

# GPS Calibration Report

*Project : Us19*

<b>TIP Number</b>	R-2519A	<b>Date &amp; Time</b>	9:50:38 AM 7/10/03
<b>User name</b>	jpgordon	<b>Zone</b>	North Carolina 3200
<b>Coordinate System</b>	US State Plane 1983(at ground)	<b>Geoid Model</b>	GEOID99 (Conus)
<b>Horizontal Datum</b>	NAD 1983 (Conus)		
<b>Vertical Datum</b>			
<b>Coordinate Units</b>	Meters		
<b>Distance Units</b>	Meters		
<b>Height Units</b>	Meters		

## LOCAL SITE INFORMATION

Localized around

Latitude	35°54'40.40569"N
Longitude	82°21'10.08524"W
Site Scale Factor	1.0001780300

The North Carolina Department of Transportation uses a **Localized Coordinate System** which is very similar to North Carolina Zone 3200 from which it is derived.

**Please take care in utilizing these coordinates to eliminate confusion of the two systems.**

**This file is to aid in the use of Real Time Kinematic (RTK) GPS during construction layout.**

## Datum Transformation Parameters

Datum Transformation computation not requested

## Updated Default Projection (Transverse Mercator) Definition

Updated default projection not requested

## Horizontal Adjustment Parameters

<b>Northing coordinate of rotation center</b>	242970.986m
<b>Easting coordinate of rotation center</b>	307548.408m
<b>Rotation about the center point</b>	0°00'01"
<b>Translation north</b>	0.182m
<b>Translation east</b>	0.134m
<b>Scale factor</b>	0.99999376

## Vertical Adjustment Parameters

Northing coordinate of origin point	250378.278m
Easting coordinate of origin point	288404.211m
Vertical separation at origin	-0.164m
Slope north	-6.147ppm
Slope east	2.750ppm

## Geoid Model Definition

GEOID99 (Conus)

## Residual Differences Between GPS (WGS84) And Local Coordinates

### Summary

	Maximum error	Root Mean Square error	Point
Horizontal	0.051m	0.022	<a href="#">McELROY WGS84</a>
Vertical	0.058m	0.019	<a href="#">R2519-1 WGS84</a>
Three-dimensional	0.070m	0.030	<a href="#">R2519-1 WGS84</a>

### Point Residuals

WGS84 Coordinates		Calculated point FOR DISPLAY ONLY		Local Coordinates	
<b>Point</b>	<a href="#">1002 WGS84</a>	<b>Northing</b>	250378.278m	<b>Point</b>	<a href="#">1002 Local</a>
<b>Latitude</b>	35°57'18.23692"N	<b>Easting</b>	288404.211m	<b>Northing</b>	250378.282m
<b>Longitude</b>	82°33'40.58624"W	<b>Elevation</b>	1168.476m	<b>Easting</b>	288404.209m
<b>Height</b>	1138.290m	<b>Horz error</b>	0.005m	<b>Elevation</b>	1168.505m
		<b>Vert error</b>	0.029m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.029m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">MORRISON WGS84</a>	<b>Northing</b>	248185.080m	<b>Point</b>	<a href="#">MORRISON Local</a>
<b>Latitude</b>	35°57'01.20615"N	<b>Easting</b>	338836.069m	<b>Northing</b>	248185.061m
<b>Longitude</b>	82°00'06.61923"W	<b>Elevation</b>	816.593m	<b>Easting</b>	338836.110m
<b>Height</b>	785.629m	<b>Horz error</b>	0.045m	<b>Elevation</b>	816.631m
		<b>Vert error</b>	0.038m	<b>Utilized</b>	Horz and Vert

<b>3D error</b>	0.059m
-----------------	--------

<b>Quality</b>	Survey quality
----------------	----------------

<b>Point</b>	<a href="#">P138os_WGS84</a>
<b>Latitude</b>	35°49'07.57718"N
<b>Longitude</b>	82°30'18.43879"W
<b>Height</b>	609.483m

<b>Northing</b>	235083.000m
<b>Easting</b>	292933.378m
<b>Elevation</b>	639.625m
<b>Horz error</b>	0.044m
<b>Vert error</b>	0.024m
<b>3D error</b>	0.050m

