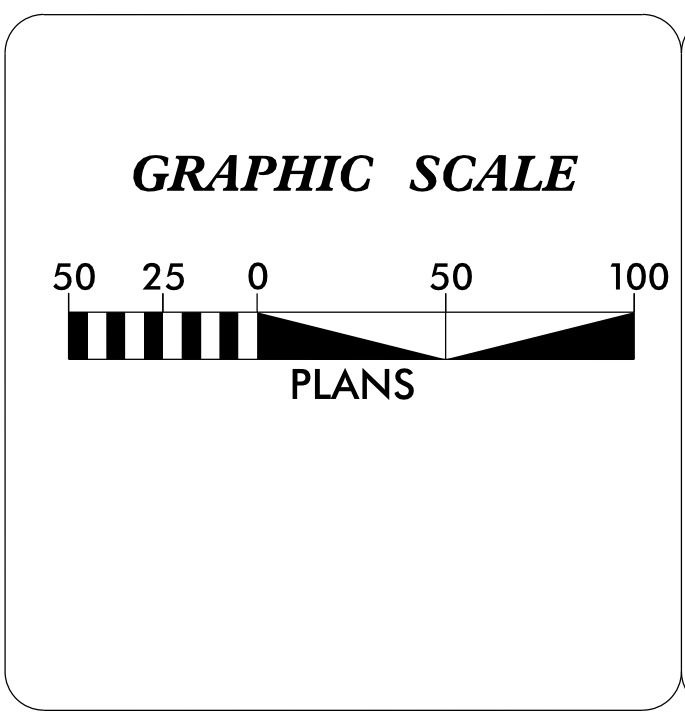
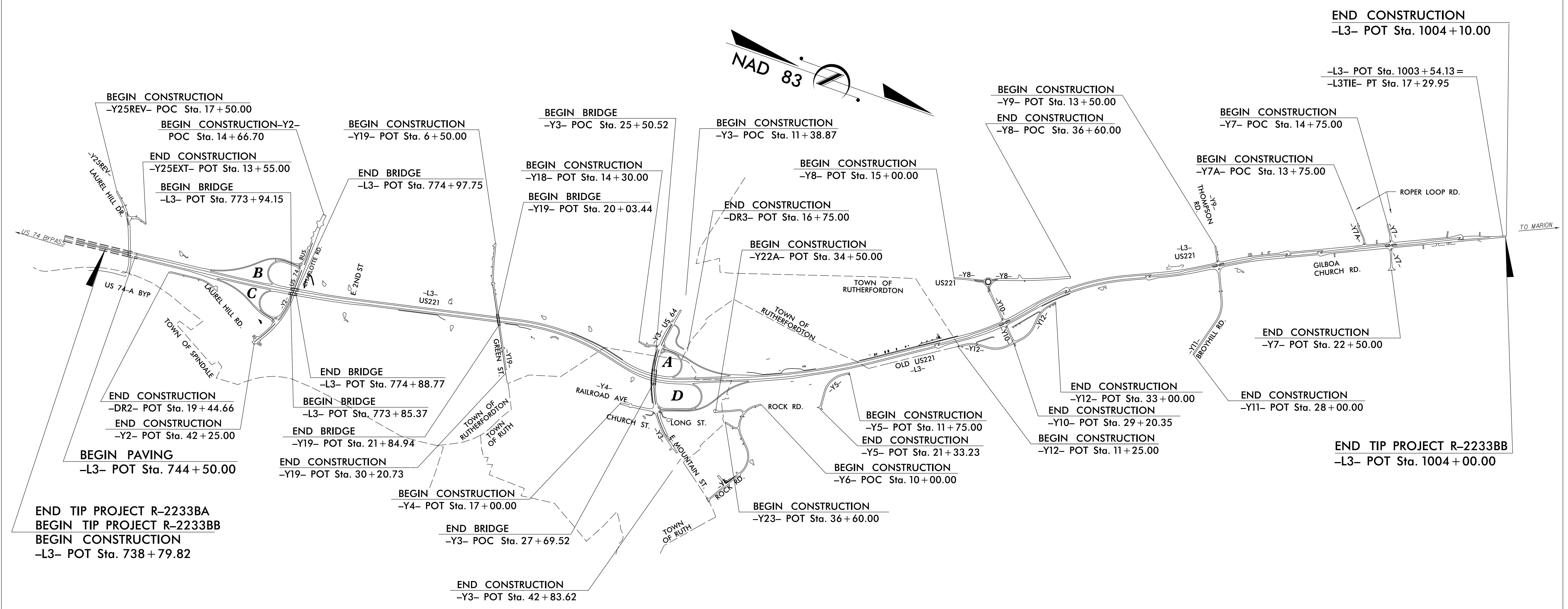


TIP PROJECT: R-2233BB

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2233BB	RW01	58

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 SURVEY CONTROL, EXISTING CENTERLINES,
 RIGHT OF WAY, EASEMENTS AND PROPERTY TIES
RUTHERFORD COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS R2233B-7" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 600,197,305(ft) EASTING: 1,122,726,311(ft) ELEVATION: 1,069.86(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999828116

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS R2233B-7" TO -L- STATION 738+81.68 IS S 13° 16' 48.3" W 3,172.48(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

TGS ENGINEERS
 TGS ENGINEERS
 804-C N. LAFAYETTE ST
 SHELBY, NC 28150
 PH (704) 476-0003
 CORP. LICENSE NO.: C-0275

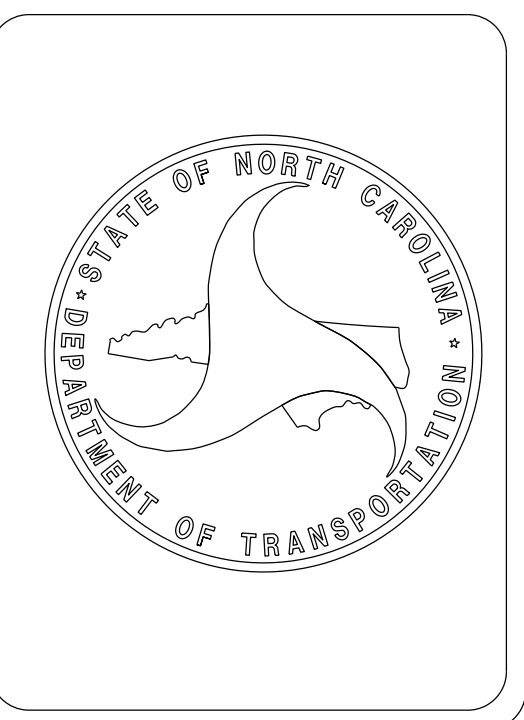
2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: 7/28/2017
LETTING DATE: 7/21/2020

PROFESSIONAL LAND SURVEYOR

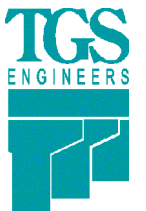


DocuSigned by:
 Matthew Cornwell
 EQ335F14726475
 SIGNATURE: _____

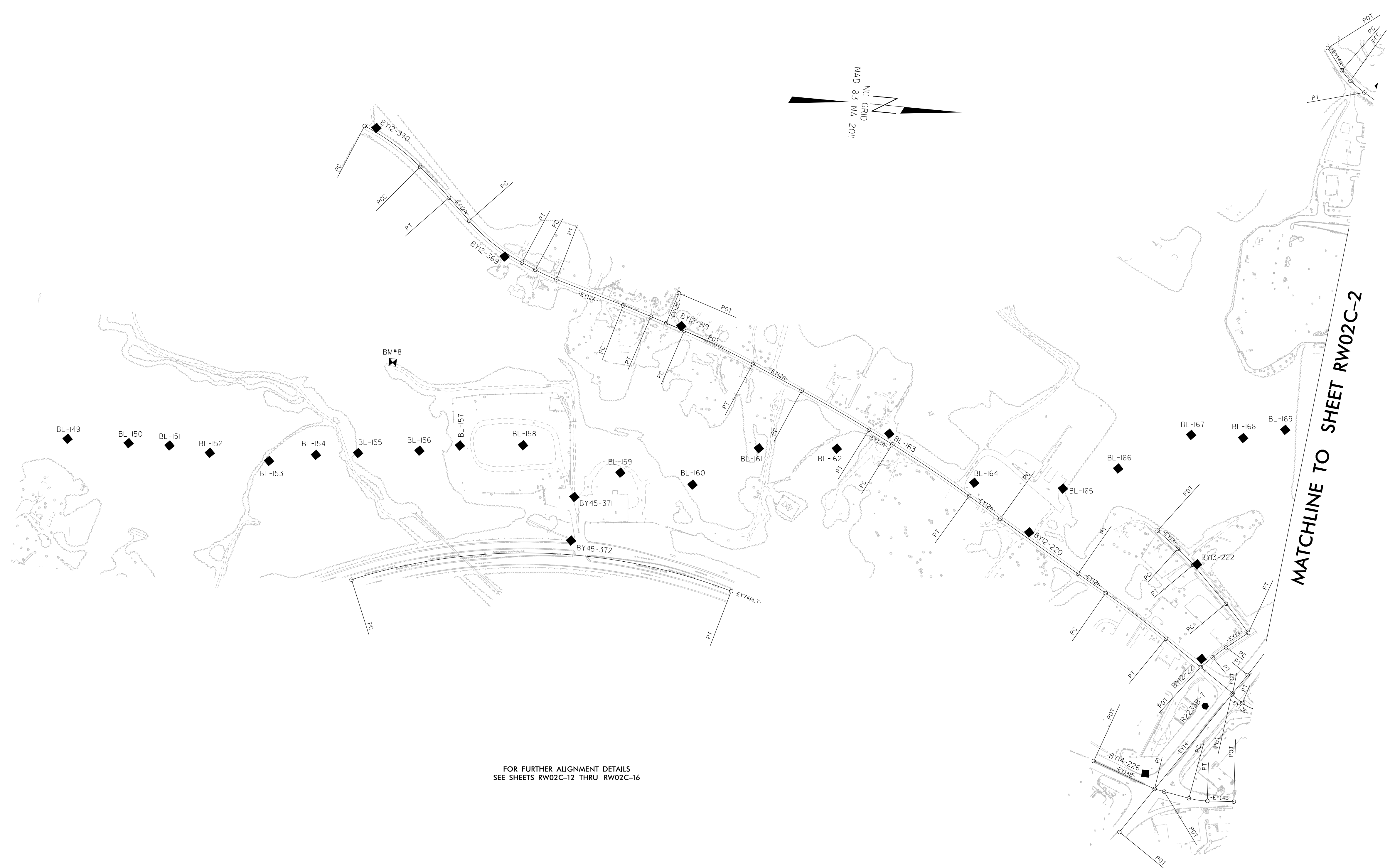
8/26/2021
 Date: _____



SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02C-1
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
2/14/2020	
DocuSigned by:  Matthew Cornwell <small>EB038F11473E475...</small>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



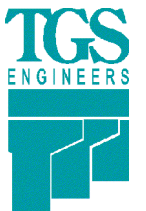


FOR FURTHER ALIGNMENT DETAILS
SEE SHEETS RW02C-12 THRU RW02C-16

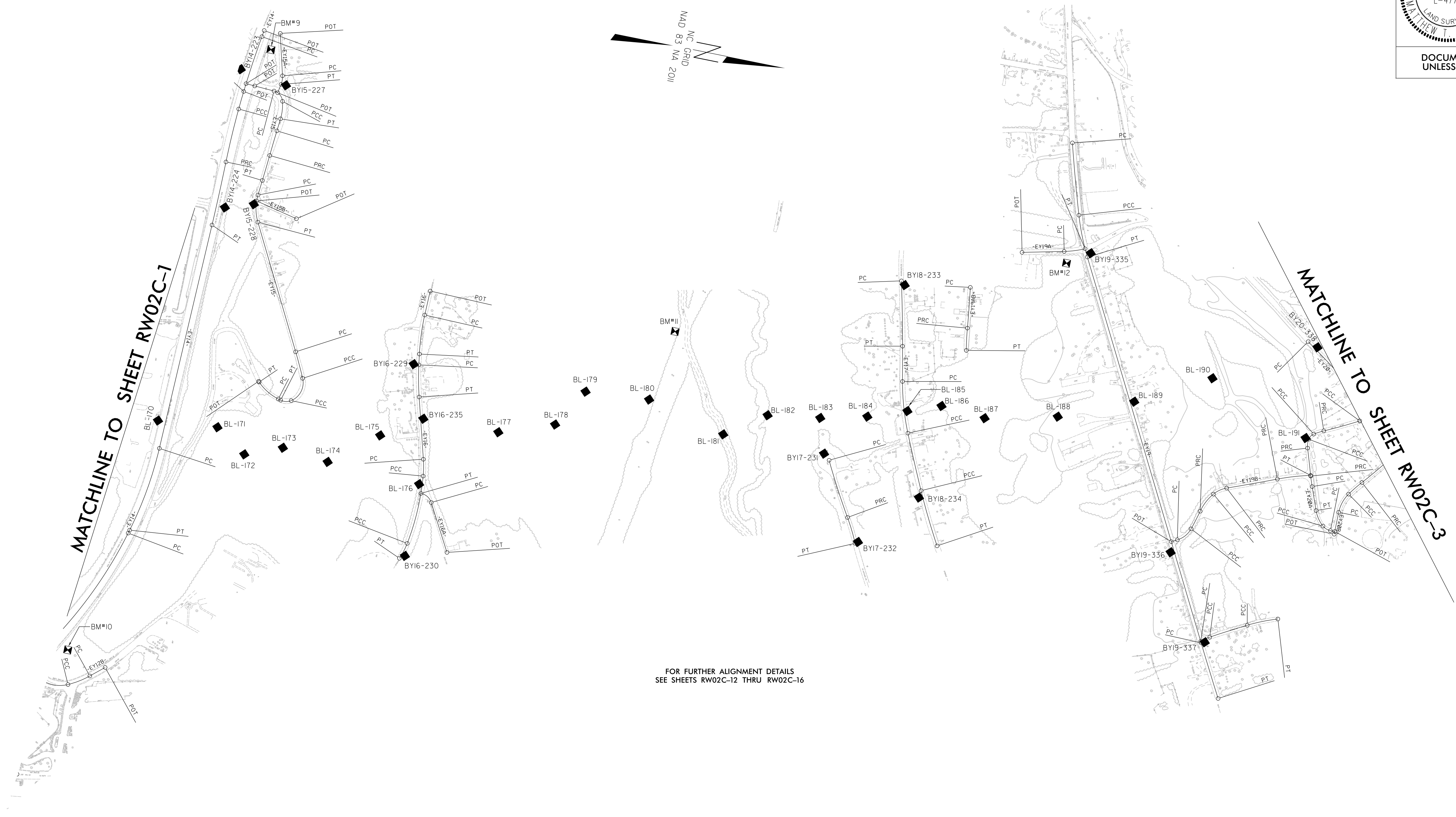
NOTES:

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

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02C-2
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
2/14/2020	
Documented by:  EBD36F11473E475	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	






FOR FURTHER ALIGNMENT DETAILS
SEE SHEETS RW02C-12 THRU RW02C-16

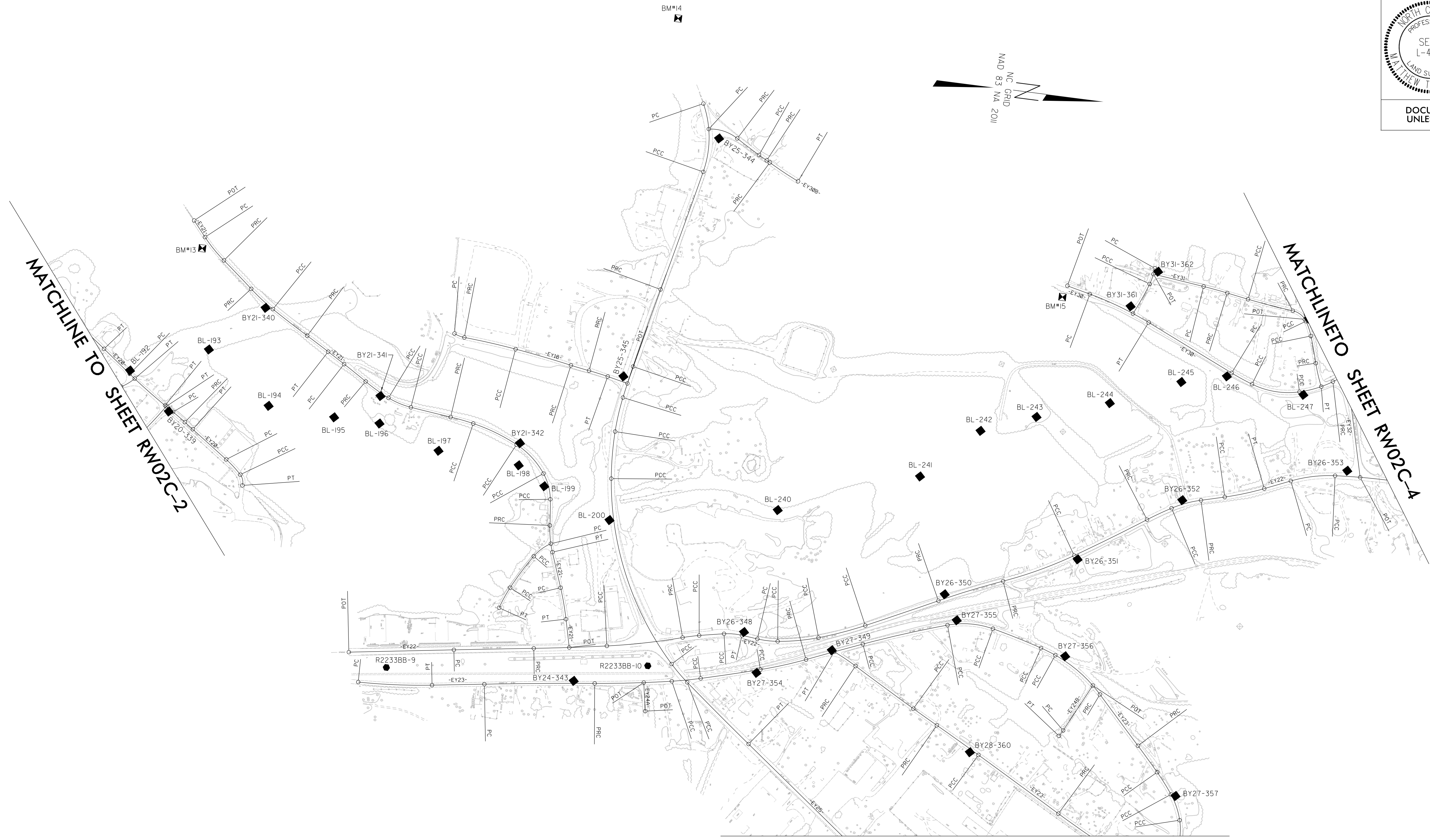
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02C-3
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
2/14/2020	
Designed by:  EBD36F11473E475	
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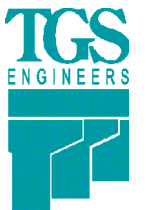


FOR FURTHER ALIGNMENT DETAILS
SEE SHEETS RW02C-12 THRU RW02C-16

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02C-4
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
2/14/2020	
DocuSigned by:  E8039F11473E475	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



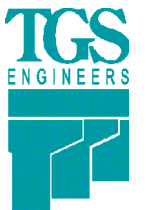


FOR FURTHER ALIGNMENT DETAILS
SEE SHEETS RW02C-12 THRU RW02C-16

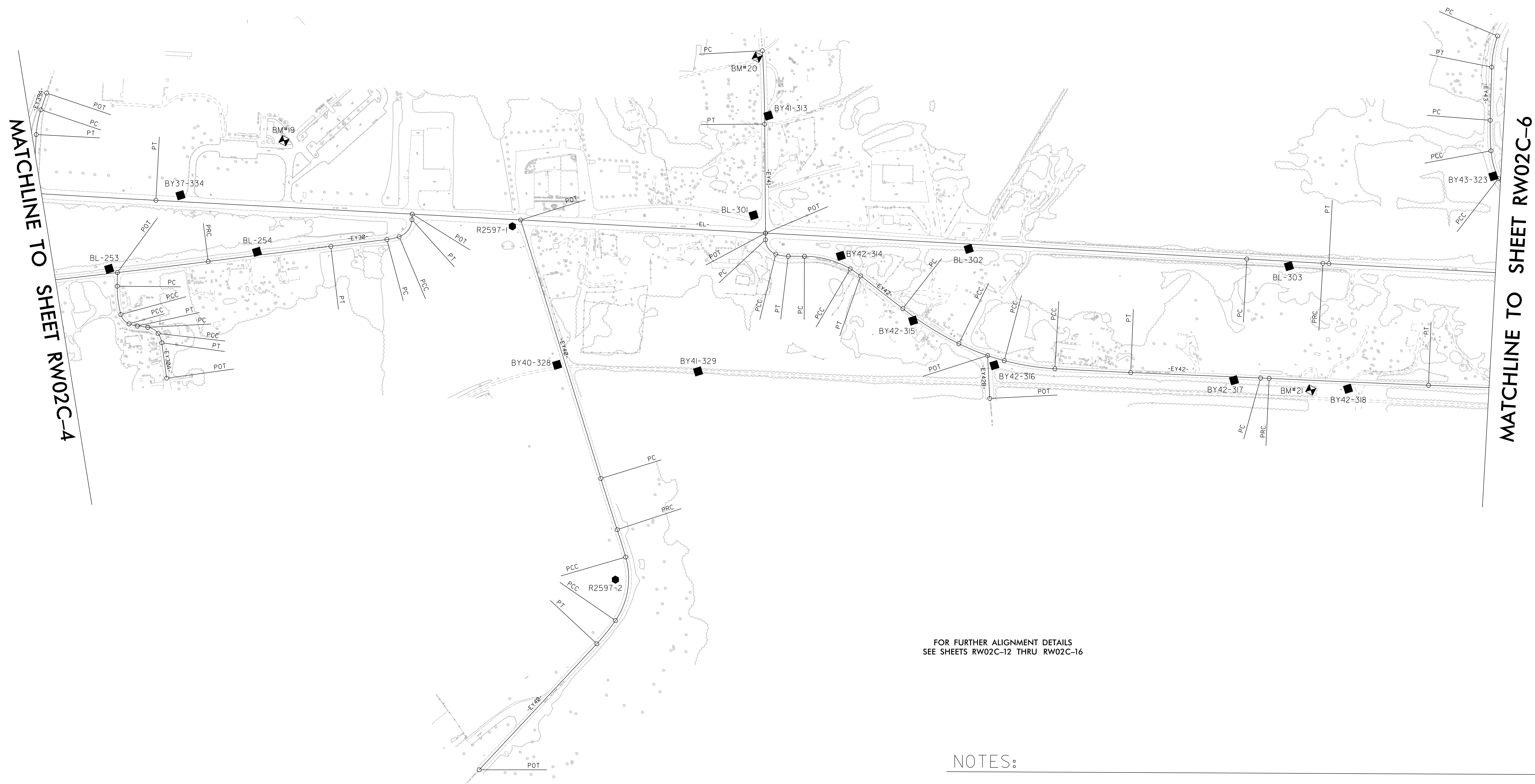
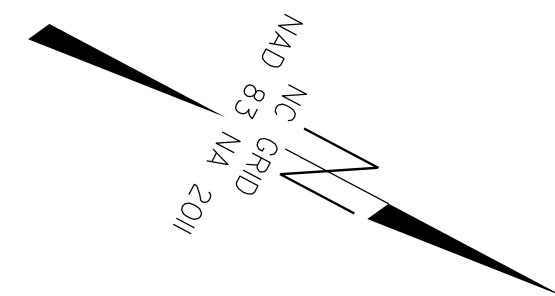
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02C-5
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
2/14/2020	
DocuSigned by:  Matthew Cornwell E8D06F11473E475...	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



