		
PT	10+80.72	600619.8356	1120237.3582	S32°06'16.2"W	55.44							
PC	11+36.17	600572.8705	1120207.8920	S41°52'24.6"W	91.63	19°32'16.8"	21°13'14.4"	92.07	46.49	270.00		
PT	12+28.24	600504.6445	1120146.7332	S51°38'33.0"W	41.33							
END	12+69.57	600478.9970	1120114.3247									

PROPOSED ALIGNMENT: Y6												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	600304.9968	1122666.5229	S33°34'47.4"W	231.13							
END	12+31.13	600112.4403	1122538.6864									

PROPOSED ALIGNMENT CONTROL SHEET

PROPOSED ALIGNMENT: Y14												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	598439.2212	1125850.8906	S27°32'07.0"W	284.47							
END	12+84.47	598186.9771	1125719.3832									

PROPOSED ALIGNMENT: Y15												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	598187.3404	1125718.6766	S27°49'16.3"W	120.10							
PC	11+20.10	598081.1206	1125662.6230	S18°51'29.5"W	237.43	17°55'33.7"	07°31'08.9"	238.41	120.18	762.00		
END	13+58.51	597856.4314	1125585.8779									

PROPOSED ALIGNMENT: Y16												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	598061.7061	1125963.0354	S05°12'25.8"W	169.11							
END	11+69.11	597893.2988	1125947.6879									

PROPOSED ALIGNMENT: Y17												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	597854.3832	1126366.2784	S27°45'52.0"W	159.24							
END	11+59.24	597713.4791	1126292.0998									

PROPOSED ALIGNMENT: Y18												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	597926.7325	1126731.6975	S29°54'03.9"W	235.07							
END	12+35.07	597722.9531	1126614.5140									

PROPOSED ALIGNMENT: Y19												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	597662.7167	1126723.6278	S27°26'42.6"W	130.86							
END	11+30.86	597546.5884	1126663.3164									

PROPOSED ALIGNMENT: Y20												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	597524.6320	1126988.0827	S27°37'54.2"W	74.75							
HPI	10+74.75	597458.4053	1126953.4135	S27°37'54.2"W	40.30							
END	11+15.06	597422.6983	1126934.7212									

PROPOSED ALIGNMENT: Y21												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	597541.9015	1127474.8241	S26°15'38.8"W	127.65							
END	11+27.65	597427.4283	1127418.3454									

PROPOSED ALIGNMENT: Y22												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	597344.8800	1127847.9519	S25°59'35.2"W	117.54							
END	11+17.54	597239.2307	1127796.4390									

PROPOSED ALIGNMENT: Y23												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	596920.9370	1128437.3604	S27°04'37.0"W	126.40							
END	11+26.40	596808.3929	1128379.8258									

PROPOSED ALIGNMENT: Y24												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	597010.4468	1128554.5563	S24°54'28.6"W	130.41							
END	11+30.41	596892.1682	1128499.6333									

PROPOSED ALIGNMENT: Y25												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	596808.4420	1128984.7573	S26°25'59.1"W	139.39							
END	11+39.39	596683.6218	1128922.7061									

PROPOSED ALIGNMENT: Y26												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	597518.7554	1127006.3171	S63°16'36.0"E	154.12							
HPI	11+54.12	597449.4516	1127143.9726	S63°16'36.0"E	90.88							
END	12+45.00	597408.5831	1127225.1482									

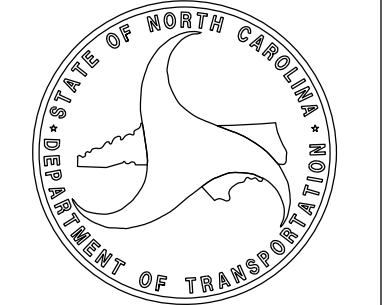
I, MATTHEW T. CORNWELL, PLS, CERTIFY THAT THE DATA COMPILED CAME FROM AVAILABLE SURVEYS/MAPPING PERFORMED BY OTHERS AND PROVIDED TO ME BY NCDOT AND DO NOT CERTIFY TO THE ACCURACY OR QUALITY OF THE INDIVIDUAL DATA SOURCES.

THIS 5/26/2026
Signed by: Matthew Cornwell
PROFESSIONAL LAND SURVEYOR L-4775

HL-0065

R/W 02D-2

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



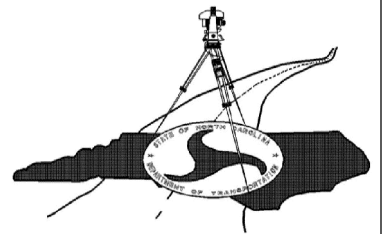
PROFESSIONAL LAND
SURVEYOR



DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL SIGNATURES
ARE COMPLETED

TIP PROJECT: HL-0065
County: Rutherford

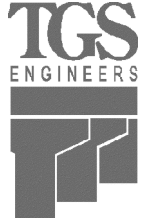
PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003



NOTES:

1. THE PROPOSED ALIGNMENT 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

PERMANENT ROW MARKER IRON PIN AND CAP: L1				
STATION	OFFSET	NORTH	EAST	
11+69.34	-21.0000	601578.5282	1118007.9994	MAGNAIL
11+69.35	-32.5000	601575.6033	1118019.1212	MAGNAIL
12+12.14	-32.5000	601534.2096	1118008.2744	
12+12.14	-34.7500	601533.6393	1118010.4510	
13+38.00	-39.0000	601433.0787	1118020.3756	
13+38.00	-34.7500	601431.5299	1118016.4179	
13+53.00	-51.0000	601427.2078	1118036.0091	
13+89.69	101.8241	601313.5760	1117926.6827	MAGNAIL
13+95.44	62.8517	601330.5525	1117962.6844	
14+06.58	-50.0000	601393.3035	1118057.1315	
14+13.00	46.0000	601325.2001	1117989.2046	MAGNAIL
14+13.00	34.4741	601332.8371	1117997.8373	
14+19.00	-39.0000	601377.0267	1118056.8433	
14+19.00	-34.7500	601374.2107	1118053.6602	
14+20.00	31.0542	601329.8602	1118005.0369	
14+20.00	46.0000	601319.9572	1117993.8428	
14+37.50	27.7500	601318.9417	1118019.1077	
15+12.42	-34.7500	601304.2406	1118115.5602	
15+13.00	21.7112	601266.3649	1118073.6841	MAGNAIL
15+13.00	27.7506	601262.3544	1118069.1684	MAGNAIL
15+90.16	-34.7497	601259.2020	1118167.2277	MAGNAIL
16+90.14	-33.2497	601221.8057	1118247.1846	
17+47.00	-33.2500	601207.4826	1118302.2105	MAGNAIL
17+52.18	25.8499	601148.9840	1118292.3345	MAGNAIL
17+52.18	34.7500	601140.3710	1118290.0925	MAGNAIL
17+63.00	39.7500	601132.8062	1118299.3052	
17+80.00	39.7500	601128.5238	1118315.7570	

PERMANENT ROW MARKER IRON PIN AND CAP: L2				
STATION	OFFSET	NORTH	EAST	
10+50.02	35.0000	601108.4856	1118405.6437	
10+50.02	46.0099	601097.8293	1118402.8758	
10+61.00	-59.0000	601196.7074	1118439.8982	NOT SET
10+61.00	-46.0000	601184.1249	1118436.6300	NOT SET
15+28.00	35.0000	600988.3237	1118868.2686	
15+28.00	40.0000	600983.4843	1118867.0116	
15+84.92	40.0000	600969.1747	1118922.1038	
15+84.92	44.6667	600964.6579	1118920.9306	
16+12.09	38.0000	600964.2808	1118948.9008	
16+12.09	44.6667	600957.8283	1118947.2248	
17+28.90	35.0000	600937.7827	1119062.5096	
17+28.92	37.9138	600934.9627	1119061.7759	
18+70.00	-43.0000	600975.0791	1119219.3102	
18+70.00	-35.0000	600967.3912	1119217.0977	
18+97.00	37.0000	600890.7323	1119223.1317	
18+97.00	33.0000	600894.5762	1119224.2380	
19+97.00	33.0000	600866.9196	1119320.3375	
20+05.00	45.0000	600853.1751	1119324.7066	MAGNAIL
20+14.00	33.0012	600862.2168	1119336.6740	NOT SET
20+14.00	39.0000	600856.4520	1119335.0150	
27+08.77	-40.0000	600767.1755	1120026.2452	
27+34.00	45.5046	600678.7687	1120037.7762	
27+95.00	53.5000	600661.8910	1120097.8007	
28+78.19	53.5000	600651.3231	1120181.5575	
28+98.70	-45.0000	600746.9378	1120212.8914	

PERMANENT ROW MARKER IRON PIN AND CAP: L3				
STATION	OFFSET	NORTH	EAST	
12+96.00	-46.0000	599904.3679	1123340.8454	
14+51.82	35.0000	599753.2103	1123430.0496	
14+58.00	-35.0000	599809.3513	1123472.3148	
14+58.00	-25.0735	599800.9268	1123467.0648	
14+66.84	35.0000	599745.2698	1123442.7912	MAGNAIL
15+94.23	35.0000	599677.1150	1123549.4939	MAGNAIL
17+14.77	30.0000	599615.2873	1123653.0895	
19+21.90	29.6053	599503.5945	1123827.6521	MAGNAIL
24+10.21	30.9271	599212.3943	1124214.6866	MAGNAIL
26+07.00	38.3069	599080.5724	1124360.9907	
26+85.00	34.0000	599033.8744	1124423.6153	
29+17.00	34.0000	598885.6250	1124602.7918	
30+02.67	33.0000	598832.7465	1124670.4287	
31+51.01	33.0000	598739.9924	1124786.0102	MAGNAIL
31+51.01	31.4992	598741.1605	1124786.9526	MAGNAIL
32+80.00	31.5000	598660.5850	1124888.2030	REBAR
32+80.00	33.0000	598659.4051	1124887.2768	
34+20.00	34.0000	598572.6791	1124997.8025	
34+52.74	34.0000	598552.8164	1125023.9724	MAGNAIL
37+67.00	-17.3370	598420.0139	1125314.2171	
38+45.00	-34.0000	598396.1492	1125389.5738	
39+27.49	-34.0000	598357.8181	1125461.4559	
41+80.00	-34.0000	598242.3576	1125686.0265	
51+98.00	28.2995	597720.1445	1126561.3023	MAGNAIL
51+98.00	55.0000	597696.7463	1126548.4400	
52+83.00	50.0000	597659.8279	1126624.7612	
52+83.00	26.3256	597680.4984	1126636.3029	MAGNAIL
61+60.75	-33.0000	597439.0178	1127469.1185	
67+36.00	-22.0000	597172.8377	1127979.1953	MAGNAIL
67+36.00	-32.5000	597182.2377	1127983.8742	MAGNAIL
70+18.74	-33.0000	597056.6936	1128237.2173	MAGNAIL
70+18.92	-22.0000	597046.7671	1128232.4744	MAGNAIL
71+90.90	-33.0000	596979.9802	1128391.3364	MAGNAIL
81+40.00	-21.4381	596550.0899	1129237.5060	MAGNAIL
81+40.00	-32.0000	596559.5354	1129242.2319	MAGNAIL
81+60.00	-21.5559	596541.2462	1129255.4449	MAGNAIL
81+60.00	-32.0000	596550.5865	1129260.1181	MAGNAIL
82+44.16	64.1088	596426.9324	1129292.6340	MAGNAIL
82+45.00	-21.9802	596503.6984	1129331.6083	
82+45.00	-32.0000	596512.6766	1129336.0567	
82+50.00	64.0000	596424.4234	1129297.9456	
82+50.00	48.0000	596438.7637	1129305.0418	MAGNAIL
82+63.00	-32.0000	596504.7253	1129352.1411	
82+63.00	-21.9998	596495.7567	1129347.7175	
82+70.00	47.9987	596429.8795	1129323.0403	
82+70.00	25.0000	596450.5077	1129333.2098	

