

GPS Calibration Report

Project : u2501a_ctrlsheets

TIP Number	U-2510-A	Date & Time	10:33:27 AM 3/15/2005
User name	jjeffreys	Zone	North Carolina 3200
Coordinate System	US State Plane 1983	Geoid Model	Geoid99 NC Sub Grid
Horizontal Datum	NAD 1983 (Conus)		
Vertical Datum	NAVD-88		
Coordinate Units	US survey feet		
Distance Units	US survey feet		
Height Units	US survey feet		

LOCAL SITE INFORMATION

Localized around

Latitude	N/A
Longitude	N/A
Site Scale Factor	N/A
Height	N/A

Datum Transformation Parameters

Warning: Datum parameter calculation did not converge

Method	Three Parameter
Translation along x axis	15.219sft
Translation along y axis	-80.835sft
Translation along z axis	56.063sft

Updated Default Projection (Transverse Mercator) Definition

Updated default projection not requested

Horizontal Adjustment Parameters

Northing coordinate of rotation center	470302.418sft
Easting coordinate of rotation center	1470955.226sft
Rotation about the center point	0°00'00"
Translation north	0.000sft
Translation east	0.000sft

Scale factor 1.00015173

Vertical Adjustment Parameters

Northing coordinate of origin point 481614.168sft
 Easting coordinate of origin point 1468995.422sft
 Vertical separation at origin -0.210sft
 Slope north -7.309ppm
 Slope east -5.500ppm

Geoid Model Definition

Geoid99 NC Sub Grid

Residual Differences Between GPS (WGS84) And Local Coordinates

Summary

	Maximum error	Root Mean Square error	Point
Horizontal	0.004sft	0.001	51 EGB - WGS84
Vertical	0.025sft	0.005	I4041-BL6 - WGS8
Three-dimensional	0.025sft	0.005	I4041-BL6 - WGS8

Point Residuals

WGS84 Coordinates		Calculated point FOR DISPLAY ONLY		Local Coordinates	
Point	I4041-BL2 - WGS8	Northing	481614.168sft	Point	I4041-BL2 - Loca
Latitude	35°03'37.01248"N	Easting	1468995.422sft	Northing	481614.165sft
Longitude	80°46'28.49323"W	Elevation	669.338sft	Easting	1468995.422sft
Height	569.982sft	Horz error	0.003sft	Elevation	669.325sft
		Vert error	0.013sft	Utilized	Horz and Vert
		3D error	0.014sft	Quality	Survey quality
Point	I4041-BL6 - WGS8	Northing	481517.506sft	Point	I4041-BL6 - Loca
Latitude	35°03'36.47509"N	Easting	1471367.764sft	Northing	481517.508sft

Longitude	80°45'59.94132"W
Height	590.038sft

Elevation	689.387sft
Horz error	0.002sft
Vert error	0.025sft
3D error	0.025sft

Easting	1471367.763sft
Elevation	689.412sft
Utilized	Horz and Vert
Quality	Survey quality

Point	U2510A-3 - WGS84
Latitude	35°01'45.24671"N
Longitude	80°46'01.21370"W
Height	586.652sft

Northing	470275.064sft
Easting	1471061.829sft
Elevation	686.151sft
Horz error	0.004sft
Vert error	0.014sft
3D error	0.015sft

Point	U2510A-3 - Local
Northing	470275.067sft
Easting	1471061.831sft
Elevation	686.137sft
Utilized	Horz and Vert
Quality	Survey quality

Point	U2510A-4 - WGS84
Latitude	35°01'47.23081"N
Longitude	80°45'46.63107"W
Height	607.302sft

Northing	470454.079sft
Easting	1472278.000sft
Elevation	706.794sft
Horz error	0.003sft
Vert error	0.004sft
3D error	0.006sft

Point	U2510A-4 - Local
Northing	470454.082sft
Easting	1472278.000sft
Elevation	706.798sft
Utilized	Horz and Vert
Quality	Survey quality

Point	51 EGB - WGS84
Latitude	35°01'16.53031"N
Longitude	80°45'46.29262"W
Height	621.183sft

Northing	467350.000sft
Easting	1472251.023sft
Elevation	720.733sft
Horz error	0.004sft
Vert error	0.022sft
3D error	0.022sft

Point	51 EGB - Local
Northing	467349.997sft
Easting	1472251.025sft
Elevation	720.711sft
Utilized	Horz and Vert
Quality	Survey quality

Point	U2510A-1 - WGS84
Latitude	35°00'16.93853"N
Longitude	80°46'03.88626"W
Height	591.413sft

Northing	461351.775sft
Easting	1470680.605sft
Elevation	691.074sft
Horz error	0.004sft
Vert error	0.007sft
3D error	0.008sft

Point	U2510A-1 - Local
Northing	461351.774sft
Easting	1470680.602sft
Elevation	691.081sft
Utilized	Horz and Vert
Quality	Survey quality

Point	U2510A-2 - WGS84
Latitude	34°59'59.05310"N
Longitude	80°46'11.05665"W
Height	571.964sft

Northing	459554.334sft
Easting	1470051.941sft
Elevation	671.659sft
Horz error	0.001sft
Vert error	0.013sft
3D error	0.013sft

Point	U2510A-2 - Local
Northing	459554.334sft
Easting	1470051.942sft
Elevation	671.672sft
Utilized	Horz and Vert
Quality	Survey quality