<b>Point</b>	<a href="#">138O_Local</a>
<b>Northing</b>	235082.994m
<b>Easting</b>	292933.422m
<b>Elevation</b>	639.601m
<b>Utilized</b>	Horz and Vert
<b>Quality</b>	Survey quality

<b>Point</b>	<a href="#">McELROY_WGS84</a>
<b>Latitude</b>	35°49'08.34324"N
<b>Longitude</b>	82°32'10.84083"W
<b>Height</b>	623.054m

<b>Northing</b>	235206.669m
<b>Easting</b>	290114.142m
<b>Elevation</b>	653.216m
<b>Horz error</b>	<b>0.051m</b>
<b>Vert error</b>	<b>0.018m</b>
<b>3D error</b>	<b>0.054m</b>

<b>Point</b>	<a href="#">McELROY_Local</a>
<b>Northing</b>	235206.667m
<b>Easting</b>	290114.193m
<b>Elevation</b>	653.234m
<b>Utilized</b>	Horz and Vert
<b>Quality</b>	Survey quality

<b>Point</b>	<a href="#">A29_WGS84</a>
<b>Latitude</b>	35°49'12.60019"N
<b>Longitude</b>	82°32'09.91589"W
<b>Height</b>	624.831m

<b>Northing</b>	235336.974m
<b>Easting</b>	290142.022m
<b>Elevation</b>	654.993m
<b>Horz error</b>	0.021m
<b>Vert error</b>	0.003m
<b>3D error</b>	0.021m

<b>Point</b>	<a href="#">A29_Local</a>
<b>Northing</b>	235336.956m
<b>Easting</b>	290142.011m
<b>Elevation</b>	654.996m
<b>Utilized</b>	Horz and Vert
<b>Quality</b>	Survey quality

<b>Point</b>	<a href="#">WHIT_WGS84</a>
<b>Latitude</b>	35°49'30.74194"N
<b>Longitude</b>	82°32'04.47281"W
<b>Height</b>	646.937m

<b>Northing</b>	235890.954m
<b>Easting</b>	290298.490m
<b>Elevation</b>	677.098m
<b>Horz error</b>	0.019m
<b>Vert error</b>	0.009m
<b>3D error</b>	0.021m

<b>Point</b>	<a href="#">WHIT_Local</a>
<b>Northing</b>	235890.937m
<b>Easting</b>	290298.480m
<b>Elevation</b>	677.107m
<b>Utilized</b>	Horz and Vert
<b>Quality</b>	Survey quality

<b>Point</b>	<a href="#">R2518A-1_WGS84</a>
<b>Latitude</b>	35°50'20.53533"N
<b>Longitude</b>	82°31'25.07228"W
<b>Height</b>	669.985m

<b>Northing</b>	237389.661m
<b>Easting</b>	291341.410m
<b>Elevation</b>	700.142m
<b>Horz error</b>	0.031m
<b>Vert error</b>	0.013m
<b>3D error</b>	0.034m

<b>Point</b>	<a href="#">BOLT_Local</a>
<b>Northing</b>	237389.656m
<b>Easting</b>	291341.441m
<b>Elevation</b>	700.155m
<b>Utilized</b>	Horz and Vert
<b>Quality</b>	Survey quality

<b>Point</b>	<a href="#">CALIFORNIA_WGS84</a>
<b>Latitude</b>	35°50'21.68963"N
<b>Longitude</b>	82°31'19.73202"W
<b>Height</b>	651.305m

<b>Northing</b>	237420.463m
<b>Easting</b>	291476.622m
<b>Elevation</b>	681.461m
<b>Horz error</b>	0.018m
<b>Vert error</b>	0.010m

<b>Point</b>	<a href="#">CALIFORNIA_Local</a>
<b>Northing</b>	237420.447m
<b>Easting</b>	291476.613m
<b>Elevation</b>	681.471m
<b>Utilized</b>	Horz and Vert

