

09/06/19

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4405B	RW01	18

TIP PROJECT: U-4405B

CONTRACT: C204797

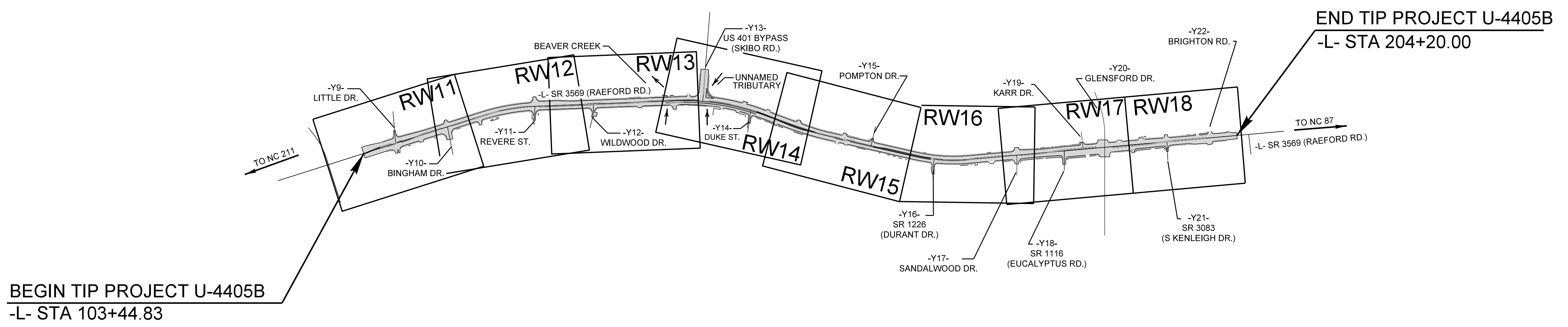
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

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

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**CUMBERLAND COUNTY**



NOT TO SCALE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U3424-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 470,729.9010(ft) EASTING: 2,003,980.0510(ft) ELEVATION: 211.69(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.0001250200

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U3424-1" TO -L- STATION 103+44.83 IS S 68° 33' 43" W 738.97'

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

Prepared in the Office of:



ESP ASSOCIATES, INC  
 2200 GATEWAY CENTRE BLVD.  
 SUITE 216  
 MORRISVILLE, NC 27560

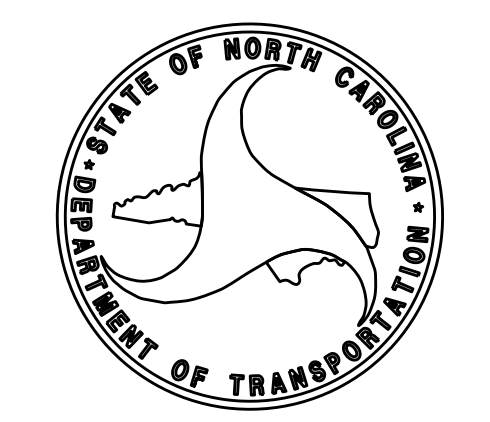
2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
 JULY 29, 2016

**LETTING DATE:**  
 APRIL 18, 2023

PROFESSIONAL LAND SURVEYOR

DS



\$\$\$\$\$ SYSTEM \$\$\$\$\$\$ DDN \$\$\$\$\$\$ USERNAME \$\$\$\$\$\$

# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

I, Toynia E.S. Gibbs, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:




Class of survey: AA  
Type of GPS field procedure: VRS  
Dates of survey: February 22, 2023 - May 17, 2023  
Datum/Epoch: NAD83 (2011)  
Published/Fixed-control use: CORS  
Localized around: U3424-1  
Northing: 470729.9010  
Easting: 2003980.0510  
Combined grid factor: 1.0001250200  
Geoid model: GEOID09  
Units: US SURVEY FEET