PERMANENT ROW MARKER IRON PIN AND CAP: MUP				
STATION	OFFSET	NORTH	EAST	
10+04.82	25.0000	599183.2477	1124517.2261	MAGNAIL
10+04.92	-25.0000	599148.7551	1124553.4237	MAGNAIL
10+07.81	-25.0000	599146.6614	1124551.4367	
10+07.81	25.0000	599181.0808	1124515.1695	
10+33.75	25.0000	599179.5297	1124511.2777	
10+33.75	-25.0000	599129.6001	1124508.6259	
11+03.59	-25.0000	599133.3041	1124438.8830	
11+14.80	25.0000	599183.8286	1124430.3349	
11+42.70	25.0000	599164.0848	1124385.1397	
11+68.15	25.0000	599144.5185	1124368.8590	
11+68.37	-36.0000	599105.3383	1124415.6133	

PERMANENT ROW MARKER IRON PIN AND CAP: Y1				
STATION	OFFSET	NORTH	EAST	
13+77.00	30.0000	601305.4098	1118371.0136	
13+77.00	27.0000	601304.7149	1118373.9320	
14+19.23	39.0000	601266.4095	1118352.4760	MAGNAIL
14+63.00	-33.0919	601207.1349	1118412.4700	MAGNAIL
14+64.00	47.0000	601224.7133	1118334.3245	MAGNAIL
14+64.00	39.0000	601222.8603	1118342.1070	MAGNAIL
14+82.03	50.0448	601207.8810	1118327.1868	MAGNAIL

PERMANENT ROW MARKER IRON PIN AND CAP: Y2				
STATION	OFFSET	NORTH	EAST	
10+42.00	36.0000	601122.4182	1118321.2756	
10+59.00	-35.5000	601089.3193	1118386.8936	NOT SET
10+75.00	22.5000	601087.1886	1118326.7649	MAGNAIL
10+75.00	25.0000	601087.7677	1118324.3328	MAGNAIL
11+55.00	-35.5000	600995.9300	1118364.6576	MAGNAIL
11+55.00	-22.5000	600998.9411	1118352.0111	

PERMANENT ROW MARKER IRON PIN AND CAP: Y3				
STATION	OFFSET	NORTH	EAST	
11+70.00	13.0000	600980.8429	1119247.7996	MAGNAIL

PERMANENT ROW MARKER IRON PIN AND CAP: Y4				
STATION	OFFSET	NORTH	EAST	
10+45.00	28.6633	600875.4152	1119247.4518	
10+45.00	45.0000	600879.9369	1119231.7533	

PERMANENT ROW MARKER IRON PIN AND CAP: Y7				
STATION	OFFSET	NORTH	EAST	
11+00.00	-19.7267	600468.8003	1123098.3037	
11+00.00	-23.0000	600469.6230	1123101.4719	
11+04.67	30.0000	600451.9296	1123051.2965	
11+43.79	30.0000	600415.0926	1123059.8103	
12+55.00	-23.0000	600313.0919	1123128.0100	MAGNAIL

PERMANENT ROW MARKER IRON PIN AND CAP: Y10				
STATION	OFFSET	NORTH	EAST	
10+55.00	-18.1630	599032.1594	1124393.1956	
10+55.00	-25.0000	599027.8285	1124398.4861	
10+55.00	19.7725	599056.1891	1124363.8413	
10+55.00	25.0000	599059.5004	1124359.7963	

PERMANENT ROW MARKER IRON PIN AND CAP: Y11				
STATION	OFFSET	NORTH	EAST	
10+58.85	-18.1999	598828.7842	1124632.7854	
10+60.28	13.9382	598848.8196	1124607.6159	

PERMANENT ROW MARKER IRON PIN AND CAP: Y12				
STATION	OFFSET	NORTH	EAST	
10+31.37	14.0688	598596.9983	1124967.6524	
10+52.00	-11.7669	598566.2919	1124979.9053	MAGNAIL

PERMANENT ROW MARKER IRON PIN AND CAP: Y13				
STATION	OFFSET	NORTH	EAST	
10+33.71	24.6480	598300.7489	1125423.7603	

PERMANENT ROW MARKER IRON PIN AND CAP: Y14				
STATION	OFFSET	NORTH	EAST	
10+37.08	28.0000	598419.2857	1125808.9204	
10+37.08	24.0000	598417.4365	1125812.4673	
10+55.57	-20.0000	598380.6997	1125842.9353	
11+49.80	-28.0000	598293.4445	1125806.4668	
11+51.87	-28.0000	598291.6140	1125805.5125	MAGNAIL
12+28.00	28.0000	598249.9919	1125720.6591	

PERMANENT ROW MARKER IRON PIN AND CAP: Y20				
STATION	OFFSET	NORTH	EAST	
10+42.27	-16.0656	597479.7296	1126982.7105	

I, MATTHEW T. CORNWELL, PLS, 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 11/18/2025 TO 5/20/2026, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 5/26/2026

Signed by:
Matthew Cornwell
EBD36F11473EA75
PROFESSIONAL LAND SURVEYOR L-4775

PERMANENT ROW MARKER IRON PIN AND CAP: Y22				MAGNAIL
STATION	OFFSET	NORTH	EAST	
10+84.38	19.1841	597277.4424	1127793.7275	
10+85.21	-20.6179	597259.2565	1127829.1415	

CONTROLLED ACCESS CONTROL SHEET

PERMANENT ROW MARKER IRON PIN AND CAP: L2			
STATION	OFFSET	NORTH	EAST
57+00.00	75.9952	600091.3461	1122846.0291
57+00.00	-69.0510	600211.4283	1122927.3844
57+84.00	-68.4244	600164.8147	1122996.1063
58+17.49	76.8850	600024.8358	1122944.6907

MAGNAIL

CONCRETE MONUMENT FOUND

PERMANENT ROW MARKER IRON PIN AND CAP: L3			
STATION	OFFSET	NORTH	EAST
10+90.18	82.9386	599890.0508	1123102.2845
11+40.81	-58.9502	599996.0475	1123209.0576
11+45.63	-57.0000	599992.0143	1123212.6635
12+44.97	-57.0000	599940.6941	1123303.1530
12+44.97	66.7645	599835.6568	1123237.6945
12+44.97	-33.5839	599920.8212	1123290.7683

CONCRETE MONUMENT FOUND

PERMANENT ROW MARKER IRON PIN AND CAP: RAB			
STATION	OFFSET	NORTH	EAST
12+91.51	56.9172	600035.8108	1123182.2963
13+05.74	51.1317	600060.3531	1123169.6913
13+23.63	56.6512	600092.2687	1123157.2241

MAGNAIL

REBAR

PERMANENT ROW MARKER IRON PIN AND CAP: Y7			
STATION	OFFSET	NORTH	EAST
12+85.00	67.1634	600278.0210	1123039.9559
13+81.00	79.5123	600189.9462	1123027.1985
14+05.00	-39.0000	600158.0810	1123143.7215
14+65.44	-60.1949	600092.2687	1123157.2241

MAGNAIL

PERMANENT ROW MARKER IRON PIN AND CAP: Y8			
STATION	OFFSET	NORTH	EAST
10+65.44	66.4291	599918.5436	1122956.3530
10+88.00	69.1710	599898.3837	1122949.0034
11+28.00	-75.4618	599824.0720	1123079.3830

CONCRETE MONUMENT FOUND

I, MATTHEW T. CORNWELL, PLS, 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 11/18/2025 TO 5/20/2026, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

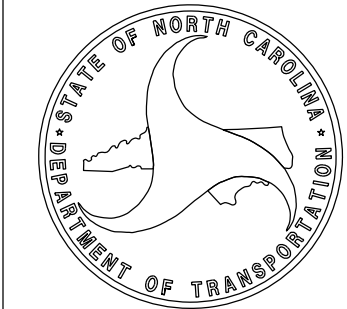
THIS 5/26/2026

Signed by: Matthew Cornwell
EBD039F11473E475

PROFESSIONAL LAND SURVEYOR L-4775

HL-0065
R/W 03E-2

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



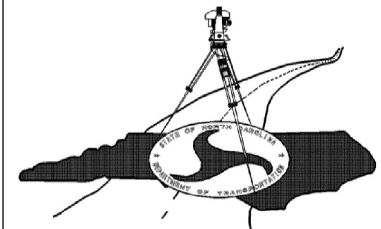
PROFESSIONAL LAND
SURVEYOR



DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL SIGNATURES
ARE COMPLETED

TIP PROJECT: HL-0065
County: Rutherford

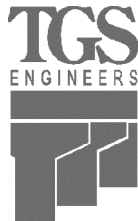
PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003



NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

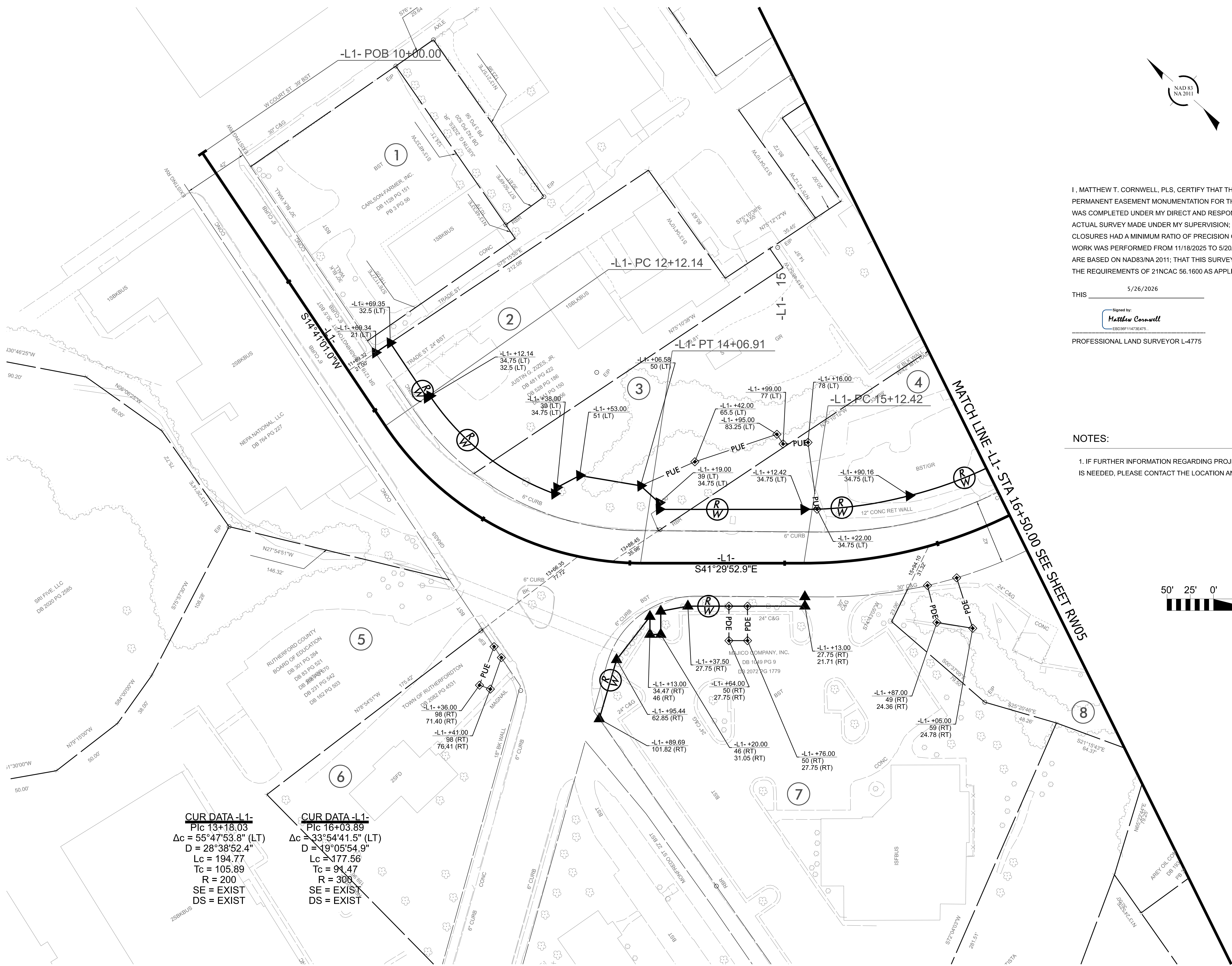
PERMANENT EASEMENT CONTROL SHEET

PERMANENT EASEMENT MARKER IRON PIN AND CAP: L1				
STATION	OFFSET	NORTH	EAST	
13+36.00	71.4028	601395.3773	1117916.5886	MAGNAIL
13+36.00	98.0000	601385.9327	1117891.7247	
13+41.00	76.4146	601387.1689	1117914.4377	MAGNAIL
13+41.00	98.0000	601379.0020	1117894.4570	
14+42.00	-65.5000	601377.3590	1118091.9309	MAGNAIL
14+64.00	27.7500	601299.0945	1118036.6658	
14+64.00	50.0000	601284.3518	1118020.0010	MAGNAIL
14+76.00	27.7500	601290.1068	1118044.6169	
14+76.00	50.0000	601275.3641	1118027.9521	MAGNAIL
14+95.00	-83.2500	601349.4242	1118140.3428	
14+99.00	-77.0000	601342.2870	1118138.3121	MAGNAIL
15+16.00	-78.0000	601330.9245	1118149.7203	
15+22.00	-34.7500	601297.9877	1118121.2725	NOT SET
15+87.00	49.0000	601191.5426	1118117.7657	
15+87.00	24.3633	601211.9051	1118131.6343	MAGNAIL
16+05.00	24.7839	601201.0773	1118147.8230	
16+05.00	59.0000	601171.6933	1118130.2924	MAGNAIL

PERMANENT EASEMENT MARKER IRON PIN AND CAP: L2							
STATION	OFFSET	NORTH	EAST				
15+45.18	-53.0000	601069.1780	1118907.0217	MAGNAIL			
15+45.74	-35.0000	601051.6164	1118903.0343				
16+35.00	-53.0000	601046.5979	1118993.9552				
16+35.00	-58.0000	601051.4374	1118995.2122	MAGNAIL			
16+78.16	38.0000	600947.6701	1119012.8524				
16+85.00	-58.0000	601038.8675	1119043.6064				
16+93.22	38.0000	600943.8836	1119027.4302	MAGNAIL			
17+00.00	-45.0000	601022.5037	1119054.8762				
17+11.00	69.0000	600909.4357	1119036.6811				
17+16.00	59.0000	600917.8510	1119044.0041	MAGNAIL			
18+53.00	-47.0000	600983.6248	1119204.0796	MAGNAIL			
20+73.00	-50.0000	600925.6630	1119416.3281				
20+73.00	-54.0000	600929.5070	1119417.4344				
21+43.00	-50.0000	600906.3034	1119483.5977	MAGNAIL			
21+43.00	-54.0000	600910.1474	1119484.7040				
21+68.88	-50.0000	600899.1451	1119508.4709				
21+70.27	-35.0000	600884.3465	1119505.6553	NOT SET			
22+34.00	-50.0000	600881.1358	1119571.0482	NOT SET			
22+34.00	-35.0000	600866.7209	1119566.8997	MAGNAIL			
22+52.00	-50.0000	600876.1576	1119588.3462				
22+52.00	-35.0000	600861.7427	1119584.1977				
24+44.00	49.0000	600731.7901	1119748.9984	MAGNAIL			
24+44.00	37.5603	600742.9248	1119751.6226	MAGNAIL			
25+73.00	55.0000	600698.0523	1119875.4259				
25+80.00	77.2499	600674.8382	1119878.0408				
26+00.00	45.6610	600701.9169	1119904.0774	MAGNAIL			
26+00.00	71.0000	600677.0395	1119899.2624				
27+47.00	-41.8038	600763.0960	1120063.8684				
27+78.00	-42.9708	600759.7913	1120094.3471	MAGNAIL			
28+60.00	-83.0000	600789.0027	1120179.4322				
28+60.00	-80.0000	600786.0239	1120179.0760				

PERMANENT EASEMENT MARKER IRON PIN AND CAP: L3				
STATION	OFFSET	NORTH	EAST	
14+25.00	63.0000	599743.6335	1123392.4764	MAGNAIL
14+58.08	58.5000	599729.9587	1123422.9279	
14+58.95	35.0000	599749.4382	1123436.1025	
15+10.00	75.0000	599688.6560	1123457.7033	MAGNAIL
15+32.00	64.0000	599686.2677	1123481.9443	MAGNAIL
15+32.00	76.0000	599676.1563	1123475.4821	MAGNAIL
15+38.00	-22.3098	599755.7475	1123533.4970	MAGNAIL
15+38.00	-34.0000	599765.5913	1123539.8026	
15+55.00	-34.0000	599756.3458	1123554.1887	
15+55.00	-21.8660	599746.1478	1123547.6134	REBAR
16+17.00	-35.4262	599723.5716	1123607.1148	
16+17.00	-52.5000	599737.8575	1123616.4650	
16+17.00	49.0000	599652.9306	1123560.8802	MAGNAIL
16+17.00	34.0554	599665.4350	1123569.0644	MAGNAIL
16+40.00	-34.7269	599710.3909	1123625.9764	
16+40.00	-52.5000	599725.2619	1123635.7095	
16+45.00	32.8940	599651.0731	1123593.1285	MAGNAIL
16+45.00	47.0000	599639.2703	1123585.4036	MAGNAIL
16+56.19	47.2861	599632.9032	1123594.6094	MAGNAIL
16+56.19	47.1528	599633.0136	1123594.6841	MAGNAIL
17+87.00	-29.0000	599625.4297	1123745.8044	MAGNAIL
17+87.00	-21.7397	599619.3263	1123741.8724	
18+04.00	-21.6027	599610.0364	1123756.0663	
18+04.00	-29.0000	599616.2617	1123760.0618	MAGNAIL
18+96.00	29.9238	599517.2455	1123805.8858	MAGNAIL
18+96.00	52.0015	599498.6464	1123793.9906	MAGNAIL
19+63.24	54.0015	599460.7587	1123848.3865	MAGNAIL
21+39.12	55.3322	599360.2149	1123989.4625	
21+39.84	51.3132	599363.0297	1123992.4168	
21+57.00	55.0000	599349.9936	1124003.8043	
21+70.00	66.0000	599333.5273	1124007.4519	
21+81.00	54.0000	599336.6029	1124023.3136	
22+20.00	52.0000	599314.8585	1124055.0677	
22+20.00	61.0000	599307.7363	1124049.5655	
22+40.00	69.0000	599289.3670	1124060.1697	

PERMANENT EASEMENT MARKER IRON PIN AND CAP: L3				
STATION	OFFSET	NORTH	EAST	
22+47.00	51.0000	599299.2963	1124076.6868	
24+23.00	58.0000	599183.4152	1124207.1492	
24+23.00	52.0000	599188.0201	1124210.9956	
24+41.96	57.0972	599171.9546	1124222.2779	
24+42.47	51.3570	599176.0298	1124226.3533	
25+28.00	52.0000	599120.7077	1124291.5813	
25+61.00	52.0000	599099.5524	1124316.9082	
26+07.00	52.5000	599069.6794	1124351.8919	
29+17.00	48.0000	598874.7342	1124593.9947	
31+06.00	51.0000	598754.1581	1124739.7065	
31+12.00	-16.3852	598802.9158	1124786.6043	MAGNAIL
31+19.00	207.0000	598624.4755	1124652.0357	
31+20.00	-75.0000	598843.5681	1124829.5841	
31+21.00	-16.4361	598797.3118	1124793.6524	MAGNAIL
31+22.00	48.0000	598746.4827	1124754.0366	
31+22.00	207.0000	598622.6062	1124654.3591	
31+51.00	48.2500	598728.1237	1124776.4344	
31+51.00	51.0000	598725.9826	1124774.7087	
33+67.00	33.0000	598605.8152	1124956.1903	MAGNAIL
33+67.00	51.0000	598591.5561	1124945.2049	MAGNAIL
34+35.00	34.0000	598563.5674	1125009.7846	MAGNAIL
34+40.00	-24.0000	598606.7474	1125048.8296	
34+40.00	-15.0987	598599.6550	1125043.4508	
34+50.00	53.0000	598539.3237	1125010.3154	MAGNAIL
35+01.00	-26.0000	598572.1699	1125098.5449	MAGNAIL
35+01.00	-15.2912	598563.5168	1125092.2360	MAGNAIL
36+27.00	53.0000	598435.0774	1125157.4756	MAGNAIL
36+27.00	34.0000	598450.9267	1125167.9541	MAGNAIL
37+67.00	-21.0000	598423.1683	1125316.0791	
38+45.00	-46.0000	598406.6520	1125395.3783	
38+84.51	-34.0000	598377.5193	1125423.8623	
38+85.51	-46.8758	598388.4156	1125430.7920	
39+94.00	34.0000	598266.9300	1125489.5165	MAGNAIL
39+94.00	25.9741	598274.0678	1125493.1863	MAGNAIL
42+85.00	-53.0000	598211.2444	1125788.0950	
42+89.00	-36.0000	598194.2966	1125783.8792	60D NAIL
42+96.00	-57.0000	598209.7721	1125799.7067	
43+36.46	26.7989	598116.7454	1125797.3744	MAGNAIL
43+36.61	44.9605	598100.5268	1125789.1997	MAGNAIL
43+46.28	-36.0000	598168.1060	1125834.8199	
44+49.00	-33.0000	598118.4695	1125924.8020	
44+49.00	-19.9302	598106.8459	1125918.8259	MAGNAIL
51+95.00	-33.0000	597775.3166	1126588.1849	MAGNAIL
51+95.00	-18.6584	597762.7447	1126581.2838	
52+01.00	54.8444	597695.4525	1126551.1146	
52+01.00	58.0000	597692.6881	1126549.5929	
52+16.78	-32.4311	597764.2283	1126807.1034	MAGNAIL
52+56.00	57.0000	597667.0814	1126597.5626	
52+56.00	63.0000	597661.8573	1126594.6114	
52+77.00	62.0000	597652.3151	1126613.6092	
52+77.00	56.0000	597657.5502	1126616.5406	
52+83.00	32.0000	597675.5440	1126633.5365	MAGNAIL
52+83.00	41.5000	597667.2494	1126628.9051	
53+02.00	-21.0855	597712.7015	1126675.9531	
53+02.00	-37.0000	597726.6260	1126683.6588	MAGNAIL
53+16.00	55.0000	597639.2937	1126651.5069	
53+16.00	50.0000	597643.6752	1126653.9156	
53+20.00	-48.0000	597727.6469	1126704.5985	MAGNAIL
53+32.00	40.0000	597644.6915	1126672.8786	
53+32.00	51.0000	597635.0351	1126667.6103	
55+42.00	-22.0000	597600.7328	1126887.7700	MAGNAIL
55+42.00	-28.0000	597606.0373	1126890.5740	
55+50.49	-76.5711	597645.0086	1126920.7822	NOT SET
56+33.00	25.0000	597516.6535	1126946.2566	MAGNAIL
56+35.00	-22.0000	597557.2707	1126969.9895	MAGNAIL
56+35.00	-44.0000	597576.7204	1126980.2700	MAGNAIL
56+35.00	-28.0000	597562.5751	1126972.7935	
56+38.00	-113.3143	597636.5979	1127015.3161	60D NAIL
56+38.00	-159.0000	597676.9877	1127036.6666	
56+39.00	-75.0000	597602.2576	1126998.2945	NOT SET
56+39.00	-78.0675	597604.9695	1126999.7281	NOT SET
56+52.00	-28.0000	597555.5825	1126985.5786	NOT SET
56+75.00	-67.0000	597585.4300	1127017.3150	
56+81.84	-75.9489	597592.6846	1127023.9624	
56+83.00	-111.7601	597626.9398	1127034.4095	60D NAIL
57+24.00	-156.0000	597667.9453	1127055.3452	
57+42.00	-30.0000	597541.8635	1127061.6628	MAGNAIL
57+42.00	-22.0000	597533.8649	1127061.8127	MAGNAIL
57+61.00	-41.0000	597553.8609	1127076.5230	MAGNAIL
59+11.00	30.0000	597488.8771	1127221.2522	
61+60.71	-51.0000	597455.1505	1127477.1021	
63+73.16	-52.6880	597361.9926	1127668.0468	
63+73.25	-33.0000	597344.3297	1127659.3494	
64+28.00	33.0000	597260.8462	1127678.9562	
64+28.00	25.0000	597268.0080	1127682.5211	MAGNAIL
66+57.50	46.0000	597146.9420	1127878.6187	
66+64.00	25.0000	597162.8454	1127893.7954	MAGNAIL
66+77.00	52.0000	597132.8797	1127893.4054	
66+86.00	25.0000	597153.0405	1127913.4938	MAGNAIL
66+92.00	-32.5000	597201.8442	1127944.4848	MAGNAIL
66+92.00	-42.2500	597210.5727	1127948.8287	MAGNAIL
69+87.00	-32.0000	597069.9434	1128208.3541	MAGNAIL
69+87.00	-22.0000	597060.9911	1128203.8981	