		<b>3D error</b>	0.020m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">R2518A-2_WGS84</a>	<b>Northing</b>	237475.809m	<b>Point</b>	<a href="#">R2518A-2_Local</a>
<b>Latitude</b>	35°50'23.87123"N	<b>Easting</b>	291813.177m	<b>Northing</b>	237475.804m
<b>Longitude</b>	82°31'06.40928"W	<b>Elevation</b>	681.859m	<b>Easting</b>	291813.199m
<b>Height</b>	651.704m	<b>Horz error</b>	0.023m	<b>Elevation</b>	681.867m
		<b>Vert error</b>	0.008m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.024m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">CROOKED_WGS84</a>	<b>Northing</b>	239073.796m	<b>Point</b>	<a href="#">CROOKED_Local</a>
<b>Latitude</b>	35°51'18.87216"N	<b>Easting</b>	294600.777m	<b>Northing</b>	239073.799m
<b>Longitude</b>	82°29'17.64808"W	<b>Elevation</b>	682.436m	<b>Easting</b>	294600.792m
<b>Height</b>	652.295m	<b>Horz error</b>	0.015m	<b>Elevation</b>	682.427m
		<b>Vert error</b>	0.009m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.018m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">BUCKNER_WGS84</a>	<b>Northing</b>	240600.343m	<b>Point</b>	<a href="#">BUCKNER_Local</a>
<b>Latitude</b>	35°52'08.98706"N	<b>Easting</b>	295146.303m	<b>Northing</b>	240600.347m
<b>Longitude</b>	82°28'58.05598"W	<b>Elevation</b>	704.322m	<b>Easting</b>	295146.315m
<b>Height</b>	674.185m	<b>Horz error</b>	0.013m	<b>Elevation</b>	704.323m
		<b>Vert error</b>	0.001m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.013m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">WILJOR_WGS84</a>	<b>Northing</b>	241419.904m	<b>Point</b>	<a href="#">WILJOR_Local</a>
<b>Latitude</b>	35°52'35.84055"N	<b>Easting</b>	295394.039m	<b>Northing</b>	241419.908m
<b>Longitude</b>	82°28'49.33304"W	<b>Elevation</b>	710.821m	<b>Easting</b>	295394.042m
<b>Height</b>	680.686m	<b>Horz error</b>	0.005m	<b>Elevation</b>	710.827m
		<b>Vert error</b>	0.006m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.008m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">RAY_WGS84</a>	<b>Northing</b>	239402.005m	<b>Point</b>	<a href="#">RAY_Local</a>
<b>Latitude</b>	35°51'33.46645"N	<b>Easting</b>	298087.976m	<b>Northing</b>	239402.005m
<b>Longitude</b>	82°26'59.21916"W	<b>Elevation</b>	717.120m	<b>Easting</b>	298087.989m
<b>Height</b>	687.007m	<b>Horz error</b>	0.013m	<b>Elevation</b>	717.098m
		<b>Vert error</b>	0.022m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.026m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">CLYDE_WGS84</a>	<b>Northing</b>	245250.038m	<b>Point</b>	<a href="#">CLYDE_Local</a>
<b>Latitude</b>	35°54'41.56352"N	<b>Easting</b>	296754.060m	<b>Northing</b>	245250.044m
<b>Longitude</b>	82°28'00.48532"W	<b>Elevation</b>	869.810m	<b>Easting</b>	296754.070m
<b>Height</b>	839.678m	<b>Horz error</b>	0.012m	<b>Elevation</b>	869.833m
		<b>Vert error</b>	0.023m	<b>Utilized</b>	Horz and Vert

		<b>3D error</b>	0.026m	<b>Quality</b>	Survey quality
--	--	-----------------	--------	----------------	----------------

  

<b>Point</b>	<a href="#">DOANE_WGS84</a>	<b>Northing</b>	245627.891m	<b>Point</b>	<a href="#">DOANE_Local</a>
<b>Latitude</b>	35°54'54.30626"N	<b>Easting</b>	297188.804m	<b>Northing</b>	245627.896m
<b>Longitude</b>	82°27'43.68444"W	<b>Elevation</b>	856.001m	<b>Easting</b>	297188.809m
<b>Height</b>	825.867m	<b>Horz error</b>	0.008m	<b>Elevation</b>	856.029m
		<b>Vert error</b>	0.028m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.029m	<b>Quality</b>	Survey quality

  