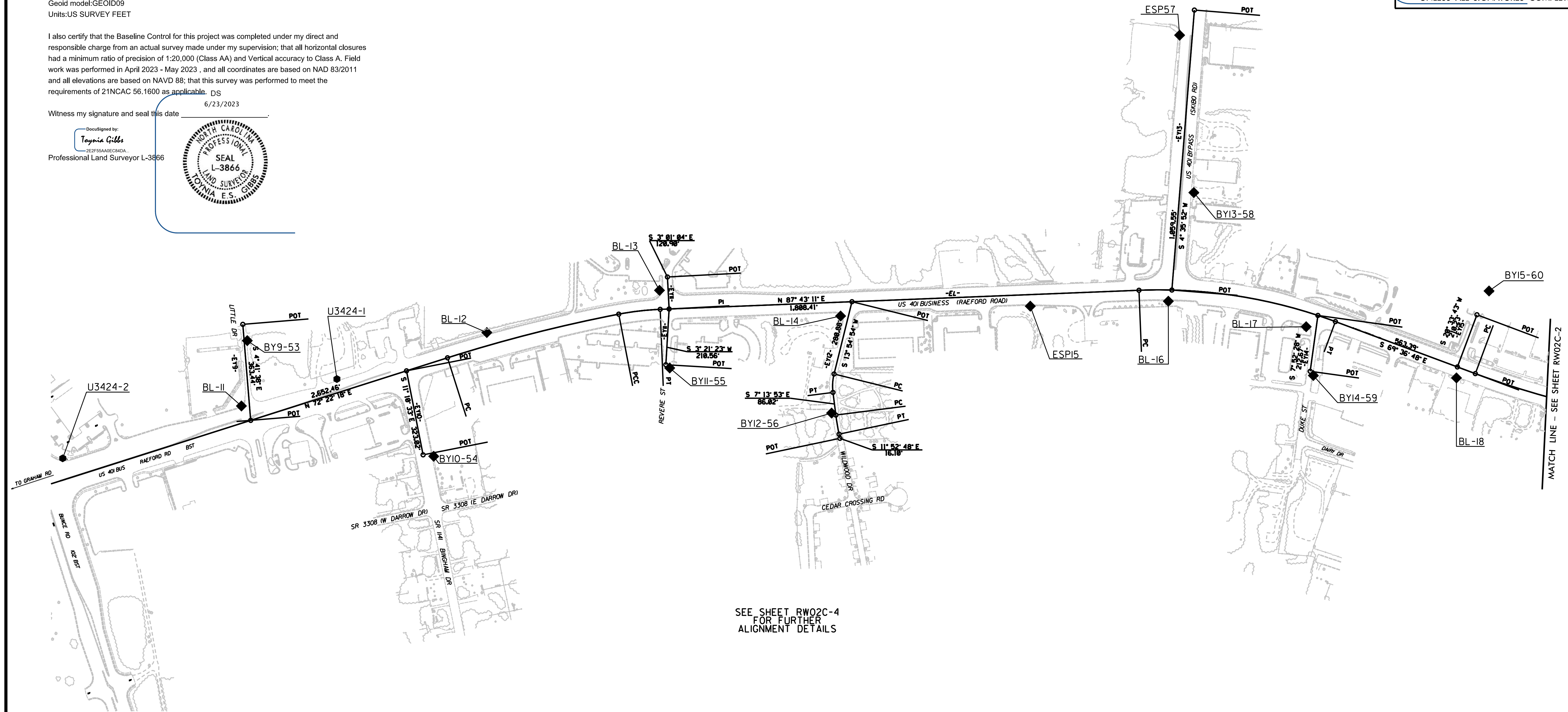
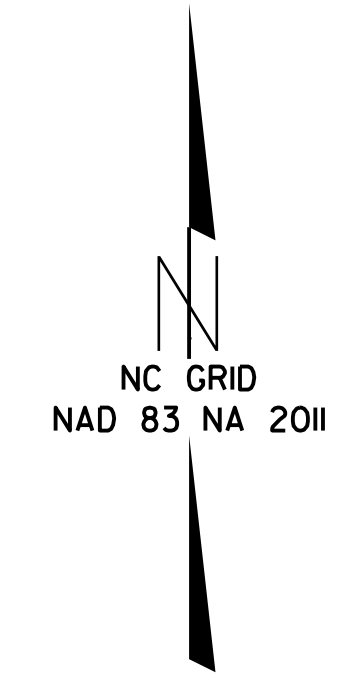
I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed in April 2023 - May 2023, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable. DS

Witness my signature and seal this date 6/23/2023

DocuSigned by:  
*Toynia Gibbs*  
Professional Land Surveyor L-3866



PROJECT REFERENCE NO. U-4405B	SHEET NO. RW02C-1
<b>Location and Surveys</b>	
 ESP ASSOCIATES, INC. 2200 GATEWAY CENTRE BLVD. SUITE 216 MORRISVILLE, NC 27560 LICENSE NO. F-1407	
PROJECT SURVEYOR: TOYNIA E.S. GIBBS	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SEE SHEET RW02C-4 FOR FURTHER ALIGNMENT DETAILS

### NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- NOT TO SCALE

SYTIME 6/2/2023 10:58:58 AM



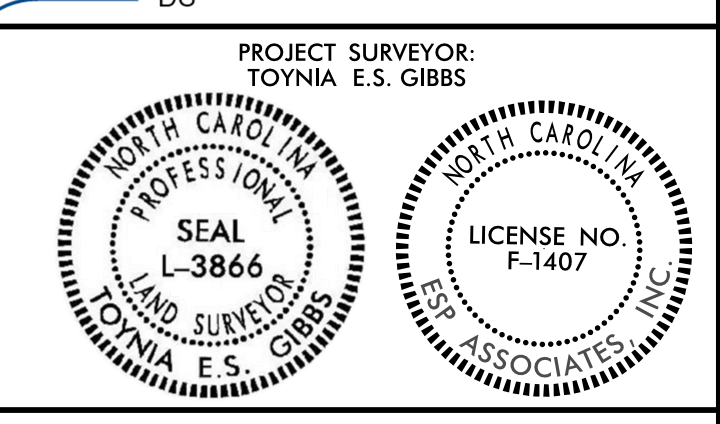


# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-4405B	RW02C-4

### Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Toynia E.S. Gibbs, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**  
 Type of GPS field procedure: VRS  
 Dates of survey: February 22, 2023 - May 17, 2023  
 Datum/Epoch: NAD83 (2011)  
 Published/Fixed-control use: CORS  
 Localized around: U3424-1  
 Northing: 470729.9010  
 Easting: 2003980.0510  
 Combined grid factor: 1.0001250200  
 Geoid model: GEOID09  
 Units: US SURVEY FEET

