

Iowa County Iowa

Countywide G.P.S. Survey Control Network

2008

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INTRODUCTION

In 2008, the Iowa County Assessor contracted with the team of DC Inc. and GB Consulting to densify an existing GPS control network in Iowa County, Iowa for the purpose of establishing a high density county-wide survey control system and for use in a county-wide GIS system.

Forty one (41) new control stations were added within Iowa County along with, twenty three (23) existing Iowa County GPS control points, one (1) existing Tama County GPS control point with NSRS2007 control, six (6) existing Benton County GPS control points, twelve (12) existing Johnson County GPS control points, two (2) existing Washington County GPS control points one of which is also a NSRS2007 control station and three (3) existing Keokuk County GPS control points were recovered and tied into the GPS network. Three (3) additional existing NSRS 2007 positions with first and second order vertical control were utilized in the survey. Additionally six (6) existing first and second order vertical control stations were included in the survey. All of the existing County control points have good third order control and were used in the adjustment. A total of ninety (97) points were measured and included in the network. One new control station no. 243 (4243) was set and used for target control, but as the control survey was being completed this point location was to be destroyed by construction so an additional new station no. 264 (4264) was set south from the old station and included in the survey as a replacement.

PROJECT REQUIREMENTS

The purpose of this survey was to establish new state plane control based upon the National Spatial Reference System 2007 (NSRS 2007) coordinate system throughout the project area, utilizing the new horizontal and vertical control network with GPS survey equipment and techniques. Vertically the network was referenced to the North American Vertical Datum of 1988 (NAVD88). All new point locations for control were selected with the needs of future multiple uses and GPS survey requirements in mind. In some instances, it was necessary to adjust locations because of physical obstructions or existing land features. In these instances, the network was constructed with the coverage of the county held as primary and the GPS survey needs satisfied secondly. Because both of these philosophies support good geometry the network structure was not compromised.

MONUMENTATION

To perpetuate the GPS control measurements, 41 new permanent monuments were set in Iowa County for this survey by DC Inc. Note that one of these stations was removed because of construction with only 40 remaining. BERNTSEN driven aluminum rod monuments were selected for the permanent monuments. Each BERNTSEN station monument consists of one three-foot smooth rod section and one three-foot top security fluted rod section with a stamped cap fastened to the top, all constructed of aluminum material. There is a permanent magnet mounted on the underside of the monument cap for future recovery with a magnetic locator. These monuments were driven to approximately 6" below the existing ground surface. For easy access and protection, a 24" long 6" diameter PVC pipe was placed over each rod monument along with a pre-cast aluminum access cover and backfilled with sand to facilitate drainage and to minimize frost movement. A steel fence post with an orange sleeve was placed as witness markers at each new permanent monument position.

The Iowa County Engineer's office handled the One Call coordination for marking the various underground utility locations for each new permanent monument site.

RECONNAISSANCE

The most important criterion for GPS observations at any given location is a clear view to the sky. In terms of network design, it is desirable that the horizontal control be located near the perimeter and also throughout the project site if possible. The existing NSRS 2007 horizontal stations were recovered in and/or near Iowa County. All positions in and near the county were chosen to be included in the network.

Vertical control was selected to provide as much coverage as possible, both at the periphery and in the interior of the project area.

FIELD SURVEY

Six Trimble dual frequency Geodetic GPS receivers with Everest multi-path mitigation and high performance low elevation satellite tracking were used in this survey. GPS observations were made during daylight hours from Monday July 14, 2008, through Wednesday July 16, 2008.

Rapid static GPS techniques were utilized to minimize the time and cost of the survey. The satellite "window", where at least six satellites were observable, was open for much of the day with only a short period of unacceptable coverage because of the number of satellites or bad geometry. Each measurement period during which all receivers observe satellites simultaneously lasted from a minimum of 15 minutes to a maximum of approximately 120 minutes, depending on the distance being measured and the geometry of the satellite constellation.

DATA ADJUSTMENT

A total of 422 vectors were observed and processed. Based on statistical indicators from the Trimble Geomatics Office processing software, there were no vectors flagged as outliers. After the removal of trivial vectors the final network is comprised of 97 stations and 185 baselines. All data adjustment was performed using the Trimble Geomatics Office least squares adjustment software. An initial free adjustment was performed in NAD 1983 (NSRS 2007) to check the overall quality of the GPS data and the nature of the control. The initial unconstrained (free) adjustment yielded baseline precisions which ranged from 1:116,000 for a ½ mile baseline to 1:3,006,865 with the 3 mile baselines falling in the 1:600,000 to 1:800,000 range. Once the horizontal and vertical control was verified, subsequent adjustments were performed to arrive at the optimal solutions for each datum.

NAD83 (NSRS2007)

The initial free adjustment was performed holding NSRS2007 point Hartwick (MH0487) fixed horizontally with the vertical adjustment disabled. Coordinate values on the other NSRS2007 control stations were then checked against the published values. The network fit the published

NSRS2007 values within a few hundredths of a foot. Because all of the horizontal data fit so well, the NSRS2007-referenced stations were added to the network and a new adjustment performed. After each adjustment a comparison of adjusted coordinates vs. published values was made. By holding all of the remaining existing NSRS2007 stations fixed the precision of the adjustment degraded very little as compared to the unconstrained adjustment. New horizontal data is being published for all adjoining County control points.

Once we were satisfied with the horizontal adjustment, we locked the horizontal positions and concentrated on the vertical adjustment. The Geoid 03 Conus was utilized to provide a model of the height of the Geoid. Adjustments were then performed locking on to the orthometric vertical control stations one at a time beginning with Hartwick (MH0487). Vertical control was added station by station with the elevations on the benchmarks being then checked against the published values. All vertical control fit extremely well.

A final adjustment of both horizontal and vertical was then performed. All of the horizontal control points were held fixed in x and y and all vertical control were held fixed in z. This fully constrained adjustment solved for scale and rotation. In the final adjusted network, 100% of the adjusted vectors have an estimated error of x, y and z baseline precision between 1:82,248 for a ½ mile baseline and 1:300,000 to 1:4,229,896, with the 3 mile baselines again falling in the 1:400,000 range or better. All of the processed data and error factors were computed using a 95% confidence level factor.

On line user positioning (OPUS) service was utilized to calculate solutions at 5 sites within the network. The final adjusted NSRS 2007 positions fit within a few hundredths of a foot in northing and easting and within less than 0.10' in elevation to these solutions. This result indicates a strong network adjustment and an excellent fit to CORS stations.

CONCLUSION

The results are well in excess of Order C class 1 (first-order precision) on short baselines (less than 3 miles) and between Order C class 1 and Order B on longer baselines (3 to 4 miles in length). The control point locations are within ± 0.04 ft horizontal position and within ± 0.08 ft. vertically for benchmark use.

Network Adjustment Report

Project : IowaCoFinalAdj

User name	Gary Brown	Date & Time	12:52:19 AM 7/30/2008
Coordinate System	US State Plane 1983	Zone	Iowa South 1402
Project Datum	NAD 1983/NSRS2007 (Conus)		
Vertical Datum	NAVD88	Geoid Model	GEOID03 (Conus)
Coordinate Units	US survey feet		
Distance Units	US survey feet		
Height Units	US survey feet		

Adjustment Style Settings - 95% Confidence Limits

Residual Tolerances

To End Iterations : 0.000033sft
Final Convergence Cutoff : 0.016404sft

Covariance Display

Horizontal

Propagated Linear Error [E] : U.S.

Constant Term [C] : 0.000000000sft

Scale on Linear Error [S] : 1.96

Three-Dimensional

Propagated Linear Error [E] : U.S.

Constant Term [C] : 0.000000000sft

Scale on Linear Error [S] : 1.96

Elevation Errors were used in the calculations.

Adjustment Controls

Compute Correlations for Geoid : True

Horizontal and Vertical adjustment performed

Set-up Errors

GPS

Error in Height of Antenna : 0.015sft

Centering Error : 0.015sft

Statistical Summary

Successful Adjustment in 1 iteration(s)

Network Reference Factor : 0.97

Chi Square Test ($\alpha=95\%$) : PASS

Degrees of Freedom : 324.00

GPS Observation Statistics

Reference Factor : 0.97

Redundancy Number (r) : 280.16

Geoid Model Statistics

Reference Factor : 1.00

Redundancy Number (r) : 43.84

Weighting Strategies

GPS Observations

User-defined Scalar Applied to All Observations

Scalar : 0.91

Geoid Observations

User-defined Scalar Applied to All Observations

Scalar : 0.24

Adjusted Coordinates

Adjustment performed in **NAD 1983/NSRS2007 (Conus)**

Number of Points : 97

Number of Constrained Points : 54

Elevation Only : 49

Horizontal and Elevation Only : 5

Adjusted Grid Coordinates

Errors are reported using 1.96σ .

Point Name	Northing	N error	Easting	E error	Elevation	e error	Fix
4401	675776.273sft	0.023sft	1968726.901sft	0.023sft	844.285sft	0.050sft	
4224	665148.610sft	0.024sft	1967915.250sft	0.024sft	847.245sft	0.052sft	
4221	659604.885sft	0.042sft	2076627.188sft	0.041sft	742.590sft	0.000sft	e
4231	646814.418sft	0.032sft	2079786.884sft	0.032sft	806.476sft	0.066sft	
35	618950.741sft	0.037sft	2095446.411sft	0.037sft	824.650sft	0.000sft	e
4242	616444.745sft	0.033sft	2077617.366sft	0.032sft	855.272sft	0.071sft	
4205	650014.164sft	0.035sft	2063723.362sft	0.034sft	746.760sft	0.000sft	e
4229	671350.232sft	0.034sft	2059254.778sft	0.033sft	909.017sft	0.069sft	
4308	627627.126sft	0.031sft	2047528.469sft	0.031sft	887.276sft	0.071sft	
4243	616558.505sft	0.032sft	2048163.923sft	0.032sft	842.346sft	0.055sft	
4061	681914.492sft	0.000sft	1951946.070sft	0.000sft	930.430sft	0.000sft	N E e
4087	679485.913sft	0.027sft	1973336.910sft	0.027sft	775.750sft	0.000sft	e
4225	665300.747sft	0.024sft	1983697.819sft	0.024sft	908.832sft	0.068sft	
4048	682050.657sft	0.039sft	2045536.006sft	0.038sft	884.200sft	0.000sft	e
4228	666167.562sft	0.035sft	2047608.795sft	0.035sft	852.979sft	0.071sft	
4241	634505.652sft	0.036sft	2080480.669sft	0.035sft	832.437sft	0.072sft	
4211	617307.759sft	0.030sft	2032129.590sft	0.030sft	855.280sft	0.000sft	e
4226	668066.150sft	0.032sft	1999748.826sft	0.031sft	752.070sft	0.069sft	
4220	660473.737sft	0.035sft	2031915.138sft	0.034sft	744.240sft	0.000sft	e
14	672099.606sft	0.038sft	2095512.947sft	0.037sft	861.380sft	0.000sft	e

4311	662809.593sft	0.042sft	2090746.695sft	0.041sft	735.890sft	0.000sft	e
4240	634862.342sft	0.040sft	2063800.218sft	0.040sft	838.402sft	0.073sft	
4029	681667.733sft	0.039sft	2015469.821sft	0.038sft	930.610sft	0.000sft	e
4227	661664.828sft	0.034sft	2015492.973sft	0.033sft	750.131sft	0.072sft	
4068	682353.464sft	0.038sft	2078606.971sft	0.038sft	845.240sft	0.000sft	e
4230	671660.007sft	0.037sft	2079372.977sft	0.036sft	790.105sft	0.062sft	
4212	618629.888sft	0.030sft	2062522.917sft	0.029sft	850.200sft	0.000sft	e
4010	681263.061sft	0.028sft	1983937.942sft	0.028sft	761.740sft	0.000sft	e
4106	669299.327sft	0.000sft	1970586.469sft	0.000sft	935.620sft	0.000sft	N E e
4203	681899.603sft	0.040sft	2034137.733sft	0.039sft	911.160sft	0.000sft	e
1	682652.232sft	0.033sft	2094886.387sft	0.032sft	780.830sft	0.000sft	e
4312	691549.719sft	0.000sft	2145057.688sft	0.000sft	810.720sft	0.000sft	N E e
4232	650716.454sft	0.033sft	2047837.530sft	0.032sft	826.740sft	0.070sft	
25	640082.039sft	0.039sft	2095465.519sft	0.038sft	872.670sft	0.000sft	e
4001	696915.048sft	0.033sft	1968724.113sft	0.033sft	786.530sft	0.000sft	e
4202	680626.738sft	0.035sft	1998355.331sft	0.035sft	843.560sft	0.000sft	e
4204	682073.792sft	0.036sft	2063276.316sft	0.036sft	871.200sft	0.000sft	e
24	650423.698sft	0.031sft	2095563.994sft	0.030sft	757.570sft	0.000sft	e
34	629390.222sft	0.040sft	2095377.587sft	0.039sft	787.260sft	0.000sft	e
4307	658360.504sft	0.043sft	2030262.924sft	0.042sft	737.490sft	0.000sft	e
4208	649630.993sft	0.033sft	1967924.876sft	0.033sft	902.470sft	0.000sft	e
3217	552493.505sft	0.031sft	1969782.866sft	0.031sft	904.740sft	0.000sft	e
3492	534179.982sft	0.000sft	1874202.738sft	0.000sft	864.190sft	0.000sft	N E e
4248	604907.627sft	0.037sft	2000390.627sft	0.037sft	908.646sft	0.070sft	
4247	601810.604sft	0.033sft	1985261.326sft	0.033sft	916.720sft	0.075sft	
4259	569001.526sft	0.033sft	2017620.567sft	0.033sft	795.843sft	0.076sft	
3438	552024.083sft	0.034sft	2016254.157sft	0.033sft	841.930sft	0.000sft	e
3219	553571.710sft	0.035sft	2034168.420sft	0.035sft	833.440sft	0.000sft	e
4262	570588.726sft	0.027sft	2065689.742sft	0.027sft	841.803sft	0.069sft	
2101	554256.106sft	0.026sft	2064731.488sft	0.026sft	713.300sft	0.000sft	e
64	565634.087sft	0.035sft	2098041.214sft	0.034sft	734.090sft	0.000sft	e
65	555020.996sft	0.034sft	2097931.439sft	0.034sft	727.290sft	0.000sft	e

45	598070.729sft	0.041sft	2095925.757sft	0.041sft	786.380sft	0.000sft	e
54	587328.387sft	0.045sft	2096259.945sft	0.045sft	715.040sft	0.000sft	e
4235	636115.215sft	0.031sft	1967898.115sft	0.031sft	795.956sft	0.072sft	
4260	569268.152sft	0.033sft	2033062.423sft	0.032sft	823.864sft	0.070sft	
4263	567934.133sft	0.027sft	2082160.376sft	0.027sft	800.876sft	0.069sft	
4253	603629.226sft	0.033sft	2080140.146sft	0.033sft	828.244sft	0.072sft	
4237	634585.130sft	0.042sft	2000005.839sft	0.041sft	848.411sft	0.075sft	
4210	617620.124sft	0.036sft	2000085.846sft	0.036sft	883.160sft	0.000sft	e
4245	618438.225sft	0.033sft	1984257.412sft	0.033sft	914.813sft	0.072sft	
4257	569574.045sft	0.031sft	1985513.180sft	0.030sft	863.435sft	0.066sft	
4304	580351.354sft	0.034sft	1984381.604sft	0.034sft	868.670sft	0.000sft	e
4246	601689.456sft	0.035sft	1969266.503sft	0.034sft	886.776sft	0.073sft	
4216	585789.045sft	0.030sft	1968797.934sft	0.029sft	840.160sft	0.000sft	e
4258	571615.267sft	0.032sft	2001105.778sft	0.031sft	865.778sft	0.073sft	
4238	633936.305sft	0.041sft	2018996.352sft	0.040sft	896.521sft	0.081sft	
4244	619703.496sft	0.031sft	2016265.443sft	0.031sft	870.039sft	0.072sft	
4236	634031.144sft	0.035sft	1984171.073sft	0.034sft	796.891sft	0.078sft	
3423	551549.555sft	0.034sft	1985604.398sft	0.034sft	888.710sft	0.000sft	e
4239	634015.039sft	0.040sft	2030402.141sft	0.040sft	886.186sft	0.076sft	
4261	569687.674sft	0.032sft	2049791.066sft	0.031sft	790.345sft	0.065sft	
4254	583800.186sft	0.035sft	2078205.626sft	0.035sft	823.762sft	0.072sft	
4252	603050.367sft	0.031sft	2064217.010sft	0.031sft	858.860sft	0.070sft	
4233	649860.230sft	0.032sft	2015888.626sft	0.032sft	764.537sft	0.071sft	
4234	649391.695sft	0.031sft	1983935.000sft	0.030sft	892.927sft	0.071sft	
3218	553057.057sft	0.031sft	2001471.229sft	0.030sft	828.150sft	0.000sft	e
3456	553799.510sft	0.034sft	2047656.288sft	0.034sft	809.110sft	0.000sft	e
55	576182.787sft	0.039sft	2098113.842sft	0.039sft	742.280sft	0.000sft	e
4206	650416.908sft	0.034sft	2031906.845sft	0.033sft	809.700sft	0.000sft	e
4207	649489.670sft	0.033sft	1999801.087sft	0.032sft	885.360sft	0.000sft	e
4256	568513.286sft	0.029sft	1969524.447sft	0.028sft	848.940sft	0.072sft	
4310	554756.774sft	0.037sft	2031793.049sft	0.036sft	774.580sft	0.000sft	e
2102	554673.297sft	0.000sft	2082177.637sft	0.000sft	748.680sft	0.000sft	N E e

44	608624.184sft	0.040sft	2095818.665sft	0.040sft	843.050sft	0.000sft	e
4209	617716.511sft	0.035sft	1968216.735sft	0.035sft	910.660sft	0.000sft	e
4215	591169.831sft	0.042sft	2000597.556sft	0.041sft	838.540sft	0.000sft	e
4309	610020.320sft	0.035sft	2047608.443sft	0.034sft	785.380sft	0.000sft	e
4223	607968.395sft	0.033sft	2044291.773sft	0.033sft	863.060sft	0.000sft	e
4264	614832.531sft	0.033sft	2048016.403sft	0.033sft	836.763sft	0.052sft	
4222	580192.813sft	0.035sft	2049767.160sft	0.035sft	859.970sft	0.000sft	e
4255	587955.010sft	0.037sft	2016795.636sft	0.036sft	733.902sft	0.075sft	
4214	587212.657sft	0.037sft	2032708.250sft	0.036sft	801.120sft	0.000sft	e
4213	585539.954sft	0.035sft	2066314.212sft	0.034sft	817.340sft	0.000sft	e
4250	601913.245sft	0.036sft	2032330.811sft	0.035sft	873.036sft	0.067sft	
4249	601949.607sft	0.036sft	2016274.373sft	0.036sft	904.475sft	0.077sft	
4251	602610.542sft	0.032sft	2047409.159sft	0.032sft	830.002sft	0.055sft	

Adjusted Geodetic Coordinates

Errors are reported using 1.96σ.