<b>Point</b>	<a href="#">31-JS-5_WGS84</a>	<b>Northing</b>	245399.784m	<b>Point</b>	<a href="#">31-JS-5_Local</a>
<b>Latitude</b>	35°54'50.87911"N	<b>Easting</b>	300716.558m	<b>Northing</b>	245399.793m
<b>Longitude</b>	82°25'22.76679"W	<b>Elevation</b>	786.076m	<b>Easting</b>	300716.546m
<b>Height</b>	755.917m	<b>Horz error</b>	0.015m	<b>Elevation</b>	786.099m
		<b>Vert error</b>	0.023m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.027m	<b>Quality</b>	Survey quality

  

<b>Point</b>	<a href="#">HARDSCRABBLE_WGS</a>	<b>Northing</b>	245306.248m	<b>Point</b>	<a href="#">HARDSCRABBLE_Loc</a>
<b>Latitude</b>	35°54'48.93389"N	<b>Easting</b>	301690.259m	<b>Northing</b>	245306.258m
<b>Longitude</b>	82°24'43.83053"W	<b>Elevation</b>	777.820m	<b>Easting</b>	301690.250m
<b>Height</b>	747.653m	<b>Horz error</b>	0.014m	<b>Elevation</b>	777.842m
		<b>Vert error</b>	0.022m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.026m	<b>Quality</b>	Survey quality

  

<b>Point</b>	<a href="#">CANE_WGS84</a>	<b>Northing</b>	245563.151m	<b>Point</b>	<a href="#">CANE_Local</a>
<b>Latitude</b>	35°55'00.14153"N	<b>Easting</b>	304282.501m	<b>Northing</b>	245563.159m
<b>Longitude</b>	82°23'00.86249"W	<b>Elevation</b>	755.785m	<b>Easting</b>	304282.495m
<b>Height</b>	725.587m	<b>Horz error</b>	0.010m	<b>Elevation</b>	755.793m
		<b>Vert error</b>	0.008m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.013m	<b>Quality</b>	Survey quality

  

<b>Point</b>	<a href="#">R2519A-1_WGS84</a>	<b>Northing</b>	244860.726m	<b>Point</b>	<a href="#">R2519A-1_Local</a>
<b>Latitude</b>	35°54'40.39980"N	<b>Easting</b>	307037.912m	<b>Northing</b>	244860.731m
<b>Longitude</b>	82°21'10.09045"W	<b>Elevation</b>	780.787m	<b>Easting</b>	307037.904m
<b>Height</b>	750.582m	<b>Horz error</b>	0.009m	<b>Elevation</b>	780.782m
		<b>Vert error</b>	0.005m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.011m	<b>Quality</b>	Survey quality

  

<b>Point</b>	<a href="#">R2519A-2_WGS84</a>	<b>Northing</b>	244894.425m	<b>Point</b>	<a href="#">R2519A-2_Local</a>
<b>Latitude</b>	35°54'41.74954"N	<b>Easting</b>	307272.698m	<b>Northing</b>	244894.435m
<b>Longitude</b>	82°21'00.77825"W	<b>Elevation</b>	774.967m	<b>Easting</b>	307272.681m
<b>Height</b>	744.760m	<b>Horz error</b>	0.020m	<b>Elevation</b>	774.952m
		<b>Vert error</b>	0.015m	<b>Utilized</b>	Horz and Vert