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed in April 2023 - May 2023, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

Witness my signature and seal this date 6/23/2023

Designed by  
**Toynia Gibbs**  
 22755A06E0C8DA  
 Professional Land Surveyor L-3866



EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	467760.243	1994411.104							
LINE			N 76°00'44.3" E	5143.22'					
PC	469003.429	1999401.815							
CURVE			N 70°51'56.0" E	685.31'	10°17'36.6"(LT)	01°30'00.0"	686.23'	344.04'	3819.72'
PT	469228.064	2000249.264							
LINE			N 65°43'07.7" E	1315.60'					
PC	469769.059	2001248.484							
CURVE			N 69°02'42.9" E	664.92'	06°39'10.5"(RT)	01°00'00.0"	665.29'	333.02'	5729.58'
PT	470006.854	2001869.426							
LINE			N 72°22'18.2" E	2652.46'					
PC	470810.125	2004397.326							
CURVE			N 75°42'28.3" E	666.85'	06°40'20.3"(RT)	01°00'00.0"	667.23'	333.99'	5729.58'
PT	470974.748	2005043.540							
LINE			S 79°02'38.5" W	0.00'					
PC	470974.748	2005043.540							
CURVE			N 83°22'54.5" E	157.38'	08°40'32.1"(RT)	05°30'26.0"	157.53'	78.92'	1040.37'
PT	470992.887	2005199.872							
LINE			N 87°43'10.6" E	1808.41'					
PC	471064.843	2007006.846							
CURVE			S 80°56'48.6" E	750.65'	22°40'01.7"(RT)	03°00'00.0"	755.57'	382.79'	1909.86'
PT	470946.727	2007748.148							
LINE			S 69°36'47.7" E	563.39'					
PC	470750.468	2008276.245							
CURVE			S 73°24'07.2" E	432.68'	07°34'39.0"(LT)	01°45'00.0"	433.00'	216.82'	3274.04'
PT	470626.870	2008690.901							
LINE			S 77°11'26.7" E	878.71'					
PC	470432.055	2009547.743							
CURVE			S 86°07'26.1" E	593.13'	17°51'58.8"(LT)	03°00'00.0"	595.54'	300.21'	1909.86'
PT	470391.960	2010139.520							
LINE			N 84°56'34.5" E	3744.65'					
PC	470722.044	2013869.595							
CURVE			N 85°42'39.2" E	307.18'	01°32'09.4"(RT)	00°30'00.0"	307.19'	153.60'	11459.16'
PT	470745.018	2014175.914							
LINE			N 86°28'43.9" E	5050.95'					
PC	471055.231	2019217.332							
CURVE			N 84°23'22.4" E	208.88'	04°10'42.9"(LT)	02°00'00.0"	208.93'	104.51'	2864.79'
PT	471075.653	2019425.215							
LINE			N 82°18'00.9" E	4068.40'					
POT	471620.744	2023456.938							
LINE			N 84°09'30.1" E	222.44'					
POT	471643.384	2023678.224							
LINE			N 82°18'36.0" E	763.38'					
PC	471745.535	2024434.738							
CURVE			N 60°31'38.7" E	531.54'	43°33'54.7"(LT)	08°00'00.0"	544.56'	286.21'	716.20'
PT	472007.057	2024897.493							
LINE			N 38°44'41.3" E	371.12'					
POT	472296.511	2025129.762							

EY12 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	471021.709	2005923.657							
LINE			S 13°54'54.0" W	280.88'					
PC	470749.067	2005856.109							
CURVE			S 03°20'30.7" W	69.73'	21°08'46.6"(LT)	30°09'20.4"	70.12'	35.47'	190.00'
PT	470679.459	2005852.045							
LINE			S 07°13'52.6" E	86.02'					
PC	470594.122	2005862.873							
CURVE			S 09°33'20.4" E	73.00'	04°38'55.6"(LT)	06°21'58.3"	73.02'	36.53'	900.00'
PT	470522.132	2005874.992							
LINE			S 11°52'48.2" E	16.10'					
POT	470506.376	2005878.306							

EY18 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	470396.585	2009756.879							
LINE			S 04°58'49.0" W	92.90'					
PC	470304.032	2009748.813							
CURVE			S 03°12'34.3" W	61.80'	03°32'29.4"(LT)	05°43'46.5"	61.81'	30.92'	1000.00'
PT	470242.328	2009745.353							
LINE			S 01°26'19.6" W	62.60'					
POT	470179.753	2009743.782							