CUR DATA -L1-
P/c 13+18.03
 $\Delta c = 55^\circ 47' 53.8''$ (LT)
 $D = 28^\circ 38' 52.4''$
 $Lc = 194.77$
 $Tc = 105.89$
 $R = 200$
SE = EXIST
DS = EXIST

CUR DATA -L1-
P/c 16+03.89
 $\Delta c = 33^\circ 54' 41.5''$ (LT)
 $D = 19^\circ 05' 54.9''$
 $Lc = 177.56$
 $Tc = 94.47$
 $R = 300$
SE = EXIST
DS = EXIST

I, MATTHEW T. CORNWELL, PLS, 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 11/18/2025 TO 5/20/2026, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 5/26/2026
Signed by:
Matthew Cornwell
EBD39F11473E475
PROFESSIONAL LAND SURVEYOR L-4775

NOTES:
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.



HL-0065

R/W 04

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

PROFESSIONAL LAND
SURVEYOR

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ARE COMPLETED

2024 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065

County: Rutherford

PREPARED FOR

LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003

5/26/2026

PROFESSIONAL LAND SURVEYOR L-4775

NOTES:

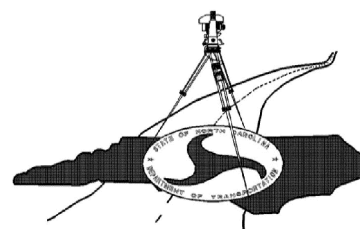
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL
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2024 STANDARD SPECIFICATIONS

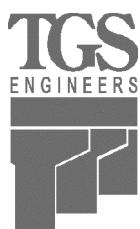
TIP PROJECT: HL-0065
County: Rutherford

PREPARED FOR

LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003



MATCH LINE -L2- STA 15+00.00 SEE SHEET RW05

MATCH LINE -L2- STA 22+50.00 SEE SHEET RW07

NOTES:

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CUR DATA -L2-
Plc 17+72.14
 $\Delta c = 01^{\circ}29'42.7''$ (RT)
 $D = 01^{\circ}00'00.0''$
 $Lc = 149.52$
 $Tc = 74.76$
 $R = 5,729.58$
SE = EXIST
DS = EXIST

I, MATTHEW T. CORNWELL, PLS, 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 11/18/2025 TO 5/20/2026, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 5/26/2026

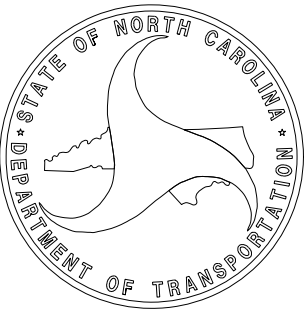
Signed by:
Matthew Cornwell
E8030611473E475

PROFESSIONAL LAND SURVEYOR L-4775

HL-0065

R/W 06

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR

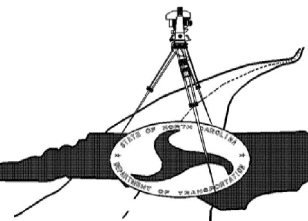


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2024 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065
County: Rutherford

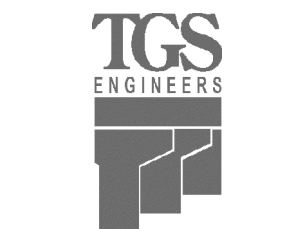
PREPARED FOR



LOCATION AND
SURVEYS UNIT

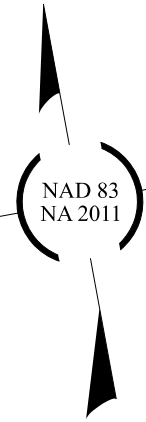
PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003



I, MATTHEW T. CORNWELL, PLS, 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 11/18/2025 TO 5/20/2026, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 5/26/2026
Signed by:
Matthew Cornwell
EBD38F11473E475
PROFESSIONAL LAND SURVEYOR L-4775



HL-0065

R/W 07

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

PROFESSIONAL LAND
SURVEYOR

SEAL
L-4775
MATTHEW T. CORNWELL

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2024 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065
County: Rutherford