		<b>3D error</b>	0.025m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">BALLPARK WGS84</a>	<b>Northing</b>	244314.688m	<b>Point</b>	<a href="#">BALL Local</a>
<b>Latitude</b>	35°54'23.14085"N	<b>Easting</b>	307444.525m	<b>Northing</b>	244314.694m
<b>Longitude</b>	82°20'53.15029"W	<b>Elevation</b>	800.648m	<b>Easting</b>	307444.514m
<b>Height</b>	770.452m	<b>Horz error</b>	0.012m	<b>Elevation</b>	800.641m
		<b>Vert error</b>	0.007m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.014m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">HERITAGE WGS84</a>	<b>Northing</b>	244911.491m	<b>Point</b>	<a href="#">HERITAGE Local</a>
<b>Latitude</b>	35°54'44.06027"N	<b>Easting</b>	308882.232m	<b>Northing</b>	244911.502m
<b>Longitude</b>	82°19'56.65147"W	<b>Elevation</b>	837.158m	<b>Easting</b>	308882.212m
<b>Height</b>	806.938m	<b>Horz error</b>	0.023m	<b>Elevation</b>	837.138m
		<b>Vert error</b>	0.020m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.030m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">R2519A-16 WGS84</a>	<b>Northing</b>	244939.338m	<b>Point</b>	<a href="#">R2519A-16 Local</a>
<b>Latitude</b>	35°54'45.48704"N	<b>Easting</b>	309363.708m	<b>Northing</b>	244939.348m
<b>Longitude</b>	82°19'37.49878"W	<b>Elevation</b>	824.066m	<b>Easting</b>	309363.689m
<b>Height</b>	793.841m	<b>Horz error</b>	0.021m	<b>Elevation</b>	824.042m
		<b>Vert error</b>	0.024m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.032m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">LHT-820os WGS84</a>	<b>Northing</b>	244021.155m	<b>Point</b>	<a href="#">820os Local</a>
<b>Latitude</b>	35°54'18.88995"N	<b>Easting</b>	312297.024m	<b>Northing</b>	244021.161m
<b>Longitude</b>	82°17'39.37039"W	<b>Elevation</b>	837.877m	<b>Easting</b>	312297.009m
<b>Height</b>	807.636m	<b>Horz error</b>	0.016m	<b>Elevation</b>	837.851m
		<b>Vert error</b>	0.026m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.031m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">R2519A-44 WGS84</a>	<b>Northing</b>	245089.920m	<b>Point</b>	<a href="#">R2519A-44 Local</a>
<b>Latitude</b>	35°54'53.02476"N	<b>Easting</b>	311816.058m	<b>Northing</b>	245089.927m
<b>Longitude</b>	82°17'59.95512"W	<b>Elevation</b>	857.448m	<b>Easting</b>	311816.041m
<b>Height</b>	827.195m	<b>Horz error</b>	0.018m	<b>Elevation</b>	857.435m
		<b>Vert error</b>	0.013m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.022m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">JORDAN WGS84</a>	<b>Northing</b>	245222.561m	<b>Point</b>	<a href="#">JORDAN Local</a>
<b>Latitude</b>	35°54'57.30402"N	<b>Easting</b>	311796.220m	<b>Northing</b>	245222.580m
<b>Longitude</b>	82°18'00.92167"W	<b>Elevation</b>	854.482m	<b>Easting</b>	311796.183m
<b>Height</b>	824.227m	<b>Horz error</b>	0.042m	<b>Elevation</b>	854.458m
		<b>Vert error</b>	0.024m	<b>Utilized</b>	Horz and Vert



<b>3D error</b>	0.048m
-----------------	--------

<b>Quality</b>	Survey quality
----------------	----------------

<b>Point</b>	<a href="#">LHT-810_WGS84</a>
<b>Latitude</b>	35°55'01.87607"N
<b>Longitude</b>	82°17'58.53327"W
<b>Height</b>	827.717m

<b>Northing</b>	245361.425m
<b>Easting</b>	311860.760m
<b>Elevation</b>	857.975m
<b>Horz error</b>	0.020m
<b>Vert error</b>	0.015m
<b>3D error</b>	0.025m

<b>Point</b>	<a href="#">LHT-810_Local</a>
<b>Northing</b>	245361.432m
<b>Easting</b>	311860.741m
<b>Elevation</b>	857.960m
<b>Utilized</b>	Horz and Vert
<b>Quality</b>	Survey quality

<b>Point</b>	<a href="#">R2519A-59_WGS84</a>
<b>Latitude</b>	35°54'57.65527"N
<b>Longitude</b>	82°16'53.76324"W
<b>Height</b>	771.098m

<b>Northing</b>	245177.559m
<b>Easting</b>	313479.638m
<b>Elevation</b>	801.378m
<b>Horz error</b>	0.018m
<b>Vert error</b>	0.020m
<b>3D error</b>	0.027m

<b>Point</b>	<a href="#">R2519A-59_Local</a>
<b>Northing</b>	245177.565m
<b>Easting</b>	313479.621m
<b>Elevation</b>	801.358m
<b>Utilized</b>	Horz and Vert
<b>Quality</b>	Survey quality