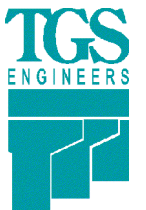


FOR FURTHER ALIGNMENT DETAILS
SEE SHEETS RW02C-12 THRU RW02C-16

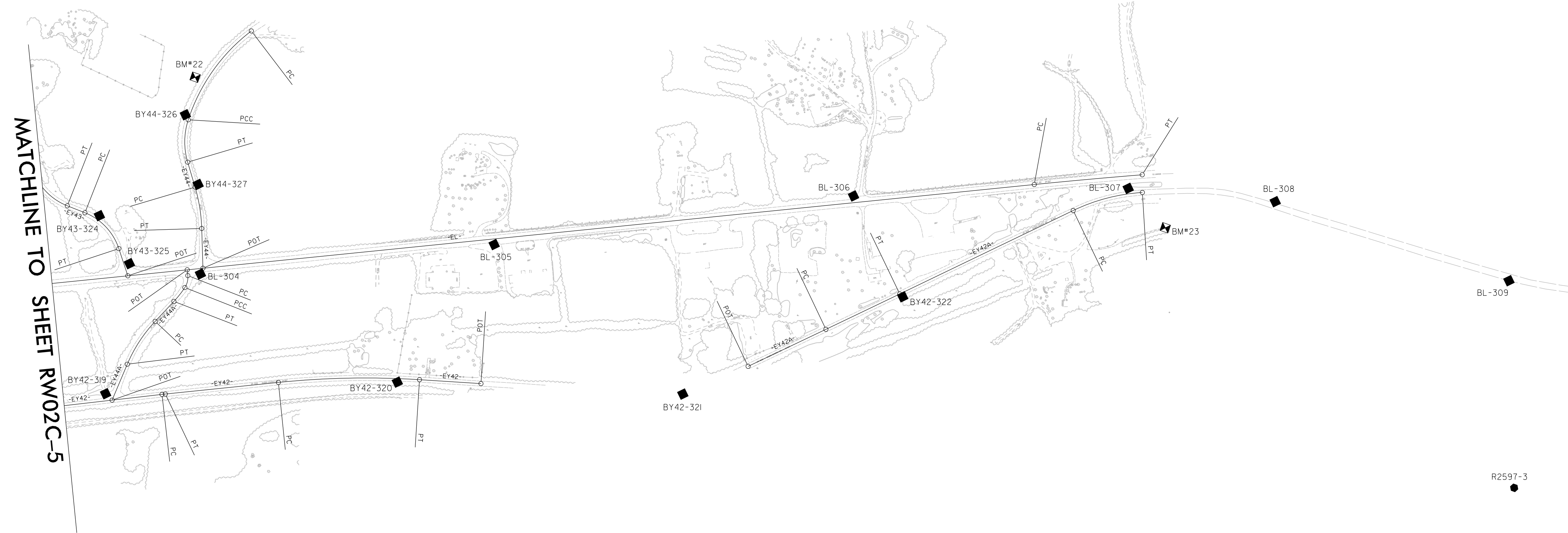
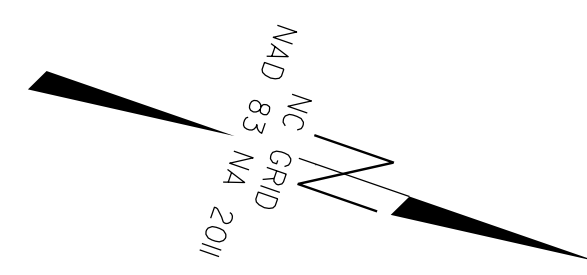
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02C-6
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
2/14/2020	
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FOR FURTHER ALIGNMENT DETAILS
 SEE SHEETS RW02C-12 THRU RW02C-16

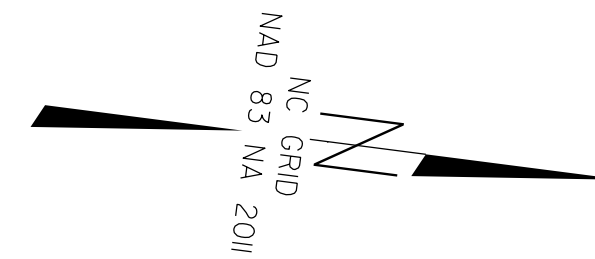
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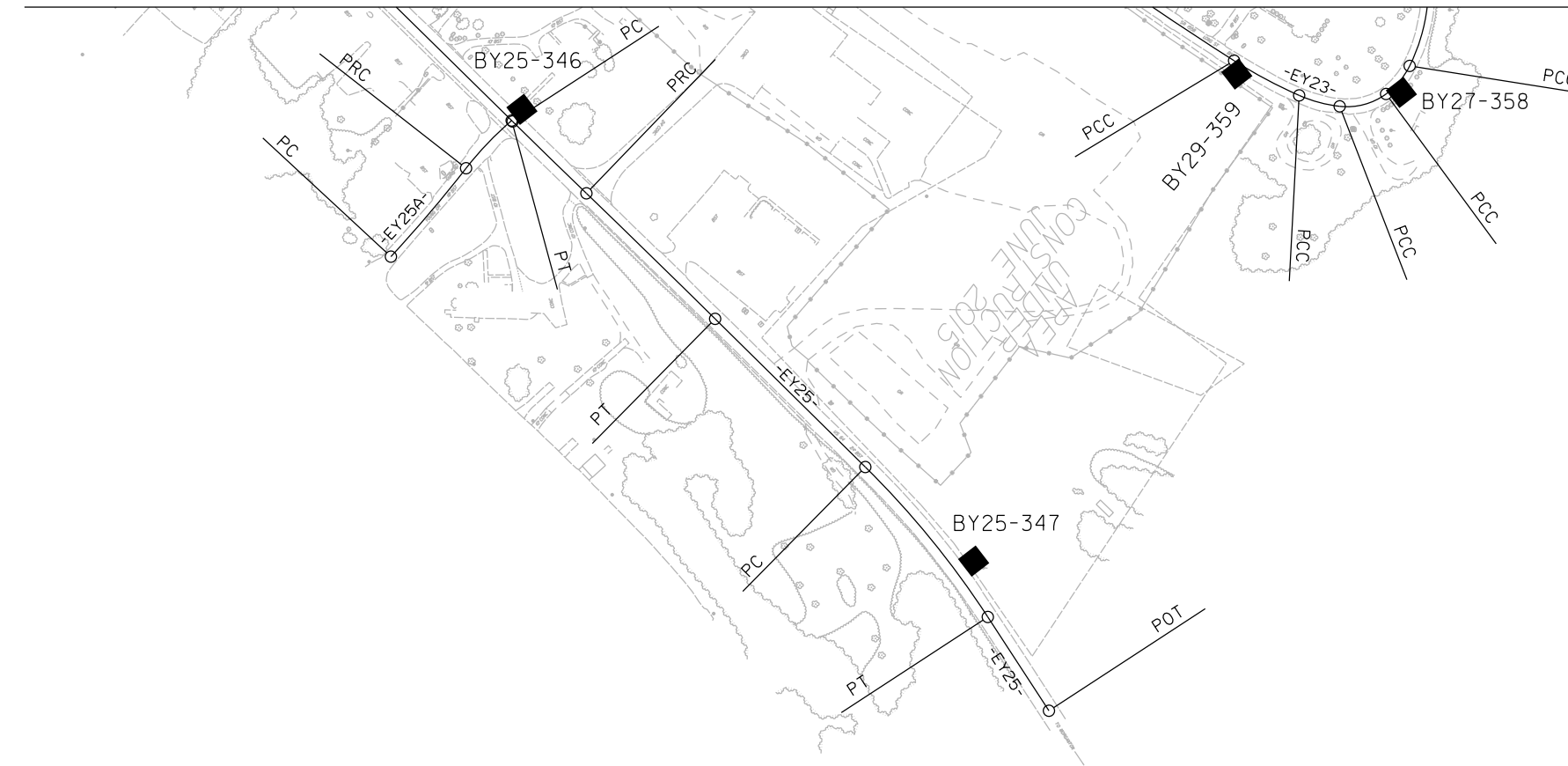
SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02C-7
Location and Surveys	
 <p>TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275</p>	
PROJECT SURVEYOR	
	<p>2/14/2020</p> <p>DocuSigned by: <i>Matthew Cornwell</i> EBD36F1473E475...</p>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE TO SHEET RW02C-3



FOR FURTHER ALIGNMENT DETAILS
SEE SHEETS RW02C-12 THRU RW02C-16

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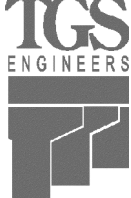

REVISIONS

BASELINE

BL	POINT	DESC.	NORTH	EAST	ELEVATION
21					
	R2233AB-21		583025.1340	1126244.6820	1043.35
105	BL-105		583285.7280	1125870.2490	1053.58
106	BL-106		583449.8480	1125666.0360	1045.50
107	BL-107		583646.3930	1125399.2280	1026.50
108	BL-108		583757.7630	1125165.1960	1053.94
109	BL-109		583886.8300	1124838.6270	1064.25
110	BL-110		584052.2850	1124447.1690	1068.12
111	BL-111		584060.2890	1124135.2420	1051.32
112	BL-112		584158.6820	1123884.3100	1048.63
113	BL-113		584306.7520	1123508.2070	1026.44
114	BL-114		584486.5510	1123172.0130	989.14
115	BL-115		584688.7190	1122882.7670	1004.46
116	BL-116		584887.1110	1122753.8840	1012.04
117	BL-117		585114.9640	1122610.1270	963.13
118	BL-118		585445.1620	1122476.5860	1006.24
119	BL-119		585790.1570	1122372.4940	1031.08
120	BL-120		585929.5610	1122027.8160	1027.35
121	BL-121		586304.2530	1121874.9540	1054.09
2	R2233B-2		586647.8450	1121972.0770	1065.02
122	BL-122		586876.0550	1122011.0440	1054.44
123	BL-123		587223.0870	1122208.1030	1033.45
124	BL-124		587428.0370	1122153.1970	998.58
125	BL-125		587629.9850	1122131.5060	952.96
126	BL-126		587999.2780	1122129.3800	996.44
127	BL-126		588183.1360	1122187.9890	1014.80
128	BL-128		588361.6670	1122042.8060	1001.73
129	BL-129		588619.7340	1121998.5750	1023.13
130	BL-130		588918.2980	1121971.4890	1027.43
131	BL-131		589317.6100	1121966.3900	1011.00
132	BL-132		590016.8060	1121890.4130	1002.09
133	BL-133		590888.6050	1122180.0970	992.75
134	BL-134		591186.2360	1122091.0440	1028.61
5	R2233B-5		591702.3500	1122342.4190	1046.10
137	BL-137		592631.8150	1121975.3390	1045.50
138	BL-138		593028.2870	1121978.8050	1016.31
139	BL-139		593196.8710	1122039.2320	985.98
140	BL-140		593519.0840	1122083.3280	915.85
141	BL-141		593756.5120	1122070.3170	864.47
142	BL-142		593989.3950	1122000.6540	863.34
143	BL-143		594193.3910	1122052.2970	896.86
144	BL-144		594507.2840	1122169.5800	962.44
145	BL-145		594758.2030	1122091.1280	1025.70
146	BL-146		595003.5520	1122288.7610	1036.43
147	BL-147		595102.9040	1122091.1450	1042.36
148	BL-148		595308.0320	1122080.3270	1006.52
149	BL-149		595575.8960	1122083.4180	987.61
150	BL-150		595820.0960	1122078.1560	976.73
151	BL-151		595983.4950	1122072.3300	977.77
152	BL-152		596146.5200	1122086.7950	971.84
153	BL-153		596384.9780	1122096.7900	971.75
154	BL-154		596568.9920	1122055.5250	963.74
155	BL-155		596795.9160	1122032.5590	928.06
156	BL-156		596974.1580	1122000.5420	953.13
157	BL-157		597137.8740	1121965.1780	995.42
158	BL-158		597389.0970	1121940.4810	995.47
159	BL-159		597786.0480	1122013.6760	996.32
160	BL-160		598077.2830	1122034.7690	1017.67
161	BL-161		598327.7430	1121865.5580	1061.27
162	BL-162		598637.5320	1121838.4370	1076.52
163	BL-163		598840.6330	1121759.4870	1077.79
164	BL-164		599196.3880	1121923.2620	1064.53
165	BL-165		599551.0450	1121913.5810	1072.92
166	BL-166		599763.5420	1121813.4060	1031.18
167	BL-167		600041.2130	1121652.7470	1015.01
168	BL-168		600249.0530	1121645.7690	1032.91
169	BL-169		600413.0760	1121597.7950	1031.76
170	BL-170		600615.2590	1121619.0080	985.65
171	BL-171		600850.2450	1121998.6660	1028.59
172	BL-172		600974.9920	1121682.6010	1049.03
173	BL-173		601119.0260	1121627.0160	1029.68
174	BL-174		601303.1650	1121646.8910	1047.87
175	BL-175		601485.5360	1121503.5260	1050.74
176	BL-176		601673.8430	1121661.5050	1075.16
177	BL-177		601939.5280	1121399.2180	1055.65
178	BL-178		602152.9840	1121325.2270	1051.29
179	BL-179		602245.1040	1121174.4710	1047.60
180	BL-180		602496.8180	1121155.5130	1014.50
181	BL-181		602810.2120	1121232.2900	985.87
182	BL-182		602966.9100	1121123.8740	940.73
183	BL-183		603172.4350	1121093.3410	974.58
184	BL-184		603353.3850	1121051.4340	1006.81
185	BL-185		603503.8080	1120998.5090	1023.96
186	BL-186		603631.8050	1120952.6640	1028.99
187	BL-187		603807.7160	1120966.2910	1002.53
188	BL-188		604089.3230	1120903.3810	987.01
189	BL-189		604373.1250	1120785.9380	979.78
190	BL-190		604657.2220	1120634.5220	952.28
191	BL-191		605063.6680	1120792.9880	989.75
192	BL-192		605286.9770	1120614.7170	987.06
193	BL-193		605594.2080	1120488.4350	967.50
194	BL-194		605864.4450	1120685.2600	980.22
195	BL-195		606134.7350	1120597.4230	953.63
196	BL-196		606320.9170	1120698.7400	964.11
197	BL-197		606573.1520	1120778.1110	969.39
198	BL-198		606904.3240	1120794.9130	1001.41
199	BL-199		607018.2620	1120866.0160	1010.29
200	BL-200		607298.9580	1120968.7210	1044.46
240	BL-240		607972.3540	1120840.6730	1060.34
241	BL-241		608528.8180	1120530.9250	1024.02
242	BL-242		608749.1150	1120415.3990	1018.35
243	BL-243		608967.6570	1120330.0140	1006.83
244	BL-244		609256.1790	1120236.0900	985.02
245	BL-245		609533.6520	1120113.6630	946.52
246	BL-246		609714.2980	1120067.0030	957.80
247	BL-247		610032.3770	1120101.7560	943.23
248	BL-248		611098.6210	1119385.9340	960.03
249	BL-249		612115.1760	1118754.6890	1007.70
250	BL-250		612870.9890	1118227.9810	1037.86
251	BL-251		613383.1960	1117755.3400	1050.74
252	BL-252		613986.5000	1117044.0420	1069.58
253	BL-253		614480.0900	1116670.5580	1067.89
254	BL-254		614929.4480	1116361.9990	1069.36
R2597-1			615172.4760	1115841.3520	1073.49
301	BL-301		616474.1521	1115391.4774	1088.68
302	BL-302		617228.3510	1115131.3854	1083.81
303	BL-303		618294.4629	1114637.8224	1066.88
304	BL-304		619445.8025	1114107.2371	1050.64
305	BL-305		620367.7257	1113681.2592	1036.14
306	BL-306		621481.3746	1113119.3478	1041.31
307	BL-307		622365.7634	1112785.6972	1059.52
308	BL-307		622858.8036	1112663.7736	1056.10
309	BL-307		623707.4173	1112657.9395	1028.03
310	TRAY PT		624332.3636	1112524.2961	1038.28
R2597-3			623957.2425	1113325.3281	1069.62
R2597-4			623373.5212	1114398.4532	1076.33

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02C-8
Location and Surveys	
 <p>TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275</p>	
PROJECT SURVEYOR	
2/14/2020	
 <p>DocuSigned by: Matthew Cornwell E030F11473E475</p>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02C-9
Location and Surveys	
<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275 </div>	
PROJECT SURVEYOR 2/14/2020 Documented by: 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BASELINE

BY12A POINT	DESC.	NORTH	EAST	ELEVATION
370	BY12-370	596688.3900	1120733.0574	1034.11
369	BY12-369	597245.9210	1121197.1965	1068.40
219	BY12-219	597973.8840	1121408.0940	1064.76
E0163	BL-163	598840.6330	1121759.4870	1077.79

BY18 POINT	DESC.	NORTH	EAST	ELEVATION
233	BY18-233	603395.3380	1120514.1780	1004.83
E0185	BL-185	603503.8080	1120998.8090	1023.96
234	BY18-234	603615.8910	1121324.0920	1036.96

BY12B POINT	DESC.	NORTH	EAST	ELEVATION
E0164	BL-164	599196.3880	1121923.2620	1064.53
220	BY12-220	599433.3630	1122100.2320	1074.16
221	BY12-221	600165.4860	1122539.8220	1061.36
E0225	RU-10	600445.4040	1122576.0990	1067.01

BY19 POINT	DESC.	NORTH	EAST	ELEVATION
335	BY19-335	604089.5692	1120246.2232	949.80
E0189	BL-189	604373.1250	1120785.9380	979.78
336	BY19-336	604631.0346	1121339.5820	1008.72
337	BY19-337	604832.8666	1121660.6745	1033.26

BY13 POINT	DESC.	NORTH	EAST	ELEVATION
222	BY13-222	600112.5840	1122165.2590	1085.63
EU225	RU-10	600445.4040	1122576.0990	1067.01

BY20 POINT	DESC.	NORTH	EAST	ELEVATION
338	BY20-338	605038.7920	1120433.2069	980.05
E0192	BL-192	605286.9770	1120614.7170	987.06
339	BY20-339	605464.9643	1120760.1705	990.51

BY14 POINT	DESC.	NORTH	EAST	ELEVATION
223	BY14-223	600661.3960	1120196.8440	920.52
224	BY14-224	600707.7330	1120743.5810	934.12
E0170	BL-170	600615.2590	1121619.0080	985.65
225	RU-10	600445.4040	1122576.0990	1067.01
7	R2233B-7	600197.3050	1122726.3110	1069.86
226	NCGS BOLENS	599984.1100	1123016.5210	1073.93

BY21 POINT	DESC.	NORTH	EAST	ELEVATION
340	BY21-340	605801.1249	1120291.3801	956.23
341	BY21-341	606310.5685	1120587.2297	980.94
342	BY21-342	606897.9737	1120704.8322	1007.65
E0199	BL-199	607018.2620	1120866.0160	1010.29
E0343	BY24-343	607238.3861	1121636.1562	1038.76

BY15 POINT	DESC.	NORTH	EAST	ELEVATION
E0223	BY14-223	600661.3960	1120196.8440	920.52
227	BY15-227	600848.6540	1120223.9370	927.37
228	BY15-228	600817.2240	1120708.4670	955.84

BY24 POINT	DESC.	NORTH	EAST	ELEVATION
9	R2233B-9	606475.8670	1121679.7530	1026.10
343	BY24-343	607238.3861	1121636.1562	1038.76
10	R2233B-10	607529.3790	1121536.8270	1029.66

BY16 POINT	DESC.	NORTH	EAST	ELEVATION
229	BY16-229	601559.6690	1121202.1480	1054.46
235	BY16-235	601639.2890	1121405.4880	1068.36
E0176	BL-176	601673.8430	1121661.5050	1075.16
230	BY16-230	601674.8210	1121949.8070	1087.25

BY25 POINT	DESC.	NORTH	EAST	ELEVATION
344	BY25-344	607542.0721	1119371.5738	1067.99
345	BY25-345	607280.1530	1120381.5373	1058.66
E0200	BL-200	607298.9580	1120968.7210	1044.46
E010	R2233B-10	607529.3790	1121536.8270	1029.66
346	BY25-346	608586.2657	1122236.0334	997.64
347	BY25-347	609260.0177	1122755.4083	959.40

BY17 POINT	DESC.	NORTH	EAST	ELEVATION
E0183	BL-183	603172.4350	1121093.3410	974.58
231	BY17-231	603214.9120	1121228.2790	994.08
232	BY17-232	603414.7040	1121543.3450	988.29

BY26 POINT	DESC.	NORTH	EAST	ELEVATION
EU10	R2233B-10	607529.3790	1121536.8270	1029.66
348	BY26-348	607899.9331	1121350.4343	1039.57
E0349	BY27-349	608263.5941	1121378.0995	1030.63
350	BY26-350	608689.6386	1121093.5122	1000.59
351	BY26-351	609207.4994	1120883.2743	980.99
352	BY26-352	609598.9711	1120589.9544	964.38
353	BY26-353	610249.1133	1120385.3578	934.08
E0247	BL-247	610032.3770	1120101.7560	943.23

REVISIONS

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NOTES:

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

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02C-10
Location and Surveys	
TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR 2/14/2020 DocuSigned by: Matthew Cornwell EBD30F11473E475	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BASELINE

BY27 POINT	DESC.	NORTH	EAST	ELEVATION
EA10	R2233B-10	607529.3790	1121536.8270	1029.66
354	BY27-354	607971.4567	1121508.6665	1024.51
349	BY27-349	608263.5941	1121378.0995	1030.63
355	BY27-355	608751.7682	1121192.1287	1023.74
356	BY27-356	609207.8918	1121280.8191	1021.36
357	BY27-357	609725.7669	1121787.1263	1034.65
358	BY27-358	609745.2125	1122063.6675	1050.17
E0359	BY29-359	609524.6295	1122067.4961	1056.58

BY40A POINT	DESC.	NORTH	EAST	ELEVATION
E0328	BY40-328	616095.0312	1116213.0111	1049.96
329	BY41-329	616562.5597	1115992.5659	1058.36
EUR25972	R2597-2	616652.5270	1116808.9410	1043.42

BY28 POINT	DESC.	NORTH	EAST	ELEVATION
EU349	BY27-349	608263.5941	1121378.0995	1030.63
360	BY28-360	608873.3732	1121717.6275	1046.02
EU359	BY29-359	609524.6295	1122067.4961	1056.58

BY41 POINT	DESC.	NORTH	EAST	ELEVATION
313	BY41-313	616351.1748	1115043.3813	1069.64
E0301	BL-301	616474.1521	1115391.4774	1088.68

BY29 POINT	DESC.	NORTH	EAST	ELEVATION
E0347	BY25-347	609260.0177	1122755.4083	959.40
359	BY29-359	609524.6295	1122067.4961	1056.58

BY42 POINT	DESC.	NORTH	EAST	ELEVATION
EU301	BL-301	616474.1521	1115391.4774	1088.68
314	BY42-314	616826.1541	1115373.4325	1099.49
315	BY42-315	617171.4776	1115459.0552	1110.82
316	BY42-316	617510.9181	1115464.0347	1101.77
317	BY42-317	618312.5710	1115101.7172	1077.27
318	BY42-318	618696.2696	1114933.7941	1089.12
319	BY42-319	619272.0780	1114602.9173	1082.45
320	BY42-320	620207.4149	1114237.2266	1068.57
321	BY42-321	621149.1022	1113955.1942	1047.64
322	BY42-322	621754.6396	1113391.7181	1056.01
E0307	BL-307	622365.7634	1112785.6972	1059.52

BY31 POINT	DESC.	NORTH	EAST	ELEVATION
E0246	BL-246	609714.2980	1120067.0030	957.80
361	BY31-361	609289.5663	1119834.6408	980.17
362	BY31-362	609382.3202	1119680.4285	1010.15
363	BY31-363	610014.8043	1119791.2765	955.94
E0247	BL-247	610032.3770	1120101.7560	943.23