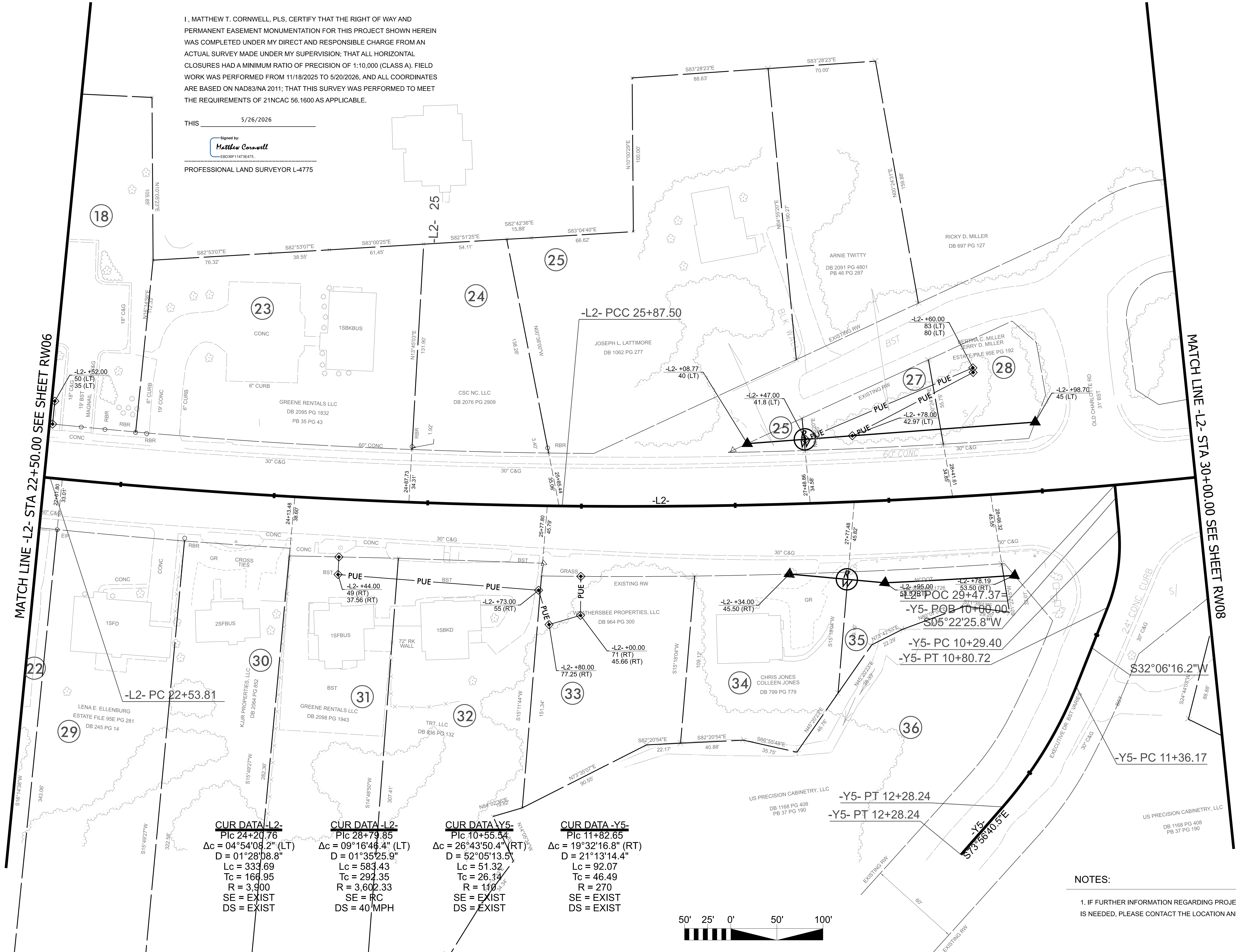
PREPARED FOR

LOCATION AND SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003

TGS
ENGINEERS



CUR DATA -L2-
Plc 24+20.76
Δc = 04°54'08.2" (LT)
D = 01°28'08.8"
Lc = 333.69
Tc = 166.95
R = 3,900
SE = EXIST
DS = EXIST

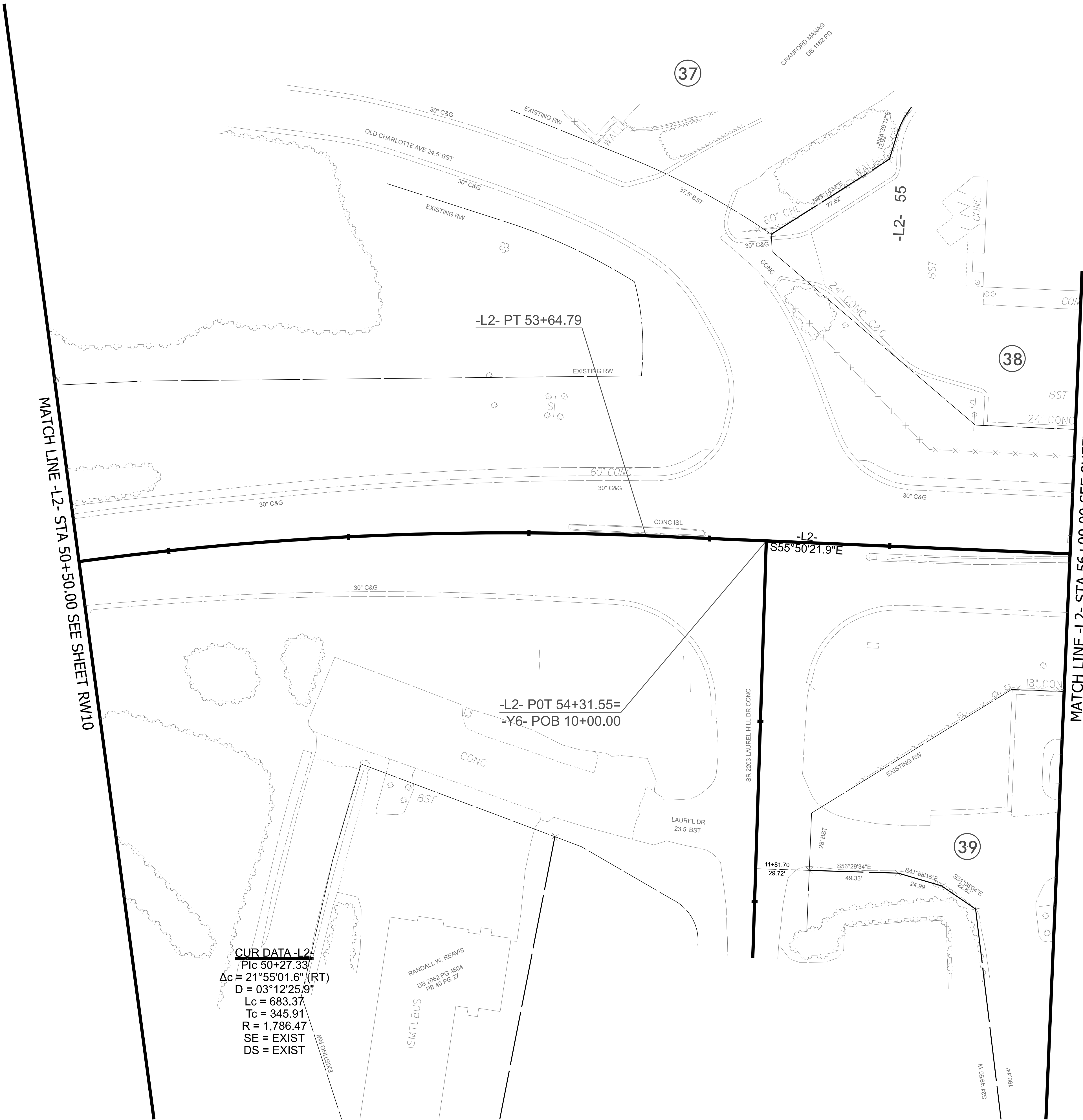
CUR DATA -L2-
Plc 28+79.85
Δc = 09°16'46.4" (LT)
D = 01°35'25.9"
Lc = 583.43
Tc = 292.35
R = 3,602.33
SE = RC
DS = 40 MPH

CUR DATA -Y5-
Plc 10+55.54
Δc = 26°43'50.4" (RT)
D = 52°05'13.5"
Lc = 51.32
Tc = 26.14
R = 110
SE = EXIST
DS = EXIST

CUR DATA -Y5-
Plc 11+82.65
Δc = 19°32'16.8" (RT)
D = 21°13'14.4"
Lc = 92.07
Tc = 46.49
R = 270
SE = EXIST
DS = EXIST



NOTES:
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NOTES:

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THIS 5/26/2026

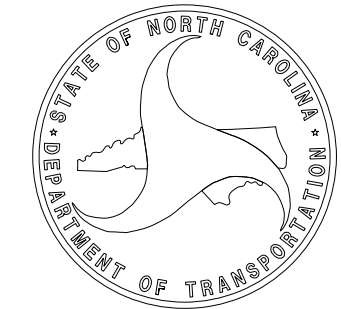
Signed by:
Matthew Cornwell
EBC39F11473E475

PROFESSIONAL LAND SURVEYOR L-4775

HL-0065

R/W II

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR

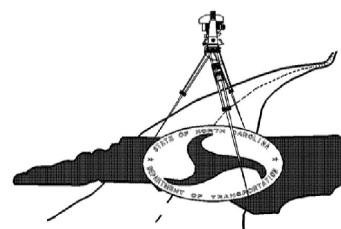


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2024 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065
County: Rutherford

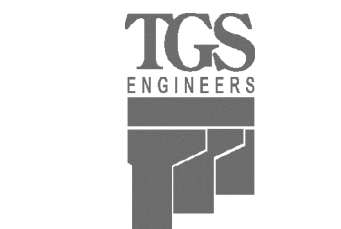
PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003

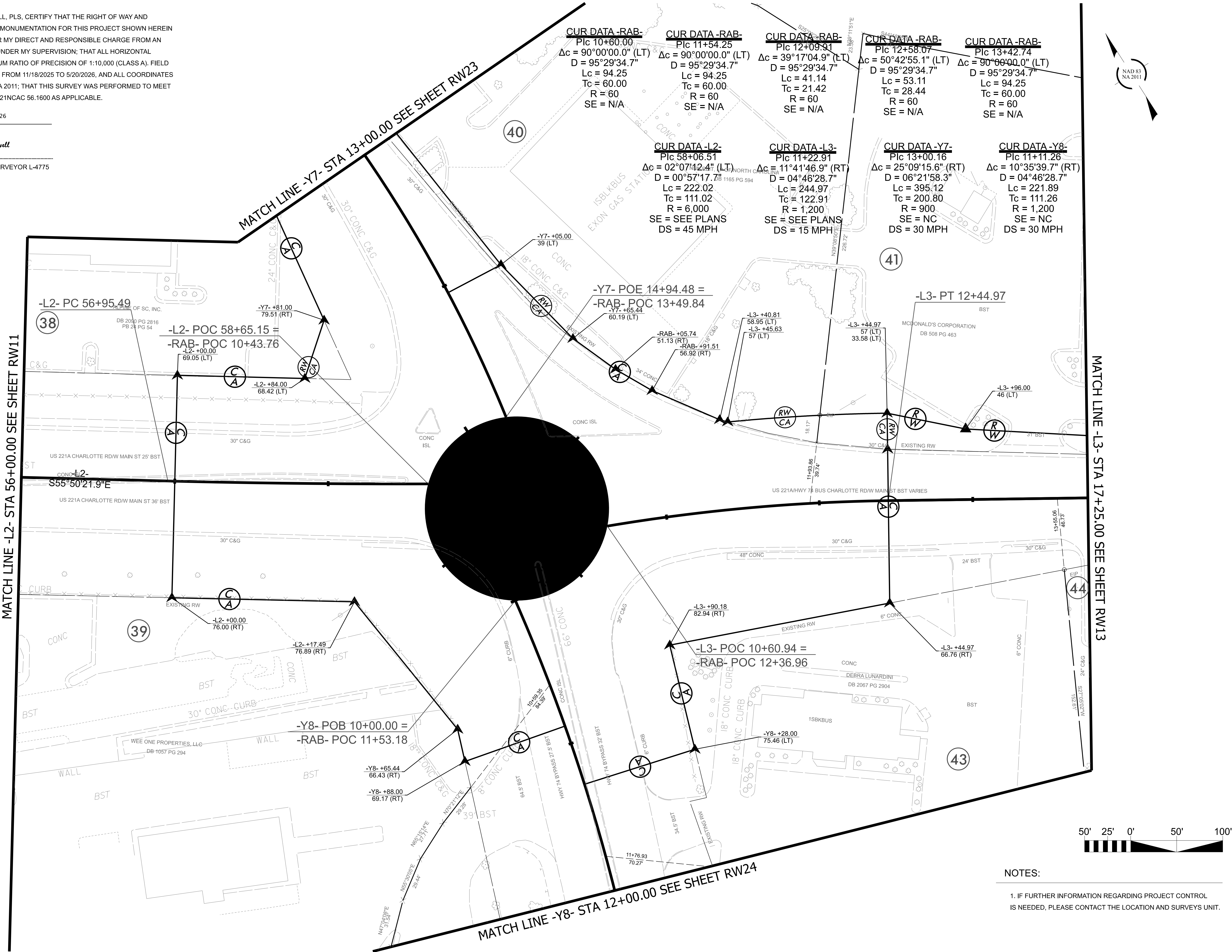


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THIS 5/26/2026

Signed by:
Matthew Cornwell
EBD39F11472E475.

PROFESSIONAL LAND SURVEYOR L-4775



NOTES:
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HL-0065

R/W 12

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

PROFESSIONAL LAND
SURVEYOR

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2024 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065

County: Rutherford

PREPARED FOR

LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003

I, MATTHEW T. CORNWELL, PLS, 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 11/18/2025 TO 5/20/2026, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 5/26/2026

Signed by:
Matthew Cornwell
E8036F11473E475
PROFESSIONAL LAND SURVEYOR L-4775

NOTES:

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MATCH LINE -L3- STA 17+25.00 SEE SHEET RW12

MATCH LINE -L3- STA 21+25.00 SEE SHEET RW14

CUR DATA -L3-
P/c 15+30.53
 $\Delta c = 01^{\circ}16'26.1''$ (RT)
D = 01°00'00.0"
Lc = 127.39
Tc = 63.70
R = 5,729.58
SE = EXIST
DS = EXIST

CUR DATA -L3-
P/c 17+95.24
 $\Delta c = 00^{\circ}55'19.5''$ (LT)
D = 00°34'22.6"
Lc = 160.94
Tc = 80.47
R = 10,000
SE = EXIST
DS = EXIST

CUR DATA -L3-
P/c 21+17.78
 $\Delta c = 07^{\circ}35'20.2''$ (RT)
D = 01°34'11.1"
Lc = 483.45
Tc = 242.08
R = 3,650
SE = EXIST
DS = EXIST

HL-0065

R/W13

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

PROFESSIONAL LAND
SURVEYOR

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2024 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065
County: Rutherford

PREPARED FOR

LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003

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THIS 5/26/2026

Signed by:
Matthew Cornwell
EBD36P11473E475
PROFESSIONAL LAND SURVEYOR L-4775

VEGARD LILLEHUAG
DB 1100 PG 431
PB 2 PG 34



MATCH LINE -L3- STA 21+25.00 SEE SHEET RW13

MATCH LINE -L3- STA 29+00.00 SEE SHEET RW15

CUR DATA -L3-
P/c 21+17.78
 $\Delta c = 07^{\circ}35'20.2''$ (RT)
D = $01^{\circ}34'11.1''$
Lc = 483.45
Tc = 242.08
R = 3,650
SE = EXIST
DS = EXIST

CUR DATA -L3-
P/c 28+76.63
 $\Delta c = 01^{\circ}18'20.8''$ (LT)
D = $00^{\circ}42'58.3''$
Lc = 182.32
Tc = 91.16
R = 8,000
SE = EXIST
DS = EXIST