EY22-EXT POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	470943.322	2011627.938							
CURVE			S 07°45'13.6" E	281.22'	14°41'04.1"(RT)	05°12'26.5"	281.99'	141.77'	1100.29'
PT	470664.669	2011665.879							
LINE			S 00°24'41.6" E	137.55'					
POT	470527.119	2011666.867							

EY9 POINT	N	E	BEARING	DIST
POT	470936.295	2003624.725		
LINE			S 04°41'38.0" E	363.44'
POT	470574.072	2003654.466		

EY10 POINT	N	E	BEARING	DIST
POT	470760.936	2004242.528		
LINE			S 11°10'33.0" E	323.02'
POT	470444.037	2004305.137		

EY11 POINT	N	E	BEARING	DIST
POT	471114.959	2005227.258		
LINE			S 03°01'04.0" E	120.90'
POT	470994.231	2005233.623		
LINE			S 03°21'22.8" W	210.56'
POT	470784.029	2005221.296		

EY13 POINT	N	E	BEARING	DIST
POT	472121.891	2007215.956		
LINE			S 04°35'52.0" W	1059.55'
POT	471065.748	2007131.022		

EY14 POINT	N	E	BEARING	DIST
POT	470969.900	2007682.111		
LINE			S 07°52'28.0" W	212.67'
POT	470759.233	2007652.974		

EY15 POINT	N	E	BEARING	DIST
POT	470972.477	2008282.352		
LINE			S 20°33'43.0" W	210.23'
POT	470775.639	2008208.514		

EY16 POINT	N	E	BEARING	DIST
POT	470785.084	2008765.689		
LINE			S 10°59'13.0" W	170.94'
POT	470617.273	2008733.110		

EY17 POINT	N	E	BEARING	DIST
POT	470766.351	2009093.623		
LINE			S 12°55'17.0" W	225.30'
POT	470546.760	2009043.244		

EY19 POINT	N	E	BEARING	DIST
POT	470441.122	2010695.072		
LINE			S 00°02'42.0" W	230.59'
POT	470210.529	2010694.891		

EY20 POINT	N	E	BEARING	DIST
POT	470488.676	2011232.454		
LINE			S 00°17'11.0" W	221.49'
POT	470267.193	2011231.347		

EY21 POINT	N	E	BEARING	DIST
POT	470706.077	2011425.449		
LINE			S 05°22'56.0" E	199.55'
POT	470507.411	2011444.166		

EY22-REV POINT	N	E	BEARING	DIST
POT	470529.071	2011688.930		
LINE			S 00°01'38.0" E	341.17'
POT	470187.905	2011689.092		

EY23 POINT	N	E	BEARING	DIST
POT	470591.630	2012395.868		
LINE			S 02°44'54.0" E	219.88'
POT	470372.001	2012406.411		

EY24 POINT	N	E	BEARING	DIST
POT	470634.749	2012883.130		
LINE			S 04°11'58.0" E	193.18'
POT	470442.087	2012897.276		

EY24A POINT	N	E	BEARING	DIST
POT	470844.737	2012872.224		
LINE			S 04°03'12.0" E	210.16'
POT	470635.099	2012887.080		




### NOTES:

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

6/2/2023 11:58:58 AM



# RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4405B	RW03E-1
<b>Location and Surveys</b>	
 <b>ESP ASSOCIATES, INC.</b> 2200 GATEWAY CENTRE BLVD. SUITE 216 MORRISVILLE, NC 27560 <small>LICENSE NO. F-1407</small>	
PROJECT SURVEYOR	
 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP UNLESS OTHERWISE NOTED, L

