

Tama
County
Iowa

Countywide
G.P.S. Survey
Control Network

2007

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INTRODUCTION

In 2007, The Sidwell Company contracted with DC Inc. to complete a high accuracy GPS control survey in Tama County, Iowa for the purpose of establishing a county-wide survey control system and for future use in a county-wide GIS system.

Seventy (70) new control stations were added within Tama County along with, eight (8) existing Black Hawk County GPS control points, nine (9) existing Benton County GPS control points, five (5) existing Grundy County GPS control points, eight (8) existing Marshall County GPS control points and seven (7) existing Meskawki Settlement GPS control points were recovered and tied into the GPS network. Six (6) existing NSRS 2007 positions with first order vertical control were utilized in the survey. Additionally five (5) existing vertical control stations were included in the survey. A total of one hundred eighteen (118) points were measured and included in the network.

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, 70 new permanent monuments were set in Tama County for this survey by DC Inc. 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 5" 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. One existing USGS concrete monument position was utilized. A steel fence post with a plastic sleeve was placed as witness marker at each new permanent monument position.

DC Inc. 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 Tama 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

Five 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 May 14, 2007, through Thursday May 17, 2007. Vector data covering the north border points and some control was integrated into this survey from the Black Hawk County survey completed in April.

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 130 minutes, depending on the distance being measured and the geometry of the satellite constellation.

DATA ADJUSTMENT

A total of 459 vectors were observed and processed. Based on statistical indicators from the Trimble Geomatics Office processing software no vectors were flagged as outliers. After the removal of trivial vectors the final network is comprised of 118 stations and 228 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 1:140,836 to 1:4,641,181 with the 3 mile baselines falling in the 1:450,000 to 1:1,000,000 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 Pratt CBN (1045) 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 existing NSRS2007 stations fixed the precision of the adjustment degraded very little as compared to the unconstrained adjustment.

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 point Pratt CBN (1045). 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. New NSRS2007 horizontal data is being published for some of the surrounding County control points.

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 1:106,444 to 1:1,689,492, with the 3 mile baselines again falling in the 1:500,000 to 1:700,000 range. All of the processed data and error factors were computed using a 95% confidence level factor.

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 : TamaCoFinalAdj

User name	Gary Brown	Date & Time	11:37:16 AM 5/19/2007
Coordinate System	US State Plane 1983(NSRS2007)	Zone	Iowa North 1401
Project Datum	NAD 1983 (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 : 0.82

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

Degrees of Freedom : 405.00

GPS Observation Statistics

Reference Factor : 0.80

Redundancy Number (r) : 361.59

Geoid Model Statistics

Reference Factor : 1.00

Redundancy Number (r) : 43.41

Weighting Strategies

GPS Observations

User-defined Scalar Applied to All Observations

Scalar : 0.18

Geoid Observations

User-defined Scalar Applied to All Observations

Scalar : 0.35

Adjusted Coordinates

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

Number of Points : 118

Number of Constrained Points : 49

Elevation Only : 34

Horizontal and Elevation Only : 15

Adjusted Grid Coordinates

Errors are reported using 1.96σ .

Point Name	Northing	N error	Easting	E error	Elevation	e error	Fix
1025	3572957.766sft	0.000sft	5193201.594sft	0.000sft	994.748sft	0.000sft	N E e
1030	3549423.605sft	0.000sft	5183755.939sft	0.000sft	913.650sft	0.000sft	N E e
1026	3573083.153sft	0.000sft	5203858.273sft	0.000sft	978.055sft	0.000sft	N E e
1118	3574057.066sft	0.000sft	5214208.477sft	0.000sft	1001.786sft	0.000sft	N E e
1012	3524878.544sft	0.000sft	5141087.300sft	0.000sft	1040.770sft	0.000sft	N E e
1011	3533770.951sft	0.000sft	5130420.628sft	0.000sft	957.080sft	0.000sft	N E e
1024	3572837.985sft	0.000sft	5182692.790sft	0.000sft	1015.880sft	0.000sft	N E e
1027	3573369.118sft	0.000sft	5225077.581sft	0.000sft	959.475sft	0.000sft	N E e
1029	3573740.808sft	0.000sft	5246262.397sft	0.000sft	982.720sft	0.000sft	N E e
1028	3573577.269sft	0.000sft	5235660.402sft	0.000sft	924.156sft	0.000sft	N E e
1174	3557882.611sft	0.000sft	5235808.207sft	0.000sft	850.383sft	0.000sft	N E e
1032	3558087.592sft	0.000sft	5246349.900sft	0.000sft	844.690sft	0.000sft	N E e
1045	3542469.929sft	0.000sft	5270220.027sft	0.000sft	978.310sft	0.000sft	N E e
20	3556801.584sft	0.026sft	5151103.217sft	0.026sft	1058.799sft	0.096sft	
30	3556821.308sft	0.023sft	5166588.773sft	0.023sft	1017.905sft	0.093sft	
1013	3540518.630sft	0.022sft	5119720.426sft	0.022sft	982.300sft	0.000sft	e
1015	3556330.204sft	0.030sft	5118437.809sft	0.030sft	1059.170sft	0.000sft	e
1014	3545309.386sft	0.028sft	5122318.379sft	0.028sft	1046.660sft	0.000sft	e
39	3539954.452sft	0.017sft	5181948.327sft	0.017sft	1051.455sft	0.084sft	
1035	3526173.184sft	0.021sft	5247211.827sft	0.021sft	945.960sft	0.000sft	e