CUR DATA -MUP-
P/c 10+21.65
 $\Delta c = 49^{\circ}32'15.3''$ (RT)
D = $190^{\circ}59'09.4''$
Lc = 25.94
Tc = 13.84
R = 30

CUR DATA -MUP-
P/c 11+29.85
 $\Delta c = 53^{\circ}16'37.1''$ (LT)
D = $190^{\circ}59'09.4''$
Lc = 27.90
Tc = 15.05
R = 30

NOTES:

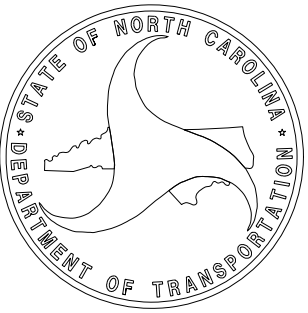
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HL-0065

R/W 14

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR

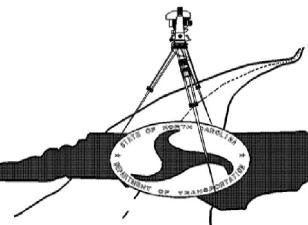


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2024 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065
County: Rutherford

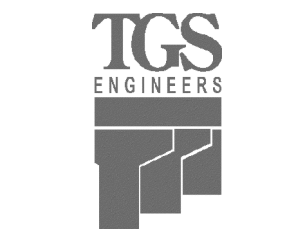
PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003



MATCH LINE -L3- STA 29+00.00 SEE SHEET RW14

MATCH LINE -L3- STA 36+50.00 SEE SHEET RW16

I, MATTHEW T. CORNWELL, PLS, 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 11/18/2025 TO 5/20/2026, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 5/26/2026
Signed by: Matthew Cornwell
EBO36F11473E475.
PROFESSIONAL LAND SURVEYOR L-4775

CHARLES D. TAYLOR
ESTATE FILE 19E PG 468
DB 873 PG 324

NAD 83
NA 2011

A. CLYDE WILSON, JR.
DB 894 PG 324

-L3- POC 33+91.04=
-Y12- POB 10+00.00

-L3- POC 29+60.07 =
-Y11- POB 10+00.00

-L3- PRC 29+67.78

-L3- PRC 31+54.52

-L3- PCC 34+54.74

CUR DATA -L3-
Pic 28+76.63
Δc = 01°18'20.8" (LT)
D = 00°42'58.3"
Lc = 182.32
Tc = 91.16
R = 8,000
SE = EXIST
DS = EXIST

CUR DATA -L3-
Pic 30+61.15
Δc = 00°18'36.4" (RT)
D = 00°09'57.9"
Lc = 186.73
Tc = 93.37
R = 34,500
SE = EXIST
DS = EXIST

CUR DATA -L3-
Pic 33+03.64
Δc = 01°46'30.9" (LT)
D = 00°35'43.0"
Lc = 298.22
Tc = 149.12
R = 9,625
SE = EXIST
DS = EXIST

CUR DATA -L3-
Pic 36+90.70
Δc = 09°53'28.7" (LT)
D = 02°05'00.5"
Lc = 474.75
Tc = 237.97
R = 2,750
SE = EXIST
DS = EXIST

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.



HL-0065

R/W 15

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

PROFESSIONAL LAND
SURVEYOR

SEAL
L-4775

DOCUMENT NOT CONSIDERED
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ARE COMPLETED

2024 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065
County: Rutherford

PREPARED FOR

LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003

TGS
ENGINEERS

I, MATTHEW T. CORNWELL, PLS, 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 11/18/2025 TO 5/20/2026, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 5/26/2026

Signed by:
Matthew Cornwell
EB036F11473E475
PROFESSIONAL LAND SURVEYOR L-4775



NOTES:

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MATCH LINE -L3- STA 36+50.00 SEE SHEET RW15

MATCH LINE -L3- STA 44+00.00 SEE SHEET RW17

CUR DATA -L3-
Plc 36+90.70
 $\Delta c = 09^{\circ}53'28.7''$ (LT)
D = 02°05'00.5"
Lc = 474.75
Tc = 237.97
R = 2,750
SE = EXIST
DS = EXIST

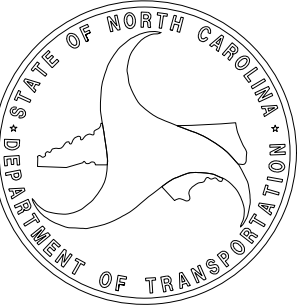
CUR DATA -Y15-
Plc 12+40.29
 $\Delta c = 17^{\circ}55'33.7''$ (LT)
D = 07°31'08.9"
Lc = 238.41
Tc = 120.18
R = 762
SE = EXIST
DS = EXIST



HL-0065

R/W 16

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR

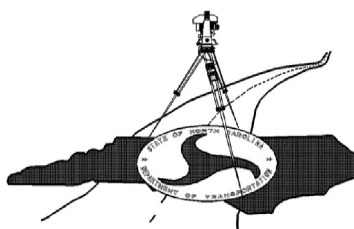


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ARE COMPLETED

2024 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065
County: Rutherford

PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003



MATCH LINE -L3- STA 44+00.00 SEE SHEET RW16



MATCH LINE -L3- STA 50+00.00 SEE SHEET RW18

I, MATTHEW T. CORNWELL, PLS, 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 11/18/2025 TO 5/20/2026, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 5/26/2026

Signed by:
Matthew Cornwell
EBD039F11473E475

PROFESSIONAL LAND SURVEYOR L-4775

NOTES:

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HL-0065

R/W17

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

PROFESSIONAL LAND
SURVEYOR

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2024 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065

County: Rutherford

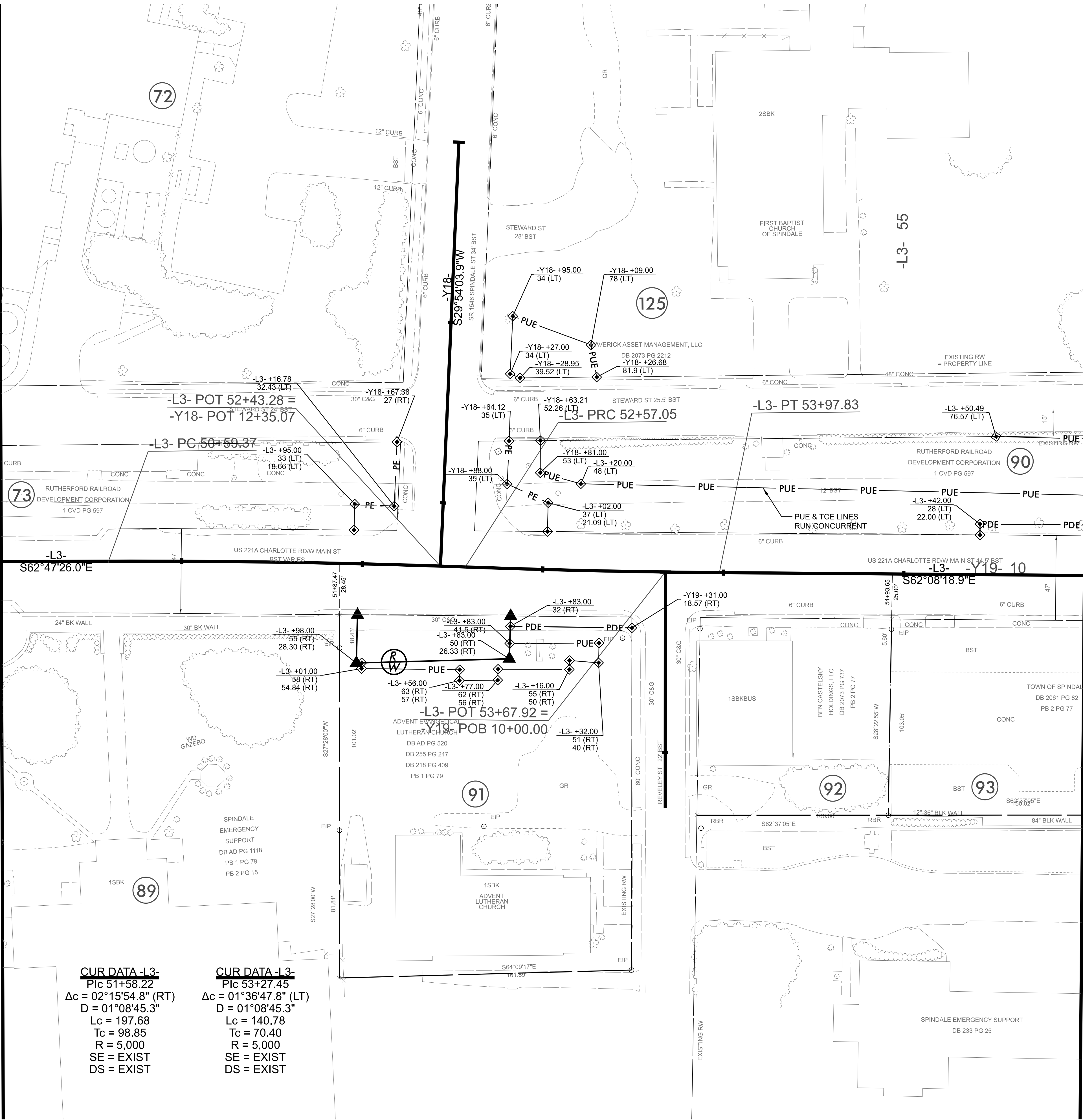
PREPARED FOR

LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003

MATCH LINE -L3- STA 50+00.00 SEE SHEET RW17



MATCH LINE -L3- STA 56+00.00 SEE SHEET RW19

I, MATTHEW T. CORNWELL, PLS, 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 11/18/2025 TO 5/20/2026, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 5/26/2026

Signed by:
Matthew Cornwell
PROFESSIONAL LAND SURVEYOR L-4775

NOTES:
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

HL-0065

R/W 18

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

PROFESSIONAL LAND
SURVEYOR

SEAL
L-4775

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL SIGNATURES
ARE COMPLETED

2024 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065

County: Rutherford

PREPARED FOR

LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003

TGS
ENGINEERS



CUR DATA -L3-
P/c 57+08.24
 $\Delta c = 37^{\circ}09'48.8''$ (LT)
D = 28°38'52.4"
Lc = 129.73
Tc = 67.24
R = 200
SE = EXIST
DS = EXIST

CUR DATA -L3-
P/c 58+87.13
 $\Delta c = 35^{\circ}45'50.9''$ (RT)
D = 28°38'52.4"
Lc = 124.84
Tc = 64.53
R = 200
SE = EXIST
DS = EXIST

I, MATTHEW T. CORNWELL, PLS, 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 11/18/2025 TO 5/20/2026, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 5/26/2026

Signed by:
Matthew Cornwell
EBC39F11473E4175
PROFESSIONAL LAND SURVEYOR L-4775

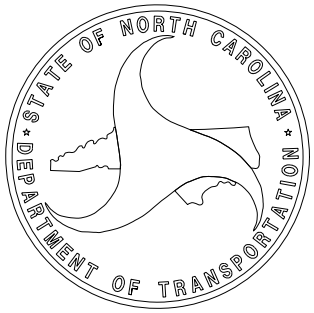
NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

HL-0065

R/W 19

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR



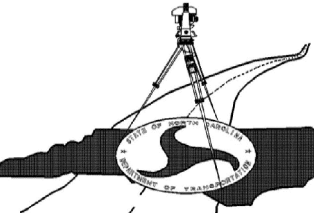
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2024 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065

