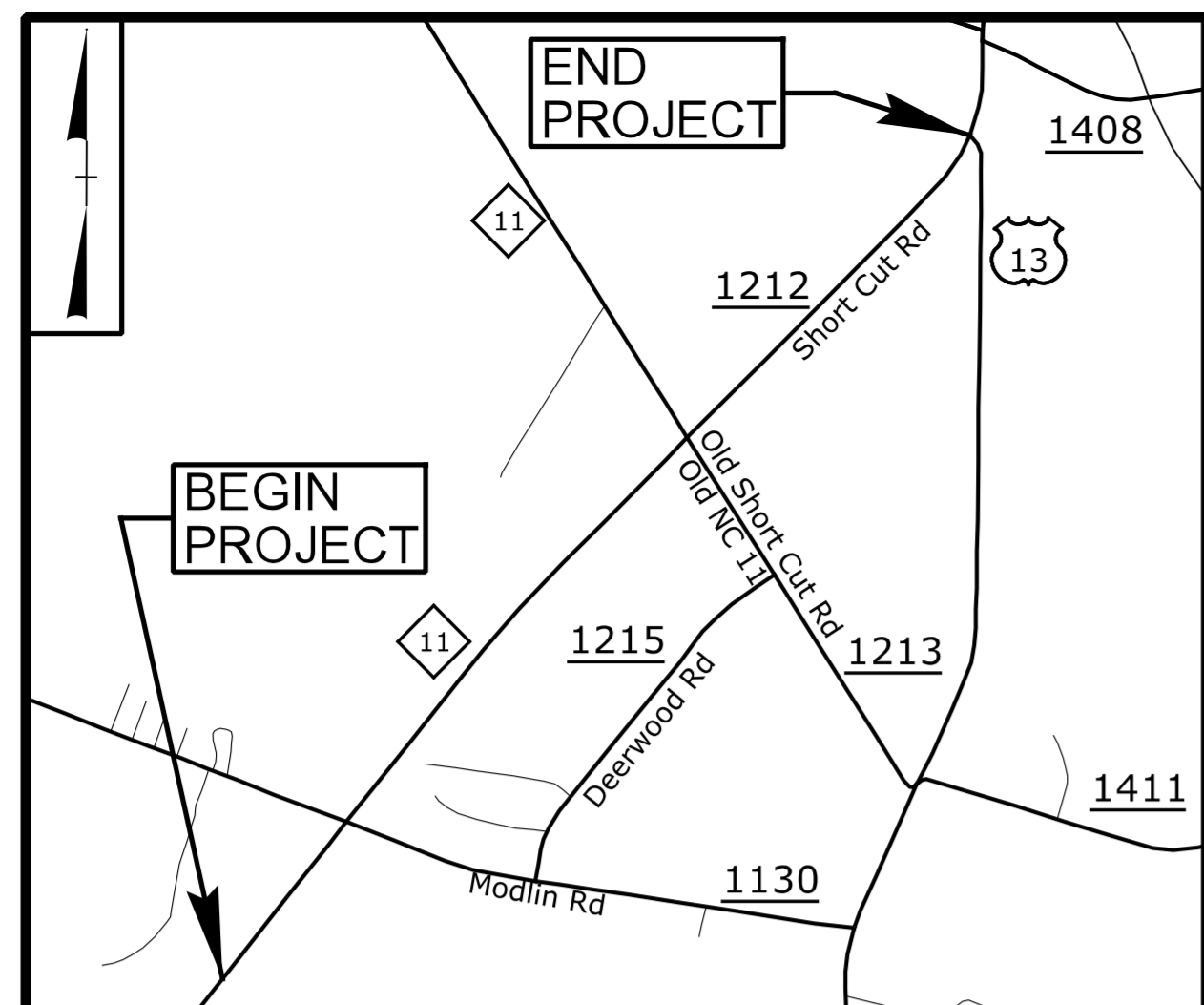


SURVEY CONTROL SHEET R-5311A



VICINITY MAP

BL	POINT	DESC.	NORTH	EAST	ELEVATION	EL STATION	OFFSET
20		R5311A-L-20	939493.2050	2586869.4914	57.83	289+65.95	24.97 LT
21		R5311A-L-21	939983.8809	2587258.9612	58.66	295+92.40	23.49 LT
22		R5311A-L-22	940631.4773	2587768.9701	59.98	304+16.71	24.68 LT
1		R5311A-1	941344.1050	2588425.6240	57.79	313+82.95	48.90 RT
23		R5311A-L-23	942020.3909	2588928.1016	57.13	322+25.11	24.01 RT
24		R5311A-L-24	942870.0080	2589602.6489	55.43	333+10.29	25.51 RT
25		R5311A-L-25	943592.1326	2590241.2233	53.56	342+76.69	25.25 RT
26		R5311A-L-26	944310.6607	2590887.9908	52.42	352+42.65	21.12 LT
3		R5311A-3	944967.4450	2591619.5340	50.96	362+24.19	34.54 RT
27		R5311A-L-27	945629.4681	2592261.3834	50.45	371+46.21	22.91 RT
28		R5311A-L-28	946091.9486	2592724.9064	51.42	378+00.99	25.52 RT
29		R5311A-L-29	946732.1480	2593359.6548	53.39	387+02.52	24.24 RT
30		R5311A-L-30	947287.2707	2593907.8358	53.03	394+82.68	21.56 RT
31		R5311A-L-31	947868.9895	2594266.5279	49.07	401+48.10	134.25 LT
209		R5311A-BY5-209	948542.7695	2594458.8461	48.14	407+61.49	472.94 LT
5		R5311A-5	948723.2700	2594339.5430	49.33	408+05.37	684.81 LT