ALIGN	STATION	OFFSET	NORTH	EAST	
L	104+19.00	-86.00	470564.2604	2003336.7915	
L	104+54.00	-82.50	470571.5412	2003371.2047	
L	113+69.54	118.00	470658.2821	2004304.4220	
L	113+99.85	73.81	470709.5813	2004319.8945	
L	115+59.00	-54.25	470879.8999	2004432.6836	
L	117+70.00	-55.00	470944.4202	2004634.3748	
L	118+20.16	-55.00	470958.8520	2004683.4143	
L	120+97.92	55.00	470912.0154	2004978.2562	
L	122+88.00	55.00	470934.5533	2005162.5541	
L	122+88.25	-55.00	471044.2041	2005153.7913	
L	123+83.96	-103.25	471098.6001	2005248.7928	
L	124+17.00	55.00	470942.0202	2005289.1566	
L	124+29.00	-66.00	471063.4168	2005296.0798	
L	124+65.47	55.00	470943.9744	2005337.4094	
L	124+65.47	-66.00	471064.8805	2005332.6443	
L	126+16.00	-66.00	471070.8084	2005483.0557	
L	126+48.12	-63.46	471069.5350	2005515.2547	
L	127+56.04	-54.93	471065.2655	2005623.4200	
L	127+65.36	-54.25	471064.9495	2005632.7622	
L	129+61.00	55.00	470963.4887	2005832.5531	
L	130+08.00	-54.25	471074.5086	2005875.2141	
L	130+85.00	56.00	470967.3727	2005956.4963	
L	133+46.50	56.00	470977.6709	2006217.7960	
L	135+96.38	56.00	470987.5113	2006467.4807	
L	136+04.00	-55.00	471098.7253	2006470.7224	MAG NAIL
L	137+03.00	-56.00	471103.6232	2006569.6063	
L	138+08.20	56.00	470995.8531	2006679.1386	NOT SET, FELL IN WATER
L	139+64.00	-57.00	471114.7714	2006830.7255	*X* IN CONCRETE
L	140+10.00	-57.00	471116.0771	2006877.3464	*X* IN CONCRETE
L	140+45.56	-56.00	471115.6551	2006913.6223	
L	141+00.00	56.34	471003.2442	2006967.8925	
L	141+00.00	60.00	470999.5806	2006967.8471	
L	141+49.00	-56.00	471114.4604	2007019.3684	
L	142+08.00	-113.00	471168.7320	2007082.7975	
L	143+10.00	56.00	470992.4238	2007172.8289	NOT SET, FELL IN WATER
L	143+10.00	60.00	470988.4424	2007172.4439	
L	146+93.00	-69.02	471049.1870	2007572.1815	HOLE IN CONCRETE
L	147+88.00	56.00	470903.3959	2007630.8378	
L	148+88.39	-70.00	470992.9703	2007764.9256	
L	149+00.55	-68.87	470987.8529	2007776.3666	
L	149+13.00	56.20	470865.6213	2007747.0821	MAG NAIL
L	150+38.39	55.00	470824.0640	2007864.1493	MAG NAIL
L	153+05.00	55.33	470730.5189	2008114.3850	MAG NAIL
L	153+54.56	55.00	470713.9693	2008161.8014	*X* IN CONCRETE
L	156+65.57	55.00	470623.3947	2008464.4023	
L	157+05.00	-55.32	470721.1414	2008528.9996	
L	157+15.00	55.33	470611.1995	2008512.9901	
L	158+15.57	-55.00	470696.0009	2008636.0025	
L	162+06.00	-55.00	470609.3033	2009016.6849	MAG NAIL
L	162+29.29	-66.00	470614.8577	2009041.8329	MAG NAIL
L	162+71.74	-66.00	470605.4310	2009083.2248	
L	162+86.00	-55.00	470591.5388	2009094.6876	
L	166+90.67	-55.00	470501.6791	2009489.2545	
L	167+91.00	55.60	470371.9303	2009563.6027	SPIKE
L	168+40.67	-55.00	470470.7280	2009633.8083	MAG NAIL
L	169+37.46	57.00	470344.8200	2009711.6521	
L	170+20.38	55.00	470337.2455	2009796.6799	
L	170+33.00	-54.28	470445.0123	2009818.7795	
L	172+89.21	55.00	470331.6658	2010072.9679	MAG NAIL
L	173+18.00	-54.27	470442.4014	2010095.4909	NOT SET, FELL IN WATER
L	173+34.70	-54.59	470443.8223	2010111.7706	
L	173+39.00	55.00	470334.8125	2010123.8552	MAG NAIL
L	174+12.85	55.00	470340.9088	2010198.3554	
L	176+84.71	55.00	470365.1887	2010469.1889	
L	178+42.00	55.00	470379.2398	2010625.8542	HOLE IN CONCRETE
L	178+81.09	96.00	470341.8954	2010668.4481	MAG NAIL
L	179+32.98	85.00	470357.4869	2010719.1496	MAG NAIL
L	179+80.00	55.00	470391.5673	2010763.3025	MAG NAIL
L	180+03.33	-65.70	470513.8690	2010775.7552	
L	180+79.28	-60.00	470514.9802	2010851.9105	
L	181+41.44	-55.34	470515.8896	2010914.2438	MAG NAIL
L	181+46.00	-55.00	470515.9563	2010918.8126	MAG NAIL
L	181+94.61	55.00	470410.7382	2010977.0521	MAG NAIL
L	181+95.00	-55.00	470520.3335	2010967.6167	MAG NAIL
L	184+00.00	59.00	470425.1019	2011181.9807	MAG NAIL
L	184+95.00	-60.00	470552.1124	2011265.9706	MAG NAIL
L	184+96.00	81.29	470411.4741	2011279.5883	*X* IN CONCRETE
L	186+23.00	-60.00	470563.5467	2011393.4589	MAG NAIL
L	186+33.55	-67.00	470571.4608	2011403.3375	MAG NAIL
L	186+95.57	-67.00	470577.0909	2011466.1113	
L	187+14.00	-60.00	470571.6757	2011484.0951	
L	187+92.63	-60.00	470578.6998	2011562.4120	MAG NAIL
L	190+01.70	71.00	470466.8995	2011782.3450	
L	191+82.00	-59.76	470613.2435	2011950.2455	
L	192+62.00	71.00	470490.1522	2012041.6065	AREA UNDER CONSTRUCTION
L	192+78.00	60.00	470502.5375	2012056.5599	AREA UNDER CONSTRUCTION
L	192+83.00	-60.00	470622.5044	2012050.8203	