BY43 POINT	DESC.	NORTH	EAST	ELEVATION
323	BY43-323	618801.8325	1113995.8993	1066.43
324	BY43-324	619051.7347	1114031.1582	1064.45
325	BY43-325	619203.3378	1114153.3446	1053.90
E0304	BL-304	619445.8025	1114107.2371	1050.64

BY33 POINT	DESC.	NORTH	EAST	ELEVATION
E0248	BL-248	611098.6210	1119385.9340	960.03
364	BY33-364	611035.9989	1119165.6994	962.60
365	BY33-365	611757.6521	1118646.7254	996.42
366	BY33-366	612147.0759	1118434.7488	1025.40
E0249	BL-249	612115.1760	1118754.6890	1007.70

BY44 POINT	DESC.	NORTH	EAST	ELEVATION
326	BY44-326	619217.9015	1113606.5591	1007.14
327	BY44-327	619337.5790	1113818.5963	1028.70
EU304	BL-304	619445.8025	1114107.2371	1050.64
E0319	BY42-319	619272.0780	1114602.9173	1082.45

BY37 POINT	DESC.	NORTH	EAST	ELEVATION
330	BY37-330	611579.1858	1117436.8076	1001.56
331	BY37-331	612566.5223	1117119.0774	1024.68
332	BY37-332	613232.3833	1116935.8111	1040.82
333	NCGS RON (BY37-	613904.6173	1116681.4611	1052.50
334	BY37-334	614584.7408	1116309.9226	1060.20
EUR25971	R2597-1	615712.4760	1115841.3520	1073.49

BY45 POINT	DESC.	NORTH	EAST	ELEVATION
E0159	BL-159	597786.0480	1122013.6760	996.32
371	BY45-371	597611.9474	1122127.2675	994.71
372	BY45-372	597614.9716	1122302.1346	997.02

BY38 POINT	DESC.	NORTH	EAST	ELEVATION
E0331	BY37-331	612566.5223	1117119.0774	1024.68
367	BY38-367	612828.5501	1117428.7729	1021.09
368	BY38-368	613185.3117	1117638.8309	1050.03
E0251	BL-251	613383.1960	1117755.3400	1050.74

BY40 POINT	DESC.	NORTH	EAST	ELEVATION
EUR25971	R2597-1	615712.4760	1115841.3520	1073.49
328	BY40-328	616095.0312	1116213.0111	1049.96
EUR25972	R2597-2	616652.5270	1116808.9410	1043.42

NOTES:

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REVISIONS

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mccornwell AT MCCORNWELL LLP

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BENCHMARKS

.....
 BM8 ELEVATION - 985.97
 N 596840 E 1121659
 BL STATION 174+92.00 356 LEFT
 RR SPIKE IN BASE 6' DBL OAK

.....
 BM9 ELEVATION - 932.08
 N 600763 E 1120098
 BY15 STATION 5+86.00 112 LEFT
 RR SPIKE IN BASE 30' TULIP-POPLAR

.....
 BM10 ELEVATION - 1067.01
 N 600445 E 1122576
 BY14 STATION 29+01.00 0 RIGHT
 NCGS RU-10 1972

.....
 BM11 ELEVATION - 994.71
 N 602544 E 1120872
 BL STATION 236+44.00 287 LEFT
 RR SPIKE IN BASE 10' TULIP-POPLAR

.....
 BM12 ELEVATION - 950.00
 N 604004 E 1120304
 BY19 STATION 5+11.00 103 RIGHT
 RR SPIKE IN BASE 30' TULIP-POPLAR

.....
 BM13 ELEVATION - 940.92
 N 605515 E 1120084
 BY20 STATION 6+78.00 563 LEFT
 RR SPIKE IN BASE 24' DBL TULIP-POPLAR

.....
 BM14 ELEVATION - 1074.13
 N 607314 E 1118909
 BY25 STATION 5+00.00
 S 63+48'44.2" W DIST 515.67
 CHISELED SQUARE IN CONC WINGWALL AT NE
 CORNER HWY 64/74A BRIDGE OVER HWY 221

.....
 BM15 ELEVATION - 986.58
 N 609010 E 1119833
 BY31 STATION 9+84.00 280 LEFT
 RR SPIKE IN BASE 22' TULIP-POPLAR

.....
 BM16 ELEVATION - 930.17
 N 610772 E 1120531
 BY26 STATION 35+22.00 542 RIGHT
 RR SPIKE IN BASE 30' TULIP-POPLAR

.....
 BM17 ELEVATION - 1033.75
 N 611732 E 1118101
 BY33 STATION 18+56.00 491 LEFT
 STEEL COTTON SPINDLE FLUSH IN BST
 PAVEMENT RIDGELAND DRIVE

.....
 BM18 ELEVATION - 1030.87
 N 613158 E 1116793
 BY37 STATION 21+94.00 157 LEFT
 RR SPIKE IN BASE 12' PINE

.....
 BM19 ELEVATION - 1050.02
 N 614826 E 1115956
 BY37 STATION 40+80.00 234 LEFT
 PAINTED BOLT ON SOUTHERN SIDE FIRE
 HYDRANT

.....
 BM20 ELEVATION - 1067.78
 N 616215 E 1114873
 BY41 STATION 5+00.00
 S 51+14'14.7" W DIST 218.00
 RR SPIKE IN BASE 20' OAK

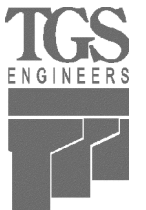


.....
 BM21 ELEVATION - 1083.30
 N 618578 E 1115002
 BY42 STATION 27+11.00 15 RIGHT
 RR SPIKE IN BASE 15' TULIP-POPLAR

.....
 BM22 ELEVATION - 990.41
 N 619208 E 1113474
 BY44 STATION 5+00.00
 S 85+32'42.9" W DIST 133.14
 RR SPIKE IN BASE 24' TULIP-POPLAR

.....
 BM23 ELEVATION - 1061.88
 N 622531 E 1112872
 BL STATION 463+58.00 124 RIGHT
 RR SPIKE IN BASE 24' OAK

NOTES:

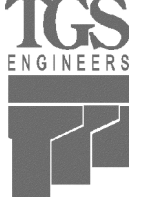

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PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02C-11
Location and Surveys	
 <p>TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275</p>	
PROJECT SURVEYOR	
2/14/2020	
	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EXISTING ALIGNMENTS

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02C-12
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 2/14/2020 DoubleSigned by: Matthew Cornwell EBO06F11473E475	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	611568.732	1117461.689							
LINE			N 17°58'20.2" W	1120.22					
PC	612634.293	1117116.036							
CURVE			N 18°24'59.7" W	474.63	00°53'18.8"(LT)	00°11'14.0"	474.63	237.32	30605.00
PCC	613084.611	1116966.091							
CURVE			N 20°22'16.6" W	520.33	03°01'15.1"(LT)	00°34'49.8"	520.39	260.25	9870.00
PT	613572.395	1116784.964							
LINE			N 21°52'54.2" W	91.94					
PC	613657.714	1116750.697							
CURVE			N 22°36'09.6" W	173.39	01°26'30.8"(LT)	00°49'53.7"	173.39	86.70	6890.00
PCC	613817.784	1116684.058							
CURVE			N 23°49'07.0" W	208.72	00°59'23.9"(LT)	00°28'27.5"	208.72	104.36	12080.00
PCC	614008.728	1116599.768							
CURVE			N 24°34'43.1" W	555.54	00°31'48.4"(LT)	00°05'43.5"	555.54	277.77	60045.00
PT	614513.928	1116368.697							
LINE			N 24°50'37.3" W	4002.38					
PC	618145.916	1114687.120							
CURVE			N 24°40'12.4" W	279.32	00°20'49.8"(RT)	00°07'27.4"	279.32	139.66	46100.00
PCC	618399.741	1114570.534							
CURVE			N 24°39'42.4" W	21.80	00°19'49.7"(LT)	01°30'56.7"	21.80	10.90	3780.00
PT	618419.555	1114561.437							
LINE			N 24°49'37.3" W	4006.86					
PC	622056.100	1112879.036							
CURVE			N 24°14'12.0" W	372.98	01°10'50.5"(RT)	00°18'59.6"	372.98	186.50	18100.00
PT	622396.203	1112725.926							

EYAL74 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	596756.729	1122538.809							
CURVE			N 03°34'24.7" W	1516.69	38°33'23.0"(RT)	02°29'40.0"	1545.69	803.39	2296.93
PT	598270.466	1122444.275							

EY12A POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	596641.190	1120729.234							
CURVE			N 31°10'29.6" E	275.96	17°26'31.5"(RT)	06°17'46.5"	277.02	139.59	910.00
PCC	596877.295	1120872.083							
CURVE			N 41°37'12.6" E	168.20	03°26'54.4"(RT)	02°02'59.8"	168.22	84.14	2795.00
PT	597003.033	1120983.798							
LINE			N 43°20'39.8" E	122.34					
PC	597092.006	1121067.772							
CURVE			N 33°09'15.3" E	268.91	20°22'48.9"(LT)	07°32'20.1"	270.33	136.61	760.00
PT	597317.138	1121214.838							
LINE			N 22°57'50.9" E	60.84					
PC	597373.156	1121238.575							
CURVE			N 19°22'58.2" E	92.45	07°09'45.5"(LT)	07°44'33.6"	92.51	46.31	740.00
PT	597460.364	1121269.256							
LINE			N 15°48'05.4" E	286.36					
PC	597735.908	1121347.235							
CURVE			N 16°52'44.6" E	118.85	02°09'18.4"(RT)	01°48'47.4"	118.86	59.44	3160.00
PT	597849.640	1121381.744							
LINE			N 17°57'23.8" E	144.84					
PC	597987.424	1121426.398							
CURVE			N 20°33'42.2" E	304.21	05°12'36.8"(RT)	01°42'43.6"	304.32	152.26	3346.50
PT	598272.256	1121533.242							
LINE			N 23°10'00.6" E	221.88					
PC	598476.247	1121620.533							
CURVE			N 24°53'53.8" E	311.24	03°27'46.4"(RT)	01°06'44.8"	311.29	155.69	5150.42
PT	598758.558	1121751.567							
LINE			N 26°37'47.0" E	110.01					
PC	598856.902	1121800.878							
CURVE			N 28°37'22.7" E	369.40	03°59'11.5"(RT)	01°04'44.3"	369.47	184.81	5310.17
PT	599181.155	1121977.835							
LINE			N 30°36'58.5" E	154.36					
PC	599313.994	1122056.447							
CURVE			N 30°06'26.5" E	380.03	01°01'04.0"(LT)	00°16'04.1"	380.03	190.02	21394.14
PT	599642.752	1122247.077							
LINE			N 29°35'54.5" E	134.66					
PC	599759.838	1122313.587							
CURVE			N 31°50'03.9" E	301.93	04°28'18.8"(RT)	01°28'50.6"	302.01	151.08	3869.43
PT	600016.351	1122472.845							
LINE			N 34°04'13.4" E	344.40					
POT	600301.637	1122665.784							

EY12B POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	600603.406	1122614.582							
LINE			S 40°26'30.1" E	69.07					
PC	600550.837	1122659.387							
CURVE			S 32°47'05.2" E	92.50	15°18'49.9"(RT)	16°30'22.9"	92.78	46.67	347.11
PCC	600473.072	1122709.474							
CURVE			S 04°02'43.7" W	129.41	58°20'48.0"(RT)	43°09'49.7"	135.17	74.10	132.74
PT	600343.985	1122700.345							
LINE			S 33°13'07.6" W	54.48					
POT	600298.411	1122670.500							

EY12C POINT	N	E	BEARING	DIST
POT	597952.446	1121278.842		
LINE			S 72°17'36.8" E	129.59
POT	597913.034	1121402.289		

EY13 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	599943.196	1122045.655							
LINE			N 36°53'05.9" E	109.00					
PC	600030.378	1122111.078							
CURVE			N 40°37'52.4" E	88.75	08°05'32.9"(RT)	09°06'37.8"	88.83	44.49	628.90
PT	600097.733	1122168.872							
LINE			N 44°44'33.6" E	202.70					
PC	600241.707	1122311.559							
CURVE			N 47°16'50.2" E	146.78	05°12'22.9"(RT)	03°32'44.9"	146.83	73.47	1615.88
PT	600341.285	1122419.397							
LINE			S 38°32'37.5" E	105.88					
PC	600258.472	1122485.372							
CURVE			S 41°39'01.6" E	66.69	06°12'48.3"(LT)	09°18'44.4"	66.72	33.39	615.27
PT	600208.641	1122529.693							
LINE			S 44°45'25.7" E	61.80					
POT	600164.754	1122573.210							

EY14 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	600721.972	1120029.245							
LINE			S 81°10'31.0" E	25.58					
PC	600718.047	1120054.526							
CURVE			S 83°35'26.0" E	299.73	04°49'50.0"(LT)	01°36'40.1"	299.82	150.00	3556.22
PCC	600684.587	1120352.386							
CURVE			S 87°52'08.8" E	214.65	03°43'35.4"(LT)	01°44'08.8"	214.69	107.38	3300.87
PCC	600676.606	1120566.887							
CURVE			S 88°55'45.8" E	254.60	01°36'21.3"(RT)	00°37'50.6"	254.61	127.31	9084.05
PT	600671.849	1120821.445							
LINE			S 88°07'35.2" E	904.66					
PC	600642.272	1121725.623							
CURVE			S 81°26'22.1" E	343.05	13°22'26.2"(RT)	03°53'22.9"	343.83	172.70	1473.02
PT	600591.207	1122064.851							
LINE			S 74°45'08.4" E	13.02					
PC	600587.783	1122077.413							
CURVE			S 65°24'46.9" E	560.47	18°40'44.3"(RT)	03°19'04.8"	562.96	284.00	1726.82
PT	600354.586	1122587.066							
LINE			S 56°04'24.7" E	809.43					
POT	599902.820	1123258.694							

EY14A POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	600441.386	1120063.866							
LINE			N 52°29'47.7" E	105.20					
PC	600505.434	1120147.323							
CURVE			N 45°08'00.8" E	53.93	14°43'33.9"(LT)	27°13'48.1"	54.08	27.19	210.41
PCC	600543.480	1120185.548							
CURVE			N 34°41'55.9" E	72.92	06°08'35.8"(LT)	08°25'14.3"	72.96	36.51	680.42
PT	600603.432	1120227.058							
LINE			N 31°37'38.0" E	102.06					
POT	600690.333	1120280.577							

EY14B POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	599774.487	1122985.849							
LINE			N 19°22'48.9" E	267.34					
POT	600026.676	1123074.561							
LINE			N 09°48'10.0" E	39.48					
POT	600065.582	1123081.283							
LINE			N 09°48'10.0" E	102.53					
PC	600166.615	1123098.740							
CURVE			N 03°01'49.8" E	74.47	13°32'40.5"(LT)	18°08'45.1"	74.64	37.50	315.75
PT	600240.980	1123102.677							
LINE			N 03°44'30.5" W	105.59					
POT	600346.347	1123095.786					</		

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EXISTING ALIGNMENTS

EY15A									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	600786.304	1120027.809							
LINE			N 75°34'20.4" E	167.47					
PC	600828.031	1120190.001							
CURVE			N 88°05'36.4" E	34.16	25°02'32.0"(RT)	72°43'34.2"	34.43	17.50	78.78
PT	600829.168	1120224.143							
LINE			S 79°23'07.6" E	35.64					
POT	600822.602	1120259.177							

EY15B				
POINT	N	E	BEARING	DIST
POT	600825.433	1120693.654		
LINE			N 12°43'16.0" E	172.00
POT	600993.210	1120731.529		

EY16									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	601566.403	1120906.762							
LINE			S 88°35'32.0" E	96.91					
PC	601564.022	1121003.638							
CURVE			N 86°25'57.6" E	155.32	09°57'00.8"(LT)	06°23'53.3"	155.52	77.95	895.51
PT	601573.687	1121158.659							
LINE			N 81°27'27.2" E	42.70					
PC	601580.030	1121200.889							
CURVE			N 78°05'25.0" E	126.72	06°44'04.4"(LT)	05°18'41.4"	126.79	63.47	1078.71
PT	601606.181	1121324.880							
LINE			N 74°43'22.8" E	245.92					
PC	601670.978	1121562.115							
CURVE			N 79°20'59.0" E	66.39	09°15'12.4"(RT)	13°55'20.5"	66.46	33.30	411.54
PCC	601683.249	1121627.363							
CURVE			S 88°05'51.8" E	272.81	15°51'05.9"(RT)	05°47'31.0"	273.68	137.72	989.23
PCC	601674.193	1121900.025							
CURVE			S 73°34'21.1" E	66.17	13°11'55.6"(RT)	19°54'11.8"	66.31	33.30	207.07
PT	601655.480	1121963.492							

EY16A									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	601834.722	1121903.880							
LINE			S 61°06'51.0" W	206.32					
PC	601735.058	1121723.233							
CURVE			S 30°00'49.8" W	54.21	62°12'02.4"(LT)	109°11'53.7"	56.96	31.65	52.47
PT	601688.122	1121696.120							

EY17									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	603379.435	1120500.531							
CURVE			N 77°35'56.1" E	257.53	02°13'44.5"(RT)	00°51'55.8"	257.54	128.79	6620.00
PT	603434.741	1120752.051							
LINE			N 78°42'48.3" E	139.06					
PC	603461.957	1120888.423							
CURVE			N 72°39'09.8" E	204.83	12°07'17.0"(LT)	05°54'24.4"	205.21	102.99	970.00
PCC	603523.029	1121083.935							
CURVE			N 65°42'13.1" E	232.57	01°46'36.4"(LT)	00°45'50.2"	232.58	116.30	7500.00
PCC	603618.722	1121295.907							
CURVE			N 62°27'10.4" E	226.71	04°43'29.0"(LT)	02°05'00.5"	226.77	113.45	2750.00
PT	603723.569	1121496.912							

EY17A									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	603239.600	1121250.029							
CURVE			N 60°46'15.7" E	237.00	04°38'09.0"(LT)	01°57'19.8"	237.07	118.60	2930.00
PCC	603355.329	1121456.857							
CURVE			N 62°07'32.7" E	106.33	07°20'43.0"(RT)	06°54'11.2"	106.41	53.28	830.00
PT	603405.043	1121550.852							

EY18									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	606576.597	1120296.767							
CURVE			N 14°14'45.1" E	43.20	21°39'11.5"(LT)	49°49'20.7"	43.46	21.99	115.00
PCC	606618.471	1120307.399							
CURVE			N 05°28'06.4" E	213.83	04°05'54.1"(RT)	01°54'58.5"	213.87	106.98	2990.00
PCC	606831.326	1120327.776							
CURVE			N 08°56'46.3" E	234.35	02°51'25.6"(RT)	01°13'08.6"	234.37	117.21	4700.00
PCC	607062.822	1120364.219							
CURVE			N 09°10'03.9" E	76.89	02°24'50.4"(LT)	03°08'22.2"	76.89	38.45	1825.00
PCC	607138.725	1120376.468							
CURVE			N 10°01'51.8" E	79.48	04°08'26.2"(RT)	05°12'31.3"	79.49	39.76	1100.00
PT	607216.987	1120390.312							
LINE			N 12°06'04.8" E	85.02					
POT	607300.116	1120408.135							

EY19									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	603932.739	1119834.036							
CURVE			N 73°27'00.7" E	286.26	02°20'35.7"(LT)	00°49'06.6"	286.28	143.16	7000.00
PCC	604014.280	1120108.439							
CURVE			N 67°13'40.7" E	168.15	10°06'04.4"(LT)	05°59'58.4"	168.37	84.40	955.00
PT	604079.364	1120263.480							
LINE			N 62°10'38.5" E	1585.85					
PC	604819.539	1121666.003							
CURVE			N 61°37'47.7" E	229.31	01°05'41.6"(LT)	00°28'38.9"	229.31	114.66	12000.00
PT	604928.498	1121867.770							

EY19A									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	603823.377	1120296.422							
LINE			N 12°40'39.9" W	166.14					
PC	603985.468	1120259.959							
CURVE			N 18°38'13.4" W	83.06	11°55'07.0"(LT)	14°19'26.2"	83.21	41.75	400.00
PT	604064.170	1120233.416							

EY19AB									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	603650.800	1120472.000							
CURVE			N 82°42'30.0" E	160.96	02°20'27.2"(RT)	01°27'15.1"	160.97	80.50	3940.00
PCC	603671.229	1120631.660							
CURVE			N 81°25'39.7" E	88.10	04°54'07.7"(LT)	05°33'45.7"	88.13	44.09	1030.00
PT	603684.361	1120718.774							

EY19B									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	604625.378	1121298.096							
LINE			N 27°49'21.5" W	24.99					
PC	604647.483	1121286.430							
CURVE			N 49°58'30.2" W	69.38	44°18'17.4"(LT)	62°16'40.9"	71.14	37.46	92.00
PCC	604692.103	1121233.300							
CURVE			N 74°12'34.2" W	78.11	04°09'50.6"(LT)	05°19'47.4"	78.13	39.08	1075.00
PCC	604713.359	1121158.138							
CURVE			N 63°38'53.7" W	85.36	25°17'11.7"(RT)	29°22'56.8"	86.06	43.74	195.00
PCC	604751.250	1121081.645							
CURVE			N 35°54'25.3" W	57.30	30°11'45.2"(RT)	52°05'13.5"	57.97	29.68	110.00
PCC	604797.664	1121048.038							
CURVE			N 21°27'19.8" W	203.08	01°17'34.3"(LT)	00°38'11.8"	203.08	101.55	9000.00
PCC	604986.670	1120973.756							
CURVE			N 17°45'12.0" W	131.94	08°41'50.1"(RT)	06°35'08.6"	132.06	66.16	870.00
PT	605112.322	1120933.527							

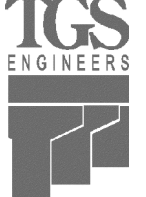


EY19C									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	604816.694	1121660.613							
CURVE			N 36°25'41.7" W	39.33	12°32'35.4"(RT)	31°49'51.6"	39.41	19.78	180.00
PCC	604848.337	1121637.260							
CURVE			N 29°00'58.6" W	155.24	02°16'50.7"(RT)	01°28'08.8"	155.25	77.63	3900.00
PCC	604984.088	1121561.961							
CURVE			N 22°53'52.0" W	123.22	09°57'22.4"(RT)	08°04'11.4"	123.38	61.84	710.00
PT	605097.599	1121514.018							

EY20									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	604998.697	1120418.610							
CURVE			N 35°22'32.8" E	211.41	03°09'02.3"(RT)	01°29'24.5"	211.43	105.74	3845.00
PT	605171.072	1120541.000							
LINE			N 36°57'03.9" E	146.00					
PC	605287.750	1120628.767							
CURVE			N 34°24'24.5" E	192.66	05°05'18.0"(LT)	02°38'25.3"	192.72	96.4	