Point Name	Latitude	N error	Longitude	E error	Height	h error	Fix
4401	41°50'54.69032"N	0.023sft	92°17'42.01948"W	0.023sft	739.901sft	0.249sft	
4224	41°49'09.81957"N	0.024sft	92°17'54.68202"W	0.024sft	742.667sft	0.242sft	
4221	41°47'57.76564"N	0.042sft	91°54'00.53880"W	0.041sft	637.040sft	0.241sft	e
4231	41°45'50.85050"N	0.032sft	91°53'21.95614"W	0.032sft	700.683sft	0.237sft	
35	41°41'12.70719"N	0.037sft	91°50'02.40036"W	0.037sft	718.403sft	0.245sft	e
4242	41°40'51.26057"N	0.033sft	91°53'57.95282"W	0.032sft	749.166sft	0.233sft	
4205	41°46'25.34134"N	0.035sft	91°56'53.13546"W	0.034sft	641.194sft	0.231sft	e
4229	41°49'56.87535"N	0.034sft	91°57'47.12514"W	0.033sft	803.856sft	0.239sft	
4308	41°42'47.00291"N	0.031sft	92°00'31.89998"W	0.031sft	781.570sft	0.219sft	
4243	41°40'57.55817"N	0.032sft	92°00'26.02712"W	0.032sft	736.484sft	0.219sft	
4061	41°51'57.56242"N	0.000sft	92°21'22.65290"W	0.000sft	826.105sft	0.262sft	Lat Long e
4087	41°51'30.69901"N	0.027sft	92°16'40.42652"W	0.027sft	671.440sft	0.250sft	e
4225	41°49'09.11691"N	0.024sft	92°14'26.23888"W	0.024sft	804.218sft	0.235sft	
4048	41°51'44.92524"N	0.039sft	92°00'45.89833"W	0.038sft	779.450sft	0.243sft	e
4228	41°49'07.68715"N	0.035sft	92°00'22.11421"W	0.035sft	747.850sft	0.233sft	
4241	41°43'49.14116"N	0.036sft	91°53'15.81325"W	0.035sft	726.488sft	0.236sft	

4211	41°41'07.62456"N	0.030sft	92°03'57.15241"W	0.030sft	749.590sft	0.214sft	e
4226	41°49'34.08415"N	0.032sft	92°10'53.72922"W	0.031sft	647.425sft	0.233sft	
4220	41°48'14.05577"N	0.035sft	92°03'50.58706"W	0.034sft	639.162sft	0.227sft	e
14	41°49'57.67458"N	0.038sft	91°49'48.07566"W	0.037sft	755.737sft	0.256sft	e
4311	41°48'26.81295"N	0.042sft	91°50'53.35399"W	0.041sft	630.139sft	0.250sft	e
4240	41°43'55.66099"N	0.040sft	91°56'55.68718"W	0.040sft	732.645sft	0.228sft	
4029	41°51'46.03274"N	0.039sft	92°07'23.26740"W	0.038sft	826.181sft	0.241sft	e
4227	41°48'28.44332"N	0.034sft	92°07'27.14246"W	0.033sft	645.215sft	0.227sft	
4068	41°51'42.10241"N	0.038sft	91°53'28.85072"W	0.038sft	740.024sft	0.253sft	e
4230	41°49'56.33928"N	0.037sft	91°53'21.34619"W	0.036sft	684.688sft	0.247sft	
4212	41°41'15.54209"N	0.030sft	91°57'16.33451"W	0.029sft	744.266sft	0.225sft	e
4010	41°51'46.75882"N	0.028sft	92°14'20.01170"W	0.028sft	657.461sft	0.247sft	e
4106	41°49'50.45507"N	0.000sft	92°17'18.64395"W	0.000sft	831.119sft	0.243sft	Lat Long e
4203	41°51'45.33133"N	0.040sft	92°03'16.54420"W	0.039sft	806.511sft	0.241sft	e
1	41°51'42.02407"N	0.033sft	91°49'53.67708"W	0.032sft	675.393sft	0.260sft	e
4312	41°52'59.87118"N	0.000sft	91°38'48.29314"W	0.000sft	704.612sft	0.299sft	Lat Long e
4232	41°46'35.02586"N	0.033sft	92°00'22.59786"W	0.032sft	721.335sft	0.225sft	
25	41°44'41.43201"N	0.039sft	91°49'56.80962"W	0.038sft	766.541sft	0.246sft	e
4001	41°54'23.49923"N	0.033sft	92°17'38.18382"W	0.033sft	682.508sft	0.266sft	e
4202	41°51'38.36508"N	0.035sft	92°11'09.62645"W	0.035sft	739.214sft	0.243sft	e
4204	41°51'42.09175"N	0.036sft	91°56'51.48374"W	0.036sft	766.164sft	0.247sft	e
24	41°46'23.56354"N	0.031sft	91°49'52.89390"W	0.030sft	651.609sft	0.247sft	e
34	41°42'55.83870"N	0.040sft	91°50'00.67138"W	0.039sft	681.100sft	0.245sft	e
4307	41°47'53.45038"N	0.043sft	92°04'12.85787"W	0.042sft	632.347sft	0.227sft	e
4208	41°46'36.53083"N	0.033sft	92°17'57.38379"W	0.033sft	797.588sft	0.233sft	e
3217	41°30'36.67715"N	0.031sft	92°17'50.58881"W	0.031sft	799.173sft	0.237sft	e
3492	41°27'46.90692"N	0.000sft	92°38'49.22190"W	0.000sft	758.742sft	0.302sft	Lat Long e
4248	41°39'10.08993"N	0.037sft	92°10'57.88576"W	0.037sft	803.071sft	0.214sft	
4247	41°38'41.71139"N	0.033sft	92°14'17.75468"W	0.033sft	811.217sft	0.216sft	
4259	41°33'12.74801"N	0.033sft	92°07'18.43847"W	0.033sft	689.845sft	0.225sft	
3438	41°30'25.24424"N	0.034sft	92°07'39.93128"W	0.033sft	735.871sft	0.235sft	e
3219	41°30'37.67421"N	0.035sft	92°03'44.16901"W	0.035sft	727.141sft	0.239sft	e
4262	41°33'20.42306"N	0.027sft	91°56'45.91328"W	0.027sft	735.298sft	0.242sft	
2101	41°30'39.25047"N	0.026sft	91°57'02.34195"W	0.026sft	606.677sft	0.251sft	e
64	41°32'25.55330"N	0.035sft	91°49'41.71216"W	0.034sft	627.223sft	0.266sft	e
65	41°30'40.73538"N	0.034sft	91°49'45.83582"W	0.034sft	620.338sft	0.272sft	e

45	41°37'46.36632"N	0.041sft	91°50'01.35527"W	0.041sft	679.916sft	0.250sft	e
54	41°36'00.19013"N	0.045sft	91°49'59.66583"W	0.045sft	608.436sft	0.255sft	e
4235	41°44'23.01992"N	0.031sft	92°18'00.19769"W	0.031sft	690.838sft	0.227sft	
4260	41°33'12.91521"N	0.033sft	92°03'55.30188"W	0.032sft	717.656sft	0.228sft	
4263	41°32'51.23697"N	0.027sft	91°53'09.95344"W	0.027sft	694.197sft	0.253sft	
4253	41°38'44.20917"N	0.033sft	91°53'27.83546"W	0.033sft	721.971sft	0.237sft	
4237	41°44'03.31504"N	0.042sft	92°10'57.03280"W	0.041sft	743.134sft	0.219sft	
4210	41°41'15.71616"N	0.036sft	92°10'59.36507"W	0.036sft	777.688sft	0.214sft	e
4245	41°41'26.11307"N	0.033sft	92°14'27.80656"W	0.033sft	809.421sft	0.217sft	
4257	41°33'23.21607"N	0.031sft	92°14'20.59276"W	0.030sft	757.825sft	0.224sft	
4304	41°35'09.84599"N	0.034sft	92°14'33.42633"W	0.034sft	763.095sft	0.221sft	e
4246	41°38'42.75360"N	0.035sft	92°17'48.43079"W	0.034sft	781.359sft	0.221sft	
4216	41°36'05.73977"N	0.030sft	92°17'57.49280"W	0.029sft	734.743sft	0.223sft	e
4258	41°33'41.09738"N	0.032sft	92°10'55.11127"W	0.031sft	760.014sft	0.222sft	
4238	41°43'53.98918"N	0.041sft	92°06'46.72653"W	0.040sft	791.111sft	0.217sft	
4244	41°41'33.82217"N	0.031sft	92°07'25.70959"W	0.031sft	764.484sft	0.213sft	
4236	41°44'00.15980"N	0.035sft	92°14'25.96869"W	0.034sft	691.675sft	0.221sft	
3423	41°30'25.13873"N	0.034sft	92°14'22.82814"W	0.034sft	783.092sft	0.235sft	e
4239	41°43'52.94311"N	0.040sft	92°04'16.29959"W	0.040sft	780.694sft	0.218sft	
4261	41°33'14.27554"N	0.032sft	92°00'15.20791"W	0.031sft	683.948sft	0.234sft	
4254	41°35'28.68797"N	0.035sft	91°53'58.11728"W	0.035sft	717.283sft	0.242sft	
4252	41°38'41.34818"N	0.031sft	91°56'57.67024"W	0.031sft	752.710sft	0.228sft	
4233	41°46'31.77554"N	0.032sft	92°07'24.38544"W	0.032sft	659.385sft	0.221sft	
4234	41°46'31.93032"N	0.031sft	92°14'26.14878"W	0.030sft	787.984sft	0.227sft	
3218	41°30'37.70777"N	0.031sft	92°10'54.00434"W	0.030sft	722.356sft	0.233sft	e
3456	41°30'37.68429"N	0.034sft	92°00'46.85500"W	0.034sft	702.631sft	0.244sft	e
55	41°34'09.74133"N	0.039sft	91°49'38.08974"W	0.039sft	635.552sft	0.260sft	e
4206	41°46'34.71669"N	0.034sft	92°03'52.88755"W	0.033sft	704.400sft	0.222sft	e
4207	41°46'30.57633"N	0.033sft	92°10'56.75546"W	0.032sft	780.336sft	0.223sft	e
4256	41°33'14.97365"N	0.029sft	92°17'51.07435"W	0.028sft	743.450sft	0.228sft	
4310	41°30'49.76792"N	0.037sft	92°04'15.13149"W	0.036sft	668.301sft	0.237sft	e
2102	41°30'40.23845"N	0.000sft	91°53'12.96054"W	0.000sft	641.884sft	0.261sft	Lat Long e
44	41°39'30.63276"N	0.040sft	91°50'00.10264"W	0.040sft	736.694sft	0.247sft	e
4209	41°41'21.22363"N	0.035sft	92°17'59.34380"W	0.035sft	805.305sft	0.222sft	e
4215	41°36'54.34837"N	0.042sft	92°10'57.90064"W	0.041sft	732.869sft	0.217sft	e
4309	41°39'53.06685"N	0.035sft	92°00'34.82300"W	0.034sft	679.431sft	0.220sft	e

4223	41°39'33.35654"N	0.033sft	92°01'18.97451"W	0.033sft	757.120sft	0.219sft	e
4264	41°40'40.53373"N	0.033sft	92°00'28.36119"W	0.033sft	730.878sft	0.219sft	
4222	41°34'58.05455"N	0.035sft	92°00'13.14543"W	0.035sft	753.652sft	0.230sft	e
4255	41°36'20.11253"N	0.037sft	92°07'25.34309"W	0.036sft	628.036sft	0.217sft	
4214	41°36'10.23920"N	0.037sft	92°03'56.06761"W	0.036sft	695.093sft	0.221sft	e
4213	41°35'48.00623"N	0.035sft	91°56'34.18027"W	0.034sft	710.984sft	0.235sft	e
4250	41°38'35.51975"N	0.036sft	92°03'57.84536"W	0.035sft	767.162sft	0.217sft	
4249	41°38'38.44038"N	0.036sft	92°07'29.29152"W	0.036sft	798.749sft	0.214sft	
4251	41°38'39.90493"N	0.032sft	92°00'39.11953"W	0.032sft	723.975sft	0.220sft	

Adjusted Observations

Adjustment performed in **NAD 1983/NSRS2007 (Conus)**

GPS Observations

GPS Transformation Group: <GPS Default>

Deflection in Longitude : -0°00'00.0319" (1.96σ) : 0°00'00.3036"

Deflection in Latitude : -0°00'00.0628" (1.96σ) : 0°00'00.3466"

Azimuth Rotation : -0°00'00.0074" (1.96σ) : 0°00'00.0363"

Network Scale : 0.99999985 (1.96σ) : 0.00000018

Number of Observations : 185

Number of Outliers : 0

Observation Adjustment (Critical Tau = 3.91). Any outliers are in **red**.

Obs. ID	From Pt.	To Pt.		Observation	A-posteriori Error (1.96σ)	Residual	Stand. Residual
B128	4204	4230	Az.	123°55'23.7558"	0°00'00.3192"	0°00'00.0356"	0.21
			<input type="checkbox"/> Ht.	-81.470sft	0.041sft	-0.112sft	-3.59
			Dist.	19171.347sft	0.030sft	0.017sft	1.05
B192	4246	4216	Az.	182°28'49.8860"	0°00'00.4093"	0°00'00.2222"	1.29
			<input type="checkbox"/> Ht.	-46.611sft	0.033sft	-0.043sft	-3.18
			Dist.	15907.700sft	0.032sft	-0.002sft	-0.12
B8	35	4242	Az.	263°05'48.1114"	0°00'00.2826"	0°00'00.0460"	0.22
			<input type="checkbox"/> Ht.	30.761sft	0.027sft	0.084sft	3.13
			Dist.	18004.589sft	0.025sft	-0.015sft	-0.86
B110	4204	4229	Az.	201°34'46.5768"	0°00'00.5374"	-0°00'00.0915"	-0.34
			<input type="checkbox"/> Ht.	37.695sft	0.040sft	0.088sft	3.12
			Dist.	11452.700sft	0.030sft	0.027sft	1.76
B378	4260	4214	Az.	359°48'51.4485"	0°00'00.3598"	-0°00'00.0494"	-0.30
			<input type="checkbox"/> Ht.	-22.569sft	0.034sft	-0.056sft	-3.08
			Dist.	17948.535sft	0.032sft	-0.025sft	-1.68
B150	3217	3492	Az.	259°56'46.3192"	0°00'00.0612"	0°00'00.0019"	0.06
			<input type="checkbox"/> Ht.	-40.441sft	0.032sft	-0.055sft	-2.94
			Dist.	97322.585sft	0.029sft	-0.016sft	-1.09

B290	4226	4207	Az.	180°42'26.1020"	0°00'00.3284"	0°00'00.0016"	0.01
			Ht.	132.917sft	0.032sft	0.055sft	2.91
			Dist.	18576.493sft	0.030sft	0.016sft	1.05
B48	4242	4212	Az.	279°17'29.9323"	0°00'00.3255"	-0°00'00.1737"	-0.74
			Ht.	-4.903sft	0.026sft	0.061sft	2.88
			Dist.	15252.037sft	0.024sft	-0.029sft	-1.70
B387	4262	4213	Az.	3°24'54.8842"	0°00'00.4281"	-0°00'00.0673"	-0.36
			Ht.	-24.318sft	0.033sft	-0.038sft	-2.81
			Dist.	14964.713sft	0.031sft	0.006sft	0.46
B309	4256	3217	Az.	179°52'04.4299"	0°00'00.3726"	-0°00'00.1973"	-1.04
			Ht.	55.727sft	0.031sft	-0.045sft	-2.81
			Dist.	16022.422sft	0.029sft	-0.001sft	-0.08
B101	24	4312	Az.	51°22'26.5284"	0°00'00.1043"	0°00'00.0389"	0.79
			Ht.	52.998sft	0.043sft	0.029sft	1.59
			Dist.	64349.858sft	0.033sft	-0.042sft	-2.62
B166	4260	4259	Az.	269°57'21.3468"	0°00'00.3769"	-0°00'00.1109"	-0.54
			Ht.	-27.813sft	0.030sft	0.040sft	2.61
			Dist.	15444.660sft	0.028sft	0.011sft	0.74
B361	4309	4223	Az.	239°14'16.3325"	0°00'01.1584"	0°00'01.2509"	1.25
			Ht.	77.690sft	0.021sft	-0.054sft	-2.57
			Dist.	3900.164sft	0.022sft	-0.009sft	-0.48
B230	4254	4263	Az.	167°03'28.7034"	0°00'00.3926"	-0°00'00.1513"	-0.89
			Ht.	-23.080sft	0.033sft	-0.034sft	-2.49
			Dist.	16352.008sft	0.031sft	0.012sft	0.90
B253	4247	4245	Az.	357°22'33.5923"	0°00'00.3793"	0°00'00.0929"	0.54
			Ht.	-1.801sft	0.032sft	0.036sft	2.48
			Dist.	16658.204sft	0.031sft	0.001sft	0.10
B429	4244	4249	Az.	180°52'39.6526"	0°00'00.3790"	-0°00'00.2540"	-1.64
			Ht.	34.270sft	0.036sft	0.040sft	2.41
			Dist.	17754.215sft	0.033sft	0.001sft	0.06
B47	4230	4221	Az.	193°53'32.5064"	0°00'00.5607"	0°00'00.1823"	0.93
			Ht.	-47.644sft	0.035sft	-0.030sft	-2.37
			Dist.	12363.797sft	0.034sft	-0.007sft	-0.58
B25	4228	4229	Az.	66°59'38.0733"	0°00'00.4524"	0°00'00.2585"	0.97