ROW MARKER IRON PIN AND CAP UNLESS OTHERWISE NOTED, L

ALIGN	STATION	OFFSET	NORTH	EAST	
L	193+90.00	60.00	470512.5425	2012168.1121	AREA UNDER CONSTRUCTION
L	193+96.00	-60.00	470632.5987	2012163.3685	
L	195+32.00	-57.25	470642.0081	2012299.0705	
L	195+78.00	57.00	470532.3245	2012355.0925	MAG NAIL, AREA UNDER CONSTRUCTION
L	195+92.00	69.00	470521.6235	2012370.1130	AREA UNDER CONSTRUCTION
L	196+52.05	72.00	470523.9994	2012430.1873	
L	196+65.00	55.00	470542.0882	2012441.5660	
L	198+19.08	-55.00	470665.4124	2012585.2039	MAG NAIL
L	198+48.00	55.00	470558.4356	2012623.8344	
L	198+99.00	66.00	470552.0354	2012675.6131	
L	200+50.00	66.00	470565.5242	2012826.0095	
L	200+71.00	-55.00	470687.9164	2012836.1166	MAG NAIL
L	200+73.00	87.00	470546.6628	2012850.7934	
L	200+96.88	-77.00	470712.1406	2012859.9312	
L	201+40.07	84.00	470555.6424	2012917.3301	
L	201+63.00	55.00	470586.5745	2012937.5751	
L	201+66.87	-53.00	470694.4883	2012931.7797	REBAR W/ PLASTIC CAP - NC GOODWIN

ROW MARKER IRON PIN AND CAP UNLESS OTHERWISE NOTED, Y11

ALIGN	STATION	OFFSET	NORTH	EAST	
Y11	10+90.00	-29.28	470902.8800	2005257.5932	MAG NAIL
Y11	10+96.00	30.77	470900.4059	2005197.2959	

ROW MARKER IRON PIN AND CAP UNLESS OTHERWISE NOTED, Y12

ALIGN	STATION	OFFSET	NORTH	EAST	
Y12	10+80.00	-35.38	470939.3939	2005932.2919	
Y12	10+85.00	26.69	470937.6871	2005870.0383	

ROW MARKER IRON PIN AND CAP UNLESS OTHERWISE NOTED, Y13

ALIGN	STATION	OFFSET	NORTH	EAST	
Y13	17+05.00	59.11	471362.6530	2007100.2257	MAG NAIL
Y13	17+05.00	-52.31	471353.7744	2007211.2908	MAG NAIL
Y13	17+05.00	60.00	471362.7237	2007099.3420	MAG NAIL
Y13	17+05.00	-48.86	471354.0494	2007207.8511	MAG NAIL
Y13	18+46.09	-55.91	471212.8420	2007203.6354	
Y13	18+94.00	-62.76	471164.5426	2007206.6467	

ROW MARKER IRON PIN AND CAP UNLESS OTHERWISE NOTED, Y14

ALIGN	STATION	OFFSET	NORTH	EAST	
Y14	10+72.00	28.76	470879.9347	2007640.6314	
Y14	10+87.00	-31.13	470856.8710	2007697.9022	

ROW MARKER IRON PIN AND CAP UNLESS OTHERWISE NOTED, Y18

ALIGN	STATION	OFFSET	NORTH	EAST	
Y18	10+95.00	23.79	470393.9858	2011208.1887	MAG NAIL
Y18	10+95.00	-26.46	470393.7346	2011258.4363	MAG NAIL

**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 FEBRUARY 2023 TO JUNE 2023.

REVISIONS


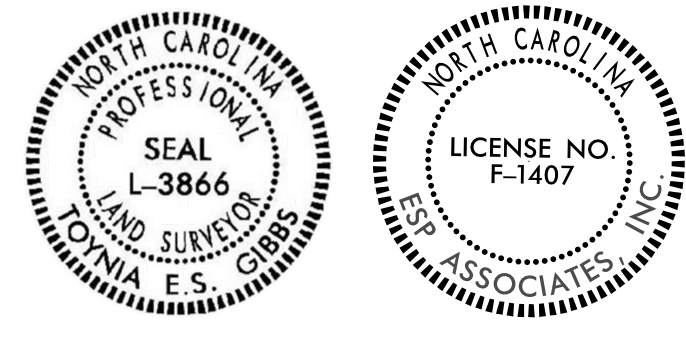
I, Toynia E.S. Gibbs, PLS., certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from February 2023 to May 2023, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

Witness my original signature and seal this date 6/23/2023

Professional Land Surveyor L-3866



# RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4405B	RW03E-2
<b>Location and Surveys</b>	
	
ESP ASSOCIATES, INC. 2200 GATEWAY CENTRE BLVD. SUITE 216 MORRISVILLE, NC 27560	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