32		R5311A-L-32	949049.2108	2594312.9509	48.23	410+17.76	933.49 LT
33		R5311A-L-33	949520.7869	2594402.1563	48.87	414+15.06	1202.73 LT

10000	ELEVATION = 56.97	266	ELEVATION = 57.10
N 939435	E 2586923	N 948264	E 2589403
EL STATION 289+54.00	53 RIGHT	Y2 STATION 11+52.00	75 RIGHT
TBM1		TBM7	
256	ELEVATION = 55.41	264	ELEVATION = 52.90
N 941556	E 2588303	N 946790	E 2590481
EL STATION 314+73.00	178 LEFT	Y2 STATION 29+74.00	50 LEFT
TBM2		TBM8	
260	ELEVATION = 54.01	263	ELEVATION = 53.18
N 942815	E 2589619	N 945769	E 2590966
EL STATION 332+78.00	73 RIGHT	Y2 STATION 40+95.00	85 RIGHT
TBM3		TBM4	
268	ELEVATION = 54.02	275	ELEVATION = 50.04
N 946728	E 2593201	N 943743	E 2592407
EL STATION 385+87.00	86 LEFT	Y2 STATION 65+78.00	52 LEFT
TBM5		TBM9	
271	ELEVATION = 52.37	276	ELEVATION = 48.00
N 948663	E 2594393	N 941878	E 2593644
EL STATION 408+01.00	604 LEFT	Y2 STATION 88+16.00	103 LEFT
TBM6		TBM10	

BY	POINT	DESC.	NORTH	EAST	ELEVATION	Y1 STATION	OFFSET
200		R5311A-BY-200	941725.4696	2587628.6820	54.73	17+01.48	15.29 LT
201		R5311A-BY-201	941552.5199	2587989.9629	54.35	21+00.86	15.23 RT
1		R5311A-1	941344.1050	2588425.6240	57.79	25+82.42	51.90 RT
2		R5311A-2	941093.7940	2589303.7020	52.74	34+91.57	32.44 LT

