

SURVEY CONTROL SHEET R-2915A

Longitude	81°31'55.59073"W	Elevation	3078.5171sf	Easting	1254245.9770sf
Height	2976.0465sf	Horz error	0.015sf	Elevation	3078.5190sf
		Vert error	0.002sf	Utilized	Horz and Vert
		3D error	0.016sf	Quality	Survey quality
Point	R2915-15 WGS84	Northing	954880.7882sf	Point R2915-15 Local	
Latitude	36°20'50.57260"N	Easting	1254012.3126sf	Northing	954880.7810sf
Longitude	81°31'59.23136"W	Elevation	3097.5370sf	Easting	1254012.2870sf
Height	2995.1423sf	Horz error	0.027sf	Elevation	3097.5210sf
		Vert error	0.016sf	Utilized	Horz and Vert
		3D error	0.031sf	Quality	Survey quality
Point	R2915-16 WGS84	Northing	955689.2599sf	Point R2915-16 Local	
Latitude	36°20'58.40190"N	Easting	1253372.2604sf	Northing	955689.2700sf
Longitude	81°32'07.30385"W	Elevation	3139.7336sf	Easting	1253372.2370sf
Height	3037.3781sf	Horz error	0.025sf	Elevation	3139.6930sf
		Vert error	0.041sf	Utilized	Horz and Vert
		3D error	0.048sf	Quality	Survey quality
Point	R2915-17 WGS84	Northing	960732.3214sf	Point R2915-17 Local	
Latitude	36°21'50.14423"N	Easting	1260924.8880sf	Northing	960732.3040sf
Longitude	81°30'36.58112"W	Elevation	3355.9956sf	Easting	1260924.8760sf
Height	3253.5217sf	Horz error	0.021sf	Elevation	3356.0160sf
		Vert error	0.020sf	Utilized	Horz and Vert
		3D error	0.029sf	Quality	Survey quality
Point	R2915-18 WGS84	Northing	959689.5169sf	Point R2915-18 Local	
Latitude	36°21'39.95242"N	Easting	1261385.6028sf	Northing	959689.4970sf
Longitude	81°30'30.62882"W	Elevation	3396.5313sf	Easting	1261385.5910sf
Height	3294.0193sf	Horz error	0.023sf	Elevation	3396.5580sf
		Vert error	0.027sf	Utilized	Horz and Vert
		3D error	0.035sf	Quality	Survey quality
Point	R2915-19 WGS84	Northing	967060.7220sf	Point R2915-19 Local	
Latitude	36°22'54.39872"N	Easting	1267779.1405sf	Northing	967060.7040sf
Longitude	81°29'14.75578"W	Elevation	3005.2191sf	Easting	1267779.1370sf
Height	2902.6651sf	Horz error	0.018sf	Elevation	3005.2590sf
		Vert error	0.040sf	Utilized	Horz and Vert
		3D error	0.044sf	Quality	Survey quality
Point	R2915-20 WGS84	Northing	966821.8373sf	Point R2915-20 Local	
Latitude	36°22'52.19547"N	Easting	1268416.6439sf	Northing	966821.8150sf
Longitude	81°29'06.89021"W	Elevation	3001.8897sf	Easting	1268416.6390sf
Height	2899.3121sf	Horz error	0.023sf	Elevation	3001.9300sf
		Vert error	0.040sf	Utilized	Horz and Vert
		3D error	0.046sf	Quality	Survey quality
Point	R2915-21 WGS84	Northing	972084.6876sf	Point R2915-21 Local	
Latitude	36°23'44.52005"N	Easting	1269660.6108sf	Northing	972084.6700sf
Longitude	81°28'53.29316"W	Elevation	3132.4940sf	Easting	1269660.6140sf
Height	3029.9808sf	Horz error	0.018sf	Elevation	3132.5390sf
		Vert error	0.045sf	Utilized	Horz and Vert
		3D error	0.048sf	Quality	Survey quality
Point	R2915-22 WGS84	Northing	973156.5253sf	Point R2915-22 Local	
Latitude	36°23'55.25041"N	Easting	1270213.4941sf	Northing	973156.5140sf

Longitude	81°28'46.86125"W	Elevation	3163.2767sf	Easting	1270213.5010sf
Height	3060.7659sf	Horz error	0.013sf	Elevation	3163.3260sf
		Vert error	0.049sf	Utilized	Horz and Vert
		3D error	0.051sf	Quality	Survey quality
Point	R2915-23 WGS84	Northing	981712.8608sf	Point R2915-23 Local	
Latitude	36°25'21.32188"N	Easting	1276325.1593sf	Northing	981712.8790sf
Longitude	81°27'34.73217"W	Elevation	2903.7232sf	Easting	1276325.1910sf
Height	2801.1821sf	Horz error	0.037sf	Elevation	2903.6430sf
		Vert error	0.080sf	Utilized	Horz and Vert
		3D error	0.088sf	Quality	Survey quality
Point	R2915-24 WGS84	Northing	980994.0668sf	Point R2915-24 Local	
Latitude	36°25'14.17430"N	Easting	1276148.6155sf	Northing	980994.0780sf
Longitude	81°27'36.67335"W	Elevation	2878.9461sf	Easting	1276148.6390sf
Height	2776.3983sf	Horz error	0.026sf	Elevation	2878.8920sf
		Vert error	0.054sf	Utilized	Horz and Vert
		3D error	0.060sf	Quality	Survey quality

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R2915-15" WITH NAD 83/CORS STATE PLANE GRID COORDINATES OF NORTHING: 954880.7810(ft) EASTING: 1254012.2870(ft) ELEVATION: 3097.5210(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99991292 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R2915-15" TO -L- STATION 10+00.00 IS S 08°37'17" E 41208.6602 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

NOTES:

- THE SITE CALIBRATION SHOWN IS BASED UPON A NETWORK TIED TO THE HARN (HIGH ACCURACY REFERENCE NETWORK) NAD 83/95 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.
 - 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:
R2915A_LS_GPSALIB.HTML
R2915A_LS_WGS84.TXT
R2915A_LS_LOCAL.TXT
R2915A_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.
SEE GPS CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES.

NOTE: DRAWING NOT TO SCALE

6/2/2019