			□Ht.	56.006sft	0.035sft	0.066sft	2.34
			Dist.	12747.015sft	0.028sft	0.005sft	0.31
B151	4248	4247	Az.	259°17'56.4275"	0°00'00.4370"	0°00'00.0538"	0.32
			□Ht.	8.145sft	0.033sft	0.031sft	2.30
			Dist.	15443.358sft	0.033sft	0.001sft	0.05
B283	3218	3423	Az.	265°26'28.1147"	0°00'00.3879"	0°00'00.2792"	1.53
			□Ht.	60.735sft	0.031sft	0.036sft	2.27
			Dist.	15938.874sft	0.030sft	0.003sft	0.24
B298	4262	2102	Az.	135°00'40.6693"	0°00'00.2491"	-0°00'00.0017"	-0.01
			□Ht.	-93.406sft	0.033sft	0.040sft	2.26
			Dist.	22916.980sft	0.027sft	0.016sft	1.03
B30	4243	4211	Az.	273°39'31.8585"	0°00'00.2901"	0°00'00.2281"	1.02
			□Ht.	13.103sft	0.023sft	-0.040sft	-2.25
			Dist.	16052.085sft	0.022sft	0.002sft	0.10
B417	4212	4308	Az.	301°59'00.6957"	0°00'00.2381"	-0°00'00.2469"	-1.11
			□Ht.	37.299sft	0.021sft	0.044sft	2.11
			Dist.	17486.911sft	0.020sft	0.005sft	0.26
B375	4309	4223	Az.	239°14'16.3325"	0°00'01.1584"	-0°00'00.0285"	-0.03
			□Ht.	77.690sft	0.021sft	0.044sft	2.06
			Dist.	3900.164sft	0.022sft	0.014sft	0.75
B343	4233	4207	Az.	269°35'14.7943"	0°00'00.3806"	0°00'00.2206"	1.19
			□Ht.	120.948sft	0.031sft	-0.031sft	-2.06
			Dist.	16091.826sft	0.029sft	0.012sft	0.80
B70	4232	4308	Az.	181°45'02.9090"	0°00'00.2530"	-0°00'00.1892"	-1.39
			□Ht.	60.242sft	0.030sft	-0.033sft	-2.06
			Dist.	23091.545sft	0.029sft	-0.010sft	-0.64
B87	25	4241	Az.	250°41'11.8200"	0°00'00.3749"	0°00'00.0590"	0.31
			□Ht.	-40.053sft	0.030sft	-0.031sft	-2.05
			Dist.	15988.925sft	0.029sft	-0.010sft	-0.67
B332	4216	4256	Az.	178°22'58.0857"	0°00'00.3395"	0°00'00.0189"	0.10
			□Ht.	8.713sft	0.031sft	-0.034sft	-2.03
			Dist.	17291.545sft	0.029sft	-0.008sft	-0.51
B384	4214	4255	Az.	273°36'57.6895"	0°00'00.4160"	0°00'00.0023"	0.01
			□Ht.	-67.059sft	0.033sft	-0.026sft	-1.99
			Dist.	15930.347sft	0.032sft	-0.002sft	-0.16

B102	24	4231	Az.	258°12'49.3445"	0°00'00.3824"	0°00'00.1956"	1.04
			Ht.	49.073sft	0.033sft	-0.029sft	-1.75
			Dist.	16184.726sft	0.030sft	-0.029sft	-1.95
B183	4263	2101	Az.	232°56'19.4303"	0°00'00.2742"	-0°00'00.1434"	-1.05
			Ht.	-87.519sft	0.033sft	-0.035sft	-1.94
			Dist.	22156.015sft	0.030sft	0.017sft	1.18
B310	4215	4248	Az.	0°00'16.9488"	0°00'00.5123"	-0°00'00.1219"	-0.71
			Ht.	70.198sft	0.034sft	0.024sft	1.94
			Dist.	13739.669sft	0.034sft	-0.005sft	-0.45
B218	4211	4244	Az.	279°31'57.0814"	0°00'00.3796"	0°00'00.0493"	0.27
			Ht.	14.891sft	0.031sft	-0.028sft	-1.94
			Dist.	16044.269sft	0.029sft	0.006sft	0.42
B294	4256	3492	Az.	250°59'04.6699"	0°00'00.0534"	0°00'00.0040"	0.12
			Ht.	15.286sft	0.029sft	0.031sft	1.93
			Dist.	101320.102sft	0.026sft	0.006sft	0.36
B104	4231	4229	Az.	321°08'16.1910"	0°00'00.1758"	0°00'00.1398"	1.39
			Ht.	103.162sft	0.030sft	-0.031sft	-1.90
			Dist.	31993.243sft	0.027sft	0.017sft	1.09
B404	4252	4213	Az.	174°11'30.0356"	0°00'00.3665"	0°00'00.0452"	0.27
			Ht.	-41.720sft	0.034sft	0.031sft	1.89
			Dist.	17635.991sft	0.031sft	0.014sft	0.97
B331	4246	4209	Az.	357°02'42.2209"	0°00'00.4126"	0°00'00.0158"	0.10
			Ht.	23.941sft	0.033sft	0.025sft	1.89
			Dist.	16061.693sft	0.032sft	-0.001sft	-0.05
B370	4308	4264	Az.	178°47'53.6644"	0°00'00.3774"	-0°00'00.3127"	-1.12
			Ht.	-50.687sft	0.025sft	-0.035sft	-1.88
			Dist.	12804.077sft	0.024sft	-0.006sft	-0.36
B142	4232	4228	Az.	0°08'08.8150"	0°00'00.3628"	0°00'00.0909"	0.43
			Ht.	26.511sft	0.030sft	0.029sft	1.88
			Dist.	15452.758sft	0.027sft	-0.028sft	-1.79
B111	4311	24	Az.	159°50'06.8669"	0°00'00.5462"	-0°00'00.1421"	-0.77
			Ht.	21.474sft	0.035sft	-0.030sft	-1.86
			Dist.	13289.705sft	0.035sft	0.003sft	0.27
B279	4244	4233	Az.	0°11'26.1792"	0°00'00.1809"	-0°00'00.2004"	-1.85

			□Ht.	-105.109sft	0.028sft	-0.023sft	-1.39
			Dist.	30159.333sft	0.027sft	0.011sft	0.68
B401	4255	4249	Az.	358°46'24.3514"	0°00'00.4820"	-0°00'00.1893"	-1.04
			□Ht.	170.709sft	0.034sft	-0.023sft	-1.85
			Dist.	14004.640sft	0.033sft	0.010sft	0.82
B231	4253	4254	Az.	186°37'55.0887"	0°00'00.3270"	-0°00'00.0898"	-0.65
			□Ht.	-4.683sft	0.033sft	-0.024sft	-1.82
			Dist.	19923.679sft	0.032sft	0.008sft	0.62
B365	4264	4309	Az.	185°49'42.8810"	0°00'01.0714"	-0°00'00.4815"	-0.67
			□Ht.	-51.446sft	0.026sft	-0.036sft	-1.80
			Dist.	4829.559sft	0.025sft	-0.012sft	-0.68
B23	4225	4226	Az.	81°03'13.9676"	0°00'00.3656"	0°00'00.2873"	1.51
			□Ht.	-156.791sft	0.031sft	0.026sft	1.77
			Dist.	16287.369sft	0.029sft	0.007sft	0.45
B388	4211	4250	Az.	180°11'44.8523"	0°00'00.3931"	-0°00'00.0881"	-0.45
			□Ht.	17.577sft	0.031sft	0.027sft	1.72
			Dist.	15396.118sft	0.030sft	-0.009sft	-0.59
B419	4251	4222	Az.	174°58'34.7415"	0°00'00.2859"	-0°00'00.1004"	-0.80
			□Ht.	29.685sft	0.033sft	0.025sft	1.71
			Dist.	22541.977sft	0.031sft	0.010sft	0.72
B224	3423	4257	Az.	0°32'24.7736"	0°00'00.3368"	-0°00'00.0604"	-0.37
			□Ht.	-25.273sft	0.031sft	0.027sft	1.68
			Dist.	18025.348sft	0.030sft	0.018sft	1.27
B225	4258	4257	Az.	263°24'36.5629"	0°00'00.3211"	-0°00'00.3247"	-1.45
			□Ht.	-2.191sft	0.026sft	-0.032sft	-1.67
			Dist.	15726.141sft	0.024sft	-0.022sft	-1.33
B405	4250	4214	Az.	179°28'25.5884"	0°00'00.4624"	-0°00'00.0783"	-0.46
			□Ht.	-72.065sft	0.033sft	0.006sft	0.45
			Dist.	14705.791sft	0.033sft	-0.020sft	-1.64
B99	4048	4204	Az.	90°54'16.7409"	0°00'00.3805"	0°00'00.2552"	1.63
			□Ht.	-13.283sft	0.036sft	0.008sft	0.51
			Dist.	17740.057sft	0.032sft	0.005sft	0.39
B176	4208	4235	Az.	180°54'15.7138"	0°00'00.4451"	-0°00'00.0172"	-0.08
			□Ht.	-106.747sft	0.029sft	-0.024sft	-1.63
			Dist.	13515.861sft	0.029sft	0.003sft	0.20

B40	4212	4308	Az.	301°59'00.6957"	0°00'00.2381"	0°00'00.2312"	1.08
			Ht.	37.299sft	0.021sft	-0.030sft	-1.63
			Dist.	17486.911sft	0.020sft	-0.007sft	-0.38
B219	4244	4210	Az.	263°34'09.6477"	0°00'00.4051"	-0°00'00.0995"	-0.59
			Ht.	13.202sft	0.033sft	-0.023sft	-1.61
			Dist.	16313.425sft	0.032sft	0.000sft	-0.02
B247	4242	4212	Az.	279°17'29.9323"	0°00'00.3255"	0°00'00.1573"	0.68
			Ht.	-4.903sft	0.026sft	-0.028sft	-1.60
			Dist.	15252.037sft	0.024sft	0.018sft	1.03
B65	4068	1	Az.	90°00'28.6553"	0°00'00.4176"	-0°00'00.0696"	-0.40
			Ht.	-64.628sft	0.041sft	-0.040sft	-1.59
			Dist.	16281.913sft	0.032sft	0.003sft	0.21
B157	35	4242	Az.	263°05'48.1114"	0°00'00.2826"	-0°00'00.0509"	-0.26
			Ht.	30.761sft	0.027sft	-0.027sft	-1.59
			Dist.	18004.589sft	0.025sft	0.011sft	0.68
B341	4232	4206	Az.	269°54'24.9276"	0°00'00.3691"	0°00'00.1480"	0.77
			Ht.	-16.937sft	0.029sft	0.024sft	1.58
			Dist.	15933.518sft	0.028sft	-0.010sft	-0.67
B61	4106	4061	Az.	304°53'13.3689"	0°00'00.0363"	-0°00'00.0883"	-0.46
			Ht.	-5.021sft	0.031sft	0.005sft	0.36
			Dist.	22507.651sft	0.004sft	-0.032sft	-1.51
B9	4205	4229	Az.	349°11'36.0969"	0°00'00.2526"	0°00'00.0348"	0.23
			Ht.	162.656sft	0.029sft	-0.025sft	-1.49
			Dist.	21798.910sft	0.027sft	0.020sft	1.29
B193	4216	3492	Az.	242°10'32.8544"	0°00'00.0543"	-0°00'00.0251"	-0.81
			Ht.	23.999sft	0.032sft	0.027sft	1.47
			Dist.	107761.535sft	0.028sft	0.013sft	0.83
B196	4259	4258	Az.	279°54'04.9842"	0°00'00.3832"	-0°00'00.2587"	-1.46
			Ht.	70.165sft	0.033sft	0.022sft	1.45
			Dist.	16720.881sft	0.031sft	-0.011sft	-0.75
B334	4258	4215	Az.	359°22'45.8521"	0°00'00.3618"	-0°00'00.0889"	-0.73
			Ht.	-27.150sft	0.035sft	0.021sft	1.46
			Dist.	19561.728sft	0.035sft	-0.005sft	-0.44
B226	4258	4257	Az.	263°24'36.5629"	0°00'00.3211"	-0°00'00.2024"	-0.92

			□Ht.	-2.191sft	0.026sft	0.025sft	1.45
			Dist.	15726.141sft	0.024sft	0.008sft	0.48
B396	4308	4211	Az.	237°09'17.5524"	0°00'00.2293"	0°00'00.0748"	0.35
			□Ht.	-31.979sft	0.022sft	-0.024sft	-1.08
			Dist.	18537.104sft	0.021sft	-0.027sft	-1.43
B232	4252	4253	Az.	88°56'21.3668"	0°00'00.3772"	0°00'00.1158"	0.61
			□Ht.	-30.736sft	0.030sft	-0.021sft	-1.42
			Dist.	15933.996sft	0.029sft	0.014sft	0.95
B209	3423	3217	Az.	274°14'40.7227"	0°00'00.4056"	0°00'00.0377"	0.21
			□Ht.	16.078sft	0.032sft	0.022sft	1.41
			Dist.	15850.254sft	0.031sft	0.000sft	0.01
B28	4242	4241	Az.	10°03'45.8039"	0°00'00.3339"	-0°00'00.1271"	-0.73
			□Ht.	-22.683sft	0.037sft	0.034sft	1.34
			Dist.	18286.699sft	0.030sft	-0.005sft	-0.28
B302	4307	4206	Az.	169°14'58.1761"	0°00'00.8067"	0°00'00.1297"	0.39
			□Ht.	72.056sft	0.028sft	-0.022sft	-1.33
			Dist.	8111.909sft	0.032sft	-0.001sft	-0.11
B284	4258	3218	Az.	179°44'24.1821"	0°00'00.3108"	0°00'00.0254"	0.15
			□Ht.	-37.652sft	0.029sft	0.002sft	0.12
			Dist.	18562.446sft	0.028sft	-0.020sft	-1.33
B66	1	4312	Az.	81°02'30.4135"	0°00'00.1363"	-0°00'00.0341"	-0.66
			□Ht.	29.224sft	0.038sft	-0.016sft	-1.33
			Dist.	50953.267sft	0.033sft	0.008sft	0.66
B428	4251	4250	Az.	268°19'59.8767"	0°00'00.4081"	0°00'00.1638"	0.84
			□Ht.	43.185sft	0.031sft	-0.019sft	-1.32
			Dist.	15094.790sft	0.030sft	0.001sft	0.05
B234	4227	4233	Az.	178°59'11.6813"	0°00'00.5020"	-0°00'00.3333"	-1.30
			□Ht.	14.174sft	0.030sft	0.007sft	0.50
			Dist.	11811.206sft	0.029sft	0.009sft	0.60
B319	4209	4235	Az.	359°47'54.3741"	0°00'00.3525"	-0°00'00.0294"	-0.20
			□Ht.	-114.472sft	0.033sft	0.011sft	0.83
			Dist.	18401.671sft	0.032sft	-0.017sft	-1.27
B69	4232	4229	Az.	29°56'26.6337"	0°00'00.2245"	-0°00'00.1832"	-1.27
			□Ht.	82.517sft	0.030sft	-0.022sft	-1.19
			Dist.	23581.812sft	0.026sft	-0.002sft	-0.12

B79	4232	4205	Az.	93°30'54.0521"	0°00'00.3589"	0°00'00.0291"	0.14
			Ht.	-80.139sft	0.030sft	-0.006sft	-0.33
			Dist.	15901.369sft	0.028sft	-0.020sft	-1.26
B21	4087	4401	Az.	231°58'54.1098"	0°00'01.0018"	0°00'00.6482"	1.26
			Ht.	68.461sft	0.030sft	0.011sft	0.75
			Dist.	5917.152sft	0.029sft	-0.001sft	-0.09
B320	4257	4256	Az.	267°02'06.1498"	0°00'00.3655"	-0°00'00.0777"	-0.41
			Ht.	-14.376sft	0.030sft	0.018sft	1.25
			Dist.	16024.402sft	0.028sft	-0.010sft	-0.68
B208	4216	4304	Az.	110°01'35.1401"	0°00'00.3799"	-0°00'00.0994"	-0.53
			Ht.	28.356sft	0.030sft	-0.021sft	-1.21
			Dist.	16505.590sft	0.030sft	-0.014sft	-0.94
B100	4204	4068	Az.	89°58'37.8703"	0°00'00.4155"	-0°00'00.1206"	-0.64
			Ht.	-26.138sft	0.037sft	-0.021sft	-1.21
			Dist.	15332.976sft	0.030sft	0.000sft	0.00
B366	4243	4223	Az.	205°14'51.6381"	0°00'00.5121"	-0°00'00.4513"	-1.20
			Ht.	20.639sft	0.024sft	0.017sft	0.96
			Dist.	9422.670sft	0.023sft	0.013sft	0.78
B281	4247	4246	Az.	270°23'50.3246"	0°00'00.3892"	0°00'00.0256"	0.14
			Ht.	-29.861sft	0.031sft	-0.017sft	-1.19
			Dist.	15995.626sft	0.030sft	0.016sft	1.11
B143	4220	4307	Az.	218°57'56.4218"	0°00'02.4366"	0°00'00.3139"	0.31
			Ht.	-6.814sft	0.025sft	0.021sft	1.19
			Dist.	2682.447sft	0.032sft	0.003sft	0.24
B20	4308	4211	Az.	237°09'17.5524"	0°00'00.2293"	0°00'00.0276"	0.14
			Ht.	-31.979sft	0.022sft	0.023sft	1.17
			Dist.	18537.104sft	0.021sft	0.008sft	0.44
B171	4242	4253	Az.	169°55'04.0285"	0°00'00.4334"	-0°00'00.0499"	-0.21
			Ht.	-27.190sft	0.029sft	-0.018sft	-1.16
			Dist.	13061.716sft	0.027sft	-0.003sft	-0.18
B408	4309	4251	Az.	182°31'20.1507"	0°00'00.7297"	-0°00'00.3210"	-0.71
			Ht.	44.546sft	0.027sft	-0.020sft	-1.16
			Dist.	7412.606sft	0.027sft	0.006sft	0.37
B152	4259	3438	Az.	185°30'33.5006"	0°00'00.3435"	0°00'00.0451"	0.25