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EXISTING ALIGNMENTS

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02C-14
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
2/14/2020	
DocuSigned by:  68030F11473E47D	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EY21									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	605467.711	1119976.178							
LINE			N 49°27'58.3" E	80.83					
PC	605520.243	1120037.612							
CURVE			N 43°40'19.3" E	121.95	11°35'18.1"(LT)	09°29'09.8"	122.16	61.29	604.00
PCC	605608.452	1120121.824							
CURVE			N 38°49'28.0" E	160.25	01°53'35.5"(RT)	01°10'52.9"	160.26	80.14	4850.00
PCC	605733.298	1120222.290							
CURVE			N 35°41'47.4" E	120.79	08°08'56.8"(LT)	06°44'26.4"	120.89	60.55	850.00
PCC	605831.396	1120292.772							
CURVE			N 30°26'35.1" E	176.93	02°21'27.7"(LT)	01°19'56.9"	176.94	88.48	4300.00
PCC	605983.933	1120382.419							
CURVE			N 29°53'47.2" E	107.03	01°15'51.8"(RT)	01°10'52.9"	107.03	53.52	4850.01
PT	606076.718	1120435.765							
LINE			N 30°31'43.1" E	82.04					
PC	606147.381	1120477.437							
CURVE			N 31°36'28.5" E	112.64	02°09'30.9"(RT)	01°54'58.5"	112.65	56.33	2990.00
PCC	606243.311	1120536.471							
CURVE			N 28°18'41.7" E	114.44	08°45'04.5"(LT)	07°38'22.0"	114.55	57.39	750.00
PCC	606344.064	1120590.748							
CURVE			N 15°27'49.2" E	98.71	16°56'40.6"(LT)	17°06'11.6"	99.07	49.90	335.00
PCC	606439.203	1120617.067							
CURVE			N 06°27'11.4" E	166.44	01°04'35.0"(LT)	00°38'48.0"	166.45	83.23	8860.00
PCC	606604.593	1120635.774							
CURVE			N 08°34'44.2" E	95.74	05°19'40.5"(RT)	05°33'45.7"	95.78	47.92	1030.00
PCC	606699.266	1120650.056							
CURVE			N 18°32'48.8" E	195.79	14°36'28.8"(RT)	07°26'27.6"	196.32	98.69	770.00
PCC	606804.884	1120712.332							
CURVE			N 39°47'49.0" E	160.99	27°53'31.4"(RT)	17°09'15.9"	162.59	82.94	334.00
PCC	607008.578	1120815.379							
CURVE			N 67°46'52.1" E	108.19	28°04'34.8"(RT)	25°41'35.4"	109.28	55.76	223.00
PCC	607049.488	1120915.531							
CURVE			N 83°28'42.7" E	106.55	03°19'06.4"(RT)	03°06'50.0"	106.57	53.30	1840.00
PCC	607061.590	1121021.395							
CURVE			N 77°23'37.2" E	109.15	15°29'17.3"(LT)	14°08'49.6"	109.48	55.08	405.00
PT	607085.411	1121127.910							
LINE			N 69°38'58.5" E	148.65					
PC	607137.104	1121267.278							
CURVE			N 72°53'40.1" E	129.62	06°29'23.2"(RT)	05°00'14.4"	129.69	64.92	1145.00
PT	607175.230	1121391.166							
LINE			N 76°08'21.7" E	116.06					
POT	607203.034	1121503.847							

EY21A									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	607074.683	1121094.652							
CURVE			S 43°42'31.9" E	86.18	26°12'54.1"(LT)	30°09'20.4"	86.93	44.24	190.00
PCC	607012.390	1121154.200							
CURVE			S 60°27'08.9" E	159.82	07°16'19.8"(LT)	04°32'50.2"	159.92	80.07	1260.00
PCC	606933.577	1121293.231							
CURVE			S 68°38'12.4" E	93.57	09°05'47.2"(LT)	09°42'40.1"	93.67	46.93	590.00
PT	606899.491	1121380.374							

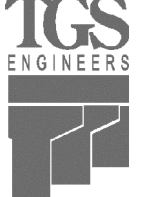


EY22									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	606316.512	1121637.416							
LINE			N 08°36'38.3" W	427.26					
PC	606738.960	1121573.447							
CURVE			N 08°26'10.0" W	325.07	00°20'56.6"(RT)	00°06'26.6"	325.07	162.54	53360.00
PCC	607060.513	1121525.757							
CURVE			N 09°14'51.1" W	297.34	01°58'18.9"(LT)	00°39'47.3"	297.36	148.69	8640.00
PCC	607353.991	1121477.974							
CURVE			N 13°40'14.7" W	309.97	06°52'28.3"(LT)	02°12'59.3"	310.16	155.26	2585.00
PCC	607655.180	1121404.714							
CURVE			N 14°28'51.5" W	67.84	05°15'14.9"(RT)	07°44'33.6"	67.86	33.95	740.00
PCC	607720.861	1121387.752							
CURVE			N 11°16'01.8" W	101.38	01°10'24.5"(RT)	01°09'27.0"	101.38	50.69	4950.00
PCC	607820.286	1121367.944							
CURVE			N 02°27'40.6" W	73.20	16°26'17.8"(RT)	22°22'52.2"	73.45	36.98	256.00
PT	607893.414	1121364.800							
LINE			N 05°45'28.3" E	64.27					
PC	607957.359	1121371.248							
CURVE			N 00°31'35.8" W	83.19	12°34'08.2"(LT)	15°04'40.2"	83.36	41.85	380.00
PCC	608040.549	1121370.484							
CURVE			N 12°30'37.6" W	166.84	11°23'55.4"(LT)	06°49'15.3"	167.11	83.83	840.00
PCC	608203.426	1121334.343							
CURVE			N 21°54'04.9" W	196.37	07°22'59.0"(LT)	03°45'25.6"	196.51	98.39	1525.00
PCC	608385.627	1121261.094							
CURVE			N 26°03'51.5" W	314.05	00°56'34.2"(LT)	00°18'00.8"	314.05	157.03	19085.00
PCC	608667.739	1121123.107							
CURVE			N 24°14'20.5" W	274.91	04°35'36.2"(RT)	01°40'13.6"	274.98	137.56	3430.00
PCC	608918.412	1121010.245							
CURVE			N 27°11'35.9" W	307.50	10°30'07.1"(LT)	03°24'37.7"	307.93	154.40	1680.00
PCC	609191.927	1120869.717							
CURVE			N 33°34'48.5" W	330.24	02°16'18.0"(LT)	00°41'16.2"	330.27	165.15	8330.00
PCC	609467.058	1120687.058							
CURVE			N 32°23'39.5" W	110.19	04°38'36.0"(RT)	04°12'46.5"	110.22	55.14	1360.00
PCC	609560.097	1120628.027							
CURVE			N 22°27'22.8" W	123.79	15°13'57.4"(RT)	12°16'08.1"	124.16	62.45	467.00
PCC	609674.501	1120580.741							
CURVE			N 15°06'41.8" W	97.64	00°32'35.3"(LT)	00°33'22.6"	97.64	48.82	10300.00
PCC	609768.766	1120555.286							
CURVE			N 19°24'13.0" W	164.06	08°02'27.1"(LT)	04°53'49.5"	164.20	82.23	1170.00
PT	609923.510	1120500.781							
LINE			N 23°25'26.6" W	112.63					
PC	610026.861	1120456.006							
CURVE			N 14°06'55.6" W	181.16	18°37'01.9"(RT)	10°13'53.0"	181.96	91.79	560.00
PCC	610202.553	1120411.825							
CURVE			N 01°40'18.2" W	289.86	06°16'12.9"(RT)	02°09'43.6"	290.01	145.15	2650.00
PCC	610492.292	1120403.369							
CURVE			N 07°06'56.4" E	240.32	11°18'16.3"(RT)	04°41'47.0"	240.71	120.75	1220.00
PT	610730.758	1120433.137							
LINE			N 12°46'04.2" E	97.19					
PC	610825.541	1120454.615							
CURVE			N 13°11'52.3" E	312.86	01°59'51.7"(LT)	00°38'18.6"	312.88	156.45	8973.66
PT	611130.138	1120526.046							
LINE			N 12°12'54.7" E	304.83					
POT	611428.064	1120590.543							

EY23									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	606369.992	1121753.272							
CURVE			N 04°57'40.0" W	300.39	06°56'38.9"(LT)	02°18'37.1"	300.57	150.47	2480.00
PT	606669.254	1121727.295							
LINE			N 08°25'59.5" W	212.87					
PC	606879.826	1121696.076							
CURVE			N 07°45'38.2" W	448.64	01°20'42.5"(RT)	00°17'59.4"	448.65	224.33	19110.00
PCC	607324.355	1121635.494							
CURVE			N 08°59'05.0" W	313.76	03°47'36.2"(LT)	01°12'31.6"	313.82	156.97	4740.00
PCC	607634.268	1121586.493							
CURVE			N 12°54'22.8" W	118.02	04°02'59.4"(LT)	03°25'51.2"	118.04	59.04	1670.00
PCC	607749.303	1121560.134							
CURVE			N 15°45'49.2" W	245.52	01°39'53.4"(LT)	00°40'41.0"	245.53	122.77	8450.00
PCC	607985.590	1121493.433							
CURVE			N 19°45'18.3" W	190.12	06°19'04.8"(LT)	03°19'17.4"	190.22	95.20	1725.00
PCC	608164.520	1121429.172							
CURVE			N 22°34'48.3" W	239.41	00°40'04.8"(RT)	00°16'44.5"	239.41	119.71	20535.00
PCC	608385.581	1121337.244							
CURVE			N 19°59'56.6" W	352.87	04°29'38.6"(RT)	01°16'23.7"	352.96	176.57	4500.00
PCC	608717.173	1121216.560							
CURVE			N 02°44'34.5" W	185.42	30°01'05.5"(RT)	16°00'15.9"	187.56	95.99	358.00
PCC	608902.385	1121207.687							
CURVE			N 14°27'34.8" E	210.51	04°23'13.1"(RT)	02°05'00.5"	210.56	105.33	2750.00
PCC	609106.225	1121260.250							
CURVE			N 19°10'52.0" E	65.19	05°03'21.4"(RT)	07°45'11.3"	65.21	32.63	739.00
PCC	609167.796	1121281.669							
CURVE			N 34°00'27.5" E</						

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EXISTING ALIGNMENTS

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02C-16
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 SEAL L-4775 NORTH CAROLINA PROFESSIONAL LAND SURVEYOR MATTHEW T. CORNWELL	
2/14/2020	
Designed by:  EBD06F1473E475	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EY34 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	611083.266	1118653.051	S 87°52'51.1" E	237.18					
LINE									
PC	611074.496	1118890.065	S 84°23'58.3" E	68.01	06°57'45.5"(RT)	10°13'53.0"	68.05	34.07	560.00
CURVE									
PT	611067.859	1118957.751	S 80°55'05.6" E	120.08					
LINE									
PC	611048.905	1119076.326	N 85°32'33.1" E	128.76	27°04'42.7"(LT)	20°50'05.4"	129.97	66.22	275.00
CURVE									
PCC	611058.912	1119204.698	N 70°30'49.6" E	197.55	02°58'44.3"(LT)	01°30'28.0"	197.57	98.81	3800.00
CURVE									
PT	611124.811	1119390.932							

EY34A POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	610826.072	1119136.780	N 07°19'47.1" E	65.10	06°32'50.9"(LT)	10°03'06.8"	65.14	32.60	570.00
CURVE									
PCC	610890.642	1119145.086	N 02°15'34.1" E	156.75	03°35'35.0"(LT)	02°17'30.6"	156.78	78.41	2500.00
CURVE									
PT	611047.271	1119151.266							

EY35 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	611428.369	1118410.499	N 36°37'09.8" E	240.91	02°20'23.0"(LT)	00°58'16.0"	240.93	120.48	5900.00
CURVE									
PCC	611621.730	1118554.203	N 39°51'51.4" E	184.74	08°49'46.0"(RT)	04°46'28.7"	184.92	92.65	1200.00
CURVE									
PT	611763.530	1118672.617							

EY36 POINT	N	E	BEARING	DIST
POT	611848.701	1118190.435	N 37°16'40.8" E	379.46
LINE				
POT	612150.637	1118420.266		

EY39 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	612964.752	1116688.553	N 44°29'25.7" E	74.23	08°20'47.7"(LT)	11°14'04.1"	74.29	37.21	510.00
CURVE									
PCC	613017.704	1116740.571	N 40°47'22.8" E	46.34	00°56'41.7"(RT)	02°02'20.4"	46.34	23.17	2810.00
CURVE									
PCC	613052.790	1116770.846	N 37°32'13.4" E	232.59	07°27'00.4"(LT)	03°12'03.2"	232.75	116.54	1790.00
CURVE									
PT	613237.224	1116912.556							

EY39A POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	613975.974	1116208.778	N 80°44'23.4" E	64.67					
LINE									
PC	613986.381	1116272.606	N 72°56'12.7" E	92.32	15°36'21.3"(LT)	16°51'06.1"	92.61	46.59	340.00
CURVE									
PT	614013.470	1116360.863	N 65°08'02.1" E	215.68					
LINE									
POT	614104.164	1116556.549							

EY40 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	615728.498	1115806.362	N 44°52'19.0" E	992.37					
LINE									
PC	616431.774	1116506.502	N 44°22'46.5" E	196.70	00°59'05.1"(LT)	00°30'02.2"	196.71	98.36	11445.00
CURVE									
PCC	616572.363	1116644.078	N 44°51'08.3" E	105.10	01°55'48.7"(RT)	01°50'11.1"	105.11	52.56	3120.00
CURVE									
PCC	616646.873	1116718.205	N 71°11'09.1" E	235.64	50°44'12.9"(RT)	20°50'05.4"	243.52	130.39	275.00
CURVE									
PCC	616722.867	1116941.255	S 79°10'49.6" E	109.33	08°31'49.8"(RT)	07°47'43.2"	109.43	54.82	735.00
CURVE									
PT	616702.344	1117048.642	S 74°54'54.7" E	631.60					
LINE									
POT	616537.972	1117658.474							

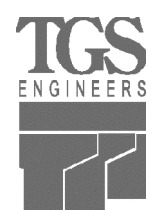

EY41 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	616220.459	1114843.570	N 60°17'25.0" E	269.12	02°45'13.5"(RT)	01°01'23.3"	269.15	134.60	5600.00
CURVE									
PT	616353.837	1115077.314	N 61°40'01.8" E	399.59					
LINE									
POT	616543.479	1115429.034							

EY44A POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	619398.238	1114108.524	N 65°10'36.7" E	19.98					
LINE									
PC	619406.625	1114126.656	N 84°47'37.0" E	42.30	39°14'00.6"(RT)	90°56'44.5"	43.14	22.45	63.00
CURVE									
PCC	619410.464	1114168.783	S 70°44'45.5" E	60.79	09°41'14.4"(RT)	15°54'55.8"	60.87	30.51	360.00
CURVE									
PT	619390.416	1114226.177	S 65°54'08.4" E	94.19					
LINE									
PC	619351.957	1114312.162	S 76°01'29.2" E	175.75	20°14'41.7"(LT)	11°27'33.0"	176.67	89.27	500.00
CURVE									
PT	619309.513	1114482.712	S 86°08'50.1" E	134.22					
LINE									
POT	619300.494	1114616.627							

EY44 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	619338.218	1113260.061	S 73°41'37.3" E	374.82	34°36'42.4"(LT)	09°05'40.4"	380.58	196.29	630.00
CURVE									
PCC	619232.980	1113619.800	N 71°42'06.4" E	145.70	34°35'50.1"(LT)	23°23'09.6"	147.94	76.30	245.00
CURVE									
PT	619278.726	1113758.135	N 54°24'11.4" E	89.57					
LINE									
PC	619330.864	1113830.969	N 61°47'23.0" E	143.99	14°46'23.1"(RT)	10°13'53.0"	144.39	72.60	560.00
CURVE									
PT	619398.929	1113957.856	N 69°10'34.5" E	136.79					
LINE									
POT	619447.558	1114085.712							

EY42 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	616543.479	1115429.034	N 61°40'01.8" E	24.43					
LINE									
PC	616555.074	1115450.540	N 26°32'16.5" E	64.45	70°15'30.5"(LT)	102°18'50.0"	68.67	39.40	56.00
CURVE									
PCC	616612.731	1115479.334	N 18°08'55.5" W	46.49	19°06'53.4"(LT)	40°55'32.0"	46.71	23.57	140.00
CURVE									
PT	616656.909	1115464.853	N 27°42'22.2" W	59.18					
LINE									
PC	616709.300	1115437.340	N 12°35'35.8" W	174.16	30°13'32.7"(RT)	17°09'15.9"	176.20	90.20	334.00
CURVE									
PCC	616879.272	1115399.368	N 06°13'11.5" E	45.95	07°24'02.0"(RT)	16°05'39.6"	45.98	23.02	356.00
CURVE									
PT	616924.951	1115404.346	N 09°55'12.5" E	195.56					
LINE									
PC	617117.585	1115438.036	N 04°05'59.6" E	242.37	11°38'25.9"(LT)	04°47'40.7"	242.78	121.81	1195.00
CURVE									
PCC	617359.330	1115455.364	N 07°25'27.1" W	177.50	11°24'27.4"(LT)	06°24'58.0"	177.80	89.19	893.00
CURVE									
PCC	617535.345	1115432.428	N 18°50'19.8" W	187.67	11°25'18.0"(LT)	06°04'33.3"	187.98	94.30	943.00
CURVE									
PCC	617712.964	1115371.828	N 25°02'11.2" W	278.24	00°58'24.9"(LT)	00°20'59.6"	278.25	139.13	16375.00
CURVE									
PT	617965.063	1115254.077	N 25°31'23.7" W	476.48					
LINE									
PC	618395.045	1115048.771	N 25°22'31.3" W	31.07	00°17'44.7"(RT)	00°57'06.3"	31.07	15.54	6020.00
CURVE									
PCC	618423.120	1115035.455	N 25°26'07.2" W	584.42	00°24'56.4"(LT)	00°04'16.0"	584.42	292.21	80560.00
CURVE									
PT	618950.895	1114784.450	N 25°38'35.3" W	560.54					

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW02D-1
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH. (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR  Matthew T. Cornwell EBS00611473E475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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 26th day of August, 2021.
 Documented by: Matthew Cornwell 8/26/2021
 EBS00611473E475
 Professional Land Surveyor L-4775

DR2			
TYPE	STATION	NORTH	EAST
PC	9+67.72	599313.4809	1122056.1428
PT	14+17.07	598881.9355	1121961.6018
POT	19+44.66	598357.1403	1122015.8571

LPA			
TYPE	STATION	NORTH	EAST
CS	10+00.00	607631.0903	1120800.5554
SC	11+00.00	607726.5516	1120771.6500
CS	16+41.98	607703.0415	1120347.2954
ST	17+93.98	607552.8092	1120329.6614
POT	19+85.84	607360.9488	1120328.3565

Y2			
TYPE	STATION	NORTH	EAST
PC	10+00.00	600817.0131	1119617.1478
PT	18+74.86	600683.0338	1120479.5156
PC	31+23.49	600642.2111	1121727.4802
PCC	33+85.35	600610.0768	1121987.0016
PT	40+68.73	600342.4846	1122611.2796
POT	48+51.32	599903.0481	1123258.8483

DR3			
TYPE	STATION	NORTH	EAST
POT	10+00.00	607427.0377	1119826.4864
PC	10+74.87	607500.0931	1119842.8778
PT	12+53.63	607597.3273	1119974.8378
PC	13+28.63	607591.3320	1120049.5977
PT	15+11.47	607692.5530	1120182.3842
POT	17+39.28	607916.3400	1120224.9914

LPB			
TYPE	STATION	NORTH	EAST
CS	10+00.00	600425.5499	1121584.1187
SC	11+00.00	600246.8152	1121586.9117
CS	17+77.34	600235.5158	1121143.9958
ST	19+29.34	600386.3273	1121132.3082
POT	22+04.55	600661.3857	1121141.3058

Y3			
TYPE	STATION	NORTH	EAST
PC	10+00.00	607460.8376	1119239.2065
PCC	12+83.25	607495.5242	1119514.9485
PRC	16+78.75	607410.2084	1119901.1315
PT	39+64.07	608151.6362	1121932.4489
PC	44+96.40	608576.0420	1122253.7880
PRC	46+33.56	608685.7997	1122336.0514
PT	48+72.98	608877.2459	1122479.8208
PC	51+53.93	609100.9164	1122649.8344
PT	54+12.24	609288.3002	1122826.9095
POT	55+61.27	609385.0442	1122940.2658

DR4			
TYPE	STATION	NORTH	EAST
POT	10+00.00	608978.5127	1122086.1530
POT	14+28.87	609348.1567	1122303.6195

LPC			
TYPE	STATION	NORTH	EAST
TS	10+00.00	600391.8818	1121684.1510
SC	11+00.00	600219.9031	1121732.9867
CS	16+64.95	600228.3682	1122132.8791
ST	18+16.95	600373.9483	1122173.9538
POT	19+94.16	600548.7478	1122203.0522

Y4			
TYPE	STATION	NORTH	EAST
POT	10+00.00	606316.5259	1121637.4139
PC	15+79.06	606889.0615	1121550.7174
PT	17+33.96	607042.3841	1121528.7137
PC	21+94.07	607498.3181	1121466.8815
PT	23+10.59	607611.5479	1121440.1424
POT	23+78.77	607676.0688	1121418.1140

L3			
TYPE	STATION	NORTH	EAST
POT	731+00.00	596332.1781	1122078.4228
PC	761+78.86	599394.7111	1121761.8067
PT	787+28.97	601911.5837	1121359.6243
TS	815+04.66	604624.0287	1120770.4413
SC	817+29.66	604844.3318	1120724.7466
CS	833+07.13	606411.4947	1120742.6387
SRS	835+32.13	606630.6971	1120793.3512
SC	838+92.13	606982.9970	1120866.7169
CS	846+99.38	607782.3587	1120811.6024
ST	850+59.38	608121.2558	1120690.5800
TS	859+15.54	608918.1051	1120377.4681
SC	861+15.54	609104.0369	1120303.7857
CS	883+54.48	611086.3730	1119270.6410
ST	885+54.48	611253.2708	1119160.4373
TS	900+61.18	612508.1816	1118326.5782
SC	902+41.18	612657.3549	1118225.8513
CS	911+50.43	613338.7183	1117626.6887
ST	913+30.43	613457.6916	1117491.6186
TS	914+86.00	613559.6540	1117374.1133
SC	916+66.00	613678.5911	1117239.0110
CS	932+91.10	614973.1596	1116273.5406
ST	934+71.10	615136.5705	1116198.0718
TS	938+97.55	615524.9966	1116022.0448
SC	940+77.55	615688.5595	1115946.9017
CS	945+78.89	616132.1605	1115713.6528
ST	947+58.89	616286.7768	1115621.4946
TS	952+81.10	616733.9563	1115351.8195
SC	954+61.10	616888.5722	1115259.6606
CS	959+17.52	617291.6208	1115045.7193
ST	960+97.52	617454.5916	1114969.3006
POT	1011+06.42	622000.5611	1112866.1660

LPD			
TYPE	STATION	NORTH	EAST
CS	10+00.00	607749.8598	1120869.2684
SRS	12+40.00	607979.3186	1120799.0589
SC	14+80.00	608213.9782	1120765.0655
CS	20+03.89	608308.2154	1121172.0561
ST	21+55.89	608171.2982	1121236.3551
POT	26+86.19	607669.4405	1121407.6969

Y5			
TYPE	STATION	NORTH	EAST
PC	10+00.00	610954.0618	1119502.4276
PCC	13+09.41	610694.9593	1119671.5484
PT	17+89.08	610492.6084	1120081.6159
POT	21+12.60	610516.7075	1120404.2370

L3TIE			
TYPE	STATION	NORTH	EAST
PC	10+00.00	620648.4495	1113466.3610
PRC	13+64.98	620990.4725	1113340.0816
PT	17+29.95	621332.4955	1113213.8021

RPA			
TYPE	STATION	NORTH	EAST
POT	10+00.00	609086.4684	1120260.1927
TS	11+86.58	608908.8564	1120317.3315
SC	13+54.58	608748.0342	1120365.8355
CS	20+29.09	608079.4041	1120389.6062
SRS	21+97.09	607915.5435	1120352.6452
SC	23+89.09	607727.7137	1120313.2643
PT	25+15.95	607601.2895	1120303.9905
POT	27+55.95	607361.2951	1120302.3582

Y6			
TYPE	STATION	NORTH	EAST
PC	8+89.78	609560.0974	1120628.0266
PRC	10+00.00	609467.0582	1120687.0581
PRC	11+11.11	609375.3068	1120749.7261
PT	18+11.57	609312.3569	1121360.8234
PC	20+33.49	609467.3036	1121519.6834
PT	25+55.37	609525.7180	1122001.8053
POT	33+34.37	609130.7105	1122673.2291

L3TIE			
TYPE	STATION	NORTH	EAST
PC	10+00.00	620648.4495	1113466.3610
PRC	13+64.98	620990.4725	1113340.0816
PT	17+29.95	621332.4955	1113213.8021