County: Rutherford

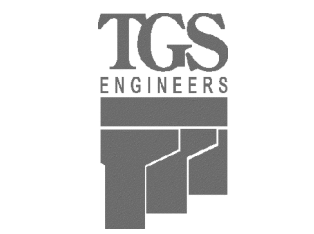
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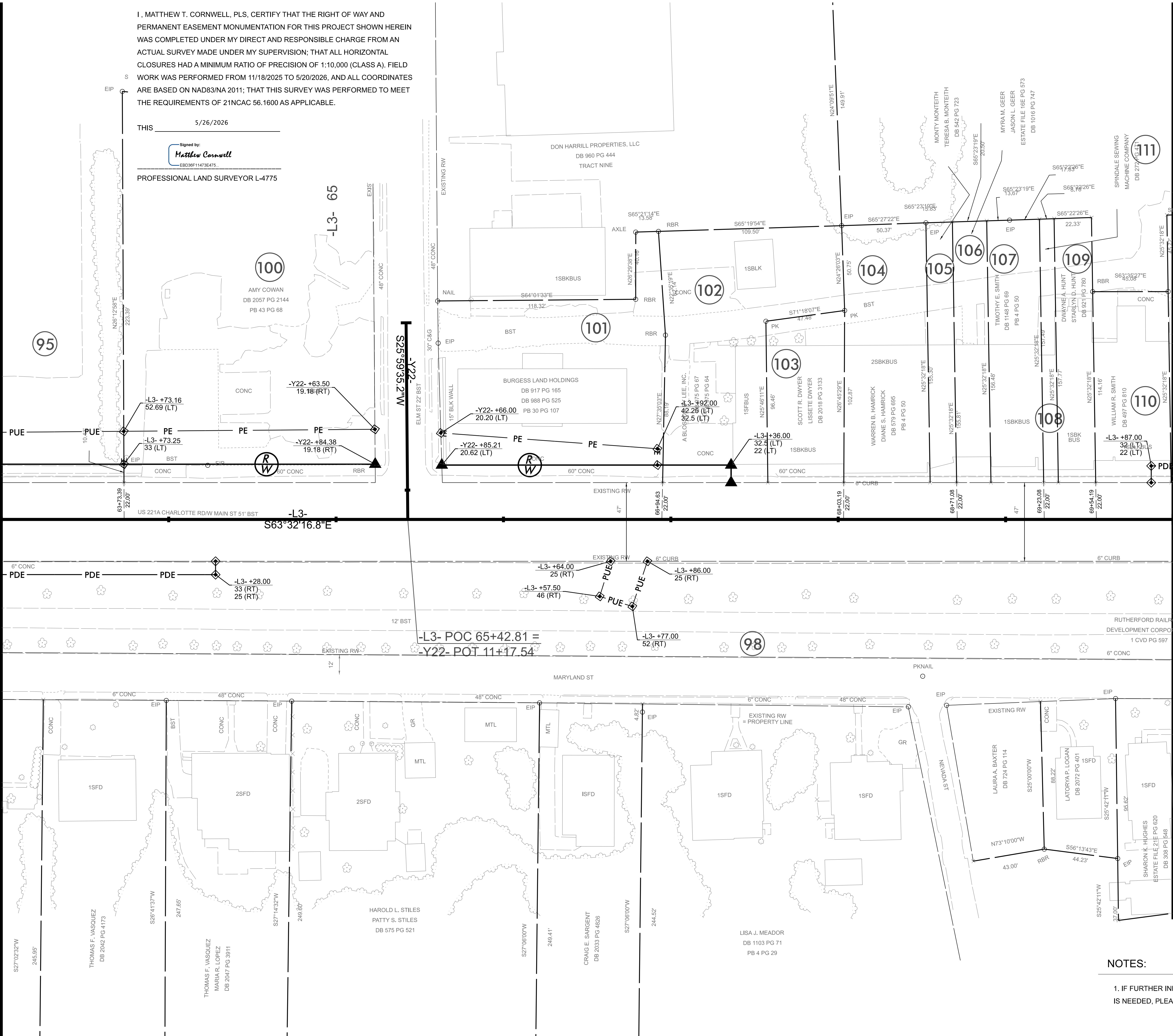
LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003



MATCH LINE -L3- STA 63+00.00 SEE SHEET RW19



NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

HL-0065

R/W20

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

PROFESSIONAL LAND
SURVEYOR

SEAL
L-4775
MATTHEW T. CORNWELL

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ARE COMPLETED

2024 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065

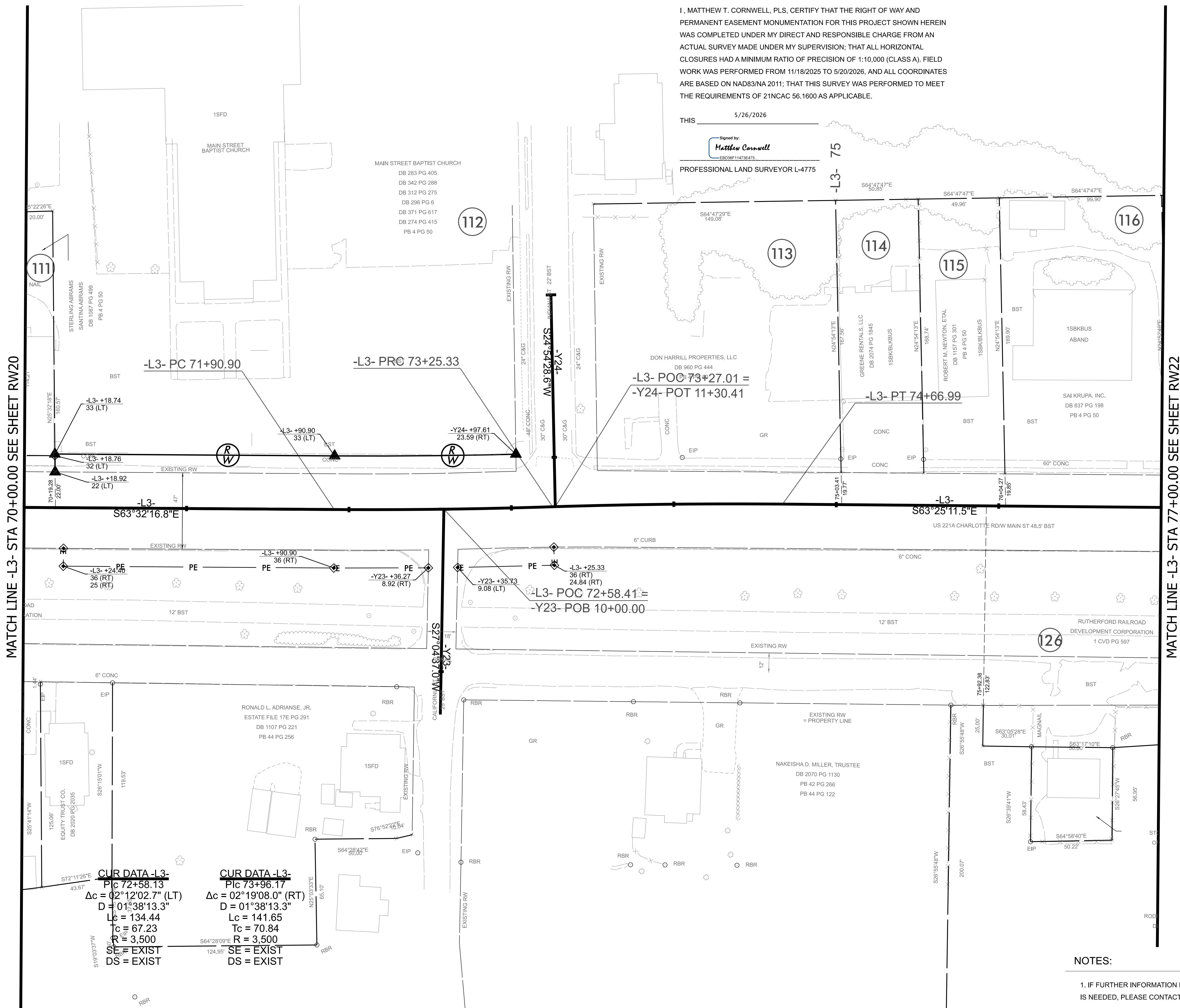
County: Rutherford

PREPARED FOR

LOCATION AND SURVEYS UNIT

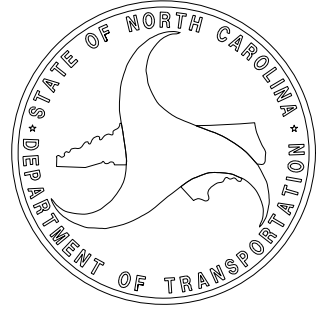
PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 300
SHELBY, NC 28150
704-476-0003

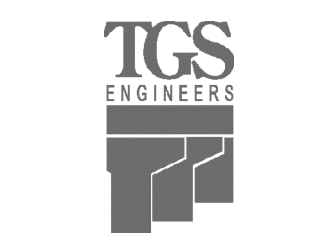
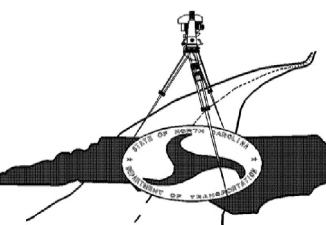


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TIP PROJECT: HL-0065
County: Rutherford