			□Ht.	46.031sft	0.030sft	0.019sft	1.13
			Dist.	17032.937sft	0.029sft	-0.002sft	-0.16
B307	4245	4209	Az.	268°15'11.8734"	0°00'00.3871"	-0°00'00.2015"	-1.12
			□Ht.	-4.119sft	0.030sft	0.006sft	0.42
			Dist.	16057.147sft	0.030sft	0.004sft	0.30
B367	4261	4222	Az.	0°51'17.5686"	0°00'00.6190"	-0°00'00.0763"	-0.29
			□Ht.	69.701sft	0.033sft	-0.003sft	-0.23
			Dist.	10505.491sft	0.032sft	0.015sft	1.12
B175	4210	4245	Az.	273°49'34.7460"	0°00'00.4310"	-0°00'00.1612"	-0.94
			□Ht.	31.731sft	0.034sft	-0.016sft	-1.11
			Dist.	15849.803sft	0.033sft	0.000sft	-0.02
B369	4259	4255	Az.	358°24'56.3934"	0°00'00.3385"	-0°00'00.1622"	-1.10
			□Ht.	-61.815sft	0.033sft	0.004sft	0.25
			Dist.	18971.989sft	0.031sft	0.010sft	0.76
B240	3218	3492	Az.	262°25'56.6682"	0°00'00.0466"	0°00'00.0186"	0.76
			□Ht.	36.371sft	0.035sft	-0.023sft	-1.10
			Dist.	128665.865sft	0.029sft	-0.008sft	-0.53
B56	4230	14	Az.	89°30'02.1200"	0°00'00.4123"	0°00'00.0435"	0.26
			□Ht.	71.051sft	0.034sft	-0.010sft	-0.80
			Dist.	16145.806sft	0.032sft	0.014sft	1.09
B422	4252	4251	Az.	269°31'21.4534"	0°00'00.3325"	0°00'00.0750"	0.39
			□Ht.	-28.738sft	0.028sft	0.017sft	1.08
			Dist.	16813.967sft	0.027sft	0.010sft	0.61
B33	4029	4227	Az.	180°50'26.2764"	0°00'00.3148"	-0°00'00.1587"	-1.08
			□Ht.	-180.960sft	0.033sft	0.014sft	0.87
			Dist.	20002.723sft	0.032sft	0.010sft	0.66
B43	4226	4227	Az.	112°59'38.7223"	0°00'00.3650"	0°00'00.1216"	0.65
			□Ht.	-2.205sft	0.032sft	-0.012sft	-0.74
			Dist.	16995.630sft	0.030sft	0.016sft	1.08
B324	4263	2102	Az.	180°59'18.6051"	0°00'00.4220"	-0°00'00.1536"	-0.64
			□Ht.	-52.309sft	0.029sft	-0.016sft	-1.06
			Dist.	13261.312sft	0.027sft	-0.007sft	-0.46
B82	4106	4225	Az.	107°45'28.7629"	0°00'00.3675"	0°00'00.1769"	0.71
			□Ht.	-26.898sft	0.027sft	0.006sft	0.39
			Dist.	13707.414sft	0.024sft	0.018sft	1.06

B114	4231	4205	Az.	282°19'35.6792"	0°00'00.3577"	0°00'00.1929"	1.02
			Ht.	-59.493sft	0.030sft	-0.011sft	-0.72
			Dist.	16379.145sft	0.028sft	-0.006sft	-0.40
B44	4227	4220	Az.	95°03'15.7044"	0°00'00.3747"	0°00'00.1946"	1.02
			Ht.	-6.050sft	0.032sft	-0.006sft	-0.36
			Dist.	16465.233sft	0.029sft	0.007sft	0.49
B203	4238	4244	Az.	191°46'30.8726"	0°00'00.4510"	0°00'00.0312"	0.17
			Ht.	-26.623sft	0.033sft	0.014sft	1.02
			Dist.	14492.605sft	0.032sft	0.004sft	0.30
B249	4233	4238	Az.	169°51'49.0140"	0°00'00.4028"	0°00'00.0435"	0.26
			Ht.	131.732sft	0.033sft	0.014sft	1.01
			Dist.	16224.426sft	0.032sft	0.003sft	0.22
B257	3438	3218	Az.	274°54'04.0098"	0°00'00.4466"	0°00'00.1965"	1.01
			Ht.	-13.518sft	0.033sft	0.005sft	0.31
			Dist.	14819.524sft	0.031sft	-0.002sft	-0.18
B125	4010	4202	Az.	93°21'27.4145"	0°00'00.4562"	0°00'00.1855"	1.00
			Ht.	81.756sft	0.031sft	-0.001sft	-0.08
			Dist.	14431.208sft	0.032sft	0.008sft	0.58
B421	4212	4264	Az.	256°20'56.5758"	0°00'00.3282"	-0°00'00.0075"	-0.03
			Ht.	-13.389sft	0.025sft	0.019sft	1.00
			Dist.	14995.538sft	0.024sft	0.012sft	0.67
B228	4261	4260	Az.	269°32'55.8340"	0°00'00.3806"	-0°00'00.1865"	-0.99
			Ht.	33.705sft	0.035sft	-0.004sft	-0.21
			Dist.	16734.447sft	0.030sft	0.009sft	0.59
B259	2101	3456	Az.	269°29'20.1871"	0°00'00.3841"	-0°00'00.0992"	-0.59
			Ht.	95.951sft	0.036sft	0.019sft	0.98
			Dist.	17081.934sft	0.032sft	-0.002sft	-0.16
B154	4262	2101	Az.	184°22'52.8002"	0°00'00.3542"	-0°00'00.0827"	-0.43
			Ht.	-128.616sft	0.031sft	0.017sft	0.97
			Dist.	16361.274sft	0.028sft	0.000sft	-0.02
B254	4247	4304	Az.	183°10'43.1192"	0°00'00.2984"	-0°00'00.0728"	-0.56
			Ht.	-48.116sft	0.032sft	0.014sft	0.97
			Dist.	21477.818sft	0.031sft	-0.001sft	-0.08
B103	34	35	Az.	180°43'11.9503"	0°00'00.6316"	0°00'00.1640"	0.64

			□Ht.	37.307sft	0.033sft	0.007sft	0.47
			Dist.	10439.848sft	0.032sft	0.012sft	0.95
B17	4241	4231	Az.	357°50'09.3940"	0°00'00.5066"	0°00'00.0286"	0.12
			□Ht.	-25.809sft	0.033sft	-0.010sft	-0.64
			Dist.	12328.378sft	0.031sft	0.013sft	0.94
B205	4236	4245	Az.	180°30'44.4793"	0°00'00.4100"	0°00'00.1493"	0.83
			□Ht.	117.751sft	0.032sft	-0.013sft	-0.94
			Dist.	15593.341sft	0.031sft	0.005sft	0.37
B261	54	55	Az.	171°39'14.6850"	0°00'00.6368"	-0°00'00.0263"	-0.13
			□Ht.	27.120sft	0.032sft	-0.012sft	-0.94
			Dist.	11299.060sft	0.035sft	0.004sft	0.38
B313	2102	2101	Az.	269°41'34.0758"	0°00'00.3128"	0°00'00.1817"	0.93
			□Ht.	-35.210sft	0.031sft	0.019sft	0.91
			Dist.	17451.780sft	0.026sft	0.000sft	0.01
B174	4237	4210	Az.	180°35'51.4673"	0°00'00.4131"	0°00'00.0099"	0.07
			□Ht.	34.559sft	0.037sft	0.013sft	0.91
			Dist.	16965.396sft	0.035sft	0.005sft	0.40
B170	45	4253	Az.	290°29'46.1456"	0°00'00.3673"	-0°00'00.0678"	-0.38
			□Ht.	42.051sft	0.029sft	0.014sft	0.90
			Dist.	16736.038sft	0.030sft	0.000sft	-0.03
B304	4207	4237	Az.	180°04'50.9699"	0°00'00.4674"	0°00'00.0152"	0.10
			□Ht.	-37.197sft	0.035sft	0.010sft	0.89
			Dist.	14906.017sft	0.034sft	0.004sft	0.35
B7	4221	4231	Az.	167°10'39.0887"	0°00'00.5356"	0°00'00.1095"	0.57
			□Ht.	63.648sft	0.036sft	-0.010sft	-0.60
			Dist.	13174.967sft	0.034sft	-0.011sft	-0.89
B357	4261	4262	Az.	87°44'28.9798"	0°00'00.3781"	0°00'00.0723"	0.38
			□Ht.	51.352sft	0.031sft	0.007sft	0.47
			Dist.	15924.706sft	0.029sft	0.013sft	0.88
B178	4257	4304	Az.	354°50'12.1738"	0°00'00.5787"	0°00'00.0229"	0.09
			□Ht.	5.267sft	0.031sft	0.004sft	0.30
			Dist.	10836.884sft	0.031sft	-0.012sft	-0.88
B288	4220	4206	Az.	180°59'35.1919"	0°00'00.5361"	0°00'00.1451"	0.44
			□Ht.	65.242sft	0.025sft	0.015sft	0.87
			Dist.	10056.819sft	0.026sft	0.003sft	0.16

B64	4203	4048	Az.	90°11'33.5314"	0°00'00.5905"	0°00'00.1981"	0.87
			Ht.	-27.059sft	0.032sft	-0.005sft	-0.38
			Dist.	11399.101sft	0.032sft	0.000sft	0.00
B72	4106	4401	Az.	344°46'44.2534"	0°00'00.6904"	0°00'00.0874"	0.17
			Ht.	-91.221sft	0.023sft	-0.015sft	-0.87
			Dist.	6738.535sft	0.023sft	-0.006sft	-0.35
B344	4207	4234	Az.	270°30'51.4704"	0°00'00.3982"	0°00'00.1162"	0.63
			Ht.	7.646sft	0.031sft	-0.003sft	-0.22
			Dist.	15866.409sft	0.030sft	0.012sft	0.86
B389	4248	4249	Az.	101°25'00.5377"	0°00'00.4268"	0°00'00.1335"	0.86
			Ht.	-4.318sft	0.034sft	-0.006sft	-0.49
			Dist.	16157.173sft	0.033sft	-0.005sft	-0.40
B221	4236	4235	Az.	278°07'40.5364"	0°00'00.3764"	0°00'00.1541"	0.85
			Ht.	-0.840sft	0.031sft	0.009sft	0.62
			Dist.	16405.996sft	0.030sft	-0.006sft	-0.42
B74	4203	4220	Az.	186°52'28.1124"	0°00'00.2918"	0°00'00.0825"	0.59
			Ht.	-167.343sft	0.033sft	-0.014sft	-0.76
			Dist.	21540.633sft	0.031sft	-0.012sft	-0.81
B29	4240	4205	Az.	0°43'52.1275"	0°00'00.4475"	0°00'00.1342"	0.81
			Ht.	-91.456sft	0.034sft	-0.003sft	-0.26
			Dist.	15152.094sft	0.033sft	0.008sft	0.65
B10	4308	4243	Az.	177°41'47.1839"	0°00'00.4115"	0°00'00.1068"	0.33
			Ht.	-45.082sft	0.023sft	0.003sft	0.18
			Dist.	11087.001sft	0.022sft	0.014sft	0.80
B167	4260	3219	Az.	176°54'52.1772"	0°00'00.3537"	-0°00'00.0701"	-0.34
			Ht.	9.490sft	0.028sft	-0.015sft	-0.80
			Dist.	15735.906sft	0.027sft	-0.006sft	-0.37
B11	4061	4087	Az.	97°13'49.0068"	0°00'00.2620"	-0°00'00.1206"	-0.78
			Ht.	-154.661sft	0.031sft	-0.001sft	-0.04
			Dist.	21527.936sft	0.027sft	-0.009sft	-0.57
B236	4225	4234	Az.	179°58'31.4924"	0°00'00.3652"	-0°00'00.1137"	-0.58
			Ht.	-16.229sft	0.029sft	-0.012sft	-0.78
			Dist.	15910.777sft	0.028sft	-0.001sft	-0.09
B26	14	4311	Az.	208°15'36.8365"	0°00'00.6815"	-0°00'00.1728"	-0.77

			□Ht.	-125.595sft	0.033sft	-0.007sft	-0.50
			Dist.	10441.264sft	0.035sft	-0.003sft	-0.24
B71	4106	4401	Az.	344°46'44.2534"	0°00'00.6904"	0°00'00.0498"	0.09
			□Ht.	-91.221sft	0.023sft	0.013sft	0.76
			Dist.	6738.535sft	0.023sft	-0.013sft	-0.77
B342	4206	4233	Az.	268°57'18.9768"	0°00'00.3760"	0°00'00.1424"	0.76
			□Ht.	-45.017sft	0.030sft	-0.002sft	-0.10
			Dist.	16027.908sft	0.029sft	0.004sft	0.26
B287	4212	4252	Az.	174°48'43.5900"	0°00'00.2966"	0°00'00.0987"	0.43
			□Ht.	8.449sft	0.023sft	0.013sft	0.76
			Dist.	15671.647sft	0.023sft	0.010sft	0.59
B98	4202	4029	Az.	87°23'04.2249"	0°00'00.4017"	0°00'00.1209"	0.75
			□Ht.	86.969sft	0.033sft	-0.001sft	-0.08
			Dist.	17145.863sft	0.032sft	0.007sft	0.57
B252	4234	4208	Az.	271°41'09.9725"	0°00'00.3861"	0°00'00.0511"	0.28
			□Ht.	9.602sft	0.030sft	-0.011sft	-0.75
			Dist.	16011.930sft	0.030sft	0.000sft	-0.03
B59	4212	4240	Az.	5°31'01.9272"	0°00'00.4164"	0°00'00.1159"	0.75
			□Ht.	-11.625sft	0.034sft	-0.003sft	-0.26
			Dist.	16282.827sft	0.033sft	0.009sft	0.71
B14	4048	4228	Az.	173°32'39.7683"	0°00'00.3897"	0°00'00.0472"	0.26
			□Ht.	-31.595sft	0.033sft	0.007sft	0.51
			Dist.	16017.603sft	0.030sft	-0.010sft	-0.73
B124	4001	4010	Az.	136°36'26.9060"	0°00'00.3101"	0°00'00.0197"	0.16
			□Ht.	-25.040sft	0.034sft	-0.010sft	-0.73
			Dist.	21827.195sft	0.033sft	0.003sft	0.25
B323	4260	4310	Az.	185°56'39.0953"	0°00'00.3914"	-0°00'00.0108"	-0.05
			□Ht.	-49.351sft	0.028sft	0.012sft	0.72
			Dist.	14567.296sft	0.028sft	-0.008sft	-0.53
B286	4254	55	Az.	111°59'32.0167"	0°00'00.3080"	0°00'00.0264"	0.21
			□Ht.	-81.725sft	0.032sft	0.010sft	0.70
			Dist.	21316.396sft	0.032sft	-0.006sft	-0.48
B24	4220	4228	Az.	71°00'15.5605"	0°00'00.3611"	0°00'00.0641"	0.35
			□Ht.	108.690sft	0.031sft	-0.006sft	-0.33
			Dist.	16694.537sft	0.029sft	0.010sft	0.70

B153	3219	3438	Az.	266°00'34.5465"	0°00'00.3147"	0°00'00.0876"	0.47
			Ht.	8.728sft	0.028sft	0.014sft	0.69
			Dist.	17981.656sft	0.027sft	-0.006sft	-0.36
B398	4213	4222	Az.	253°07'03.8930"	0°00'00.3832"	-0°00'00.0504"	-0.27
			Ht.	42.667sft	0.034sft	-0.003sft	-0.12
			Dist.	17390.057sft	0.032sft	0.011sft	0.69
B121	4241	34	Az.	110°00'49.3174"	0°00'00.3815"	0°00'00.1326"	0.68
			Ht.	-45.385sft	0.031sft	-0.006sft	-0.39
			Dist.	15750.897sft	0.029sft	-0.003sft	-0.18
B300	44	45	Az.	180°30'59.1103"	0°00'00.6094"	-0°00'00.0108"	-0.04
			Ht.	-56.774sft	0.030sft	-0.004sft	-0.28
			Dist.	10554.226sft	0.031sft	0.009sft	0.68
B147	4224	4208	Az.	180°45'21.1395"	0°00'00.3812"	-0°00'00.0089"	-0.05
			Ht.	54.927sft	0.029sft	-0.010sft	-0.66
			Dist.	15517.577sft	0.029sft	0.007sft	0.46
B407	4211	4223	Az.	128°27'54.8934"	0°00'00.3153"	-0°00'00.1511"	-0.66
			Ht.	7.535sft	0.024sft	-0.008sft	-0.44
			Dist.	15334.625sft	0.023sft	-0.003sft	-0.15
B391	4243	4212	Az.	82°46'27.9863"	0°00'00.2967"	-0°00'00.0045"	-0.02
			Ht.	7.784sft	0.021sft	0.012sft	0.64
			Dist.	14507.860sft	0.021sft	-0.006sft	-0.35
B12	4225	4224	Az.	270°16'38.9874"	0°00'00.3408"	0°00'00.1312"	0.63
			Ht.	-61.554sft	0.027sft	-0.008sft	-0.48
			Dist.	15783.196sft	0.026sft	0.008sft	0.52
B169	4263	64	Az.	99°18'13.9611"	0°00'00.3958"	-0°00'00.0945"	-0.54
			Ht.	-66.971sft	0.031sft	0.009sft	0.63
			Dist.	16047.072sft	0.031sft	0.007sft	0.50
B356	4243	4309	Az.	185°50'21.9964"	0°00'00.7778"	0°00'00.2985"	0.56
			Ht.	-57.051sft	0.025sft	0.011sft	0.60
			Dist.	6561.854sft	0.025sft	0.006sft	0.37
B2	4401	4224	Az.	185°09'39.7235"	0°00'00.5292"	0°00'00.0154"	0.05
			Ht.	2.769sft	0.028sft	0.009sft	0.59
			Dist.	10658.510sft	0.027sft	0.002sft	0.13
B316	35	44	Az.	179°01'58.3555"	0°00'00.6335"	0°00'00.1460"	0.56