RPB			
TYPE	STATION	NORTH	EAST
TS	10+00.00	598766.8426	1121779.4676
SC	11+00.00	598945.5115	1121757.8034
CS	20+59.65	599741.6580	1121407.3340
SRS	22+09.65	599856.1021	1121310.3872
SC	23+93.65	600000.6756	1121196.8911
PT	27+44.28	600334.1580	1121106.5889
POT	30+72.47	600662.1704	1121117.3186

Y7			
TYPE	STATION	NORTH	EAST
PC	10+00.00	619338.2184	1113260.0613
PCC	13+80.58	619232.9805	1113619.8004
PT	15+28.52	619278.7256	1113758.1353
PC	16+18.09	619330.8638	1113830.9697
PT	17+62.48	619398.9293	1113957.8566
POT	18+64.30	619435.1278	1114053.0309
POT	23+30.50	619600.8564	1114488.7706

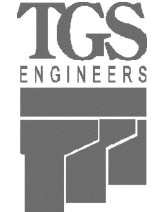

RPC			
TYPE	STATION	NORTH	EAST
POT	10+00.00	598873.4922	1121862.9428
TS	12+73.43	599146.7883	1121854.4218
SC	14+83.43	599356.7234	1121853.6490
CS	19+82.04	599837.1036	1121974.8282
SRS	21+50.04	599985.5522	1122053.4165
SC	23+34.04	600149.1792	1122137.3774
PT	25+45.20	600351.3529	1122196.5502
POT	27+36.20	600539.7602	1122227.9138

Y7A			
TYPE	STATION	NORTH	EAST
PC	10+00.00	618574.8836	1113534.7282
PT	11+16.42	618609.4708	1113645.4046
PC	13+11.44	618695.7206	1113820.3143
PCC	14+23.38	618750.7359	1113917.7313
PT	14+83.98	618788.4370	1113965.0476
PC	16+35.98	618894.8483	1114073.5862
PT	17+21.53	618943.2258	1114143.6349
POT	18+45.84	618995.4209	1114256.4556

RPD			
TYPE	STATION	NORTH	EAST
TS	10+00.00	609362.1190	1120247.2809
SC	13+00.00	609092.3011	1120377.8644
CS	17+48.22	608764.4599	1120679.0305
SRS	19+40.22	608661.2124	1120840.8310
SC	21+32.22	608555.8532	1121001.1772
PT	25+68.84	608204.6426	1121250.3310
POT	31+20.29	607682.7718	1121428.5056

Y			
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RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	RW03E-1
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 DeaSigned by: Matthew Cornwell EBO06F1473E475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
L3	731+35.00	136.00	596380.9782	1122210.1025
L3	731+36.21	-240.00	596343.5108	1121835.9720
L3	734+50.00	-268.00	596652.7626	1121775.8512
L3	735+63.57	253.20	596819.3258	1122282.6101
L3	738+55.78	195.03	597104.0057	1122194.6967
L3	738+79.82	150.00	597123.2863	1122147.4346
L3	738+83.56	150.00	597096.1573	1121848.6403
L3	740+30.76	-150.00	597242.5808	1121833.5025
L3	740+30.76	150.00	597273.4315	1122131.9120
L3	742+04.50	-161.93	597414.1671	1121803.7697
L3	742+92.42	150.00	597533.7008	1122105.0044
L3	743+86.00	-170.00	597593.8782	1121777.0775
L3	744+28.18	154.60	597669.2136	1122095.6143
L3	747+50.00	162.00	597990.0898	1122069.8851
L3	748+00.00	-170.00	598005.6833	1121734.5035
L3	749+00.00	115.00	598134.4613	1122007.7090
L3	749+49.31	-125.80	598158.7446	1121763.1188
L3	750+08.52	117.01	598242.6095	1121998.5489
L3	751+00.55	173.98	598340.0101	1122045.7529
L3	751+07.07	137.95	598342.7894	1122009.2408
L3	751+10.65	118.10	598344.3101	1121989.1305
L3	751+58.43	-145.64	598364.7149	1121721.8753
L3	753+50.00	130.00	598583.6181	1121976.3534
L3	775+16.44	203.98	600753.1887	1121786.9924
L3	776+07.87	-128.34	600789.5705	1121444.2064
L3	778+00.00	-115.00	600980.1999	1121425.1536
L3	778+81.00	-186.00	601047.0570	1121341.2100
L3	779+11.51	-314.97	601053.9667	1121208.9360
L3	779+31.66	-372.01	601063.3494	1121149.2765
L3	780+50.00	-145.00	601219.4771	1121351.3888
L3	780+55.00	-250.00	601205.0893	1121247.2612
L3	782+92.74	-160.42	601453.3711	1121290.7903
L3	783+37.00	192.00	601565.4117	1121627.8490
L3	783+70.00	-170.00	601526.7301	1121266.4106
L3	784+81.00	208.00	601710.9472	1121614.6757
L3	785+10.00	-153.00	601666.3385	1121255.2678
L3	786+00.00	-119.00	601760.8741	1121270.2175
L3	787+23.47	-108.62	601883.1839	1121254.6445
L3	787+50.00	178.00	601969.9222	1121529.1031
L3	789+25.33	-127.50	602076.4068	1121193.3491
L3	789+80.00	145.00	602187.6763	1121448.0342
L3	790+86.57	-176.98	602223.4696	1121110.7710
L3	791+02.57	-121.44	602250.8976	1121161.6525
L3	792+00.00	91.00	602391.2007	1121348.5664
L3	793+45.00	-105.00	602491.2925	1121126.2545
L3	794+50.00	168.00	602651.8481	1121370.7456
L3	796+00.00	-200.00	602720.3165	1120979.2918
L3	797+40.00	-280.00	602840.1450	1120871.3977
L3	798+00.00	250.00	603011.2781	1121376.5843
L3	799+00.00	166.00	603091.1691	1121273.2720
L3	800+00.00	135.00	603182.3101	1121221.7519
L3	801+50.00	96.00	603320.6136	1121151.8009
L3	802+00.00	-107.00	603326.3844	1120942.8136
L3	802+30.71	148.31	603410.5836	1121185.7901
L3	802+67.82	-119.56	603389.9904	1120916.1411
L3	803+58.62	-136.75	603475.0757	1120880.0678
L3	803+68.26	174.78	603550.6242	1121182.4555
L3	804+20.00	185.00	603603.3524	1121181.4613
L3	804+61.53	-165.52	603569.5281	1120830.1101
L3	804+72.82	189.29	603655.8813	1121174.4437
L3	804+79.76	-172.41	603585.8811	1120819.5096
L3	804+86.30	-151.71	603596.6667	1120838.3517
L3	805+20.00	190.00	603702.1350	1121165.1208
L3	805+50.00	-145.00	603660.3426	1120831.3868
L3	807+25.00	112.00	603885.9068	1121045.3840
L3	808+00.00	-105.00	603913.1362	1120817.4091
L3	808+50.00	125.00	604010.8178	1121031.5546
L3	811+40.00	-105.00	604245.3884	1120745.2390
L3	812+05.00	147.00	604362.3979	1120977.6993
L3	813+05.00	-133.17	604400.6484	1120682.6852
L3	814+00.00	110.00	604545.1005	1120900.1508
L3	814+95.00	-142.00	604584.4449	1120633.7281
L3	815+20.00	132.00	604667.0190	1120896.1820
L3	815+50.00	-135.00	604639.8317	1120628.8783
L3	815+85.00	108.00	604725.1019	1120859.1027
L3	816+50.00	-105.00	604745.0909	1120637.2854
L3	817+30.30	103.96	604864.1441	1120826.7987
L3	818+20.00	-110.00	604915.4254	1120600.5265
L3	819+05.22	-281.79	604977.6775	1120417.1609
L3	819+45.15	-104.09	605043.3923	1120587.4852
L3	820+90.00	-102.27	605191.2161	1120572.4203
L3	822+00.00	135.00	605319.8117	1120799.9066
L3	822+20.00	-105.00	605323.9413	1120559.1170
L3	823+20.00	105.00	605434.4483	1120763.7650
L3	824+39.71	106.74	605550.9945	1120762.7988
L3	824+50.00	-120.00	605559.7211	1120535.9926

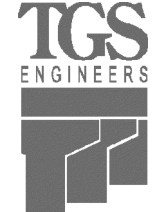
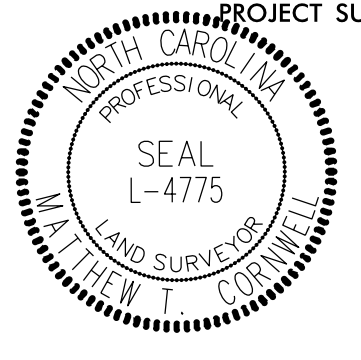

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
L3	826+30.00	-130.00	605745.4724	1120529.1179
L3	826+75.00	100.00	605780.2622	1120760.9113
L3	828+00.00	-187.10	605925.3289	1120482.8330
L3	828+35.00	-200.00	605962.9966	1120473.1394
L3	829+00.00	125.16	605996.2466	1120803.1746
L3	832+42.02	246.03	606300.6628	1120971.1714
L3	832+55.00	-142.00	606388.0198	1120592.8826
L3	833+25.00	170.00	606393.0507	1120912.5396
L3	834+65.00	175.00	606524.8113	1120947.8840
L3	835+32.13	-140.47	606663.6409	1120656.7958
L3	837+62.22	-122.81	606879.2156	1120724.0311
L3	838+15.00	165.00	606877.5686	1121016.7126
L3	838+42.29	-120.54	606953.7600	1120740.1559
L3	838+45.00	127.00	606915.4997	1120984.7383
L3	839+00.00	-110.00	607005.9610	1120758.8697
L3	839+38.00	116.84	607014.6665	1120988.7062
L3	839+38.00	155.00	607010.1564	1121026.5983
L3	839+80.00	220.08	607049.0332	1121096.2414
L3	840+16.58	220.03	607089.6724	1121099.7343
L3	840+67.00	195.00	607147.0623	1121078.3429
L3	840+67.00	110.00	607151.3894	1120993.4531
L3	841+74.01	-137.83	607263.2578	1120748.2229
L3	842+14.57	110.00	607307.4036	1120995.3720
L3	862+75.00	-100.00	609212.8549	1120150.9340
L3	864+90.54	181.03	609522.6128	1120323.5744
L3	865+00.00	-155.00	609395.4451	1120012.3966
L3	865+39.53	181.50	609568.2844	1120303.8104
L3	866+62.15	-105.00	609562.1467	1119992.0812
L3	867+02.43	-105.00	609598.3853	1119975.3568
L3	867+19.47	-111.80	609610.8286	1119962.0835
L3	867+83.80	183.85	609794.7592	1120202.3771
L3	868+25.00	-140.00	609693.2334	1119892.0923
L3	868+61.67	115.00	609836.3620	1120106.2907
L3	868+71.67	-271.46	609677.7644	1119753.7321
L3	869+16.89	119.50	609888.5345	1120086.0593
L3	870+29.55	166.07	610011.4340	1120077.4395
L3	871+28.70	-101.39	609979.8365	1119793.8527
L3	871+64.70	172.17	610136.5514	1120020.9579
L3	874+60.00	-130.00	610256.5272	1119615.4815
L3	875+60.00	-110.00	610352.8267	1119585.1711
L3	880+40.00	-100.00	610768.3161	1119353.5515
L3	881+19.29	109.32	610945.8821	1119489.8543
L3	882+87.95	107.01	611088.4653	1119396.7953
L3	883+42.25	-100.00	611021.5957	1119193.4905
L3	883+57.20	91.68	611138.7342	1119345.9431
L3	884+05.37	-103.32	611072.1727	1119156.4312
L3	895+10.83	96.11	612102.9939	1118711.2135
L3	897+33.01	-125.00	612165.6753	1118404.0861
L3	897+42.23	-98.24	612188.1585	1118421.2722
L3	898+64.51	98.76	612399.0355	1118517.6827
L3	899+75.00	-135.00	612361.6917	1118261.8314
L3	902+38.80	106.22	612716.0945	1118314.3800
L3	902+88.73	123.60	612768.0724	1118298.9919
L3	903+29.36	-113.82	612662.0342	1118082.7083
L3	903+29.97	-135.69	612649.6083	1118064.6982
L3	904+84.89	-148.72	612760.7187	1117963.8842
L3	904+92.38	127.41	612938.0444	1118175.6793
L3	906+35.43	-155.81	612868.1454	1117866.4546
L3	906+39.12	-123.35	612891.9397	1117888.8228
L3	906+65.87	128.82	613076.7051	1118062.5107
L3	906+81.61	159.01	613108.8176	1118074.5901
L3	907+10.95	159.36	613131.9514	1118054.7098
L3	908+60.47	157.72	613245.2099	1117948.3295
L3	908+65.00	-125.00	613053.1913	1117740.7695
L3	908+77.64	157.12	613257.6732	1117935.5536
L3	910+05.00	-105.00	613163.9040	1117659.2785
L3	910+15.00	121.59	613333.2924	1117810.1177
L3	910+85.23	118.29	613380.8158	1117755.5167
L3	911+50.43	-105.00	613260.9650	1117556.1235
L3	913+30.43	-105.00	613378.3858	1117422.8030
L3	914+86.00	-105.00	613480.3442	1117305.3022
L3	916+66.00	-105.00	613600.7768	1117168.5133
L3	920+00.00	-105.00	613840.5194	1116924.2221
L3	922+50.00	-150.00	614003.4510	1116719.7312
L3	923+25.00	-110.00	614088.6139	1116701.6683
L3	926+84.95	-110.00	614386.0200	1116482.7706
L3	931+55.00	96.11	614895.7350	1116419.6212
L3	934+50.00	105.00	615160.7194	1116302.4091
L3	937+00.00	105.00	615388.3990	1116199.2270

REVISIONS

25-AUG-2021 09:12
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mccornwell

I, Matthew T. Cornwell, certify that the right of way

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	RW03E-2
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
	
PROJECT SURVEYOR Documented by:  Matthew Cornwell ESD00611475E475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
L3	937+80.00	135.00	615473.6489	1116193.5303
L3	939+50.00	105.00	615616.2237	1116095.9560
L3	942+32.47	110.00	615877.3381	1115977.1154
L3	942+50.00	-157.03	615772.1884	1115731.0349
L3	942+65.52	110.00	615907.3592	1115961.8485
L3	945+40.00	-139.50	616029.1075	1115612.0838
L3	945+50.00	110.00	616162.0217	1115823.4663
L3	947+20.00	165.00	616338.5724	1115782.9294
L3	949+10.00	165.00	616501.3831	1115684.7561
L3	949+70.00	-94.38	616418.8136	1115431.6535
L3	951+70.00	105.00	616693.0451	1115499.1068
L3	951+80.00	-90.00	616600.9066	1115326.9572
L3	953+56.00	120.00	616859.8970	1115416.0798
L3	954+24.62	125.80	616921.0052	1115386.4643
L3	955+10.80	138.30	617000.1899	1115354.9444
L3	955+75.00	155.00	617062.9114	1115338.7748
L3	957+85.00	155.00	617243.2964	1115242.6549
L3	958+65.00	-120.00	617191.3648	1114961.0772
L3	960+00.00	-98.00	617324.5923	1114921.6273
L3	960+97.52	-97.00	617413.8605	1114881.2667
L3	962+00.00	110.00	617593.7844	1115026.1063
L3	962+00.00	-130.00	617493.0132	1114808.2872
L3	963+50.00	178.00	617758.4732	1115024.8397
L3	964+50.00	153.00	617838.7342	1114960.1622
L3	964+50.00	-215.00	617684.2183	1114626.1729
L3	966+00.00	120.00	617961.0150	1114867.2301
L3	968+50.00	160.00	618204.7052	1114798.5633
L3	968+50.00	-246.34	618034.0905	1114429.7760
L3	969+10.00	-250.00	618007.0091	1114401.2628
L3	969+75.00	180.00	618326.5502	1114764.2298
L3	971+00.00	160.00	618431.6000	1114693.5932
L3	972+00.00	110.00	618501.3640	1114606.2263
L3	972+00.00	-120.00	618404.7916	1114397.4829
L3	973+10.00	-110.00	618508.8241	1114360.3719
L3	974+85.00	-160.00	618646.6566	1114241.5139
L3	976+00.00	215.00	618908.4833	1114533.5701
L3	976+75.00	-175.00	618812.7985	1114148.1230
L3	979+60.00	110.00	619191.1245	1114287.1174
L3	980+11.70	-110.00	619145.6732	1114065.7419
L3	981+58.50	105.00	619369.1825	1114199.2320
L3	982+09.90	138.48	619429.8905	1114208.0398
L3	983+40.00	125.00	619542.3029	1114141.1767
L3	983+54.36	-106.31	619458.2180	1113925.2156
L3	985+85.00	200.00	619796.1509	1114106.3745
L3	986+10.00	-155.00	619669.7830	1113773.6867
L3	988+00.00	130.00	619961.8890	1113952.5697
L3	988+50.00	-95.00	619912.7949	1113727.3703
L3	990+35.00	-160.00	620053.4049	1113590.6998
L3	990+80.00	90.00	620199.2160	1113798.7001
L3	992+50.00	-115.00	620267.4292	1113541.2667
L3	993+95.00	100.00	620489.3024	1113675.5137
L3	993+95.00	-120.00	620396.9288	1113475.8462
L3	994+50.00	100.00	620539.2193	1113652.4203
L3	995+65.00	-245.00	620498.7323	1113291.0191
L3	996+15.00	170.00	620718.3615	1113646.6706
L3	996+75.00	181.73	620777.7418	1113632.1244
L3	996+75.00	-190.00	620621.6595	1113294.7492
L3	998+60.00	-90.00	620831.5497	1113307.8293
L3	998+80.00	95.00	620927.3791	1113467.3339
L3	1001+10.00	-75.00	621064.7428	1113216.4730
L3	1002+00.00	110.00	621224.1028	1113346.5860
L3	1002+50.00	135.00	621279.9788	1113348.2815
L3	1004+10.00	85.00	621404.1975	1113235.7217
L3	1004+10.00	105.00	621412.5951	1113253.8733
L3	1004+10.00	-35.00	621353.8119	1113126.8122
L3	1004+10.00	-15.00	621362.2095	1113144.9637

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
DR2	10+23.64	-27.85	599252.0379	1122054.6144
DR2	11+03.48	-58.49	599171.1253	1122053.7508
DR2	12+74.06	-58.33	599018.8800	1122019.4093
DR2	14+65.00	-52.00	598839.6031	1122018.2554
DR2	15+50.00	-62.00	598756.0821	1122036.9434
DR2	16+33.57	-29.36	598669.5986	1122013.0705
DR2	16+95.78	-35.00	598608.3015	1122025.0785

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
DR4	13+00.00	-33.26	609253.9484	1122209.6086
DR4	13+00.00	35.00	609219.3367	1122268.4407

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
RPA	14+10.00	70.00	608678.9021	1120310.5957
RPA	16+60.00	90.00	608441.7663	1120323.4495
RPA	20+29.09	75.00	608093.2147	1120315.8887
RPA	21+97.09	65.00	607931.0053	1120289.5109
RPA	23+89.09	75.00	607738.1531	1120238.9944
RPA	25+15.95	69.60	607601.7628	1120234.3959
RPA	26+35.00	80.00	607482.7869	1120223.1827

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
RPB	10+00.00	-136.00	598752.8567	1121644.1886
RPB	12+60.00	-127.00	598998.6126	1121619.1309
RPB	14+00.00	-166.00	599113.2961	1121550.3972
RPB	16+00.00	-170.00	599281.5149	1121485.8551
RPB	20+00.00	-200.00	599575.2157	1121283.0904
RPB	23+00.00	-200.00	599799.1607	1121096.3200
RPB	24+95.00	-170.00	600026.0568	1120993.2886

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
RPC	10+00.00	80.00	598875.9853	1121942.9039
RPC	11+91.42	89.99	599067.6263	1121946.9264
RPC	12+72.86	94.24	599149.1572	1121948.6377
RPC	14+83.23	128.33	599349.9629	1121981.8002
RPC	17+42.00	135.00	599577.8693	1122023.6032
RPC	18+97.77	166.46	599698.5963	1122096.0457
RPC	18+98.02	153.27	599703.6485	1122083.8620
RPC	21+17.07	160.60	599878.8610	1122177.8282
RPC	22+25.13	173.45	599969.4864	1122242.5394
RPC	22+95.00	165.00	600042.7274	1122270.2743
RPC	25+14.44	143.14	600292.6879	1122331.2622

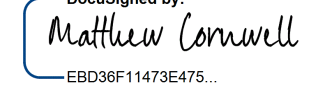
ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
RPD	13+25.00	-85.00	609116.4174	1120462.8378
RPD	15+20.00	-90.00	608976.7845	1120575.5566
RPD	17+97.00	-152.00	608863.2266	1120803.3585
RPD	20+30.00	-133.00	608726.6143	1120988.8593
RPD	21+48.00	-112.00	608632.6002	1121084.4821
RPD	27+57.39	-78.19	608051.4667	1121385.2447
RPD	29+85.00	-83.72	607837.8559	1121464.0194

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y2	16+79.04	-48.97	600743.5383	1120288.3234
Y2	18+74.86	-60.00	600743.0018	1120481.4772
Y2	20+00.00	41.27	600637.6941	1120603.2376
Y2	20+00.00	60.00	600618.9746	1120602.6252
Y2	20+00.00	-90.00	600768.8945	1120607.5293
Y2	21+00.00	60.00	600615.7053	1120702.5718
Y2	21+00.00	-87.00	600762.6267	1120707.3778
Y2	22+00.00	-65.00	600737.3690	1120806.6051
Y2	26+00.00	-142.00	600801.2503	1121208.9087
Y2	34+00.00	-155.00	600758.1123	1122035.4121
Y2	34+50.00	-155.00	600745.4139	1122088.2439
Y2	38+00.00	-95.00	600561.8322	1122419.3901
Y2	40+62.73	-88.41	600419.1677	1122655.7071

REVISIONS

C:\Users\me11\OneDrive\Desktop\PROJECTS\R2233BB RW REVISIONS\SHEET WORK\E-SERIES\R2233BB-1s-rw03e-2.dgn
8/26/2021 10:44 AM M.CORNWELL

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 58.1600 as applicable.

This 26th day of August, 2021.
 Documented by:

 Matthew Cornwell
 ESD00611475E475
 8/26/2021
 Professional Land Surveyor L-4775

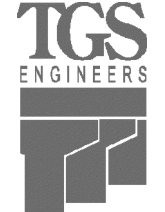
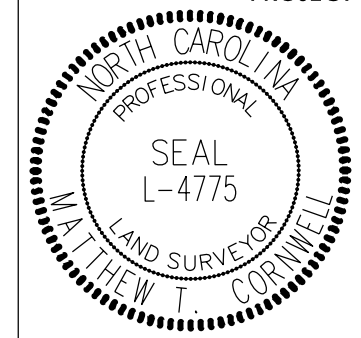
NOTES:

- POINT NOT SET - FELL IN BUILDING
- EXISTING IRON FOUND
- MAGNAIL SET

NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED 11/6/2017 TO 8/23/2021 .