<b>Point</b>	<a href="#">R2519A-62_WGS84</a>
<b>Latitude</b>	35°55'01.06695"N
<b>Longitude</b>	82°16'42.80063"W
<b>Height</b>	768.420m

<b>Northing</b>	245273.584m
<b>Easting</b>	313757.846m
<b>Elevation</b>	798.707m
<b>Horz error</b>	0.018m
<b>Vert error</b>	0.025m
<b>3D error</b>	0.030m

<b>Point</b>	<a href="#">R2519A-62_Local</a>
<b>Northing</b>	245273.592m
<b>Easting</b>	313757.830m
<b>Elevation</b>	798.682m
<b>Utilized</b>	Horz and Vert
<b>Quality</b>	Survey quality

<b>Point</b>	<a href="#">R2519A-77_WGS84</a>
<b>Latitude</b>	35°54'50.61398"N
<b>Longitude</b>	82°15'45.86324"W
<b>Height</b>	756.966m

<b>Northing</b>	244904.511m
<b>Easting</b>	315174.158m
<b>Elevation</b>	787.276m
<b>Horz error</b>	0.016m
<b>Vert error</b>	0.022m
<b>3D error</b>	0.027m

<b>Point</b>	<a href="#">R2519A-77_Local</a>
<b>Northing</b>	244904.517m
<b>Easting</b>	315174.143m
<b>Elevation</b>	787.254m
<b>Utilized</b>	Horz and Vert
<b>Quality</b>	Survey quality

<b>Point</b>	<a href="#">R2519A-78_WGS84</a>
<b>Latitude</b>	35°54'47.40597"N
<b>Longitude</b>	82°15'33.47902"W
<b>Height</b>	759.246m

<b>Northing</b>	244795.477m
<b>Easting</b>	315481.283m
<b>Elevation</b>	789.561m
<b>Horz error</b>	0.016m
<b>Vert error</b>	0.014m
<b>3D error</b>	0.022m

<b>Point</b>	<a href="#">R2519A-78_Local</a>
<b>Northing</b>	244795.484m
<b>Easting</b>	315481.268m
<b>Elevation</b>	789.547m
<b>Utilized</b>	Horz and Vert
<b>Quality</b>	Survey quality

<b>Point</b>	<a href="#">WINDOM_WGS84</a>
<b>Latitude</b>	35°54'54.05602"N
<b>Longitude</b>	82°14'24.97990"W
<b>Height</b>	736.954m

<b>Northing</b>	244944.128m
<b>Easting</b>	317204.715m
<b>Elevation</b>	767.316m
<b>Horz error</b>	0.016m
<b>Vert error</b>	0.011m

<b>Point</b>	<a href="#">WINDOM_Local</a>
<b>Northing</b>	244944.136m
<b>Easting</b>	317204.701m
<b>Elevation</b>	767.305m
<b>Utilized</b>	Horz and Vert