			□Ht.	18.294sft	0.030sft	-0.001sft	-0.06
			Dist.	10333.446sft	0.032sft	0.008sft	0.59
B402	4211	4264	Az.	99°48'00.6501"	0°00'00.3003"	-0°00'00.1267"	-0.57
			□Ht.	-18.708sft	0.025sft	-0.007sft	-0.38
			Dist.	16078.744sft	0.023sft	0.003sft	0.20
B418	4223	4251	Az.	150°46'52.4026"	0°00'00.8411"	-0°00'00.3065"	-0.57
			□Ht.	-33.143sft	0.026sft	0.005sft	0.33
			Dist.	6198.891sft	0.025sft	0.000sft	0.01
B63	4029	4203	Az.	90°11'42.0994"	0°00'00.3824"	-0°00'00.0055"	-0.03
			□Ht.	-19.667sft	0.035sft	-0.002sft	-0.12
			Dist.	18669.068sft	0.033sft	-0.007sft	-0.56
B162	4224	4235	Az.	180°49'30.8368"	0°00'00.2000"	0°00'00.0440"	0.40
			□Ht.	-51.820sft	0.030sft	0.005sft	0.31
			Dist.	29033.413sft	0.028sft	-0.009sft	-0.56
B156	45	54	Az.	179°18'56.5896"	0°00'00.6689"	-0°00'00.0379"	-0.18
			□Ht.	-71.477sft	0.032sft	-0.007sft	-0.55
			Dist.	10747.812sft	0.035sft	0.004sft	0.36
B140	25	34	Az.	181°34'10.6338"	0°00'00.5894"	0°00'00.0524"	0.20
			□Ht.	-85.438sft	0.031sft	-0.008sft	-0.51
			Dist.	10692.273sft	0.031sft	0.004sft	0.30
B314	2102	65	Az.	89°47'52.9854"	0°00'00.4402"	0°00'00.0273"	0.18
			□Ht.	-21.544sft	0.033sft	0.006sft	0.47
			Dist.	15758.219sft	0.034sft	-0.003sft	-0.27
B217	4211	4239	Az.	355°02'29.5884"	0°00'00.4050"	-0°00'00.0204"	-0.13
			□Ht.	31.099sft	0.034sft	-0.006sft	-0.47
			Dist.	16796.554sft	0.033sft	0.002sft	0.14
B326	4239	4206	Az.	6°10'57.9483"	0°00'00.4131"	-0°00'00.0247"	-0.16
			□Ht.	-76.299sft	0.035sft	-0.006sft	-0.47
			Dist.	16470.826sft	0.034sft	0.001sft	0.11
B325	44	4253	Az.	253°25'36.5840"	0°00'00.3570"	0°00'00.0435"	0.23
			□Ht.	-14.723sft	0.028sft	0.002sft	0.12
			Dist.	16455.293sft	0.029sft	0.007sft	0.47
B52	4225	4010	Az.	1°41'29.0004"	0°00'00.3616"	0°00'00.0333"	0.17
			□Ht.	-146.761sft	0.029sft	0.000sft	0.02
			Dist.	15963.945sft	0.028sft	-0.007sft	-0.45

B245	55	64	Az.	181°29'46.7497"	0°00'00.6495"	0°00'00.0923"	0.38
			Ht.	-8.325sft	0.032sft	0.007sft	0.44
			Dist.	10549.292sft	0.033sft	0.004sft	0.35
B280	4234	4236	Az.	179°56'56.6644"	0°00'00.4082"	0°00'00.0466"	0.25
			Ht.	-96.304sft	0.031sft	-0.003sft	-0.25
			Dist.	15362.439sft	0.030sft	-0.006sft	-0.44
B403	4212	4252	Az.	174°48'43.5900"	0°00'00.2966"	-0°00'00.0941"	-0.41
			Ht.	8.449sft	0.023sft	0.008sft	0.43
			Dist.	15671.647sft	0.023sft	0.005sft	0.30
B385	4264	4223	Az.	209°28'05.2327"	0°00'00.6286"	-0°00'00.0082"	-0.02
			Ht.	26.244sft	0.025sft	0.008sft	0.43
			Dist.	7809.703sft	0.024sft	-0.002sft	-0.15
B311	4310	3438	Az.	260°58'02.4898"	0°00'00.3137"	-0°00'00.0193"	-0.09
			Ht.	67.569sft	0.024sft	-0.008sft	-0.42
			Dist.	15777.932sft	0.024sft	-0.006sft	-0.37
B139	24	25	Az.	181°38'40.9285"	0°00'00.6506"	-0°00'00.1089"	-0.41
			Ht.	114.935sft	0.034sft	0.007sft	0.40
			Dist.	10342.170sft	0.033sft	-0.004sft	-0.31
B62	4106	4224	Az.	213°33'41.7690"	0°00'01.0115"	-0°00'00.2825"	-0.41
			Ht.	-88.452sft	0.026sft	-0.007sft	-0.41
			Dist.	4935.938sft	0.024sft	0.003sft	0.19
B86	1	14	Az.	177°42'03.7701"	0°00'00.6231"	0°00'00.1031"	0.40
			Ht.	80.347sft	0.032sft	0.000sft	0.02
			Dist.	10571.082sft	0.032sft	-0.002sft	-0.14
B50	4212	4243	Az.	262°48'34.1390"	0°00'00.2967"	0°00'00.0932"	0.37
			Ht.	-7.784sft	0.021sft	-0.005sft	-0.27
			Dist.	14507.860sft	0.021sft	-0.001sft	-0.04
B243	3456	3219	Az.	270°00'43.1542"	0°00'00.4934"	-0°00'00.0686"	-0.34
			Ht.	24.508sft	0.033sft	0.002sft	0.15
			Dist.	13490.289sft	0.032sft	0.000sft	0.02
B108	4202	4226	Az.	174°32'05.6249"	0°00'00.4912"	0°00'00.0215"	0.09
			Ht.	-91.786sft	0.031sft	0.003sft	0.20
			Dist.	12637.506sft	0.030sft	0.004sft	0.31
B297	3219	4310	Az.	297°27'41.3424"	0°00'02.1311"	-0°00'00.3727"	-0.30

			□Ht.	-58.841sft	0.024sft	-0.001sft	-0.05
			Dist.	2654.671sft	0.027sft	-0.003sft	-0.17
B96	4001	4061	Az.	228°59'46.0646"	0°00'00.3029"	0°00'00.0359"	0.29
			□Ht.	143.599sft	0.034sft	0.000sft	0.03
			Dist.	22505.534sft	0.033sft	-0.002sft	-0.14
B155	64	65	Az.	181°41'37.6655"	0°00'00.6537"	-0°00'00.0618"	-0.27
			□Ht.	-6.882sft	0.032sft	-0.002sft	-0.14
			Dist.	10614.035sft	0.034sft	-0.002sft	-0.18
B312	4310	3438	Az.	260°58'02.4898"	0°00'00.3137"	0°00'00.0527"	0.24
			□Ht.	67.569sft	0.024sft	-0.004sft	-0.24
			Dist.	15777.932sft	0.024sft	0.004sft	0.23
B285	4261	3456	Az.	188°38'16.3475"	0°00'00.3849"	0°00'00.0328"	0.18
			□Ht.	18.687sft	0.032sft	-0.002sft	-0.15
			Dist.	16031.497sft	0.030sft	-0.003sft	-0.22
B51	4087	4010	Az.	81°17'17.9004"	0°00'00.5826"	0°00'00.0576"	0.22
			□Ht.	-13.978sft	0.029sft	-0.001sft	-0.07
			Dist.	10748.800sft	0.030sft	0.003sft	0.21
B35	4068	4230	Az.	176°57'44.3842"	0°00'00.5672"	0°00'00.0269"	0.10
			□Ht.	-55.332sft	0.040sft	-0.004sft	-0.15
			Dist.	10720.728sft	0.030sft	0.000sft	0.02

Geoid Observations

Number of Observations : 97

Number of Outliers : 0

Observation Adjustment (Critical Tau = 3.91). Any outliers are in red.

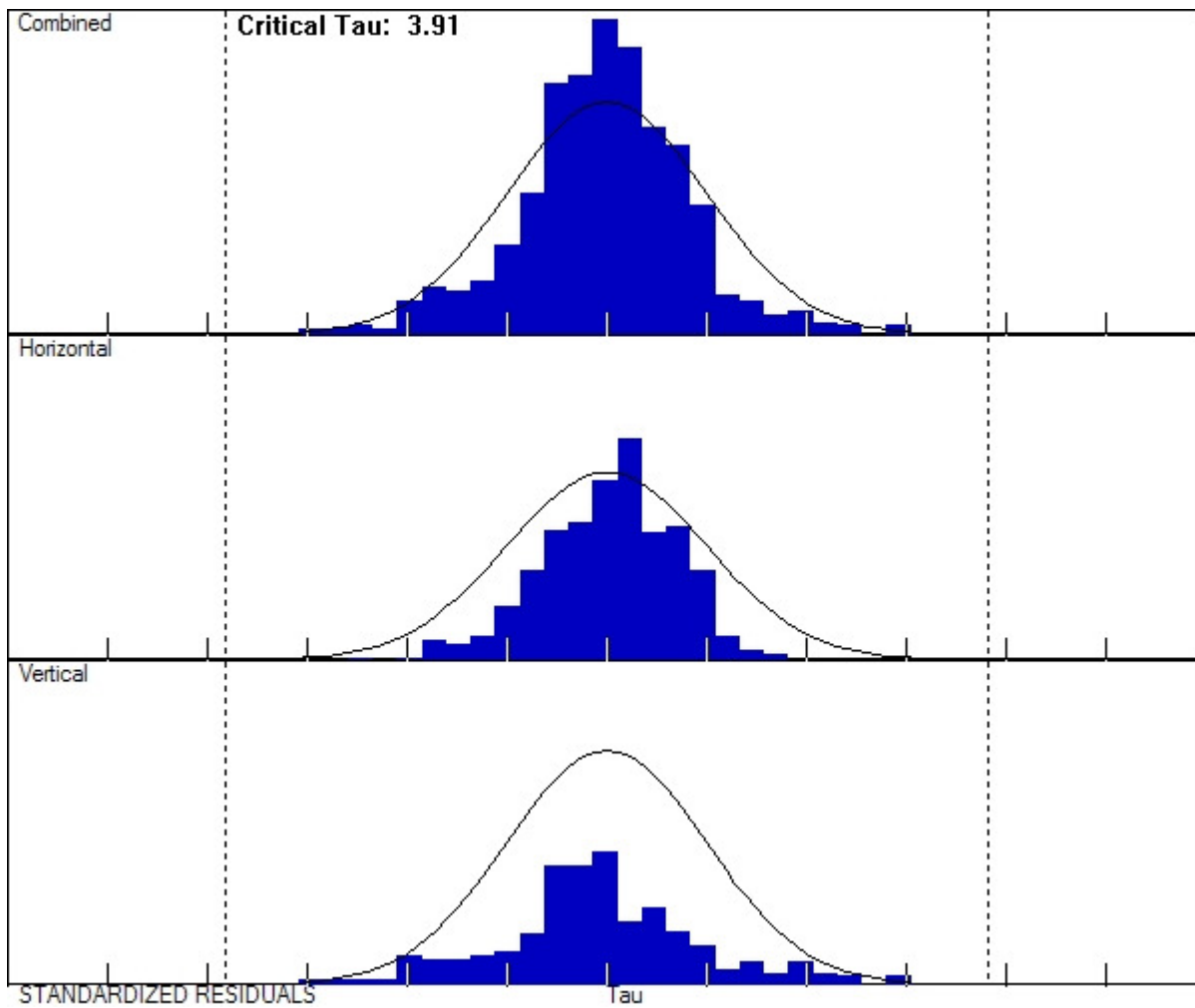
Observation ID	Point Name	Separation	A-posteriori Error (1.96σ)	Residual	Standardized Residual
G208	4209	-105.355sft	0.222sft	-0.153sft	-1.41
G187	4235	-105.118sft	0.237sft	-0.111sft	-1.11
G169	4245	-105.392sft	0.227sft	-0.099sft	-0.94
G174	3217	-105.567sft	0.237sft	-0.091sft	-0.91
G194	4236	-105.216sft	0.232sft	-0.091sft	-0.88
G184	45	-106.464sft	0.250sft	0.080sft	0.87

G140	35	-106.247sft	0.245sft	0.080sft	0.85
G213	44	-106.356sft	0.247sft	0.078sft	0.83
G195	4246	-105.418sft	0.231sft	-0.082sft	-0.79
G170	4208	-104.882sft	0.233sft	-0.079sft	-0.77
G211	4310	-106.279sft	0.237sft	-0.071sft	-0.72
G172	3492	-105.448sft	0.302sft	0.021sft	0.70
G163	4204	-105.036sft	0.247sft	-0.064sft	-0.69
G191	4253	-106.272sft	0.247sft	0.063sft	0.67
G178	3438	-106.059sft	0.235sft	-0.063sft	-0.62
G152	4010	-104.279sft	0.247sft	0.058sft	0.61
G131	4029	-104.429sft	0.241sft	0.059sft	0.60
G162	4202	-104.346sft	0.243sft	0.058sft	0.60
G168	4237	-105.277sft	0.227sft	-0.063sft	-0.59
G127	4061	-104.325sft	0.262sft	-0.048sft	-0.58
G186	4210	-105.472sft	0.214sft	-0.065sft	-0.58
G141	4242	-106.105sft	0.243sft	0.055sft	0.58
G176	4247	-105.502sft	0.226sft	-0.060sft	-0.56
G159	25	-106.129sft	0.246sft	-0.052sft	-0.55
G179	3219	-106.299sft	0.239sft	-0.054sft	-0.54
G165	34	-106.160sft	0.245sft	0.051sft	0.54
G204	3456	-106.479sft	0.244sft	-0.051sft	-0.54
G202	4234	-104.943sft	0.236sft	-0.053sft	-0.53
G216	4222	-106.318sft	0.230sft	-0.055sft	-0.53
G183	65	-106.952sft	0.272sft	-0.039sft	-0.53
G135	4068	-105.216sft	0.253sft	-0.047sft	-0.53
G206	4206	-105.300sft	0.222sft	-0.057sft	-0.52
G189	4260	-106.208sft	0.238sft	-0.050sft	-0.51
G182	64	-106.867sft	0.266sft	-0.038sft	-0.49
G185	54	-106.604sft	0.255sft	0.042sft	0.48
G209	4256	-105.489sft	0.239sft	-0.046sft	-0.46
G198	4261	-106.397sft	0.242sft	-0.043sft	-0.45

G199	4254	-106.480sft	0.252sft	0.038sft	0.42
G136	4311	-105.751sft	0.250sft	-0.035sft	-0.39
G175	4248	-105.575sft	0.222sft	-0.041sft	-0.38
G207	4207	-105.024sft	0.223sft	-0.041sft	-0.38
G166	4307	-105.143sft	0.227sft	-0.040sft	-0.38
G201	4233	-105.152sft	0.231sft	-0.039sft	-0.37
G145	4087	-104.310sft	0.250sft	0.034sft	0.37
G177	4259	-105.998sft	0.237sft	-0.037sft	-0.37
G167	4238	-105.410sft	0.227sft	-0.039sft	-0.37
G220	4213	-106.356sft	0.235sft	0.033sft	0.33
G155	4212	-105.934sft	0.225sft	0.034sft	0.32
G200	4252	-106.149sft	0.237sft	0.030sft	0.30
G154	4230	-105.417sft	0.253sft	-0.025sft	-0.28
G193	4244	-105.554sft	0.223sft	-0.029sft	-0.27
G192	4239	-105.492sft	0.227sft	-0.028sft	-0.26
G134	4229	-105.160sft	0.247sft	-0.024sft	-0.26
G129	4224	-104.579sft	0.246sft	-0.024sft	-0.25
G137	4312	-106.108sft	0.299sft	0.009sft	0.24
G130	4226	-104.645sft	0.242sft	0.023sft	0.23
G205	55	-106.728sft	0.260sft	0.019sft	0.22
G138	4221	-105.550sft	0.241sft	0.021sft	0.22
G148	14	-105.643sft	0.256sft	-0.019sft	-0.22
G133	4048	-104.750sft	0.243sft	0.021sft	0.21
G161	4001	-104.022sft	0.266sft	-0.016sft	-0.20
G188	4257	-105.611sft	0.233sft	-0.021sft	-0.20
G149	4241	-105.949sft	0.245sft	0.018sft	0.19
G173	4304	-105.575sft	0.221sft	-0.021sft	-0.19
G160	4232	-105.405sft	0.235sft	-0.019sft	-0.18
G158	1	-105.437sft	0.260sft	-0.015sft	-0.18
G171	4216	-105.417sft	0.223sft	-0.018sft	-0.17
G222	4249	-105.726sft	0.224sft	-0.017sft	-0.16

G197	4258	-105.764sft	0.233sft	-0.015sft	-0.15
G196	3423	-105.618sft	0.235sft	-0.015sft	-0.15
G217	4255	-105.865sft	0.227sft	-0.016sft	-0.15
G219	4214	-106.027sft	0.221sft	-0.014sft	-0.13
G214	4309	-105.949sft	0.220sft	-0.013sft	-0.12
G215	4223	-105.940sft	0.219sft	-0.013sft	-0.12
G150	4240	-105.757sft	0.236sft	0.012sft	0.12
G210	4215	-105.671sft	0.217sft	-0.013sft	-0.11
G181	2101	-106.623sft	0.251sft	0.010sft	0.11
G223	4251	-106.027sft	0.226sft	-0.011sft	-0.10
G151	4211	-105.690sft	0.214sft	0.010sft	0.09
G128	4401	-104.384sft	0.253sft	0.007sft	0.08
G190	4263	-106.679sft	0.263sft	0.006sft	0.08
G221	4250	-105.873sft	0.224sft	-0.008sft	-0.08
G153	4227	-104.917sft	0.237sft	-0.007sft	-0.07
G147	4228	-105.128sft	0.242sft	-0.006sft	-0.06
G142	4205	-105.566sft	0.231sft	-0.006sft	-0.06
G146	4225	-104.615sft	0.244sft	0.005sft	0.06
G203	3218	-105.794sft	0.233sft	-0.005sft	-0.05
G164	24	-105.961sft	0.247sft	-0.003sft	-0.04
G218	4264	-105.885sft	0.224sft	-0.003sft	-0.03
G139	4231	-105.793sft	0.245sft	0.003sft	0.03
G132	4220	-105.078sft	0.227sft	0.003sft	0.03
G156	4106	-104.501sft	0.243sft	-0.003sft	-0.03
G180	4262	-106.505sft	0.251sft	0.002sft	0.02
G157	4203	-104.649sft	0.241sft	0.002sft	0.02
G143	4308	-105.706sft	0.229sft	-0.001sft	-0.01
G144	4243	-105.862sft	0.225sft	-0.001sft	-0.01
G212	2102	-106.796sft	0.261sft	0.000sft	0.00