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	RW03E-4
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 DocuSigned by: Matthew Cornwell EBD09F1473E475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y11	11+30.00	-75.00	616681.2734	1115544.1968
Y11	12+00.00	145.00	616510.6757	1115699.7487
Y11	12+00.00	-90.00	616724.1603	1115601.5179
Y11	12+70.00	-105.00	616767.0473	1115658.8391
Y11	13+50.00	-70.00	616768.6919	1115746.1448
Y11	13+75.00	115.00	616611.0796	1115846.1866
Y11	14+80.38	-86.79	616838.4440	1115857.5697
Y11	14+90.00	40.00	616727.2834	1115919.3076
Y11	15+07.49	-87.84	616850.7300	1115881.7587
Y11	16+13.06	109.56	616715.5326	1116060.1797
Y11	17+00.00	-105.00	616948.1210	1116059.0894
Y11	17+67.32	283.84	616591.7847	1116223.4856
Y11	19+30.00	197.52	616686.0700	1116312.1394
Y11	19+50.00	-165.00	617046.7996	1116352.5991
Y11	19+85.00	220.00	616660.5756	1116345.8977
Y11	20+60.00	220.00	616651.3513	1116392.4619
Y11	20+60.00	180.00	616690.0267	1116402.6704
Y11	22+05.00	120.00	616710.4729	1116557.3843
Y11	22+50.00	-240.00	617046.3567	1116694.5231
Y11	23+15.00	-120.00	616913.5756	1116726.0535
Y11	24+41.70	45.00	616721.2865	1116805.4513
Y11	24+50.00	-60.00	616820.5095	1116840.7867
Y11	25+16.06	40.00	616706.7635	1116878.5451
Y11	25+50.00	-70.00	616804.1401	1116939.9433
Y11	28+10.00	16.00	616653.4389	1117168.6028
Y11	28+10.00	-16.00	616684.3363	1117176.9308
Y11	28+10.00	-40.00	616707.5093	1117183.1767
Y11	28+10.00	40.00	616630.2659	1117162.3569

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y19	9+73.80	46.08	603881.8676	1119819.1302
Y19	11+48.00	55.00	603920.7816	1119992.0147
Y19	12+75.00	-16.00	604026.1032	1120092.8438
Y19	12+75.00	-35.00	604044.2109	1120087.0896
Y19	13+50.00	-50.00	604082.1915	1120150.0806
Y19	14+00.00	-45.00	604096.1885	1120195.7538
Y19	14+02.69	49.17	604011.6996	1120237.4406
Y19	14+31.32	50.42	604023.5810	1120265.1531
Y19	16+00.00	-45.00	604187.0033	1120371.0258
Y19	16+50.00	60.00	604117.4784	1120464.2530
Y19	17+25.00	-60.00	604258.6112	1120474.5744
Y19	17+25.00	55.00	604156.9056	1120528.2490
Y19	24+00.00	70.00	604458.6865	1121132.2178
Y19	26+03.21	-60.23	604668.7065	1121251.1531
Y19	26+03.21	60.00	604562.3759	1121307.2686
Y19	26+31.73	-59.32	604681.2151	1121276.8040
Y19	27+00.00	60.00	604607.5513	1121392.8694
Y19	28+50.00	19.00	604713.8220	1121506.3928
Y19	28+50.00	40.00	604695.2498	1121516.1945
Y19	28+50.00	-53.87	604778.2655	1121472.3830
Y19	30+10.98	-43.05	604843.8369	1121619.8021

NOTES:
 1. POINT NOT SET - FELL IN BUILDING
 2. EXISTING IRON FOUND
 3. MAGNAIL SET
 4. EXISTING CONCRETE MONUMENT

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y20	11+10.00	13.00	605081.6795	1120491.6934
Y20	11+10.00	-13.00	605096.7555	1120470.5105
Y20	11+55.00	-70.00	605166.9805	1120450.8570
Y20	12+01.00	13.00	605154.9398	1120545.1503
Y20	16+56.66	32.00	605517.9104	1120821.5615
Y20	16+56.66	13.00	605528.7791	1120805.9771
Y20	16+56.66	-13.00	605543.6485	1120784.6488

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y20B	13+72.72	12.67	605408.6587	1120825.4563
Y20B	13+72.72	40.00	605430.6551	1120841.6762

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y21	16+60.00	13.00	605976.6275	1120393.2274
Y21	16+60.00	-13.00	605989.3432	1120370.5487

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y22A	34+12.10	16.00	608660.7905	1121144.4534
Y22A	34+65.00	56.00	608725.5446	1121157.0562
Y22A	35+55.00	61.00	608807.7377	1121123.9671
Y22A	35+75.00	-30.00	608788.5238	1121032.8180
Y22A	37+00.00	55.00	608936.3852	1121062.3007
Y22A	39+00.47	-65.00	609065.7781	1120868.7663
Y22A	39+60.00	65.00	609148.2814	1120978.6759

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y23	26+66.68	86.24	608037.5226	1121567.7093
Y23	26+91.19	30.00	608044.3398	1121506.4045
Y23	29+00.95	-56.38	608208.4261	1121349.5421
Y23	30+98.56	-54.59	608392.5387	1121275.5243
Y23	36+50.00	46.00	608932.0528	1121261.2117
Y23	36+50.00	30.00	608935.3884	1121245.8696
Y23	37+50.00	-26.45	609045.1631	1121211.6568
Y23	38+30.33	50.00	609107.4162	1121303.4321
Y23	38+52.79	46.60	609140.8307	1121303.4427

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y23A	46+28.28	30.00	609682.5497	1121800.9379
Y23A	46+28.28	-30.00	609731.1046	1121765.6899

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y25	14+65.71	-30.00	598390.7265	1121551.3058
Y25	14+72.46	30.00	598373.3317	1121609.1249
Y25	16+64.09	30.00	598548.6850	1121685.0600
Y25	17+46.46	-30.00	598648.5724	1121664.8906
Y25	25+28.00	-30.00	599338.9918	1122036.3767

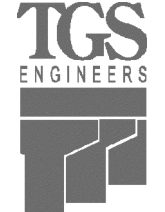
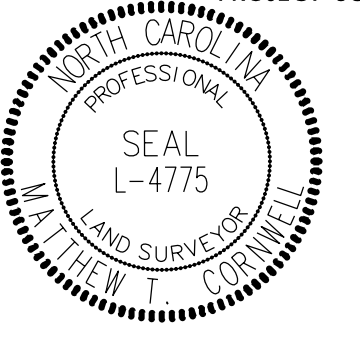

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y25REV	17+00.00	60.00	596880.5662	1120952.3953
Y25REV	17+00.00	-28.99	596939.6613	1120885.8610
Y25REV	17+00.00	-60.00	596960.2548	1120862.6751
Y25REV	17+00.00	31.01	596899.8150	1120930.7233
Y25REV	19+90.04	60.00	597092.3343	1121148.6505
Y25REV	19+90.04	-60.00	597173.9749	1121060.7028
Y25REV	21+15.99	-60.00	597265.8926	1121156.9103
Y25REV	22+00.00	72.00	597213.2840	1121303.8982
Y25REV	23+36.41	-152.40	597478.1846	1121305.4777
Y25REV	24+09.25	-79.84	597448.9040	1121410.0799
Y25REV	24+70.69	-60.00	597455.7489	1121478.1954
Y25REV	25+15.00	71.00	597349.1801	1121566.3302
Y25REV	25+90.00	118.00	597332.0316	1121653.1630
Y25REV	26+21.23	-97.23	597544.2430	1121605.5500
Y25REV	32+21.42	94.56	597545.3712	1122218.2767
Y25REV	32+39.14	-39.96	597681.0022	1122222.0602

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y42	14+25.00	85.00	616914.0856	1115488.7362
Y42	14+75.00	85.00	616963.3381	1115497.3500
Y42	14+78.00	73.00	616968.3605	1115486.0462
Y42	14+93.11	-17.00	616998.7487	1115399.9948
Y42	15+60.00	17.00	617058.7819	1115445.0100
Y42	15+60.00	-17.00	617064.6393	1115411.5184

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y12	10+35.00	50.00	612480.6379	1118560.4699
Y12	10+35.00	14.89	612461.7263	1118530.8826
Y12	12+69.37	50.00	612678.1179	1118434.2448
Y12	14+50.00	40.00	612825.7144	1118363.2736
Y12	14+98.16	-45.00	612860.0174	1118271.7715
Y12	16+50.00	85.00	613021.4734	1118391.8308
Y12	17+00.00	-65.00	613061.7251	1118239.1889
Y12	17+75.00	105.00	613163.7574	1118395.3932
Y12	19+38.89	88.41	613337.9283	1118306.8148
Y12	19+50.00	-55.00	613271.2730	1118179.3257
Y12	20+94.48	69.01	613459.4451	1118180.6959
Y12	21+30.00	-45.00	613403.9141	1118074.9738
Y12	22+49.28	63.72	613565.1350	1118067.4652
Y12	22+60.00	-45.00	613495.8119	1117983.0238
Y12	23+35.93	-45.00	613549.4885	1117929.3166
Y12	23+93.18	62.23	613668.1311	1117957.0818
Y12	25+15.00	-45.00	613641.8143	1117796.0999
Y12	25+25.00	45.00	613728.1487	1117823.4049
Y12	26+20.00	55.00	613769.6502	1117727.1544
Y12	26+78.01	-45.00	613680.3464	1117653.5357
Y12	28+75.00	47.00	613792.2150	1117469.6211
Y12	29+02.60	-50.00	613702.0691	1117424.4334
Y12	30+85.00	47.00	613860.3270	1117293.4660
Y12	32+59.31	-15.00	613919.4162	1117122.8444
Y12	33+61.16	42.01	614029.5194	1117086.7483
Y12	33+63.05	15.00	614011.5239	1117065.5164
Y12	35+91.91	-15.00	614164.1821	1116893.7155
Y12	37+58.61	-15.00	614300.4613	1116796.6651
Y12	41+10.00	-15.00	614589.7653	1116597.4703
Y12	41+10.00	40.00	614621.1647	1116642.6265
Y12	41+10.00	15.00	614606.8922	1116622.1010
Y12	41+80.00	80.00	614701.5559	1116635.3678
Y12	42+35.00	80.00	614746.7262	1116603.7868
Y12	42+65.00	-15.00	614716.7932	1116508.7576
Y12	42+65.00	15.00	614734.0202	1116533.3183

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y16	12+26.05	106.99	601463.9283	1121145.2948
Y16	12+28.05	20.00	601550.5433	1121136.9444
Y16	12+30.50	-20.00	601590.5408	1121134.4565
Y16	12+85.00	-85.00	601662.5827	1121178.2488
Y16	18+00.00	-34.54	601722.4859	1121691.5366
Y16	18+20.00	85.00	601603.5556	1121714.4382
Y16	18+6			

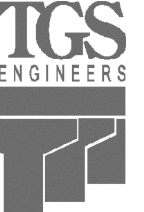

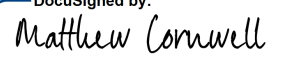
PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	RW03E-5
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 DocuSigned by:  EBD03F11473E475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
L3	731.36.21	-309.00	596336.4152	1121767.3378
L3	745.60.00	157.63	597800.6475	1122085.0754
L3	745.60.00	176.00	597802.5368	1122103.3497
L3	745.80.00	187.00	597823.5620	1122112.2347
L3	747.89.71	194.78	598032.9606	1122098.4124
L3	748.09.04	143.50	598046.9157	1122045.4121
L3	748.13.20	156.76	598052.4135	1122058.1780
L3	750.28.00	-175.00	598231.9603	1121706.0835
L3	750.33.16	-133.75	598241.3317	1121746.5865
L3	750.60.00	138.00	598295.9782	1122014.1333
L3	750.60.00	128.00	598295.0319	1122004.9796
L3	750.82.00	-181.00	598295.0570	1121694.5622
L3	750.87.27	-138.88	598294.6257	1121735.9180
L3	750.90.85	160.85	598329.0113	1122033.6900
L3	751.03.27	158.95	598341.1738	1122030.5183
L3	751.13.35	334.11	598369.2168	1122203.7161
L3	761.02.18	244.91	599343.6239	1122013.3036
L3	775.65.00	220.00	600804.1410	1121794.8862
L3	776.65.00	-133.00	600844.8211	1121430.2064
L3	776.65.00	-124.54	600846.2318	1121438.5433
L3	778.60.61	-473.76	600976.7192	1121061.4561
L3	779.18.00	-177.15	601084.7516	1121343.4271
L3	783.05.00	225.00	601540.1725	1121666.5094
L3	797.45.00	237.11	602954.7962	1121375.6668
L3	797.45.00	262.00	602960.0786	1121399.9854
L3	797.58.00	-325.00	602848.1829	1120823.6024
L3	798.00.00	275.00	603016.5847	1121401.0146
L3	798.42.00	-241.64	602947.9633	1120887.2334
L3	798.60.00	-287.00	602955.9246	1120839.0854
L3	808.22.00	-105.00	603934.6349	1120812.7392
L3	808.22.00	-122.00	603931.0264	1120796.1266
L3	808.63.00	-122.00	603971.0921	1120787.4238
L3	808.63.00	-105.00	603974.7006	1120804.0364
L3	810.82.00	-105.00	604188.7101	1120757.5504
L3	810.82.00	-117.00	604186.1629	1120745.8238
L3	810.94.00	-120.00	604197.2526	1120740.3450
L3	811.40.00	152.00	604299.9404	1120996.3825
L3	811.40.00	142.97	604298.0241	1120987.5601
L3	811.58.03	153.11	604317.7921	1120993.6408
L3	814.25.00	130.00	604573.7761	1120914.3884
L3	814.49.00	-139.86	604539.9468	1120645.5809
L3	814.79.00	-141.26	604568.9673	1120637.8508
L3	815.21.35	147.50	604671.6210	1120911.0401
L3	815.74.05	128.06	604718.6974	1120880.9872
L3	816.05.00	-140.00	604693.1678	1120612.3522
L3	816.53.00	-125.00	604744.0742	1120617.0788
L3	817.30.00	115.00	604865.8946	1120837.7075
L3	817.55.00	-107.25	604850.1079	1120614.6223
L3	817.55.00	-128.00	604846.4038	1120594.2007
L3	821.86.74	-132.19	605287.9483	1120534.2917
L3	822.64.00	-149.00	605366.7260	1120512.5737
L3	822.64.00	-132.48	605367.5877	1120529.0725
L3	822.71.00	-149.00	605373.9772	1120512.2014
L3	822.88.00	-133.00	605392.3285	1120527.3328
L3	824.36.00	-143.00	605545.0904	1120513.1008
L3	824.71.73	106.62	605582.1600	1120762.5461
L3	833.12.04	-506.74	606521.8369	1120248.0307
L3	833.15.97	-140.44	606449.5185	1120607.1434
L3	833.45.08	-140.03	606478.7745	1120613.9275
L3	836.45.00	-167.25	606778.2163	1120656.5384
L3	836.53.00	-168.00	606785.9575	1120657.5572
L3	838.93.00	337.00	606936.1554	1121200.4469
L3	838.96.00	330.00	606940.6295	1121194.0127
L3	839.05.00	336.00	606950.2720	1121201.4106
L3	839.15.00	352.81	606959.7397	1121219.6369
L3	839.24.00	253.00	606982.8373	1121121.9799
L3	839.28.00	246.00	606988.1957	1121115.5970
L3	839.34.00	259.00	606993.3545	1121129.3277
L3	839.38.00	252.00	606998.6918	1121122.9184
L3	839.67.00	-143.00	607072.0412	1120733.6556
L3	839.70.00	-120.71	607072.5387	1120756.1147
L3	841.25.00	-153.00	607218.0957	1120732.7008
L3	841.25.00	-135.59	607217.7378	1120750.1065
L3	841.42.00	-157.00	607233.7785	1120728.9530
L3	841.63.00	108.63	607252.8747	1120994.7013
L3	841.63.00	129.00	607252.8611	1121015.0718
L3	841.74.00	127.00	607264.5938	1121013.0458
L3	865.72.09	-141.60	609465.8926	1119995.6384
L3	865.74.79	-160.63	609460.5086	1119977.1910
L3	865.77.00	-131.59	609474.4199	1120002.7722
L3	865.91.00	-127.27	609488.8167	1120001.0177
L3	865.94.53	-180.39	609470.1111	1119951.1795
L3	866.38.86	-131.12	609530.3108	1119977.9329
L3	866.40.00	196.00	609667.3140	1120274.9865
L3	866.52.00	181.93	609672.5476	1120257.1131
L3	866.52.87	-160.79	609530.5368	1119945.2042
L3	867.62.72	-157.83	609630.0424	1119902.2726
L3	869.01.14	235.00	609924.6092	1120196.9430
L3	870.81.27	-182.02	609901.5995	1119743.1111
L3	870.83.00	240.00	610093.2017	1120119.1350

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
L3	871.09.58	-162.93	609935.0965	1119747.5597
L3	871.45.52	-181.74	609958.1041	1119714.7341
L3	871.50.95	-218.48	609946.1201	1119679.5961
L3	871.56.00	333.00	610202.0453	1120168.1227
L3	871.58.00	254.00	610167.8350	1120096.8847
L3	871.70.68	333.40	610215.6651	1120161.5821
L3	871.90.10	-204.82	609986.5416	1119674.1756
L3	871.94.61	-234.50	609976.8564	1119645.7760
L3	872.32.06	-226.31	610013.2022	1119636.1456
L3	872.41.40	240.79	610237.4340	1120046.0086
L3	872.47.00	-112.71	610078.7995	1119730.0552
L3	872.47.00	-132.00	610069.8653	1119712.9564
L3	872.80.00	-115.65	610106.3711	1119712.2810
L3	872.80.00	-135.00	610097.3591	1119695.1532
L3	873.72.00	211.00	610341.2062	1119957.3987
L3	874.70.00	-171.18	610245.4245	1119574.6176
L3	875.60.00	-148.92	610333.8708	1119551.1792
L3	880.53.00	-124.00	610766.7191	1119326.3638
L3	880.86.00	-100.51	610806.8653	1119329.1902
L3	882.89.00	168.00	611122.3712	1119447.4996
L3	882.89.00	178.00	611127.7852	1119455.9073
L3	882.97.00	167.00	611128.6521	1119442.2624
L3	882.97.00	179.00	611135.1559	1119452.3471
L3	883.27.00	-117.00	610999.6642	1119187.4646
L3	883.29.00	-125.00	610996.9705	1119179.6762
L3	883.45.48	-113.10	611017.1279	1119180.7700
L3	883.47.39	-120.87	611014.4728	1119173.2255
L3	889.85.00	181.00	611712.0154	1119072.9274
L3	889.85.00	169.00	611705.3742	1119062.9327
L3	889.87.00	-151.25	611529.8019	1118795.0926
L3	889.87.00	-162.00	611523.8524	1118786.1389
L3	889.94.00	181.00	611719.5115	1119067.9465
L3	889.94.00	169.00	611712.8702	1119057.9518
L3	890.00.00	-151.20	611540.6582	1118787.9410
L3	890.00.00	-162.00	611534.6800	1118778.9442
L3	892.69.79	-174.71	611752.3511	1118619.0484
L3	892.72.00	170.00	611944.9674	1118904.9293
L3	892.72.00	180.00	611950.5018	1118913.2582
L3	892.80.00	170.00	611951.6305	1118900.5018
L3	892.80.00	181.00	611957.7183	1118909.6636
L3	892.92.00	-173.00	611771.7964	1118608.1788
L3	893.05.00	-194.00	611771.0018	1118583.4935
L3	893.13.00	-194.00	611777.6649	1118579.0660
L3	893.13.00	-180.00	611785.4131	1118590.7264
L3	894.07.00	-311.00	611791.2046	1118429.5946
L3	894.22.03	-313.73	611802.2094	1118419.0045
L3	894.31.00	-180.00	611883.6942	1118525.4209
L3	894.42.25	-256.29	611850.8408	1118455.6528
L3	894.80.30	-149.29	611941.7491	1118523.7163
L3	896.20.00	171.00	612235.3670	1118713.1661
L3	898.61.00	201.00	612452.6968	1118604.7746
L3	898.63.00	190.00	612448.2748	1118594.5059
L3	898.69.00	202.00	612459.9134	1118601.1800
L3	898.70.00	190.00	612454.1051	1118590.6319
L3	898.95.00	-131.69	612296.8900	1118308.8598
L3	898.95.00	-152.00	612285.6519	1118291.9472
L3	899.19.00	-175.00	612292.9123	1118259.5082
L3	899.19.00	-152.00	612305.6413	1118278.6647
L3	899.27.00	-162.00	612306.7701	1118265.9083
L3	899.27.00	-174.00	612300.1288	1118255.9136
L3	901.04.00	-128.70	612472.4751	1118195.7585
L3	901.04.00	-149.00	612461.2201	1118178.8666
L3	901.04.00	-160.00	612455.1208	1118169.7125
L3	901.04.00	-141.00	612465.6560	1118185.5242
L3	901.27.00	-148.00	612480.6934	1118167.0715
L3	901.27.00	-140.00	612485.1407	1118173.7214
L3	905.25.00	188.00	613002.3697	1118201.8044
L3	906.36.78	-143.99	612876.8108	1117874.6006
L3	908.40.00	188.00	613250.5800	1117984.9836
L3	908.40.00	200.00	613258.8208	1117993.7065
L3	908.48.00	200.00	613264.9183	1117987.9347
L3	908.48.00	188.00	613256.6602	1117979.2281
L3	910.20.00	-105.24	613173.9169	1117648.6370
L3	912.13.00	184.00	613518.2762	1117701.9698
L3	912.16.00	173.00	613512.0786	1117692.3725
L3	912.21.00	186.00	613525.2244	1117697.1252
L3	912.25.00	173.00	613518.1891	1117685.4477

PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	RW03E-7
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
	
PROJECT SURVEYOR Documented by:  ESD03F11473E475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y3	11+39.87	-53.53	607554.5123	1119365.4848
Y3	11+67.56	-24.84	607528.8845	1119398.3677
Y3	12+33.00	-34.00	607536.9957	1119468.4445
Y3	12+34.00	-65.00	607567.7555	1119472.4552
Y3	12+54.00	16.00	607484.8429	1119483.8889
Y3	13+03.63	71.04	607421.7930	1119519.8760
Y3	13+10.00	-47.78	607536.5871	1119551.1853
Y3	13+60.00	-87.00	607564.3048	1119608.4485
Y3	14+23.00	-113.00	607576.2287	1119675.7119
Y3	14+70.94	59.32	607397.6234	1119685.5454
Y3	16+31.00	100.00	607323.1713	1119832.5868
Y3	17+82.69	-124.33	607512.4129	1120024.1705
Y3	18+15.00	119.00	607267.0805	1120016.6277
Y3	19+04.00	-127.00	607499.1680	1120137.0821
Y3	20+40.45	118.44	607244.2809	1120254.2764
Y3	20+64.82	120.00	607241.8085	1120280.0312
Y3	22+03.28	133.95	607228.6659	1120427.3498
Y3	22+08.00	140.00	607222.8307	1120432.6374
Y3	22+16.00	133.00	607230.2040	1120440.8649
Y3	22+22.00	128.00	607235.5050	1120447.0100
Y3	22+28.00	156.00	607207.8693	1120454.8567
Y3	22+34.00	152.00	607212.2125	1120461.0944
Y3	22+44.00	112.00	607252.7635	1120469.4178
Y3	23+20.00	132.00	607239.2423	1120551.3952
Y3	34+93.73	122.49	607718.7315	1121684.8487
Y3	36+40.00	120.00	607823.3054	1121799.4468
Y3	36+40.00	133.00	607813.8852	1121808.0055
Y3	36+48.00	132.00	607820.5000	1121813.8852
Y3	36+48.00	120.00	607829.1624	1121805.5808
Y3	36+54.75	-113.47	608002.1091	1121648.5991
Y3	37+54.00	-110.00	608066.3897	1121716.8360
Y3	38+50.00	89.00	608005.0232	1121928.8024
Y3	38+52.00	-90.00	608122.5085	1121793.7387
Y3	39+85.26	-86.53	608220.7682	1121876.2545
Y3	40+20.00	-65.07	608235.5123	1121914.3321
Y3	40+45.00	143.00	608129.8409	1122095.3119
Y3	40+45.00	130.00	608137.6882	1122084.9476
Y3	40+53.00	129.00	608144.6699	1122088.9795
Y3	40+53.00	143.00	608136.2189	1122100.1411
Y3	41+25.00	60.00	608243.7236	1122077.4311
Y3	41+27.33	100.00	608221.4384	1122110.7300
Y3	41+35.00	231.44	608148.2077	1122220.1490
Y3	41+48.42	231.50	608158.8707	1122228.2977
Y3	41+64.48	85.00	608260.1086	1122121.1946
Y3	41+69.82	233.23	608174.8876	1122242.5949
Y3	41+70.00	170.00	608213.1994	1122192.2931
Y3	41+95.00	170.00	608233.1308	1122207.3842
Y3	42+00.00	235.68	608197.4699	1122262.7661
Y3	42+83.05	39.79	608381.9306	1122156.7211
Y3	42+83.62	16.00	608396.7445	1122138.1017