		<b>3D error</b>	0.020m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">CRABTREE WGS84</a>	<b>Northing</b>	244447.099m	<b>Point</b>	<a href="#">CRABTREE Local</a>
<b>Latitude</b>	35°54'38.82413"N	<b>Easting</b>	318040.600m	<b>Northing</b>	244447.108m
<b>Longitude</b>	82°13'51.01720"W	<b>Elevation</b>	759.236m	<b>Easting</b>	318040.587m
<b>Height</b>	728.854m	<b>Horz error</b>	0.016m	<b>Elevation</b>	759.224m
		<b>Vert error</b>	0.012m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.020m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">R2519A-118 WGS84</a>	<b>Northing</b>	244134.802m	<b>Point</b>	<a href="#">R2519A-118 Local</a>
<b>Latitude</b>	35°54'30.02196"N	<b>Easting</b>	319297.196m	<b>Northing</b>	244134.800m
<b>Longitude</b>	82°13'00.52932"W	<b>Elevation</b>	755.499m	<b>Easting</b>	319297.192m
<b>Height</b>	725.077m	<b>Horz error</b>	0.004m	<b>Elevation</b>	755.489m
		<b>Vert error</b>	0.010m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.011m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">R2519A-119 WGS84</a>	<b>Northing</b>	244242.743m	<b>Point</b>	<a href="#">R2519A-119 Local</a>
<b>Latitude</b>	35°54'33.84966"N	<b>Easting</b>	319609.183m	<b>Northing</b>	244242.737m
<b>Longitude</b>	82°12'48.23409"W	<b>Elevation</b>	748.172m	<b>Easting</b>	319609.180m
<b>Height</b>	717.739m	<b>Horz error</b>	0.007m	<b>Elevation</b>	748.171m
		<b>Vert error</b>	0.001m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.007m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">MICA SCHOOL WGS84</a>	<b>Northing</b>	243863.339m	<b>Point</b>	<a href="#">MICA SCHOOL Local</a>
<b>Latitude</b>	35°54'21.33548"N	<b>Easting</b>	319407.125m	<b>Northing</b>	243863.330m
<b>Longitude</b>	82°12'55.79738"W	<b>Elevation</b>	750.985m	<b>Easting</b>	319407.124m
<b>Height</b>	720.561m	<b>Horz error</b>	0.009m	<b>Elevation</b>	750.982m
		<b>Vert error</b>	0.003m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.009m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">COXCOMB WGS84</a>	<b>Northing</b>	243288.591m	<b>Point</b>	<a href="#">COXCOMB Local</a>
<b>Latitude</b>	35°54'07.61367"N	<b>Easting</b>	324122.253m	<b>Northing</b>	243288.579m
<b>Longitude</b>	82°09'47.14351"W	<b>Elevation</b>	835.346m	<b>Easting</b>	324122.259m
<b>Height</b>	804.762m	<b>Horz error</b>	0.014m	<b>Elevation</b>	835.354m
		<b>Vert error</b>	0.008m	<b>Utilized</b>	Horz and Vert
		<b>3D error</b>	0.016m	<b>Quality</b>	Survey quality
<b>Point</b>	<a href="#">ARBUCKLE WGS84</a>	<b>Northing</b>	243249.325m	<b>Point</b>	<a href="#">ARBUCKLE Local</a>
<b>Latitude</b>	35°54'06.69143"N	<b>Easting</b>	324461.991m	<b>Northing</b>	243249.312m
<b>Longitude</b>	82°09'33.55389"W	<b>Elevation</b>	834.337m	<b>Easting</b>	324461.998m
<b>Height</b>	803.741m	<b>Horz error</b>	0.015m	<b>Elevation</b>	834.340m
		<b>Vert error</b>	0.003m	<b>Utilized</b>	Horz and Vert



	<b>3D error</b>	0.015m	<b>Quality</b>	Survey quality
--	-----------------	--------	----------------	----------------

<b>Point</b>	<a href="#">1-JS-3_WGS84</a>
<b>Latitude</b>	35°55'28.51772"N
<b>Longitude</b>	82°04'44.51009"W
<b>Height</b>	741.764m

<b>Northing</b>	245542.637m
<b>Easting</b>	331785.627m
<b>Elevation</b>	772.570m
<b>Horz error</b>	0.037m
<b>Vert error</b>	0.014m
<b>3D error</b>	0.040m

<b>Point</b>	<a href="#">1-JS-3_Local</a>
<b>Northing</b>	245542.613m
<b>Easting</b>	331785.655m
<b>Elevation</b>	772.584m
<b>Utilized</b>	Horz and Vert
<b>Quality</b>	Survey quality

<b>Point</b>	<a href="#">R2519-1_WGS84</a>
<b>Latitude</b>	35°53'14.14677"N
<b>Longitude</b>	82°03'45.84036"W
<b>Height</b>	758.812m

<b>Northing</b>	241357.144m
<b>Easting</b>	333128.111m
<b>Elevation</b>	789.778m
<b>Horz error</b>	<b>0.039m</b>
<b>Vert error</b>	<b>0.058m</b>
<b>3D error</b>	<b>0.070m</b>

<b>Point</b>	<a href="#">R-2519-1_Local</a>
<b>Northing</b>	241357.118m
<b>Easting</b>	333128.140m
<b>Elevation</b>	789.836m
<b>Utilized</b>	Horz and Vert
<b>Quality</b>	Survey quality