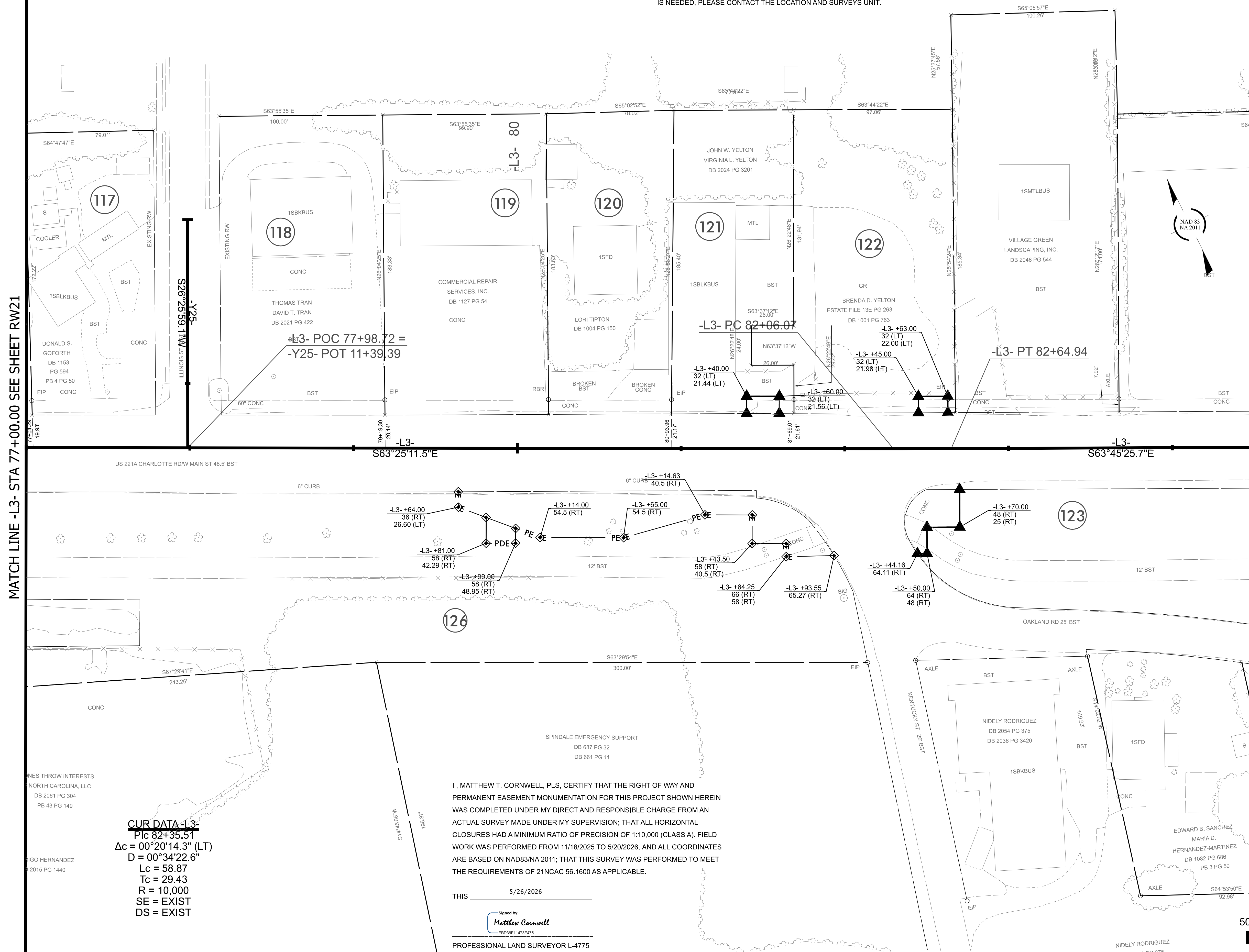
TIP PROJECT: HL-0065
County: Rutherford

PREPARED BY

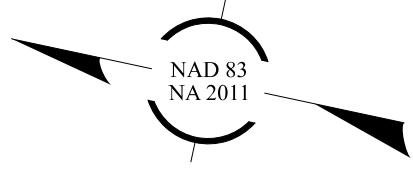
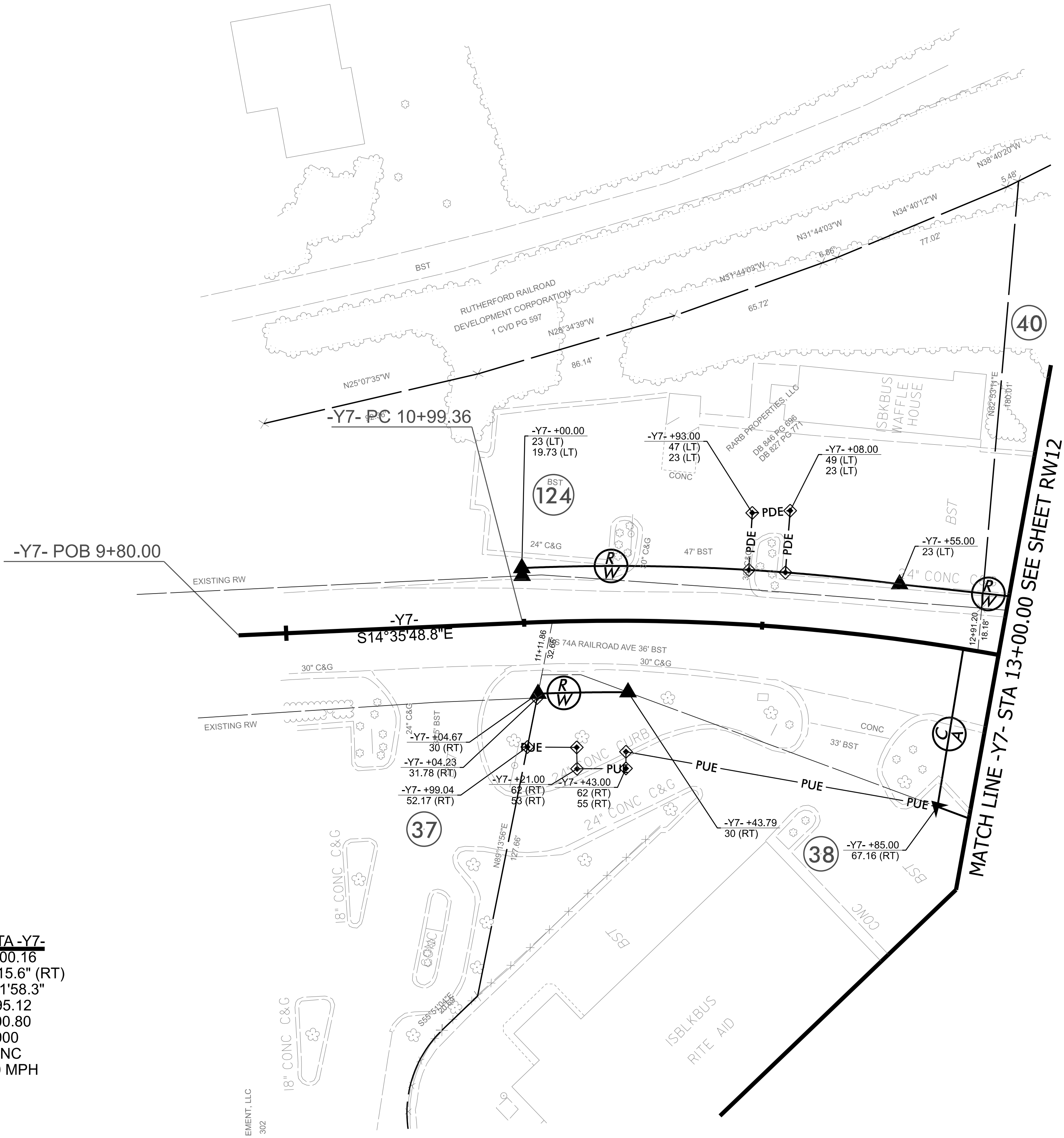
TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003



1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL
IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.



CUR DATA -Y7-
P/c 13+00.16
 $\Delta c = 25^{\circ}09'15.6''$ (RT)
D = $06^{\circ}21'58.3''$
Lc = 395.12
Tc = 200.80
R = 900
SE = NC
DS = 30 MPH



I, MATTHEW T. CORNWELL, PLS, 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 11/18/2025 TO 5/20/2026, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 5/26/2026

Signed by:
Matthew Cornwell
EB038F11473E475

PROFESSIONAL LAND SURVEYOR L-4775

NOTES:

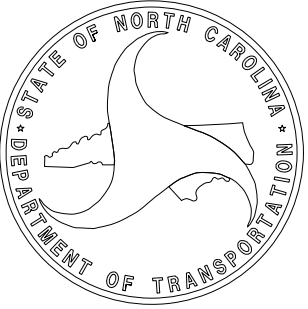
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.



HL-0065

R/W 23

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR

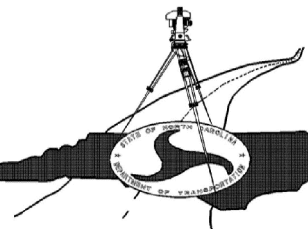


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2024 STANDARD
SPECIFICATIONS

TIP PROJECT: HL-0065
County: Rutherford

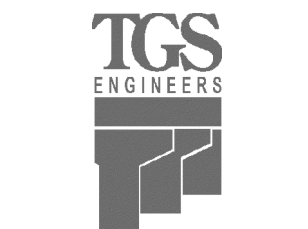
PREPARED FOR

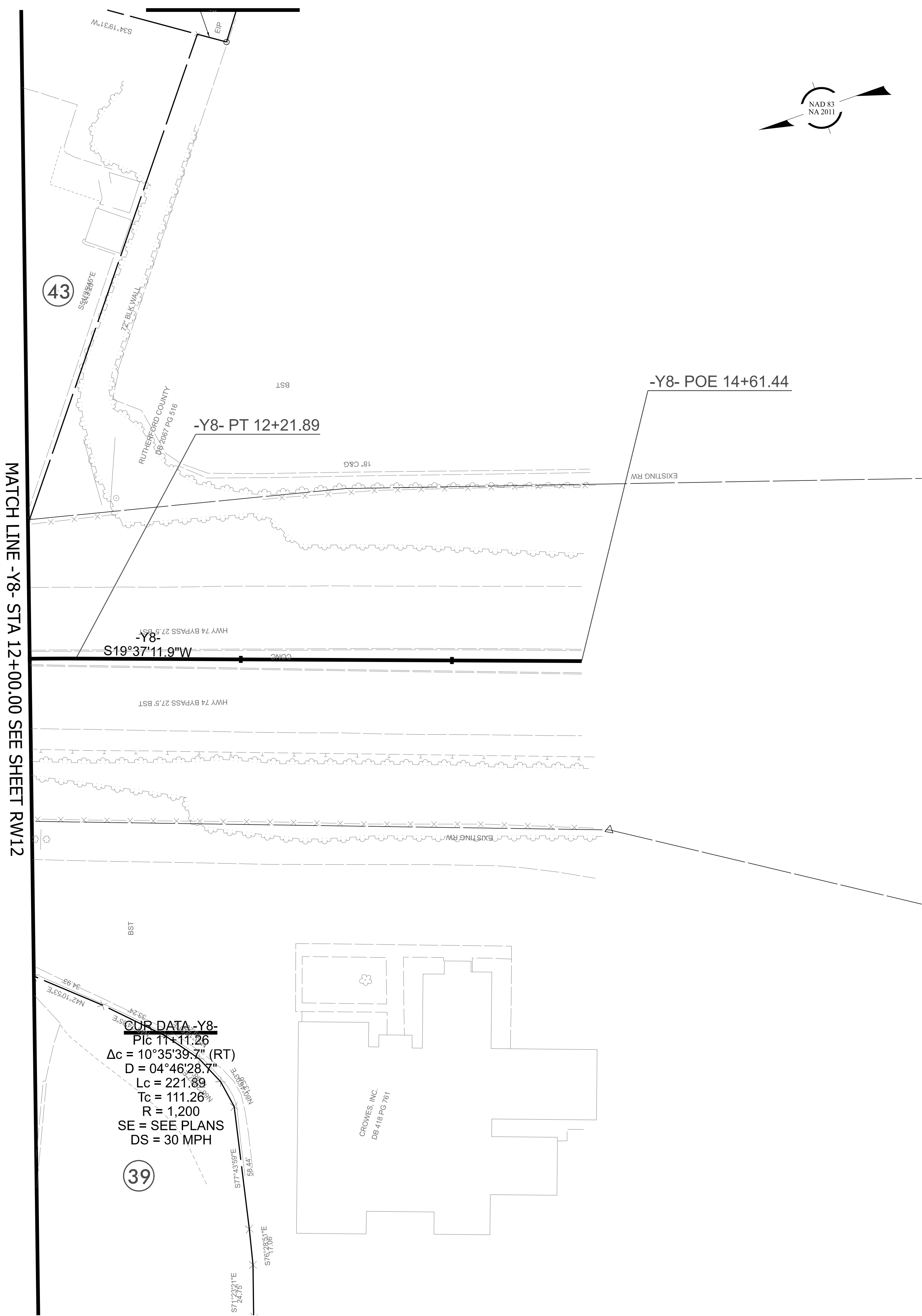


LOCATION AND
SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003





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THIS 5/26/2026
Signed by: Matthew Cornwell
EID036F11473E475
PROFESSIONAL LAND SURVEYOR L-4775

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HL-0065

R/W24

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

PROFESSIONAL LAND
SURVEYOR

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2024 STANDARD
SPECIFICATIONS

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County: Rutherford

PREPARED FOR

LOCATION AND
SURVEYS UNIT

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TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003