## PERMANENT EASEMENT MARKER IRON PIN AND CAP-E UNLESS OTHERWISE NOTED, L

ALIGN	STATION	OFFSET	NORTH	EAST
L	105+06.00	-97.00	470601.1386	2003416.3528
L	105+06.00	-124.00	470626.8658	2003408.1607
L	105+17.00	-97.00	470604.4761	2003426.8343
L	105+17.00	-124.00	470630.2034	2003418.6422
L	106+64.00	-94.04	470646.2575	2003567.8011
L	108+20.00	91.89	470691.5403	2003717.1058
L	114+24.00	-82.00	470865.3767	2004295.6293
L	114+96.00	-80.00	470885.3166	2004364.8421
L	119+17.00	-73.00	471001.5121	2004774.9948
L	119+17.00	-106.00	471033.5922	2004767.2574
L	119+88.00	-78.00	471022.5044	2004845.3303
L	119+88.00	-105.00	471048.9275	2004839.7788
L	120+00.00	-86.00	471048.1354	2004937.2986
L	120+00.00	-116.00	471077.7092	2004932.2600
L	120+85.00	55.50	470909.4619	2004965.8798
L	120+85.00	70.00	470895.1617	2004968.2856
L	120+92.00	-86.00	471050.1924	2004949.5572
L	120+92.00	-117.00	471080.7777	2004944.5035
L	121+15.00	55.00	470914.6360	2004994.7330
L	121+15.00	70.00	470899.8139	2004997.0364
L	123+28.06	-90.90	471083.0260	2005192.0296
L	123+95.00	-94.01	471089.9021	2005260.4830
L	123+95.00	-113.00	471108.8735	2005259.6042
L	124+09.00	-96.00	471092.5323	2005274.6134
L	124+09.00	-113.00	471109.5160	2005273.8687
L	125+36.00	55.00	470946.7517	2005407.8791
L	125+36.00	106.00	470895.7914	2005409.8912
L	125+85.00	55.00	470948.6815	2005456.8448
L	125+85.00	105.00	470898.7203	2005458.8138
L	126+09.00	55.00	470949.6266	2005480.8262
L	126+09.00	73.00	470931.6406	2005481.5350
L	126+39.00	55.00	470950.8081	2005510.8029
L	126+39.00	73.00	470932.8220	2005511.5118
L	128+28.00	-104.00	471117.1277	2005693.3947
L	128+28.00	-94.00	471107.1355	2005693.7885
L	128+39.00	-94.00	471107.5686	2005704.7800
L	128+39.00	-104.00	471117.5609	2005704.3862
L	129+67.68	60.00	470958.7558	2005839.4292
L	131+12.00	56.00	470968.4360	2005983.4754
L	132+30.00	-91.00	471119.9689	2006095.5948
L	132+33.00	-126.00	471155.0599	2006097.2142
L	132+41.00	-90.00	471119.4029	2006106.6257
L	132+43.00	-125.00	471154.4545	2006107.2458
L	133+09.00	-54.63	471086.7389	2006175.9658
L	133+09.00	-81.00	471113.0877	2006174.9274
L	133+09.00	-90.00	471122.0808	2006174.5729
L	133+35.00	56.00	470977.2179	2006206.3024
L	133+35.00	73.00	470960.2311	2006206.9719
L	133+55.43	73.00	470961.0357	2006227.3859
L	133+68.00	-73.00	471107.4174	2006234.1966
L	134+74.00	-54.84	471093.4431	2006340.8297
L	134+74.00	-66.00	471104.5972	2006340.3901
L	134+74.00	-74.00	471112.5910	2006340.0750
L	134+74.00	-90.00	471128.5786	2006339.4449
L	135+40.00	-66.00	471107.1964	2006406.3389
L	135+40.00	-221.00	471262.0761	2006400.2348
L	135+71.00	-74.00	471116.4110	2006436.9998
L	135+71.00	-221.00	471263.2969	2006431.2108
L	135+95.00	-54.99	471098.3596	2006461.7299
L	135+95.00	-74.00	471117.3561	2006460.9812
L	135+95.00	-115.00	471158.3243	2006459.3666
L	136+74.00	-55.71	471102.1885	2006540.6403
L	136+74.00	-74.00	471120.4672	2006539.9199
L	136+74.00	-115.00	471161.4354	2006538.3053
L	137+02.00	56.00	470991.6707	2006573.0177
L	137+02.00	180.00	470867.7669	2006577.9009
L	137+03.00	-74.00	471121.6092	2006568.8974
L	137+03.00	-114.00	471161.5782	2006567.3222
L	137+33.00	-114.00	471162.7596	2006597.2989
L	137+33.00	-158.00	471206.7255	2006595.5661
L	137+71.00	-158.00	471208.2220	2006633.5367
L	137+86.00	-126.00	471176.8375	2006649.7852
L	137+86.00	-140.70	471191.5276	2006649.2062
L	137+98.75	-126.00	471177.3395	2006662.5234
L	138+43.00	-76.00	471129.1210	2006708.7100
L	138+53.00	60.09	470993.5345	2006724.0615
L	138+53.00	181.00	470872.7142	2006728.8232
L	138+74.00	-56.00	471110.3573	2006740.4736
L	138+74.00	-76.00	471130.3418	2006739.6860
L	138+87.00	60.07	470994.8874	2006758.0345
L	138+87.00	100.00	470954.9903	2006759.6069
L	139+77.00	-75.00	471133.1821	2006843.3172
L	139+80.00	-100.00	471158.2631	2006845.6186
L	139+87.16	-75.00	471133.4860	2006853.6540
L	139+89.92	-100.00	471158.5548	2006855.7736
L	140+30.00	100.00	470959.4764	2006900.1217
L	140+50.00	58.40	471001.2987	2006919.0359
L	140+51.00	79.00	470980.7048	2006920.1611
L	141+35.00	-75.00	471133.8715	2007005.5622
L	141+53.00	-90.00	471148.3071	2007024.5975
L	141+88.00	93.23	471150.0653	2007060.9811