Histograms of Standardized Residuals



Point Error Ellipses

4401	4224	4221
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
4231	35	4242
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
4205	4229	4308
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
4243	4061	4087
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

4225	4048	4228
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
4241	4211	4226
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
4220	14	4311
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
4240	4029	4227
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

4068	4230	4212
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
4010	4106	4203
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
1	4312	4232
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
25	4001	4202
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

4204	24	34
90°	70°	64°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45 σ Vertical Univariate Scalar: 1.96 σ		
4307	4208	3217
76°	-78°	64°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45 σ Vertical Univariate Scalar: 1.96 σ		
3492	4248	4247
0°	76°	81°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45 σ Vertical Univariate Scalar: 1.96 σ		
4259	3438	3219
66°	63°	62°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45 σ Vertical Univariate Scalar: 1.96 σ		

4262	2101	64
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
65	45	54
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
4235	4260	4263
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
4253	4237	4210
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

4245	4257	4304
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
4246	4216	4258
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
4238	4244	4236
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
3423	4239	4261
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

4254	4252	4233
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
4234	3218	3456
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
55	4206	4207
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
4256	4310	2102
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

44	4209	4215
60°	-86°	77°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45 σ Vertical Univariate Scalar: 1.96 σ		
4309	4223	4264
85°	79°	78°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45 σ Vertical Univariate Scalar: 1.96 σ		
4222	4255	4214
-83°	74°	82°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45 σ Vertical Univariate Scalar: 1.96 σ		
4213	4250	4249
85°	88°	74°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45 σ Vertical Univariate Scalar: 1.96 σ		

4251		
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45 σ Vertical Univariate Scalar: 1.96 σ		

Covariant Terms

Adjustment performed in **NAD 1983/NSRS2007 (Conus)**

From Point	To Point		Components	A-posteriori Error (1.96 σ)	Horiz. Precision (Ratio)	3D Precision (Ratio)
4401	4224	Az.	185°09'39.7308"	0°00'00.5274"	1:390694	1:390694
		<input type="checkbox"/> Ht.	2.766sft	0.033sft		
		<input type="checkbox"/> Elev.	2.961sft	0.069sft		
		Dist.	10658.511sft	0.027sft		
4401	4087	Az.	51°58'13.0206"	0°00'01.0025"	1:205921	1:205921
		<input type="checkbox"/> Ht.	-68.460sft	0.031sft		
		<input type="checkbox"/> Elev.	-68.535sft	0.050sft		
		Dist.	5917.152sft	0.029sft		
4401	4106	Az.	164°46'28.6682"	0°00'00.6927"	1:297414	1:297414
		<input type="checkbox"/> Ht.	91.218sft	0.026sft		
		<input type="checkbox"/> Elev.	91.335sft	0.050sft		
		Dist.	6738.536sft	0.023sft		
4224	4225	Az.	90°14'20.0083"	0°00'00.3415"	1:605540	1:605540
		<input type="checkbox"/> Ht.	61.551sft	0.035sft		
		<input type="checkbox"/> Elev.	61.587sft	0.082sft		
		Dist.	15783.198sft	0.026sft		
4224	4106	Az.	33°33'17.7441"	0°00'01.0080"	1:204722	1:204722
		<input type="checkbox"/> Ht.	88.453sft	0.027sft		
		<input type="checkbox"/> Elev.	88.375sft	0.052sft		
		Dist.	4935.939sft	0.024sft		

4224	4208	Az.	180°45'21.1469"	0°00'00.3804"	1:541314	1:541314
		<input type="checkbox"/> Ht.	54.922sft	0.038sft		
		<input type="checkbox"/> Elev.	55.225sft	0.052sft		
		Dist.	15517.579sft	0.029sft		
4224	4235	Az.	180°49'30.8442"	0°00'00.1988"	1:1035633	1:1035633
		<input type="checkbox"/> Ht.	-51.829sft	0.056sft		
		<input type="checkbox"/> Elev.	-51.290sft	0.088sft		
		Dist.	29033.417sft	0.028sft		
4221	4231	Az.	167°10'39.0961"	0°00'00.5360"	1:381769	1:381769
		<input type="checkbox"/> Ht.	63.643sft	0.042sft		
		<input type="checkbox"/> Elev.	63.886sft	0.066sft		
		Dist.	13174.969sft	0.035sft		
4221	4230	Az.	13°53'06.3825"	0°00'00.5603"	1:361290	1:361290
		<input type="checkbox"/> Ht.	47.648sft	0.040sft		
		<input type="checkbox"/> Elev.	47.515sft	0.062sft		
		Dist.	12363.799sft	0.034sft		
4231	4205	Az.	282°19'35.6866"	0°00'00.3565"	1:581419	1:581419
		<input type="checkbox"/> Ht.	-59.490sft	0.039sft		
		<input type="checkbox"/> Elev.	-59.716sft	0.066sft		
		Dist.	16379.147sft	0.028sft		
4231	4229	Az.	321°08'16.1984"	0°00'00.1782"	1:1160260	1:1160260
		<input type="checkbox"/> Ht.	103.173sft	0.063sft		
		<input type="checkbox"/> Elev.	102.541sft	0.096sft		
		Dist.	31993.248sft	0.028sft		
4231	4241	Az.	177°50'05.3112"	0°00'00.5061"	1:402941	1:402941
		<input type="checkbox"/> Ht.	25.805sft	0.039sft		
		<input type="checkbox"/> Elev.	25.961sft	0.078sft		
		Dist.	12328.380sft	0.031sft		
4231	24	Az.	78°10'30.0903"	0°00'00.3778"	1:550581	1:550581
		<input type="checkbox"/> Ht.	-49.074sft	0.040sft		
		<input type="checkbox"/> Elev.	-48.906sft	0.066sft		
		Dist.	16184.729sft	0.029sft		
35	4242	Az.	263°05'48.1187"	0°00'00.2838"	1:729678	1:729678
		<input type="checkbox"/> Ht.	30.763sft	0.038sft		
		<input type="checkbox"/> Elev.	30.622sft	0.071sft		
		Dist.	18004.592sft	0.025sft		

35	34	Az.	0°43'10.8074"	0°00'00.6298"	1:324535	1:324535
		<input type="checkbox"/> Ht.	-37.304sft	0.037sft		
		<input type="checkbox"/> Elev.	-37.390sft	0.000sft		
		Dist.	10439.850sft	0.032sft		
35	44	Az.	179°01'58.3629"	0°00'00.6325"	1:325403	1:325403
		<input type="checkbox"/> Ht.	18.290sft	0.035sft		
		<input type="checkbox"/> Elev.	18.400sft	0.000sft		
		Dist.	10333.448sft	0.032sft		
4242	4241	Az.	10°03'45.8113"	0°00'00.3320"	1:605243	1:605243
		<input type="checkbox"/> Ht.	-22.678sft	0.047sft		
		<input type="checkbox"/> Elev.	-22.835sft	0.089sft		
		Dist.	18286.702sft	0.030sft		
4242	4212	Az.	279°17'29.9397"	0°00'00.3247"	1:642298	1:642298
		<input type="checkbox"/> Ht.	-4.900sft	0.034sft		
		<input type="checkbox"/> Elev.	-5.072sft	0.071sft		
		Dist.	15252.040sft	0.024sft		
4242	4253	Az.	169°55'04.0358"	0°00'00.4319"	1:477768	1:477768
		<input type="checkbox"/> Ht.	-27.195sft	0.036sft		
		<input type="checkbox"/> Elev.	-27.028sft	0.079sft		
		Dist.	13061.718sft	0.027sft		
4205	4229	Az.	349°11'36.1043"	0°00'00.2542"	1:808948	1:808948
		<input type="checkbox"/> Ht.	162.663sft	0.047sft		
		<input type="checkbox"/> Elev.	162.257sft	0.069sft		
		Dist.	21798.914sft	0.027sft		
4205	4240	Az.	180°43'53.8342"	0°00'00.4474"	1:460407	1:460407
		<input type="checkbox"/> Ht.	91.452sft	0.042sft		
		<input type="checkbox"/> Elev.	91.642sft	0.073sft		
		Dist.	15152.096sft	0.033sft		
4205	4232	Az.	273°33'13.6050"	0°00'00.3581"	1:578147	1:578147
		<input type="checkbox"/> Ht.	80.142sft	0.038sft		
		<input type="checkbox"/> Elev.	79.980sft	0.070sft		
		Dist.	15901.371sft	0.028sft		
4229	4228	Az.	247°01'21.4376"	0°00'00.4511"	1:463780	1:463780
		<input type="checkbox"/> Ht.	-56.006sft	0.039sft		
		<input type="checkbox"/> Elev.	-56.038sft	0.080sft		
		Dist.	12747.017sft	0.027sft		

4229	4232	Az.	209°58'10.2777"	0°00'00.2245"	1:915253	1:915253
		<input type="checkbox"/> Ht.	-82.521sft	0.046sft		
		<input type="checkbox"/> Elev.	-82.277sft	0.091sft		
		Dist.	23581.816sft	0.026sft		
4229	4204	Az.	21°34'09.4633"	0°00'00.5357"	1:380990	1:380990
		<input type="checkbox"/> Ht.	-37.692sft	0.043sft		
		<input type="checkbox"/> Elev.	-37.817sft	0.069sft		
		Dist.	11452.702sft	0.030sft		
4308	4243	Az.	177°41'47.1912"	0°00'00.4123"	1:497089	1:497089
		<input type="checkbox"/> Ht.	-45.086sft	0.030sft		
		<input type="checkbox"/> Elev.	-44.930sft	0.072sft		
		Dist.	11087.003sft	0.022sft		
4308	4211	Az.	237°09'17.5597"	0°00'00.2297"	1:901150	1:901150
		<input type="checkbox"/> Ht.	-31.980sft	0.034sft		
		<input type="checkbox"/> Elev.	-31.996sft	0.071sft		
		Dist.	18537.106sft	0.021sft		
4308	4212	Az.	121°56'50.6060"	0°00'00.2390"	1:867081	1:867081
		<input type="checkbox"/> Ht.	-37.304sft	0.036sft		
		<input type="checkbox"/> Elev.	-37.076sft	0.071sft		
		Dist.	17486.913sft	0.020sft		
4308	4232	Az.	1°44'56.7229"	0°00'00.2520"	1:812235	1:812235
		<input type="checkbox"/> Ht.	-60.235sft	0.048sft		
		<input type="checkbox"/> Elev.	-60.536sft	0.090sft		
		Dist.	23091.549sft	0.028sft		
4308	4264	Az.	178°47'53.6718"	0°00'00.3783"	1:539572	1:539572
		<input type="checkbox"/> Ht.	-50.691sft	0.033sft		
		<input type="checkbox"/> Elev.	-50.513sft	0.075sft		
		Dist.	12804.079sft	0.024sft		
4243	4211	Az.	273°39'31.8659"	0°00'00.2901"	1:715470	1:715470
		<input type="checkbox"/> Ht.	13.106sft	0.033sft		
		<input type="checkbox"/> Elev.	12.934sft	0.055sft		
		Dist.	16052.088sft	0.022sft		
4243	4212	Az.	82°46'27.9937"	0°00'00.2971"	1:697928	1:697928
		<input type="checkbox"/> Ht.	7.782sft	0.030sft		
		<input type="checkbox"/> Elev.	7.854sft	0.055sft		
		Dist.	14507.862sft	0.021sft		

4243	4309	Az.	185°50'22.0037"	0°00'00.7780"	1:261517	1:261517
		<input type="checkbox"/> Ht.	-57.053sft	0.027sft		
		<input type="checkbox"/> Elev.	-56.966sft	0.055sft		
		Dist.	6561.855sft	0.025sft		
4243	4223	Az.	205°14'51.6454"	0°00'00.5125"	1:401068	1:401068
		<input type="checkbox"/> Ht.	20.637sft	0.028sft		
		<input type="checkbox"/> Elev.	20.714sft	0.055sft		
		Dist.	9422.671sft	0.023sft		
4061	4087	Az.	97°13'49.0143"	0°00'00.2612"	1:791232	1:791232
		<input type="checkbox"/> Ht.	-154.665sft	0.044sft		
		<input type="checkbox"/> Elev.	-154.680sft	0.000sft		
		Dist.	21527.939sft	0.027sft		
4061	4106	Az.	124°50'30.5829"	0°00'00.0000"	1:0	1:0
		<input type="checkbox"/> Ht.	5.014sft	0.047sft		
		<input type="checkbox"/> Elev.	5.190sft	0.000sft		
		Dist.	22507.654sft	0.000sft		
4061	4001	Az.	48°57'16.2042"	0°00'00.3048"	1:681038	1:681038
		<input type="checkbox"/> Ht.	-143.597sft	0.046sft		
		<input type="checkbox"/> Elev.	-143.900sft	0.000sft		
		Dist.	22505.538sft	0.033sft		
4087	4010	Az.	81°17'17.9078"	0°00'00.5823"	1:354992	1:354992
		<input type="checkbox"/> Ht.	-13.979sft	0.033sft		
		<input type="checkbox"/> Elev.	-14.010sft	0.000sft		
		Dist.	10748.802sft	0.030sft		
4225	4226	Az.	81°03'13.9750"	0°00'00.3649"	1:572312	1:572312
		<input type="checkbox"/> Ht.	-156.793sft	0.038sft		
		<input type="checkbox"/> Elev.	-156.763sft	0.083sft		
		Dist.	16287.372sft	0.028sft		
4225	4010	Az.	1°41'29.0078"	0°00'00.3618"	1:568448	1:568448
		<input type="checkbox"/> Ht.	-146.757sft	0.039sft		
		<input type="checkbox"/> Elev.	-147.092sft	0.068sft		
		Dist.	15963.947sft	0.028sft		
4225	4106	Az.	287°47'23.7398"	0°00'00.3666"	1:563968	1:563968
		<input type="checkbox"/> Ht.	26.902sft	0.034sft		
		<input type="checkbox"/> Elev.	26.788sft	0.068sft		
		Dist.	13707.416sft	0.024sft		

4225	4234	Az.	179°58'31.4998"	0°00'00.3637"	1:562432	1:562432
		<input type="checkbox"/> Ht.	-16.234sft	0.039sft		
		<input type="checkbox"/> Elev.	-15.905sft	0.083sft		
		Dist.	15910.779sft	0.028sft		
4048	4228	Az.	173°32'39.7757"	0°00'00.3905"	1:524530	1:524530
		<input type="checkbox"/> Ht.	-31.600sft	0.042sft		
		<input type="checkbox"/> Elev.	-31.221sft	0.071sft		
		Dist.	16017.605sft	0.031sft		
4048	4203	Az.	270°13'14.0717"	0°00'00.5882"	1:353896	1:353896
		<input type="checkbox"/> Ht.	27.061sft	0.036sft		
		<input type="checkbox"/> Elev.	26.960sft	0.000sft		
		Dist.	11399.102sft	0.032sft		
4048	4204	Az.	90°54'16.7483"	0°00'00.3780"	1:552511	1:552511
		<input type="checkbox"/> Ht.	-13.286sft	0.044sft		
		<input type="checkbox"/> Elev.	-13.000sft	0.000sft		
		Dist.	17740.060sft	0.032sft		
4228	4220	Az.	251°02'34.5527"	0°00'00.3596"	1:574988	1:574988
		<input type="checkbox"/> Ht.	-108.689sft	0.039sft		
		<input type="checkbox"/> Elev.	-108.739sft	0.071sft		
		Dist.	16694.540sft	0.029sft		
4228	4232	Az.	180°08'09.1447"	0°00'00.3635"	1:563089	1:563089
		<input type="checkbox"/> Ht.	-26.515sft	0.039sft		
		<input type="checkbox"/> Elev.	-26.239sft	0.084sft		
		Dist.	15452.761sft	0.027sft		
4241	25	Az.	70°38'59.3467"	0°00'00.3740"	1:550457	1:550457
		<input type="checkbox"/> Ht.	40.053sft	0.037sft		
		<input type="checkbox"/> Elev.	40.233sft	0.072sft		
		Dist.	15988.927sft	0.029sft		
4241	34	Az.	110°00'49.3248"	0°00'00.3830"	1:545915	1:545915
		<input type="checkbox"/> Ht.	-45.389sft	0.039sft		
		<input type="checkbox"/> Elev.	-45.177sft	0.072sft		
		Dist.	15750.900sft	0.029sft		
4211	4244	Az.	279°31'57.0887"	0°00'00.3756"	1:552878	1:552878
		<input type="checkbox"/> Ht.	14.895sft	0.039sft		
		<input type="checkbox"/> Elev.	14.759sft	0.072sft		
		Dist.	16044.271sft	0.029sft		