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y4	21+46.87	-49.26	607444.9266	1121424.4096

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y5	12+65.00	-97.00	610785.2120	1119728.4208
Y5	12+65.00	-110.00	610792.3266	1119739.3012
Y5	12+73.00	-97.00	610778.5214	1119732.7960
Y5	12+73.00	-110.00	610785.6366	1119743.6760
Y5	14+87.00	-53.21	610613.1442	1119825.1290
Y5	16+18.00	38.21	610475.7677	1119901.2050
Y5	16+37.00	59.00	610449.9117	1119915.5762

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y6	9+95.69	156.71	609381.7659	1120555.5136
Y6	10+10.00	245.00	609319.5473	1120491.1944
Y6	10+17.00	205.00	609336.6695	1120527.9805
Y6	10+20.00	150.00	609365.4749	1120574.9260
Y6	10+40.00	250.00	609292.7356	1120503.5817
Y6	10+50.00	210.00	609307.3153	1120542.0783
Y6	10+68.00	42.95	609386.8326	1120690.0507
Y6	18+10.00	74.00	609258.0829	1121411.1550
Y6	19+37.00	-143.00	609502.3029	1121350.7645
Y6	19+39.00	-51.56	609438.2422	1121416.0409
Y6	19+54.00	80.00	609354.5342	1121518.6406
Y6	19+54.00	89.00	609348.0913	1121524.9247
Y6	19+64.00	82.00	609360.0848	1121527.1957
Y6	19+64.00	89.00	609355.0737	1121532.0834
Y6	19+67.00	-145.00	609524.6817	1121370.8441
Y6	19+69.00	-51.93	609459.4526	1121437.2601
Y6	21+14.00	74.00	609455.1262	1121622.6063
Y6	21+60.00	50.90	609494.2874	1121645.0453
Y6	31+70.00	-94.49	609295.4987	1122579.4705
Y6	31+95.00	-188.00	609363.4190	1122648.4344
Y6	32+18.00	-188.00	609351.7564	1122668.2582
Y6	32+26.41	-143.41	609309.0579	1122652.8993
Y6	32+93.73	-63.50	609206.0460	1122670.4010

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y7	16+18.00	66.13	619277.0397	1113869.3902

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y7A	14+06.98	-73.69	618804.6811	1113865.1082
Y7A	15+39.03	-77.47	618882.2914	1113950.1254
Y7A	16+57.00	-169.00	619039.0993	1113981.4315
Y7A	16+68.00	-201.00	619076.0629	1113976.5867
Y7A	16+86.00	-210.00	619102.2499	1113998.2720
Y7A	16+90.00	-206.00	619102.8154	1114006.6013
Y7A	16+99.38	-185.90	619094.1999	1114031.2844

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y8	15+04.56	-69.93	612027.0941	1117239.4832
Y8	15+04.56	-50.00	612033.2443	1117258.4428
Y8	15+19.63	-100.00	612032.5098	1117206.1350
Y8	16+14.90	-194.36	612102.0902	1117086.8260
Y8	16+30.90	-169.10	612125.3320	1117106.6204
Y8	16+36.37	-53.24	612161.1246	1117216.9603
Y8	17+09.41	-173.47	612205.5418	1117081.6529
Y8	17+18.35	-58.85	612241.0259	1117191.0415
Y8	17+63.24	-185.23	612259.1908	1117057.4140
Y8	18+34.82	-70.41	612353.4224	1117154.5818
Y8	23+16.40	-96.39	612773.0038	1116972.6618
Y8	24+16.91	-124.25	612867.7953	1116908.2573
Y8	24+17.53	-113.27	612871.8731	1116918.4735
Y8	24+29.10	-126.78	612878.5028	1116901.9997
Y8	24+29.40	-116.78	612881.9699	1116911.3794
Y8	25+64.98	-73.79	613023.7755	1116908.8682
Y8	25+64.98	-104.00	613014.0466	1116880.2693
Y8	25+92.98	-71.09	613051.0893	1116902.4207
Y8	25+92.98	-91.00	613044.6586	1116883.5737
Y8	26+03.98	-91.00	613055.0376	1116880.0302
Y8	26+03.98	-70.02	613061.8210	1116899.8875



ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y9	11+76.00	-16.00	616322.9053	1114987.8706
Y9	11+76.00	-40.00	616343.8378	1114976.1306
Y9	14+92.00	-120.00	616565.2260	1115216.5196
Y9	15+08.84	-144.36	616594.6635	1115219.7843
Y9	15+25.00	-93.00	616557.1220	1115258.3804
Y9	15+40.00	90.00	616403.1633	1115358.4340
Y9	15+40.00	54.52	616434.3897	1115341.5973

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y10	24+35.00	74.37	613042.1460	1117726.3207
Y10	24+47.00	-59.34	613145.1511	1117640.2324
Y10	24+47.00	-75.00	613156.2210	1117629.1563
Y10	27+60.91	-69.61	613374.4423	1117854.8737
Y10	27+65.00	68.90	613279.4217	1117955.7332

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y11	11+20.00	-83.20	616684.5396	1115531.6861
Y11	13+20.00	124.43	616579.5241	1115800.1633
Y11	13+22.00	205.00	616507.1653	1115835.6593
Y11	13+83.00	202.00	616535.3889	1115889.8204
Y11	21+90.00	-223.91	617046.4372	1116632.4035
Y11	21+90.00	-250.00	617071.6271	1116639.1931
Y11	22+40.00	-252.00	617060.5457	1116687.9906

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y12	14+53.00	71.00	612834.6206	1118393.0861
Y12	14+59.00	82.00	612841.7423	1118402.8893
Y12	14+62.00	68.00	612841.6525	1118388.6594
Y12	14+68.00	79.00	612848.6321	1118398.5828
Y12	14+85.00	50.46	612858.8636	1118368.1094
Y12	15+90.00	-53.88	612953.5089	1118256.6695
Y12	28+24.00	-45.94	613694.1275	1117508.1907
Y12	29+91.58	56.83	613829.9728	1117371.9699
Y12	33+33.00	74.00	614033.8641	1117128.4098
Y12	33+41.00	83.00	614045.6060	1117129.0988
Y12	34+32.00	55.00	614087.6496	1117048.2593
Y12	34+40.00	45.00	614086.5463	1117035.6695
Y12	35+69.00	50.00	614185.3060	1116959.2208
Y12	35+90.00	40.00	614195.5062	1116938.9636
Y12	35+90.00	34.00	614191.9203	1116934.1531
Y12	38+26.00	38.00	614386.0175	1116802.4097
Y12	39+81.81	42.14	614516.9046	1116717.4708
Y12	40+26.76	43.29	614554.5707	1116692.8340
Y12	40+80.00	45.00	614599.3527	1116663.8691
Y12	42+51.00	45.30	614739.9443	1116566.1737
Y12	43+15.00	41.00	614789.9101	1116525.8349
Y12	43+15.00	53.00	614796.8137	1116535.6502
Y12	43			

PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	RW03E-8
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 DocuSigned by: Matthew Cornwell EBD30F11473E475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y16	11+16.00	20.00	601543.7568	1121022.6654
Y16	11+16.00	34.00	601529.7568	1121022.6200
Y16	12+27.55	40.47	601530.1660	1121138.9090
Y16	19+52.00	20.00	601662.3160	1121842.3206
Y16	19+69.00	-51.00	601730.6450	1121868.2028
Y16	19+74.75	-20.00	601699.1255	1121869.9321
Y16	19+76.00	-53.00	601731.6302	1121875.7735
Y16	19+86.37	-20.00	601697.4273	1121881.6603

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y20	16+91.00	-13.00	605571.8148	1120804.2349
Y20	17+20.00	13.00	605580.8431	1120842.1186

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y18	13+62.00	-38.00	606892.3797	1120297.8447
Y18	15+75.00	-38.81	607094.6457	1120323.2936
Y18	15+92.00	-35.00	607109.4770	1120325.3954

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y20A	13+68.88	13.00	605091.6513	1120826.2804
Y20A	13+75.00	-13.00	605064.9848	1120827.3665

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y18A	10+50.11	31.28	606503.0932	1120315.1775
Y18A	10+62.84	2.43	606530.8505	1120330.1411
Y18A	15+10.00	-12.00	606218.8942	1120487.2751
Y18A	15+10.00	-27.97	606213.6454	1120502.3619
Y18A	15+50.00	-11.44	606183.9971	1120484.1737
Y18A	15+50.00	7.00	606182.8897	1120465.7622

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y20B	12+97.41	-30.27	605328.8919	1120858.5124
Y20B	12+97.41	-13.00	605342.3215	1120869.3683
Y20B	13+04.09	-34.85	605329.4377	1120850.5310
Y20B	13+08.93	-28.00	605337.7516	1120851.0996
Y20B	13+08.93	-13.00	605349.4808	1120860.4498
Y20B	13+14.00	13.00	605372.9899	1120872.6574
Y20B	13+25.00	55.00	605412.9335	1120889.8151
Y20B	13+30.00	-68.00	605318.9819	1120810.2735
Y20B	13+85.00	-13.00	605395.1948	1120800.3877

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y19	5+97.24	-54.90	603892.5536	1119430.1123
Y19	6+40.21	-30.65	603878.5685	1119477.1997
Y19	6+44.53	19.00	603831.2126	1119492.7486
Y19	6+50.00	50.00	603802.3014	1119505.2060
Y19	6+50.00	25.67	603825.9779	1119499.6220
Y19	6+74.14	55.28	603802.7819	1119530.0793
Y19	6+92.29	77.74	603785.2278	1119553.1287
Y19	7+23.18	99.27	603771.7229	1119588.5962
Y19	7+25.43	89.15	603782.0953	1119588.3958
Y19	7+34.05	113.54	603760.5121	1119602.7217
Y19	7+40.29	108.65	603766.7784	1119607.6950
Y19	8+37.88	-34.30	603928.8571	1119668.3733
Y19	8+40.41	-38.60	603933.6186	1119669.8434
Y19	8+47.42	-34.55	603931.2844	1119677.6008
Y19	8+67.28	-35.05	603936.3371	1119696.8090
Y19	8+99.85	-16.00	603925.2875	1119732.8947
Y19	9+30.00	19.00	603898.1550	1119770.2785
Y19	9+44.34	40.00	603881.0147	1119789.0645
Y19	11+95.91	-277.69	604252.9134	1119941.0747
Y19	12+03.00	51.60	603940.0692	1120044.0799
Y19	12+33.05	-289.56	604274.7473	1119971.6299
Y19	12+57.61	-273.14	604266.1258	1119999.0351
Y19	12+67.00	99.00	603914.0513	1120119.9384
Y19	12+68.02	-229.48	604227.5161	1120021.7555
Y19	12+70.00	86.00	603927.3623	1120118.9106
Y19	12+75.00	100.00	603915.5509	1120127.9748
Y19	12+78.00	88.00	603927.9079	1120127.2354
Y19	13+49.77	-251.44	604269.4956	1120075.9503
Y19	13+55.92	-221.44	604243.3367	1120091.3488
Y19	13+97.86	79.54	603981.9382	1120245.3785
Y19	14+26.11	79.91	603994.6703	1120273.2186
Y19	16+45.00	92.00	604086.8440	1120474.7665
Y19	23+38.00	96.00	604406.7545	1121089.5203
Y19	24+49.00	95.00	604459.4467	1121187.2216
Y19	24+54.00	-105.00	604638.6597	1121098.2964
Y19	24+70.00	-259.44	604782.7099	1121040.3660
Y19	24+83.00	-100.00	604647.7730	1121126.2776
Y19	24+92.00	-183.30	604725.6472	1121095.3563
Y19	25+80.93	-88.39	604683.2153	1121218.2997
Y19	26+19.40	-83.94	604697.2285	1121254.4054
Y19	28+50.00	-70.00	604792.5333	1121464.8532
Y19	28+60.00	81.00	604663.6567	1121544.1743
Y19	28+68.00	-52.66	604785.5973	1121488.8665
Y19	29+70.00	19.00	604769.8303	1121612.5203
Y19	30+41.82	-26.00	604843.1465	1121655.0295
Y19	30+70.00	-15.00	604846.5882	1121685.0414
Y19	30+70.00	-26.00	604856.3039	1121679.8834

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y23	21+85.80	66.56	607556.9373	1121668.2540
Y23	21+85.88	52.61	607554.6471	1121654.4960
Y23	21+86.01	30.15	607550.9581	1121632.3340
Y23	21+97.00	54.00	607565.9628	1121653.9361
Y23	22+00.00	63.00	607570.5087	1121662.2763
Y23	22+50.00	40.00	607616.1436	1121630.6371
Y23	33+90.00	30.00	608696.0101	1121254.9546
Y23	33+90.00	34.00	608697.2568	1121258.7553
Y23	34+15.00	30.00	608719.6278	1121247.2801
Y23	36+00.00	-30.00	608898.5228	1121176.2901
Y23	36+57.00	-62.00	608961.8380	1121157.1644
Y23	36+57.00	-73.00	608964.1749	1121146.4155
Y23	36+65.00	-61.00	608969.4429	1121159.8412
Y23	36+65.00	-73.00	608971.9923	1121148.1151
Y23	37+35.00	-27.17	609030.6580	1121207.7687
Y23	38+18.00	49.73	609095.4258	1121300.5453

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y25	25+38.00	-54.00	599359.7919	1122020.7894
Y25	25+46.37	-30.00	599354.7839	1122045.7018

REVISIONS

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 58.1600 as applicable.

This 26th day of August, 2021.
 DocuSigned by:




 EBD30F11473E475
 8/26/2021
 Professional Land Surveyor L-4775

NOTES:

1. POINT NOT SET - FELL IN BUILDING
2. HOLE PUNCH IN TOP OF WALL
3. MAGNAIL SET

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 11/6/2017 TO 8/23/2021 .

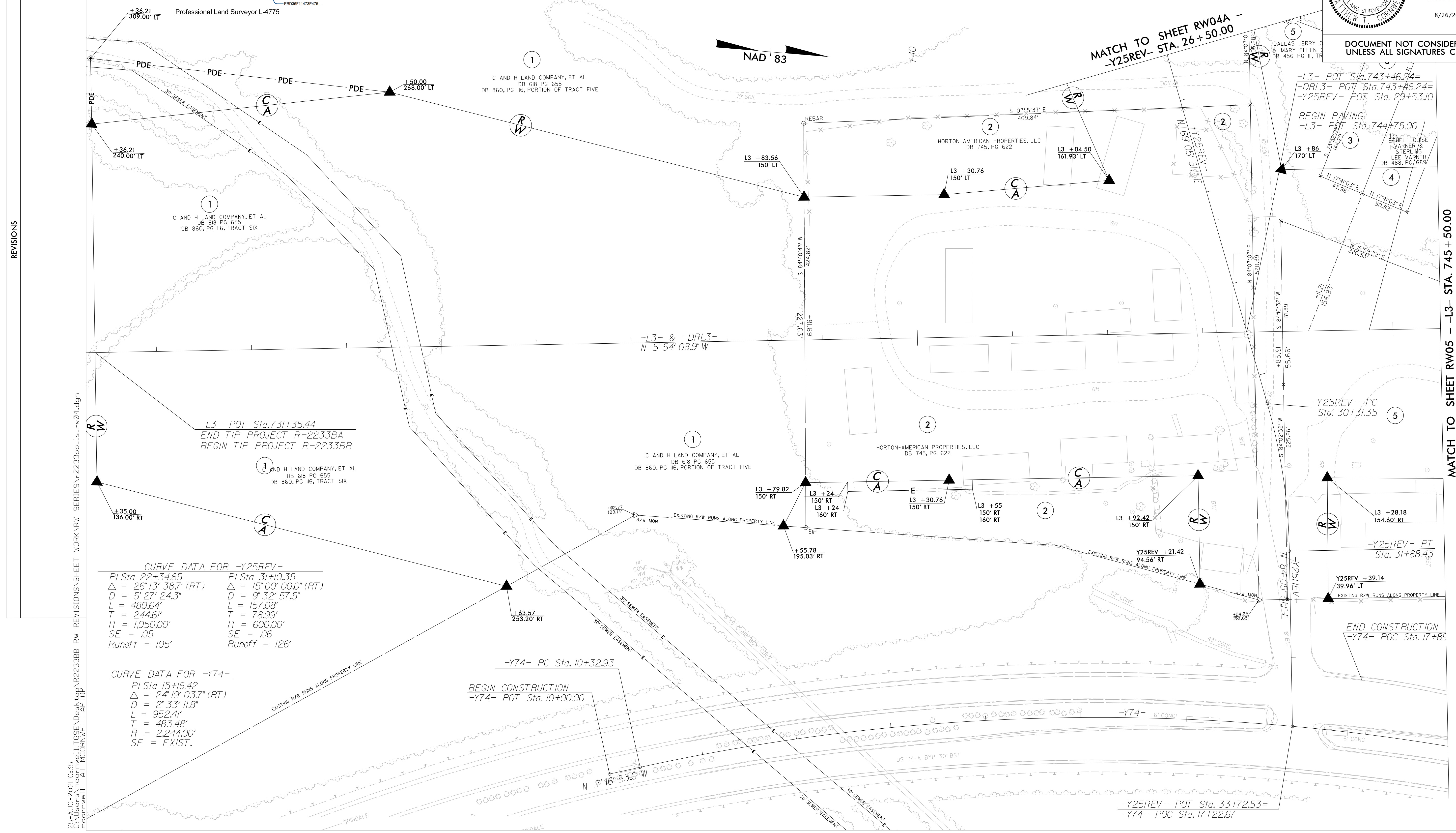
PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	RW04
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 DocuSigned by:  Matthew Cornwell EBD00F11473E475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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 11/6/2017 TO 8/23/2021 .

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 58.1600 as applicable.

This 26th day of August, 2021.  8/26/2021
 Professional Land Surveyor L-4775
 EBD00F11473E475



CURVE DATA FOR -Y25REV-

PI Sta 22+34.65	PI Sta 31+10.35
$\Delta = 26^{\circ}13'38.7"$ (RT)	$\Delta = 15^{\circ}00'00.0"$ (RT)
D = 5' 27' 24.3"	D = 9' 32' 57.5"
L = 480.64'	L = 157.08'
T = 244.61'	T = 78.99'
R = 1,050.00'	R = 600.00'
SE = .05	SE = .06
Runoff = 105'	Runoff = 126'

CURVE DATA FOR -Y74-

PI Sta 15+16.42
$\Delta = 2^{\circ}19'03.7"$ (RT)
D = 2' 33' 11.8"
L = 952.41'
T = 483.48'
R = 2,244.00'
SE = EXIST.

BEGIN CONSTRUCTION
 -Y74- POT Sta. 10+00.00


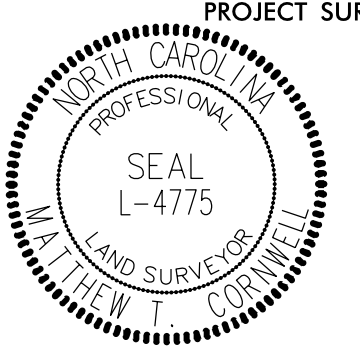
END CONSTRUCTION
 -Y74- POC Sta. 17+89.00

REVISIONS

P:\AUG-2021\08-25-21\TGS\Des\TGP\R2233BB RW REVISIONS\SHEET WORK\RW SERIES\R-2233bb.ls_rw04.dgn
 8/26/2021 10:35 AM
 MTCORNEWELL

MATCH TO SHEET RW05 - -L3- STA. 745 + 50.00

MATCH TO SHEET RW04A -
 -Y25REV- STA. 26 + 50.00

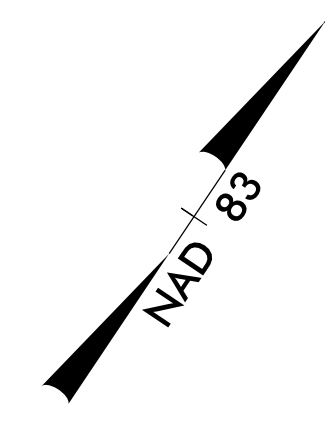
PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	RW04A
Location and Surveys	
	
TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
DocuSigned by: Matthew Cornwell EBO38F1147E47E... 9/1/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

CURVE DATA FOR -Y25REV-

PI Sta 15+51.99	PI Sta 22+34.65	PI Sta 31+10.35
$\Delta = 18^{\circ} 50' 34.9" (RT)$	$\Delta = 26^{\circ} 13' 38.7" (RT)$	$\Delta = 15^{\circ} 00' 00.0" (RT)$
$D = 5^{\circ} 27' 24.3"$	$D = 5^{\circ} 27' 24.3"$	$D = 9^{\circ} 32' 57.5"$
$L = 345.32'$	$L = 480.64'$	$L = 157.08'$
$T = 174.23'$	$T = 244.61'$	$T = 78.99'$
$R = 1,050.00'$	$R = 1,050.00'$	$R = 600.00'$
$SE = EXIST.$	$SE = .05$	$SE = .06$

CURVE DATA FOR -Y25EXT-

PI Sta 11+53.14	PI Sta 14+91.68
$\Delta = 46^{\circ} 01' 04.5" (RT)$	$\Delta = 2^{\circ} 09' 18.4" (RT)$
$D = 28^{\circ} 38' 52.4"$	$D = 1^{\circ} 48' 47.4"$
$L = 160.63'$	$L = 118.86'$
$T = 84.93'$	$T = 59.44'$
$R = 200.00'$	$R = 3,160.00'$
$SE = .06$	$SE = EXIST.$

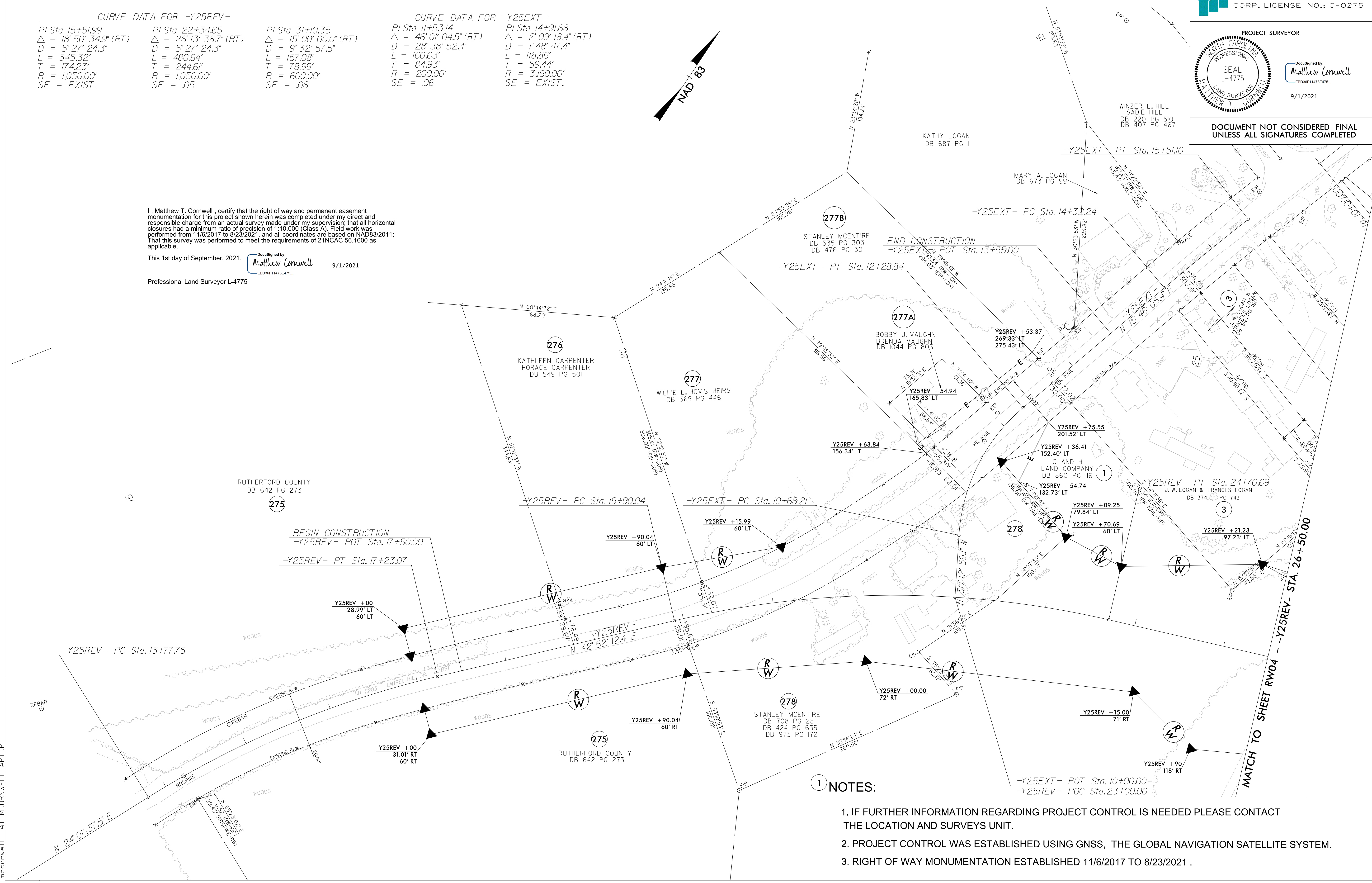


I, Matthew T. Cornwell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 58.1600 as applicable.