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## PERMANENT EASEMENT MARKER IRON PIN AND CAP-E UNLESS OTHERWISE NOTED, L

ALIGN	STATION	OFFSET	NORTH	EAST
L	142+98.00	60.00	470989.5415	2007160.7836
L	142+98.00	83.00	470966.6379	2007158.6801
L	143+09.00	87.00	470961.6604	2007168.8848
L	143+16.00	138.00	470910.2521	2007170.5793
L	143+57.00	-90.59	471133.1873	2007235.3644
L	143+88.00	78.00	470962.0816	2007245.8017
L	143+88.00	56.00	470983.9028	2007248.6010
L	143+97.85	-94.98	471132.3371	2007277.9552
L	143+98.00	140.00	471176.9450	2007284.0115
L	144+08.00	56.00	470981.3374	2007267.9839
L	144+08.00	78.00	470959.5393	2007265.0101
L	144+08.00	137.00	470901.0808	2007257.0350
L	144+17.00	171.00	471204.9372	2007308.1927
L	144+48.00	-142.00	471171.4714	2007336.5843
L	144+53.00	-94.00	471123.2333	2007334.4637
L	144+65.00	-69.30	471096.9067	2007342.8677
L	145+63.00	75.00	470937.5852	2007413.6605
L	145+63.00	-86.00	471095.4527	2007445.2653
L	145+63.00	-121.00	471129.7717	2007452.1359
L	145+75.00	-71.09	471078.3768	2007454.4328
L	145+75.00	-121.00	471127.2724	2007464.4660
L	147+04.00	-69.09	471046.4354	2007583.1455
L	147+04.00	-85.00	471061.8372	2007587.1437
L	147+79.00	75.00	470887.6373	2007617.0728
L	147+83.00	-89.00	471043.9047	2007666.9886
L	148+99.19	81.00	470846.6187	2007726.2171
L	150+32.00	-85.00	470957.4399	2007907.1810
L	150+32.00	-88.00	470960.2500	2007908.2313
L	150+43.00	-85.00	470953.5866	2007917.4890
L	150+43.00	-88.00	470956.3967	2007918.5395
L	150+46.00	74.00	470803.6025	2007864.6235
L	151+64.00	55.00	470780.0806	2007981.8059
L	151+64.00	74.00	470762.2835	2007975.1529
L	151+93.00	55.00	470769.9260	2008008.9699
L	151+93.00	74.00	470752.1289	2008002.3169
L	152+10.00	79.00	470741.4920	2008016.4919
L	152+31.00	-87.00	470889.6560	2008094.2339
L	152+31.00	-95.00	470897.1514	2008097.0301
L	152+42.00	-95.00	470893.3325	2008107.2770
L	152+42.00	77.00	470698.1301	2008140.5207
L	153+40.00	-87.00	470885.8351	2008104.4859
L	153+40.00	72.00	470702.8439	2008142.1881
L	153+54.59	-88.00	470848.9657	2008208.9709
L	154+08.14	-145.00	470886.2439	2008276.3233
L	154+28.00	64.00	470681.5648	2008229.7145
L	154+28.00	-101.00	470838.4639	2008280.7799
L	155+64.00	66.00	470639.3788	2008361.7083
L	156+71.00	64.00	470613.3236	2008467.5804
L	156+98.00	90.00	470581.5139	2008488.1162
L	157+21.00	-91.00	470752.1897	2008552.6159
L	158+18.00	55.00	470588.2076	2008613.9456
L	158+18.00	74.00	470569.6820	2008609.7265
L	158+96.00	55.00	470570.8872	2008689.9982
L	158+96.00	75.00	470551.3865	2008685.5571
L	159+24.00	-89.00	470705.0745	2008749.2753
L	159+49.36	-98.00	470708.2187	2008775.9994
L	159+51.63	-81.00	470691.1387	2008774.4393
L	159+60.00	-55.00	470663.9293	2008776.8266
L	159+60.00	-73.00	470681.4799	2008780.8237
L	159+60.00	91.00	470521.5744	2008744.4064
L	159+85.00	-55.00	470658.3779	2008801.2025
L	159+85.00	-73.00	470675.9285	2008805.1995
L	160+83.00	-83.00	470663.9173	2008902.9734
L	160+87.00	84.00	470500.1984	2008869.7900
L	162+29.19	-81.00	470629.5180	2009045.0110
L	162+71.49			