4211	4239	Az.	355°02'29.5958"	0°00'00.4051"	1:504915	1:504915
		<input type="checkbox"/> Ht.	31.104sft	0.044sft		
		<input type="checkbox"/> Elev.	30.906sft	0.076sft		
		Dist.	16796.556sft	0.033sft		
4211	4223	Az.	128°27'54.9008"	0°00'00.3157"	1:653683	1:653683
		<input type="checkbox"/> Ht.	7.531sft	0.035sft		
		<input type="checkbox"/> Elev.	7.780sft	0.000sft		
		Dist.	15334.627sft	0.023sft		
4211	4264	Az.	99°48'00.6575"	0°00'00.3007"	1:691613	1:691613
		<input type="checkbox"/> Ht.	-18.712sft	0.035sft		
		<input type="checkbox"/> Elev.	-18.517sft	0.052sft		
		Dist.	16078.746sft	0.023sft		
4211	4250	Az.	180°11'44.8597"	0°00'00.3924"	1:522088	1:522088
		<input type="checkbox"/> Ht.	17.572sft	0.040sft		
		<input type="checkbox"/> Elev.	17.756sft	0.067sft		
		Dist.	15396.120sft	0.029sft		
4226	4227	Az.	112°59'38.7297"	0°00'00.3632"	1:578764	1:578764
		<input type="checkbox"/> Ht.	-2.210sft	0.042sft		
		<input type="checkbox"/> Elev.	-1.938sft	0.085sft		
		Dist.	16995.633sft	0.029sft		
4226	4202	Az.	354°32'16.2373"	0°00'00.4911"	1:414684	1:414684
		<input type="checkbox"/> Ht.	91.790sft	0.037sft		
		<input type="checkbox"/> Elev.	91.490sft	0.069sft		
		Dist.	12637.508sft	0.030sft		
4226	4207	Az.	180°42'26.1094"	0°00'00.3284"	1:612765	1:612765
		<input type="checkbox"/> Ht.	132.911sft	0.044sft		
		<input type="checkbox"/> Elev.	133.290sft	0.069sft		
		Dist.	18576.495sft	0.030sft		
4220	4227	Az.	275°05'40.0697"	0°00'00.3727"	1:564018	1:564018
		<input type="checkbox"/> Ht.	6.053sft	0.040sft		
		<input type="checkbox"/> Elev.	5.891sft	0.072sft		
		Dist.	16465.236sft	0.029sft		
4220	4203	Az.	6°52'05.4143"	0°00'00.2928"	1:688348	1:688348
		<input type="checkbox"/> Ht.	167.350sft	0.048sft		
		<input type="checkbox"/> Elev.	166.920sft	0.000sft		
		Dist.	21540.637sft	0.031sft		

4220	4307	Az.	218°57'56.4291"	0°00'02.4364"	1:84248	1:84248
		<input type="checkbox"/> Ht.	-6.814sft	0.025sft		
		<input type="checkbox"/> Elev.	-6.750sft	0.000sft		
		Dist.	2682.448sft	0.032sft		
4220	4206	Az.	180°59'35.1993"	0°00'00.5360"	1:382480	1:382480
		<input type="checkbox"/> Ht.	65.238sft	0.030sft		
		<input type="checkbox"/> Elev.	65.460sft	0.000sft		
		Dist.	10056.820sft	0.026sft		
14	4311	Az.	208°15'36.8439"	0°00'00.6822"	1:296691	1:296691
		<input type="checkbox"/> Ht.	-125.597sft	0.036sft		
		<input type="checkbox"/> Elev.	-125.490sft	0.000sft		
		Dist.	10441.266sft	0.035sft		
14	4230	Az.	269°32'24.3694"	0°00'00.4110"	1:508535	1:508535
		<input type="checkbox"/> Ht.	-71.048sft	0.041sft		
		<input type="checkbox"/> Elev.	-71.275sft	0.062sft		
		Dist.	16145.808sft	0.032sft		
14	1	Az.	357°42'07.5144"	0°00'00.6222"	1:326618	1:326618
		<input type="checkbox"/> Ht.	-80.343sft	0.037sft		
		<input type="checkbox"/> Elev.	-80.550sft	0.000sft		
		Dist.	10571.084sft	0.032sft		
4311	24	Az.	159°50'06.8743"	0°00'00.5472"	1:374774	1:374774
		<input type="checkbox"/> Ht.	21.470sft	0.042sft		
		<input type="checkbox"/> Elev.	21.680sft	0.000sft		
		Dist.	13289.707sft	0.035sft		
4240	4212	Az.	185°31'15.6725"	0°00'00.4163"	1:494768	1:494768
		<input type="checkbox"/> Ht.	11.621sft	0.043sft		
		<input type="checkbox"/> Elev.	11.798sft	0.073sft		
		Dist.	16282.829sft	0.033sft		
4029	4227	Az.	180°50'26.2838"	0°00'00.3158"	1:629371	1:629371
		<input type="checkbox"/> Ht.	-180.966sft	0.046sft		
		<input type="checkbox"/> Elev.	-180.479sft	0.072sft		
		Dist.	20002.726sft	0.032sft		
4029	4203	Az.	90°11'42.1068"	0°00'00.3807"	1:570012	1:570012
		<input type="checkbox"/> Ht.	-19.670sft	0.044sft		
		<input type="checkbox"/> Elev.	-19.450sft	0.000sft		
		Dist.	18669.071sft	0.033sft		

4029	4202	Az.	267°25'35.2897"	0°00'00.4003"	1:530185	1:530185
		<input type="checkbox"/> Ht.	-86.967sft	0.041sft		
		<input type="checkbox"/> Elev.	-87.050sft	0.000sft		
		Dist.	17145.865sft	0.032sft		
4227	4233	Az.	178°59'11.6886"	0°00'00.5012"	1:407472	1:407472
		<input type="checkbox"/> Ht.	14.170sft	0.036sft		
		<input type="checkbox"/> Elev.	14.405sft	0.079sft		
		Dist.	11811.208sft	0.029sft		
4068	4230	Az.	176°57'44.3916"	0°00'00.5677"	1:352369	1:352369
		<input type="checkbox"/> Ht.	-55.335sft	0.043sft		
		<input type="checkbox"/> Elev.	-55.135sft	0.062sft		
		Dist.	10720.730sft	0.030sft		
4068	1	Az.	90°00'28.6627"	0°00'00.4143"	1:509838	1:509838
		<input type="checkbox"/> Ht.	-64.630sft	0.047sft		
		<input type="checkbox"/> Elev.	-64.410sft	0.000sft		
		Dist.	16281.916sft	0.032sft		
4068	4204	Az.	270°00'53.1018"	0°00'00.4131"	1:509554	1:509554
		<input type="checkbox"/> Ht.	26.141sft	0.043sft		
		<input type="checkbox"/> Elev.	25.960sft	0.000sft		
		Dist.	15332.978sft	0.030sft		
4230	4204	Az.	303°57'43.9552"	0°00'00.3193"	1:644475	1:644475
		<input type="checkbox"/> Ht.	81.476sft	0.051sft		
		<input type="checkbox"/> Elev.	81.095sft	0.062sft		
		Dist.	19171.350sft	0.030sft		
4212	4252	Az.	174°48'43.5974"	0°00'00.2964"	1:693816	1:693816
		<input type="checkbox"/> Ht.	8.444sft	0.035sft		
		<input type="checkbox"/> Elev.	8.660sft	0.070sft		
		Dist.	15671.649sft	0.023sft		
4212	4264	Az.	256°20'56.5832"	0°00'00.3283"	1:633469	1:633469
		<input type="checkbox"/> Ht.	-13.388sft	0.033sft		
		<input type="checkbox"/> Elev.	-13.437sft	0.052sft		
		Dist.	14995.540sft	0.024sft		
4010	4001	Az.	316°38'39.2200"	0°00'00.3090"	1:662820	1:662820
		<input type="checkbox"/> Ht.	25.047sft	0.049sft		
		<input type="checkbox"/> Elev.	24.790sft	0.000sft		
		Dist.	21827.199sft	0.033sft		

4010	4202	Az.	93°21'27.4219"	0°00'00.4544"	1:456969	1:456969
		<input type="checkbox"/> Ht.	81.753sft	0.038sft		
		<input type="checkbox"/> Elev.	81.820sft	0.000sft		
		Dist.	14431.210sft	0.032sft		
1	4312	Az.	81°02'30.4210"	0°00'00.1330"	1:1574745	1:1574745
		<input type="checkbox"/> Ht.	29.219sft	0.080sft		
		<input type="checkbox"/> Elev.	29.890sft	0.000sft		
		Dist.	50953.274sft	0.032sft		
4312	24	Az.	231°29'49.7585"	0°00'00.0979"	1:2063545	1:2063545
		<input type="checkbox"/> Ht.	-53.003sft	0.097sft		
		<input type="checkbox"/> Elev.	-53.150sft	0.000sft		
		Dist.	64349.867sft	0.031sft		
4232	4206	Az.	269°54'24.9349"	0°00'00.3671"	1:564967	1:564967
		<input type="checkbox"/> Ht.	-16.935sft	0.037sft		
		<input type="checkbox"/> Elev.	-17.040sft	0.070sft		
		Dist.	15933.520sft	0.028sft		
25	24	Az.	1°38'38.3280"	0°00'00.6477"	1:311211	1:311211
		<input type="checkbox"/> Ht.	-114.932sft	0.038sft		
		<input type="checkbox"/> Elev.	-115.100sft	0.000sft		
		Dist.	10342.172sft	0.033sft		
25	34	Az.	181°34'10.6412"	0°00'00.5884"	1:347926	1:347926
		<input type="checkbox"/> Ht.	-85.441sft	0.035sft		
		<input type="checkbox"/> Elev.	-85.410sft	0.000sft		
		Dist.	10692.275sft	0.031sft		
4307	4206	Az.	169°14'58.1834"	0°00'00.8070"	1:255055	1:255055
		<input type="checkbox"/> Ht.	72.053sft	0.031sft		
		<input type="checkbox"/> Elev.	72.210sft	0.000sft		
		Dist.	8111.911sft	0.032sft		
4208	4235	Az.	180°54'15.7211"	0°00'00.4447"	1:463350	1:463350
		<input type="checkbox"/> Ht.	-106.751sft	0.037sft		
		<input type="checkbox"/> Elev.	-106.514sft	0.072sft		
		Dist.	13515.863sft	0.029sft		
4208	4234	Az.	91°38'49.2503"	0°00'00.3868"	1:534368	1:534368
		<input type="checkbox"/> Ht.	-9.604sft	0.038sft		
		<input type="checkbox"/> Elev.	-9.543sft	0.071sft		
		Dist.	16011.933sft	0.030sft		

3217	3492	Az.	259°56'46.3265"	0°00'00.0662"	1:3125701	1:3125701
		<input type="checkbox"/> Ht.	-40.431sft	0.142sft		
		<input type="checkbox"/> Elev.	-40.550sft	0.000sft		
		Dist.	97322.600sft	0.031sft		
3217	3423	Az.	94°12'23.0403"	0°00'00.4036"	1:513485	1:513485
		<input type="checkbox"/> Ht.	-16.081sft	0.040sft		
		<input type="checkbox"/> Elev.	-16.030sft	0.000sft		
		Dist.	15850.256sft	0.031sft		
3217	4256	Az.	359°52'04.7592"	0°00'00.3733"	1:549613	1:549613
		<input type="checkbox"/> Ht.	-55.722sft	0.041sft		
		<input type="checkbox"/> Elev.	-55.800sft	0.072sft		
		Dist.	16022.425sft	0.029sft		
3492	4216	Az.	61°56'42.9102"	0°00'00.0563"	1:3674101	1:3674101
		<input type="checkbox"/> Ht.	-23.999sft	0.152sft		
		<input type="checkbox"/> Elev.	-24.030sft	0.000sft		
		Dist.	107761.551sft	0.029sft		
3492	3218	Az.	82°07'26.9292"	0°00'00.0490"	1:4229896	1:4229896
		<input type="checkbox"/> Ht.	-36.386sft	0.186sft		
		<input type="checkbox"/> Elev.	-36.040sft	0.000sft		
		Dist.	128665.884sft	0.030sft		
3492	4256	Az.	70°45'10.8603"	0°00'00.0579"	1:3569853	1:3569853
		<input type="checkbox"/> Ht.	-15.291sft	0.144sft		
		<input type="checkbox"/> Elev.	-15.250sft	0.072sft		
		Dist.	101320.117sft	0.028sft		
4248	4247	Az.	259°17'56.4349"	0°00'00.4364"	1:475783	1:475783
		<input type="checkbox"/> Ht.	8.146sft	0.040sft		
		<input type="checkbox"/> Elev.	8.073sft	0.086sft		
		Dist.	15443.360sft	0.032sft		
4248	4215	Az.	180°00'16.9661"	0°00'00.5121"	1:400086	1:400086
		<input type="checkbox"/> Ht.	-70.202sft	0.041sft		
		<input type="checkbox"/> Elev.	-70.106sft	0.070sft		
		Dist.	13739.671sft	0.034sft		
4248	4249	Az.	101°25'00.5451"	0°00'00.4246"	1:490996	1:490996
		<input type="checkbox"/> Ht.	-4.322sft	0.042sft		
		<input type="checkbox"/> Elev.	-4.171sft	0.088sft		
		Dist.	16157.175sft	0.033sft		

4247	4245	Az.	357°22'33.5997"	0°00'00.3767"	1:544600	1:544600
		<input type="checkbox"/> Ht.	-1.796sft	0.042sft		
		<input type="checkbox"/> Elev.	-1.906sft	0.087sft		
		Dist.	16658.207sft	0.031sft		
4247	4304	Az.	183°10'43.1266"	0°00'00.2968"	1:686388	1:686388
		<input type="checkbox"/> Ht.	-48.123sft	0.048sft		
		<input type="checkbox"/> Elev.	-48.050sft	0.075sft		
		Dist.	21477.821sft	0.031sft		
4247	4246	Az.	270°23'50.3320"	0°00'00.3891"	1:532405	1:532405
		<input type="checkbox"/> Ht.	-29.859sft	0.039sft		
		<input type="checkbox"/> Elev.	-29.943sft	0.087sft		
		Dist.	15995.628sft	0.030sft		
4259	3438	Az.	185°30'33.5080"	0°00'00.3443"	1:588889	1:588889
		<input type="checkbox"/> Ht.	46.026sft	0.041sft		
		<input type="checkbox"/> Elev.	46.087sft	0.076sft		
		Dist.	17032.940sft	0.029sft		
4259	4260	Az.	89°55'06.6096"	0°00'00.3736"	1:558108	1:558108
		<input type="checkbox"/> Ht.	27.811sft	0.037sft		
		<input type="checkbox"/> Elev.	28.020sft	0.085sft		
		Dist.	15444.663sft	0.028sft		
4259	4258	Az.	279°54'04.9916"	0°00'00.3783"	1:555032	1:555032
		<input type="checkbox"/> Ht.	70.168sft	0.041sft		
		<input type="checkbox"/> Elev.	69.935sft	0.086sft		
		Dist.	16720.884sft	0.030sft		
4259	4255	Az.	358°24'56.4007"	0°00'00.3383"	1:603043	1:603043
		<input type="checkbox"/> Ht.	-61.809sft	0.045sft		
		<input type="checkbox"/> Elev.	-61.942sft	0.090sft		
		Dist.	18971.992sft	0.031sft		
3438	3219	Az.	85°57'58.3061"	0°00'00.3115"	1:670110	1:670110
		<input type="checkbox"/> Ht.	-8.730sft	0.038sft		
		<input type="checkbox"/> Elev.	-8.490sft	0.000sft		
		Dist.	17981.658sft	0.027sft		
3438	3218	Az.	274°54'04.0172"	0°00'00.4389"	1:478965	1:478965
		<input type="checkbox"/> Ht.	-13.515sft	0.039sft		
		<input type="checkbox"/> Elev.	-13.780sft	0.000sft		
		Dist.	14819.526sft	0.031sft		

3438	4310	Az.	80°55'46.7648"	0°00'00.3127"	1:663413	1:663413
		<input type="checkbox"/> Ht.	-67.570sft	0.033sft		
		<input type="checkbox"/> Elev.	-67.350sft	0.000sft		
		Dist.	15777.935sft	0.024sft		
3219	4260	Az.	356°54'59.5661"	0°00'00.3543"	1:575639	1:575639
		<input type="checkbox"/> Ht.	-9.485sft	0.038sft		
		<input type="checkbox"/> Elev.	-9.576sft	0.070sft		
		Dist.	15735.909sft	0.027sft		
3219	3456	Az.	89°58'45.6455"	0°00'00.4884"	1:426811	1:426811
		<input type="checkbox"/> Ht.	-24.510sft	0.038sft		
		<input type="checkbox"/> Elev.	-24.330sft	0.000sft		
		Dist.	13490.291sft	0.032sft		
3219	4310	Az.	297°27'41.3498"	0°00'02.1291"	1:98963	1:98963
		<input type="checkbox"/> Ht.	-58.840sft	0.024sft		
		<input type="checkbox"/> Elev.	-58.860sft	0.000sft		
		Dist.	2654.672sft	0.027sft		
4262	2101	Az.	184°22'52.8076"	0°00'00.3550"	1:578476	1:578476
		<input type="checkbox"/> Ht.	-128.621sft	0.041sft		
		<input type="checkbox"/> Elev.	-128.503sft	0.069sft		
		Dist.	16361.277sft	0.028sft		
4262	4261	Az.	267°46'47.8199"	0°00'00.3744"	1:552633	1:552633
		<input type="checkbox"/> Ht.	-51.350sft	0.039sft		
		<input type="checkbox"/> Elev.	-51.459sft	0.083sft		
		Dist.	15924.708sft	0.029sft		
4262	2102	Az.	135°00'40.6767"	0°00'00.2440"	1:851124	1:851124
		<input type="checkbox"/> Ht.	-93.414sft	0.050sft		
		<input type="checkbox"/> Elev.	-93.123sft	0.069sft		
		Dist.	22916.983sft	0.027sft		
4262	4213	Az.	3°24'54.8916"	0°00'00.4266"	1:483006	1:483006
		<input type="checkbox"/> Ht.	-24.314sft	0.040sft		
		<input type="checkbox"/> Elev.	-24.463sft	0.069sft		
		Dist.	14964.715sft	0.031sft		
2101	4263	Az.	52°53'45.3635"	0°00'00.2744"	1:747721	1:747721
		<input type="checkbox"/> Ht.	87.521sft	0.045sft		
		<input type="checkbox"/> Elev.	87.576sft	0.069sft		
		Dist.	22156.019sft	0.030sft		

