

# SURVEY CONTROL SHEET W-5313

PROJECT REFERENCE NO.	SHEET NO.
W-5313	1C-12
Location and Surveys	

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	223+62.00	-40.00	648538.2662	1559157.2840
L	224+99.01	30.00	648514.8516	1559309.3640
L	224+99.01	67.54	648479.2132	1559321.1553
L	229+95.50	48.50	648653.7022	1559787.1635
L	229+96.00	55.50	648647.2598	1559789.9489
L	229+97.50	48.50	648654.3763	1559789.0979
L	229+98.00	55.50	648647.9367	1559791.8898
L	232+75.11	47.13	648767.2256	1560049.1475
L	234+08.49	48.50	648825.5626	1560169.1012
L	236+00.00	30.00	648927.6371	1560332.1936
L	236+00.00	48.97	648910.6636	1560340.6650
L	236+16.00	-37.18	648994.8915	1560316.5094
L	236+16.00	-56.00	649011.7307	1560308.1051
L	236+30.00	30.00	648941.0340	1560359.0362
L	236+30.00	52.23	648921.1437	1560368.9633
L	236+33.00	-56.00	649019.3223	1560323.3159
L	236+34.50	-62.00	649025.3607	1560321.9786
L	236+35.00	-56.00	649020.2154	1560325.1054
L	236+36.50	-62.00	649026.2538	1560323.7681
L	236+46.00	-36.10	649007.3221	1560343.8343
L	236+46.00	-56.00	649025.1277	1560334.9476
L	236+77.50	30.00	648962.2458	1560401.5369
L	240+04.50	101.00	649026.7586	1560722.7192
L	240+07.00	71.00	649055.6870	1560714.4105
L	260+39.00	-50.00	649570.2256	1562675.7263
L	260+73.00	-50.00	649572.0203	1562710.3596
L	262+00.00	-30.00	649554.5557	1562839.7443
L	275+00.00	30.00	649380.5781	1564131.4216
L	276+29.00	38.00	649360.2921	1564259.0675
L	276+29.00	50.00	649348.3470	1564257.9212
L	276+33.00	-30.00	649427.5990	1564269.5448
L	276+33.00	-50.00	649447.5076	1564271.4553
L	276+54.00	38.00	649357.9040	1564283.9532
L	276+54.00	50.00	649345.9589	1564282.8069
L	276+58.00	-37.00	649432.1789	1564295.0991
L	276+58.00	-50.00	649445.1195	1564296.3410
L	277+00.00	-30.00	649421.1989	1564336.2384
L	278+00.00	30.00	649351.9209	1564430.0497
L	284+00.00	30.00	649294.6067	1565027.3060
L	284+70.00	-30.00	649347.6457	1565102.7173
L	284+70.00	-57.00	649374.5222	1565105.2965
L	284+90.00	40.00	649276.0553	1565115.9392
L	284+90.00	50.00	649266.1010	1565114.9840

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	284+98.00	-42.00	649356.9161	1565131.7356
L	284+98.00	-57.00	649371.8475	1565133.1684
L	285+20.00	40.00	649273.1896	1565145.8020
L	285+20.00	50.00	649263.2353	1565144.8468
L	286+00.00	30.00	649275.5020	1565226.3914
L	286+00.00	-30.00	649335.2276	1565232.1229
L	289+31.07	30.00	649243.8769	1565555.9475
L	289+31.07	46.56	649227.3926	1565554.3656
L	289+45.50	-30.00	649302.2237	1565576.0472
L	289+45.50	-45.00	649317.1556	1565577.4758
L	289+60.00	-30.00	649300.8391	1565590.4766
L	289+60.00	-45.00	649315.7705	1565591.9095
L	289+62.58	-45.00	649315.5242	1565594.4761
L	289+64.61	-45.00	649315.3298	1565596.5020
L	289+65.33	-59.58	649329.7746	1565598.6078
L	289+67.29	-59.21	649329.2191	1565600.5235
L	289+78.76	-45.00	649313.9787	1565610.5810
L	289+85.00	30.00	649238.7253	1565609.6309
L	289+85.00	40.00	649228.7711	1565608.6756
L	290+10.00	30.00	649236.3372	1565604.5166
L	290+10.00	40.00	649226.3830	1565633.5613
L	292+03.93	58.56	649188.7215	1565823.2459
L	292+65.06	59.11	649180.2225	1565882.3301
L	293+26.84	30.00	649199.4057	1565946.8344
L	293+26.84	58.18	649171.6333	1565942.0502
L	293+57.44	30.00	649194.0916	1565976.5934
L	293+57.44	57.17	649167.3751	1565971.6537
L	296+85.47	43.66	649120.4733	1566297.1707
L	327+04.00	30.00	648922.4787	1569312.0917
L	327+04.00	57.00	648895.5125	1569310.7416
L	327+51.00	-48.00	648998.1515	1569362.7144
L	327+51.00	-30.00	648980.1700	1569361.8987
L	327+66.00	35.00	648914.5658	1569373.9904
L	327+66.00	40.00	648909.5706	1569373.7712
L	327+76.00	-48.00	648997.0549	1569387.5703
L	327+76.00	-40.00	648989.0623	1569387.2277
L	327+86.00	30.00	648918.7020	1569394.2511
L	327+86.00	40.00	648908.7107	1569393.8328
L	336+42.09	52.73	648883.5560	1570251.0517
L	336+42.09	29.46	648906.8340	1570251.2296
L	336+72.09	52.89	648883.1745	1570281.0497
L	336+72.09	29.31	648906.7553	1570281.2299
L	338+23.90	28.65	648905.1251	1570432.1348
L	338+23.90	52.53	648881.2629	1570431.2106
L	338+42.00	52.00	648881.0400	1570448.9187
L	338+43.50	59.00	648873.9793	1570450.0557

**NOTES:**

1. THE SITE CALIBRATION SHOWN IS BASED UPON A NETWORK TIED TO THE HARN (HIGH ACCURACY REFERENCE NETWORK) NAD 83NSRS 2007 ADJUSTMENT. THIS CALIBRATION WILL ALLOW THE END USER TO WORK WITHIN THE SAME COORDINATE SYSTEM WHEN USING RTK (REAL TIME KINEMATIC) GPS AND A LOCAL BASE STATION. IF ANOTHER SYSTEM SUCH AS VRS (VIRTUAL REFERENCE STATION) IS USED, ADDITIONAL FIELD TIES MAY BE NEEDED TO REDUCE POSSIBLE ERRORS, OR BIASES.
2. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:  
[HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION](https://connect.ncdot.gov/resources/location)  
 THE FILES TO BE FOUND ARE AS FOLLOWS:  
 W5313\_LS\_GPSCALIB.HTML  
 W5313\_LS\_WGS84.TXT  
 W5313\_LS\_LOCAL.TXT  
 W5313\_LS\_CONTROL.TXT  
  
 THE WGS84 AND LOCAL FILES ARE COMMA DELIMITED AND CAN BE USED TO REPRODUCE THE SITE CALIBRATION FOR THE END USER'S GPS EQUIPMENT. 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.

## DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "13802-12" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF  
 NORTHING: 641735.246(++) EASTING: 1535065.380(++)  
 ELEVATION: 708.81(++)  
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99985319  
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "13802-12" TO -L- STATION 10+00.00 IS  
 13802-12 10,166.40  
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
 VERTICAL DATUM USED IS NAVD 88

NOTE: DRAWING NOT TO SCALE