BL1	POINT	DESC.	NORTH	EAST	ELEVATION	Y2 STATION	OFFSET
9		R5311A-9	948823.0410	2589173.1680	53.79	OUTSIDE PROJECT LIMITS	
34		R5311A-L1-34	948236.9524	2589487.2470	54.45	12+19.48	18.28 RT
35		R5311A-L1-35	947451.5353	2589979.4218	52.02	21+46.36	21.28 RT
36		R5311A-L1-36	946667.6890	2590472.1054	50.11	30+72.18	23.01 RT
4		R5311A-4	945890.7420	2590964.4000	51.02	39+91.96	21.39 RT
3		R5311A-3	944967.4450	2591619.5340	50.96	51+22.42	39.83 LT
37		R5311A-L1-37	944315.7932	2592004.4425	49.66	58+78.93	17.51 LT
38		R5311A-L1-38	943713.9638	2592385.8199	49.54	65+91.42	18.81 LT
39		R5311A-L1-39	943030.2072	2592816.2043	49.33	73+99.35	17.82 LT
40		R5311A-L1-40	942348.6785	2593248.1817	47.20	82+06.25	19.36 LT
41		R5311A-L1-41	941662.1246	2593677.2136	43.31	OUTSIDE PROJECT LIMITS	

NCDOT GPS STATION "R5311A-10"
LOCALIZED PROJECT COORDINATES
 N = 949,660.6980
 E = 2,588,612.1710

NCDOT GPS STATION "R5311A-9"
LOCALIZED PROJECT COORDINATES
 N = 948,823.0410
 E = 2,589,173.1680

BEGIN CONSTRUCTION
-Y2- POT STA 35+00.00
LOCALIZED PROJECT COORDINATES
 N = 946,318.1884
 E = 2,590,719.9080

NCDOT GPS STATION "R5311A-4"
LOCALIZED PROJECT COORDINATES
 N = 945,890.7420
 E = 2,590,964.4000

NCDOT GPS STATION "R5311A-3"
LOCALIZED PROJECT COORDINATES
 N = 944,967.4450
 E = 2,591,619.5340

END TIP PROJECT R-5311A
-EL- POT STA 368+91.18
LOCALIZED PROJECT COORDINATES
 N = 945,464.7750
 E = 2,592,065.3207

NCDOT GPS STATION "R5311A-6"
LOCALIZED PROJECT COORDINATES
 N = 948,973.7350
 E = 2,593,501.6370

NCDOT GPS STATION "R5311A-5"
LOCALIZED PROJECT COORDINATES
 N = 948,723.2700
 E = 2,594,339.5430

BEGIN CONSTRUCTION
-Y1- POT STA 13+75.00
LOCALIZED PROJECT COORDINATES
 N = 941,829.3430
 E = 2,587,318.7859

BEGIN TIP PROJECT R-5311A
-EL- POT STA 310+00.00
LOCALIZED PROJECT COORDINATES
 N = 941,073.9005
 E = 2,588,149.8816

END CONSTRUCTION
-Y1- POT STA 36+85.00
LOCALIZED PROJECT COORDINATES
 N = 940,997.9559
 E = 2,589,473.8800

END CONSTRUCTION
-Y2- POT STA 65+40.00
LOCALIZED PROJECT COORDINATES
 N = 943,747.4112
 E = 2,592,342.4692

NCDOT GPS STATION "R5311A-8"
LOCALIZED PROJECT COORDINATES
 N = 940,884.1480
 E = 2,593,329.9760

NCDOT GPS STATION "R5311A-7"
LOCALIZED PROJECT COORDINATES
 N = 940,126.1580
 E = 2,592,997.2430

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "CENTROID1" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 951,000,000(ft) EASTING: 2,593,600.035(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.00005802

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CENTROID1" TO STATION 310+00.00 IS S 28°46'12.00" W 11,323.94 (FT)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES

VERTICAL DATUM USED IS NAVD 88

NOTES:

THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTP://WWW.NCDOT.GOV/DOH/PRECONSTRUCT/HIGHWAYLOCATION/PROJECT/](http://www.ncdot.gov/DOH/PRECONSTRUCT/HIGHWAYLOCATION/PROJECT/)

THE FILES TO BE FOUND ARE AS FOLLOWS:
 TIP R5311A_LS_CONTROL.TXT

SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.

PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.

NOTE: DRAWING NOT TO SCALE