This 1st day of September, 2021.
 DocuSigned by:
Matthew Cornwell
 EBO38F1147E47E...
 9/1/2021
 Professional Land Surveyor L-4775

REVISIONS

01-SEP-2021 07:33
 S:\Surveys\Projects\ncdot\1-R-2233BB\Right of Way\Staking\REVISED 210831\1-R-2233BB_1s_r-w04a.dgn
 Matthew T. Cornwell



- 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 11/6/2017 TO 8/23/2021 .

Location and Surveys

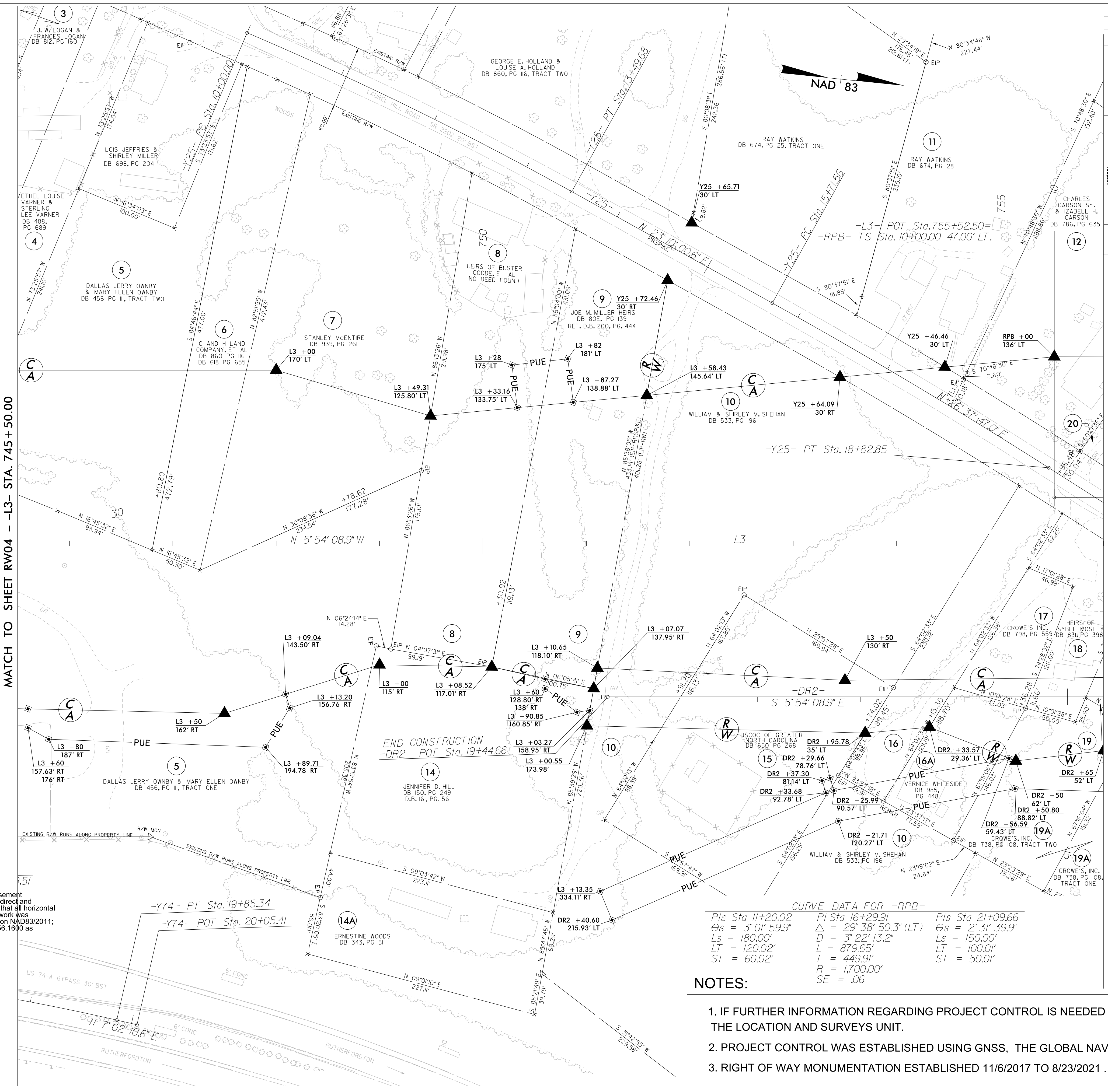
TGS ENGINEERS
 804-C N. LAFAYETTE ST
 SHELBY, NC 28150
 PH (704) 476-0003
 CORP. LICENSE NO.: C-0275

PROJECT SURVEYOR

SEAL
 L-4775
 MATTHEW T. CORNWELL
 NORTH CAROLINA PROFESSIONAL LAND SURVEYOR

DocuSigned by:
Matthew Cornwell
 EBD36F11473E475
 9/1/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



MATCH TO SHEET RW04 -- L3- STA. 745 + 50.00

MATCH TO SHEET RW06 -- L3- STA. 756 + 00.00

REVISIONS

Way Staking\REVISED 210831\2233bb.l.s.-rw05.dgn

SEP-2021 07:35
 S:\Survey\Projects\ncdot\R-2233BB\Right of Way Staking\REVISED 210831\2233bb.l.s.-rw05.dgn

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of September, 2021.

DocuSigned by:
Matthew Cornwell
 EBD36F11473E475

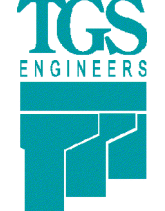
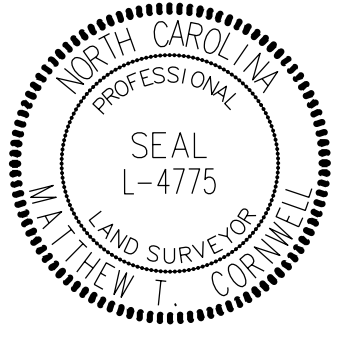

Professional Land Surveyor L-4775 9/1/2021

CURVE DATA FOR -RPB-

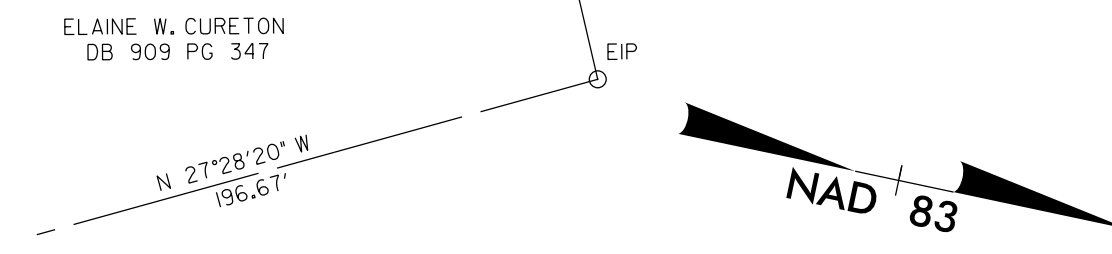
Pls Sta 11+20.02	PI Sta 16+29.91	Pls Sta 21+09.66
$\theta_s = 3^\circ 01' 59.9''$	$\Delta = 29^\circ 38' 50.3''$ (LT)	$\theta_s = 2^\circ 31' 39.9''$
$L_s = 180.00'$	$D = 3^\circ 22' 13.2''$	$L_s = 150.00'$
$LT = 120.02'$	$L = 879.65'$	$LT = 100.01'$
$ST = 60.02'$	$T = 449.91'$	$ST = 50.01'$
	$R = 1,700.00'$	
	$SE = .06$	

NOTES:

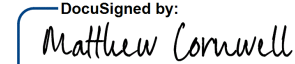
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/6/2017 TO 8/23/2021 .

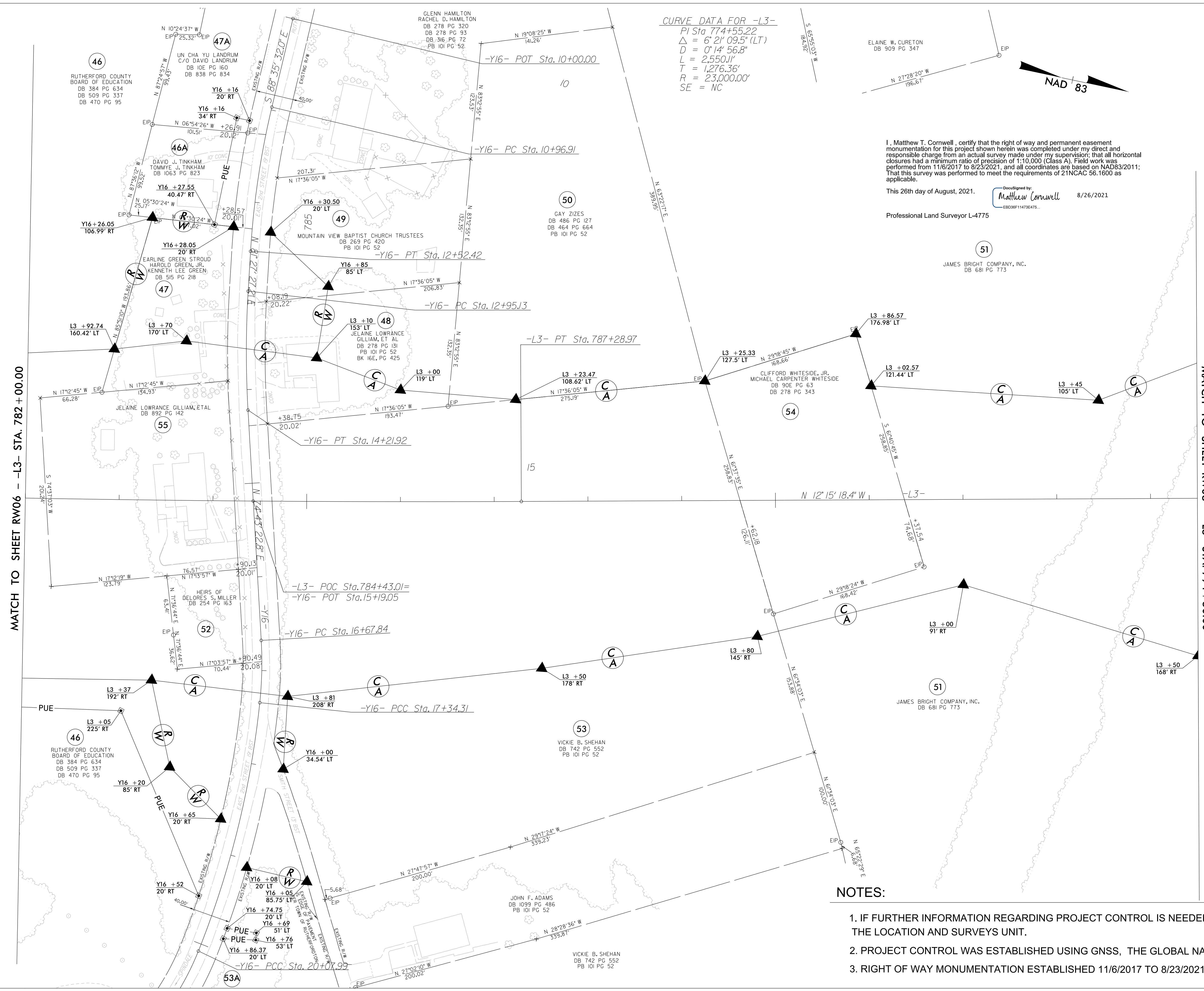
PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW07
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 Documented by:  Matthew Cornwell EBD30811473E475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

CURVE DATA FOR -L3-
 PI Sta 774+55.22
 $\Delta = 6' 21'' 09.5'' (LT)$
 $D = 0' 14'' 56.8''$
 $L = 2,550.11'$
 $T = 1,276.36'$
 $R = 23,000.00'$
 SE = NC



I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 26th day of August, 2021.
 Documented by:

 Matthew Cornwell
 EBD30811473E475
 8/26/2021
 Professional Land Surveyor L-4775



MATCH TO SHEET RW06 -- L3- STA. 782 + 00.00

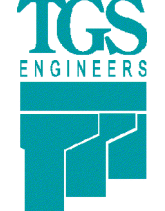

MATCH TO SHEET RW08 -- L3- STA. 794 + 50.00

REVISIONS

25-AUG-2021 10:52:25
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 mccornwell AT MCCORNWELL LLP

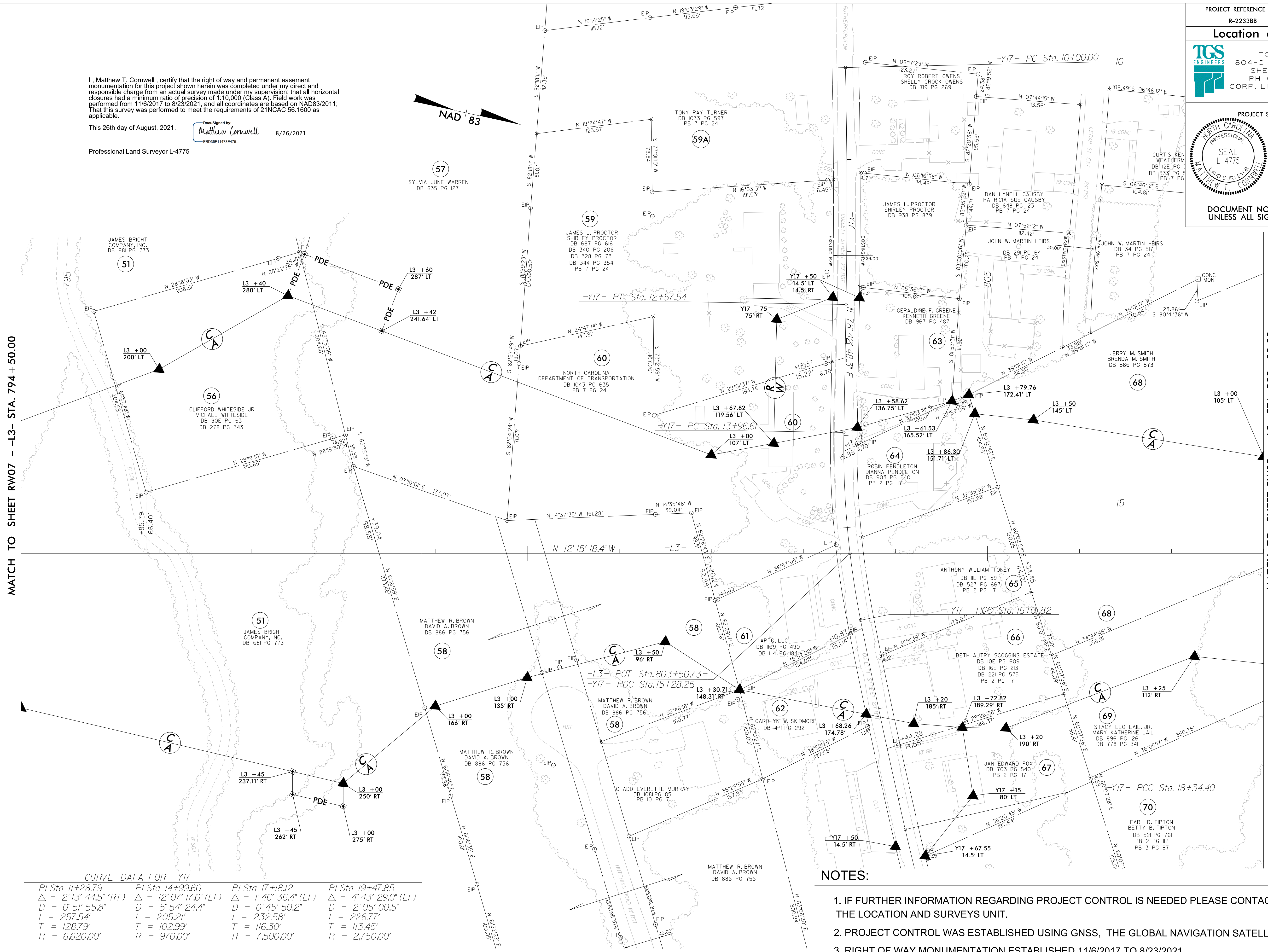
NOTES:

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 11/6/2017 TO 8/23/2021 .

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW08
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 26th day of August, 2021.
 DocuSigned by:
Matthew Cornwell
 EBD08F1473E475... 8/26/2021
 Professional Land Surveyor L-4775



MATCH TO SHEET RW07 - L3- STA. 794 + 50.00

MATCH TO SHEET RW09 - L3- STA. 808 + 00.00



CURVE DATA FOR -Y17-

PI Sta 11+28.79	PI Sta 14+99.60	PI Sta 17+18.12	PI Sta 19+47.85
$\Delta = 2^\circ 13' 44.5''$ (RT)	$\Delta = 12^\circ 07' 17.0''$ (LT)	$\Delta = 1^\circ 46' 36.4''$ (LT)	$\Delta = 4^\circ 43' 29.0''$ (LT)
$D = 0^\circ 51' 55.8''$	$D = 5^\circ 54' 24.4''$	$D = 0^\circ 45' 50.2''$	$D = 2^\circ 05' 00.5''$
$L = 257.54'$	$L = 205.21'$	$L = 232.58'$	$L = 226.77'$
$T = 128.79'$	$T = 102.99'$	$T = 116.30'$	$T = 113.45'$
$R = 6,620.00'$	$R = 970.00'$	$R = 7,500.00'$	$R = 2,750.00'$

- 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 11/6/2017 TO 8/23/2021 .

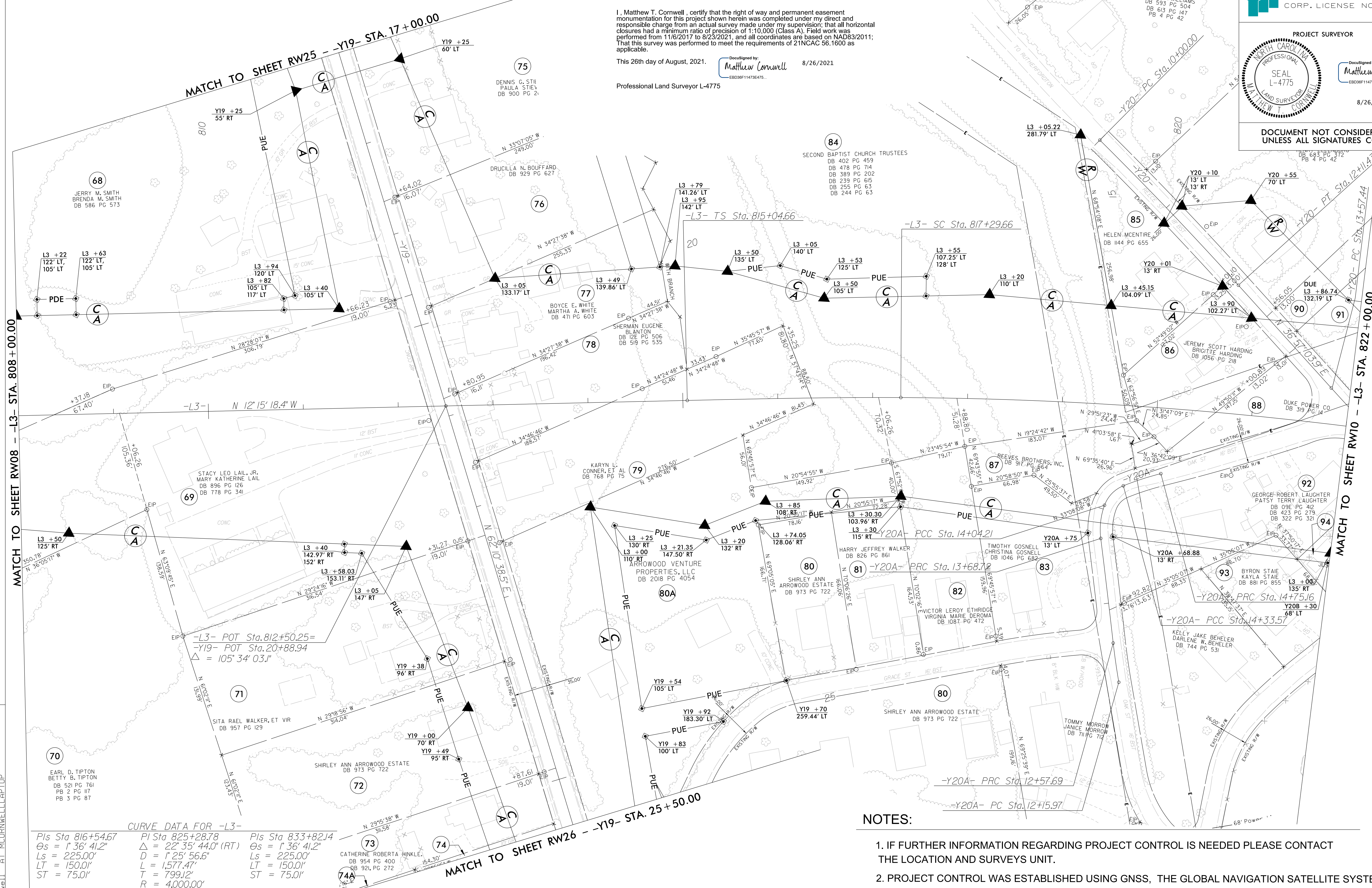
REVISIONS

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 mccornwell

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW09
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 SEAL L-4775 MATTHEW T. CORNWELL PROFESSIONAL LAND SURVEYOR	
DocuSigned by: Matthew Cornwell EBD36F1473E475... 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 26th day of August, 2021.
 DocuSigned by:
Matthew Cornwell
 EBD36F1473E475...
 8/26/2021
 Professional Land Surveyor L-4775



CURVE DATA FOR -L3-

Pls Sta 816+54.67	Pls Sta 825+28.78	Pls Sta 833+82.14
Qs = 1' 36" 41.2"	Δ = 22' 35" 44.0" (RT)	Qs = 1' 36" 41.2"
Ls = 225.00'	L = 1,577.47'	Ls = 225.00'
LT = 150.01'	T = 799.12'	LT = 150.01'
ST = 75.01'	R = 4,000.00'	ST = 75.01'
	SE = .05	

- 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 11/6/2017 TO 8/23/2021 .

REVISIONS

25-AUG-2021 10:56
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