2101	3456	Az.	269°29'20.1945"	0°00'00.3795"	1:546190	1:546190
		<input type="checkbox"/> Ht.	95.954sft	0.043sft		
		<input type="checkbox"/> Elev.	95.810sft	0.000sft		
		Dist.	17081.936sft	0.031sft		
2101	2102	Az.	89°39'02.0573"	0°00'00.3088"	1:670859	1:670859
		<input type="checkbox"/> Ht.	35.207sft	0.039sft		
		<input type="checkbox"/> Elev.	35.380sft	0.000sft		
		Dist.	17451.783sft	0.026sft		
64	65	Az.	181°41'37.6729"	0°00'00.6532"	1:315436	1:315436
		<input type="checkbox"/> Ht.	-6.885sft	0.036sft		
		<input type="checkbox"/> Elev.	-6.800sft	0.000sft		
		Dist.	10614.037sft	0.034sft		
64	4263	Az.	279°20'32.0731"	0°00'00.3972"	1:519908	1:519908
		<input type="checkbox"/> Ht.	66.974sft	0.039sft		
		<input type="checkbox"/> Elev.	66.786sft	0.069sft		
		Dist.	16047.074sft	0.031sft		
64	55	Az.	1°29'44.3542"	0°00'00.6482"	1:317401	1:317401
		<input type="checkbox"/> Ht.	8.329sft	0.036sft		
		<input type="checkbox"/> Elev.	8.190sft	0.000sft		
		Dist.	10549.293sft	0.033sft		
65	2102	Az.	269°50'10.2682"	0°00'00.4430"	1:465993	1:465993
		<input type="checkbox"/> Ht.	21.546sft	0.039sft		
		<input type="checkbox"/> Elev.	21.390sft	0.000sft		
		Dist.	15758.221sft	0.034sft		
45	54	Az.	179°18'56.5970"	0°00'00.6684"	1:308325	1:308325
		<input type="checkbox"/> Ht.	-71.481sft	0.037sft		
		<input type="checkbox"/> Elev.	-71.340sft	0.000sft		
		Dist.	10747.814sft	0.035sft		
45	4253	Az.	290°29'46.1530"	0°00'00.3684"	1:562195	1:562195
		<input type="checkbox"/> Ht.	42.055sft	0.039sft		
		<input type="checkbox"/> Elev.	41.864sft	0.072sft		
		Dist.	16736.041sft	0.030sft		
45	44	Az.	0°30'58.2853"	0°00'00.6090"	1:337978	1:337978
		<input type="checkbox"/> Ht.	56.778sft	0.034sft		
		<input type="checkbox"/> Elev.	56.670sft	0.000sft		
		Dist.	10554.228sft	0.031sft		

54	55	Az.	171°39'14.6923"	0°00'00.6362"	1:324131	1:324131
		<input type="checkbox"/> Ht.	27.116sft	0.037sft		
		<input type="checkbox"/> Elev.	27.240sft	0.000sft		
		Dist.	11299.062sft	0.035sft		
4235	4236	Az.	98°05'17.9301"	0°00'00.3776"	1:547148	1:547148
		<input type="checkbox"/> Ht.	0.837sft	0.039sft		
		<input type="checkbox"/> Elev.	0.935sft	0.089sft		
		Dist.	16405.999sft	0.030sft		
4235	4209	Az.	179°47'53.8133"	0°00'00.3500"	1:588301	1:588301
		<input type="checkbox"/> Ht.	114.467sft	0.044sft		
		<input type="checkbox"/> Elev.	114.704sft	0.072sft		
		Dist.	18401.673sft	0.031sft		
4260	4261	Az.	89°30'29.8480"	0°00'00.3756"	1:558834	1:558834
		<input type="checkbox"/> Ht.	-33.708sft	0.042sft		
		<input type="checkbox"/> Elev.	-33.519sft	0.084sft		
		Dist.	16734.450sft	0.030sft		
4260	4310	Az.	185°56'39.1027"	0°00'00.3918"	1:520420	1:520420
		<input type="checkbox"/> Ht.	-49.355sft	0.037sft		
		<input type="checkbox"/> Elev.	-49.284sft	0.070sft		
		Dist.	14567.298sft	0.028sft		
4260	4214	Az.	359°48'51.4559"	0°00'00.3595"	1:565898	1:565898
		<input type="checkbox"/> Ht.	-22.563sft	0.045sft		
		<input type="checkbox"/> Elev.	-22.744sft	0.070sft		
		Dist.	17948.537sft	0.032sft		
4263	4254	Az.	347°04'00.6688"	0°00'00.3909"	1:526765	1:526765
		<input type="checkbox"/> Ht.	23.085sft	0.043sft		
		<input type="checkbox"/> Elev.	22.886sft	0.083sft		
		Dist.	16352.010sft	0.031sft		
4263	2102	Az.	180°59'18.6125"	0°00'00.4202"	1:489847	1:489847
		<input type="checkbox"/> Ht.	-52.313sft	0.037sft		
		<input type="checkbox"/> Elev.	-52.196sft	0.069sft		
		Dist.	13261.314sft	0.027sft		
4253	4254	Az.	186°37'55.0961"	0°00'00.3259"	1:630822	1:630822
		<input type="checkbox"/> Ht.	-4.689sft	0.046sft		
		<input type="checkbox"/> Elev.	-4.481sft	0.090sft		
		Dist.	19923.682sft	0.032sft		

4253	4252	Az.	268°58'40.8128"	0°00'00.3765"	1:548957	1:548957
		<input type="checkbox"/> Ht.	30.739sft	0.037sft		
		<input type="checkbox"/> Elev.	30.616sft	0.083sft		
		Dist.	15933.999sft	0.029sft		
4253	44	Az.	73°23'18.5310"	0°00'00.3581"	1:574349	1:574349
		<input type="checkbox"/> Ht.	14.722sft	0.036sft		
		<input type="checkbox"/> Elev.	14.806sft	0.072sft		
		Dist.	16455.295sft	0.029sft		
4237	4210	Az.	180°35'51.4747"	0°00'00.4132"	1:488859	1:488859
		<input type="checkbox"/> Ht.	34.554sft	0.046sft		
		<input type="checkbox"/> Elev.	34.749sft	0.075sft		
		Dist.	16965.399sft	0.035sft		
4237	4207	Az.	0°04'50.7925"	0°00'00.4670"	1:437142	1:437142
		<input type="checkbox"/> Ht.	37.202sft	0.043sft		
		<input type="checkbox"/> Elev.	36.949sft	0.075sft		
		Dist.	14906.020sft	0.034sft		
4210	4245	Az.	273°49'34.7533"	0°00'00.4288"	1:487866	1:487866
		<input type="checkbox"/> Ht.	31.733sft	0.041sft		
		<input type="checkbox"/> Elev.	31.653sft	0.072sft		
		Dist.	15849.806sft	0.032sft		
4210	4244	Az.	83°31'47.5522"	0°00'00.4036"	1:517952	1:517952
		<input type="checkbox"/> Ht.	-13.203sft	0.040sft		
		<input type="checkbox"/> Elev.	-13.121sft	0.072sft		
		Dist.	16313.427sft	0.031sft		
4245	4236	Az.	0°30'43.2638"	0°00'00.4079"	1:502392	1:502392
		<input type="checkbox"/> Ht.	-117.746sft	0.041sft		
		<input type="checkbox"/> Elev.	-117.922sft	0.087sft		
		Dist.	15593.344sft	0.031sft		
4245	4209	Az.	268°15'11.8807"	0°00'00.3873"	1:534157	1:534157
		<input type="checkbox"/> Ht.	-4.117sft	0.038sft		
		<input type="checkbox"/> Elev.	-4.153sft	0.072sft		
		Dist.	16057.149sft	0.030sft		
4257	4304	Az.	354°50'12.1812"	0°00'00.5781"	1:354267	1:354267
		<input type="checkbox"/> Ht.	5.270sft	0.035sft		
		<input type="checkbox"/> Elev.	5.235sft	0.066sft		
		Dist.	10836.886sft	0.031sft		

4257	4258	Az.	83°22'20.2559"	0°00'00.3192"	1:651112	1:651112
		<input type="checkbox"/> Ht.	2.189sft	0.034sft		
		<input type="checkbox"/> Elev.	2.343sft	0.084sft		
		Dist.	15726.144sft	0.024sft		
4257	3423	Az.	180°32'26.2631"	0°00'00.3377"	1:608855	1:608855
		<input type="checkbox"/> Ht.	25.268sft	0.043sft		
		<input type="checkbox"/> Elev.	25.275sft	0.066sft		
		Dist.	18025.351sft	0.030sft		
4257	4256	Az.	267°02'06.1571"	0°00'00.3621"	1:572228	1:572228
		<input type="checkbox"/> Ht.	-14.374sft	0.037sft		
		<input type="checkbox"/> Elev.	-14.496sft	0.085sft		
		Dist.	16024.404sft	0.028sft		
4304	4216	Az.	290°03'50.6161"	0°00'00.3789"	1:553328	1:553328
		<input type="checkbox"/> Ht.	-28.352sft	0.040sft		
		<input type="checkbox"/> Elev.	-28.510sft	0.000sft		
		Dist.	16505.593sft	0.030sft		
4246	4216	Az.	182°28'49.8934"	0°00'00.4056"	1:505016	1:505016
		<input type="checkbox"/> Ht.	-46.616sft	0.042sft		
		<input type="checkbox"/> Elev.	-46.616sft	0.073sft		
		Dist.	15907.703sft	0.031sft		
4246	4209	Az.	357°02'42.2283"	0°00'00.4098"	1:501480	1:501480
		<input type="checkbox"/> Ht.	23.946sft	0.042sft		
		<input type="checkbox"/> Elev.	23.884sft	0.073sft		
		Dist.	16061.696sft	0.032sft		
4216	4256	Az.	178°22'58.0931"	0°00'00.3394"	1:598962	1:598962
		<input type="checkbox"/> Ht.	8.707sft	0.042sft		
		<input type="checkbox"/> Elev.	8.780sft	0.072sft		
		Dist.	17291.548sft	0.029sft		
4258	3218	Az.	179°44'24.1895"	0°00'00.3109"	1:658307	1:658307
		<input type="checkbox"/> Ht.	-37.658sft	0.042sft		
		<input type="checkbox"/> Elev.	-37.628sft	0.073sft		
		Dist.	18562.449sft	0.028sft		
4258	4215	Az.	359°22'45.8595"	0°00'00.3618"	1:563939	1:563939
		<input type="checkbox"/> Ht.	-27.144sft	0.047sft		
		<input type="checkbox"/> Elev.	-27.238sft	0.073sft		
		Dist.	19561.731sft	0.035sft		

4238	4244	Az.	191°46'30.8800"	0°00'00.4512"	1:455078	1:455078
		<input type="checkbox"/> Ht.	-26.627sft	0.040sft		
		<input type="checkbox"/> Elev.	-26.482sft	0.086sft		
		Dist.	14492.607sft	0.032sft		
4238	4233	Az.	349°52'14.0995"	0°00'00.4031"	1:509831	1:509831
		<input type="checkbox"/> Ht.	-131.726sft	0.043sft		
		<input type="checkbox"/> Elev.	-131.984sft	0.088sft		
		Dist.	16224.428sft	0.032sft		
4244	4233	Az.	0°11'26.1866"	0°00'00.1817"	1:1126279	1:1126279
		<input type="checkbox"/> Ht.	-105.099sft	0.057sft		
		<input type="checkbox"/> Elev.	-105.502sft	0.094sft		
		Dist.	30159.338sft	0.027sft		
4244	4249	Az.	180°52'39.6599"	0°00'00.3773"	1:534695	1:534695
		<input type="checkbox"/> Ht.	34.265sft	0.046sft		
		<input type="checkbox"/> Elev.	34.437sft	0.091sft		
		Dist.	17754.218sft	0.033sft		
4236	4234	Az.	359°56'56.7917"	0°00'00.4072"	1:504794	1:504794
		<input type="checkbox"/> Ht.	96.309sft	0.040sft		
		<input type="checkbox"/> Elev.	96.036sft	0.086sft		
		Dist.	15362.441sft	0.030sft		
3423	3218	Az.	85°24'09.7273"	0°00'00.3876"	1:533967	1:533967
		<input type="checkbox"/> Ht.	-60.736sft	0.038sft		
		<input type="checkbox"/> Elev.	-60.560sft	0.000sft		
		Dist.	15938.877sft	0.030sft		
4239	4206	Az.	6°10'57.9557"	0°00'00.4131"	1:491163	1:491163
		<input type="checkbox"/> Ht.	-76.294sft	0.044sft		
		<input type="checkbox"/> Elev.	-76.486sft	0.076sft		
		Dist.	16470.829sft	0.034sft		
4261	3456	Az.	188°38'16.3549"	0°00'00.3856"	1:530791	1:530791
		<input type="checkbox"/> Ht.	18.683sft	0.041sft		
		<input type="checkbox"/> Elev.	18.765sft	0.065sft		
		Dist.	16031.500sft	0.030sft		
4261	4222	Az.	0°51'17.5760"	0°00'00.6178"	1:333126	1:333126
		<input type="checkbox"/> Ht.	69.704sft	0.037sft		
		<input type="checkbox"/> Elev.	69.625sft	0.065sft		
		Dist.	10505.492sft	0.032sft		

4254	55	Az.	111°59'32.0241"	0°00'00.3096"	1:667505	1:667505
		<input type="checkbox"/> Ht.	-81.731sft	0.046sft		
		<input type="checkbox"/> Elev.	-81.482sft	0.072sft		
		Dist.	21316.399sft	0.032sft		
4252	4213	Az.	174°11'30.0430"	0°00'00.3652"	1:562719	1:562719
		<input type="checkbox"/> Ht.	-41.726sft	0.045sft		
		<input type="checkbox"/> Elev.	-41.520sft	0.070sft		
		Dist.	17635.994sft	0.031sft		
4252	4251	Az.	269°31'21.4607"	0°00'00.3321"	1:623560	1:623560
		<input type="checkbox"/> Ht.	-28.736sft	0.037sft		
		<input type="checkbox"/> Elev.	-28.858sft	0.080sft		
		Dist.	16813.969sft	0.027sft		
4233	4206	Az.	88°54'58.0802"	0°00'00.3736"	1:555553	1:555553
		<input type="checkbox"/> Ht.	45.015sft	0.038sft		
		<input type="checkbox"/> Elev.	45.163sft	0.071sft		
		Dist.	16027.911sft	0.029sft		
4233	4207	Az.	269°35'14.8017"	0°00'00.3793"	1:550846	1:550846
		<input type="checkbox"/> Ht.	120.951sft	0.039sft		
		<input type="checkbox"/> Elev.	120.823sft	0.071sft		
		Dist.	16091.829sft	0.029sft		
4234	4207	Az.	90°28'31.9774"	0°00'00.3972"	1:525294	1:525294
		<input type="checkbox"/> Ht.	-7.648sft	0.039sft		
		<input type="checkbox"/> Elev.	-7.567sft	0.071sft		
		Dist.	15866.411sft	0.030sft		
4309	4223	Az.	239°14'16.3399"	0°00'01.1588"	1:179940	1:179940
		<input type="checkbox"/> Ht.	77.690sft	0.022sft		
		<input type="checkbox"/> Elev.	77.680sft	0.000sft		
		Dist.	3900.164sft	0.022sft		
4309	4264	Az.	5°49'38.5922"	0°00'01.0712"	1:189980	1:189980
		<input type="checkbox"/> Ht.	51.448sft	0.027sft		
		<input type="checkbox"/> Elev.	51.383sft	0.052sft		
		Dist.	4829.560sft	0.025sft		
4309	4251	Az.	182°31'20.1581"	0°00'00.7291"	1:279563	1:279563
		<input type="checkbox"/> Ht.	44.544sft	0.029sft		
		<input type="checkbox"/> Elev.	44.622sft	0.055sft		
		Dist.	7412.607sft	0.027sft		

4223	4264	Az.	29°27'31.5913"	0°00'00.6288"	1:326651	1:326651
		<input type="checkbox"/> Ht.	-26.242sft	0.027sft		
		<input type="checkbox"/> Elev.	-26.297sft	0.052sft		
		Dist.	7809.704sft	0.024sft		
4223	4251	Az.	150°46'52.4099"	0°00'00.8404"	1:244016	1:244016
		<input type="checkbox"/> Ht.	-33.146sft	0.028sft		
		<input type="checkbox"/> Elev.	-33.058sft	0.055sft		
		Dist.	6198.892sft	0.025sft		
4222	4213	Az.	73°04'38.5530"	0°00'00.3831"	1:541945	1:541945
		<input type="checkbox"/> Ht.	-42.668sft	0.042sft		
		<input type="checkbox"/> Elev.	-42.630sft	0.000sft		
		Dist.	17390.060sft	0.032sft		
4222	4251	Az.	354°58'51.9984"	0°00'00.2854"	1:719522	1:719522
		<input type="checkbox"/> Ht.	-29.677sft	0.050sft		
		<input type="checkbox"/> Elev.	-29.968sft	0.055sft		
		Dist.	22541.980sft	0.031sft		
4255	4214	Az.	93°34'38.7419"	0°00'00.4146"	1:501997	1:501997
		<input type="checkbox"/> Ht.	67.056sft	0.040sft		
		<input type="checkbox"/> Elev.	67.218sft	0.075sft		
		Dist.	15930.349sft	0.032sft		
4255	4249	Az.	358°46'24.3587"	0°00'00.4816"	1:424124	1:424124
		<input type="checkbox"/> Ht.	170.713sft	0.041sft		
		<input type="checkbox"/> Elev.	170.574sft	0.086sft		
		Dist.	14004.642sft	0.033sft		
4214	4250	Az.	359°28'26.7766"	0°00'00.4613"	1:444136	1:444136
		<input type="checkbox"/> Ht.	72.070sft	0.041sft		
		<input type="checkbox"/> Elev.	71.916sft	0.067sft		
		Dist.	14705.793sft	0.033sft		
4250	4251	Az.	88°17'47.8312"	0°00'00.4070"	1:509422	1:509422
		<input type="checkbox"/> Ht.	-43.187sft	0.038sft		
		<input type="checkbox"/> Elev.	-43.034sft	0.080sft		
		Dist.	15094.792sft	0.030sft		