68	3528361.711sft	0.023sft	5230919.188sft	0.023sft	978.827sft	0.096sft	
58	3525730.028sft	0.025sft	5214991.882sft	0.025sft	931.679sft	0.097sft	
1019	3572414.794sft	0.029sft	5150886.890sft	0.029sft	973.220sft	0.000sft	e
71	3571700.303sft	0.033sft	5122107.367sft	0.033sft	1046.265sft	0.094sft	
50	3559911.397sft	0.018sft	5198043.080sft	0.018sft	989.700sft	0.085sft	
60	3559585.246sft	0.020sft	5214501.374sft	0.020sft	969.193sft	0.090sft	
70	3559501.931sft	0.023sft	5228355.565sft	0.023sft	875.728sft	0.075sft	
69	3541887.582sft	0.022sft	5231402.938sft	0.022sft	982.346sft	0.091sft	
1033	3542907.787sft	0.019sft	5246693.085sft	0.019sft	1013.150sft	0.000sft	e
48	3522798.895sft	0.023sft	5199037.490sft	0.023sft	970.810sft	0.093sft	
1020	3573100.444sft	0.025sft	5167354.053sft	0.025sft	1013.170sft	0.000sft	e
10	3559191.454sft	0.026sft	5135324.575sft	0.026sft	1045.261sft	0.085sft	
40	3556965.383sft	0.015sft	5181691.464sft	0.015sft	967.652sft	0.072sft	
521	3534151.423sft	0.029sft	5201843.606sft	0.029sft	962.840sft	0.000sft	e
19	3540863.022sft	0.027sft	5151628.366sft	0.027sft	1039.906sft	0.103sft	
59	3541625.484sft	0.024sft	5214958.918sft	0.024sft	974.891sft	0.096sft	
49	3541451.047sft	0.016sft	5198879.201sft	0.016sft	943.840sft	0.075sft	
9	3540708.844sft	0.023sft	5136478.447sft	0.023sft	1021.272sft	0.080sft	
29	3541002.701sft	0.023sft	5165743.513sft	0.023sft	1038.165sft	0.105sft	
1018	3572236.526sft	0.032sft	5135234.816sft	0.032sft	989.400sft	0.000sft	e
1007	3476906.078sft	0.032sft	5120597.770sft	0.032sft	846.010sft	0.000sft	e
1008	3492444.950sft	0.030sft	5120392.868sft	0.030sft	1007.550sft	0.000sft	e
38	3525212.159sft	0.031sft	5183396.548sft	0.031sft	958.096sft	0.110sft	
28	3525250.890sft	0.024sft	5167617.901sft	0.024sft	1001.883sft	0.114sft	
1010	3524660.884sft	0.021sft	5119815.840sft	0.021sft	1034.370sft	0.000sft	e
1009	3508856.638sft	0.028sft	5120184.125sft	0.028sft	1007.590sft	0.000sft	e
67	3510138.305sft	0.026sft	5231027.677sft	0.026sft	909.012sft	0.090sft	
57	3509893.150sft	0.030sft	5215924.836sft	0.029sft	918.101sft	0.088sft	
1037	3499208.938sft	0.029sft	5217091.540sft	0.029sft	865.280sft	0.000sft	e
56	3492546.458sft	0.031sft	5215604.220sft	0.031sft	884.937sft	0.078sft	
18	3525012.334sft	0.027sft	5151516.270sft	0.027sft	1022.895sft	0.093sft	
27	3509344.419sft	0.027sft	5167839.503sft	0.027sft	1013.066sft	0.121sft	

1036	3510310.905sft	0.027sft	5247440.905sft	0.027sft	932.110sft	0.000sft	e
1038	3494409.238sft	0.030sft	5247291.346sft	0.030sft	859.100sft	0.000sft	e
46	3492978.814sft	0.027sft	5199793.528sft	0.027sft	1024.896sft	0.108sft	
36	3496069.377sft	0.033sft	5185276.059sft	0.033sft	993.435sft	0.121sft	
16	3492918.575sft	0.034sft	5152119.895sft	0.034sft	940.021sft	0.111sft	
6	3492738.319sft	0.028sft	5135808.804sft	0.028sft	974.544sft	0.094sft	
17	3509730.173sft	0.032sft	5151881.012sft	0.032sft	1011.324sft	0.110sft	
37	3509393.362sft	0.033sft	5183579.188sft	0.033sft	1011.066sft	0.122sft	
47	3510122.117sft	0.026sft	5199315.544sft	0.026sft	996.184sft	0.107sft	
5	3476412.077sft	0.030sft	5135794.999sft	0.030sft	996.140sft	0.067sft	
8	3524887.223sft	0.018sft	5135705.041sft	0.018sft	1032.244sft	0.062sft	
66	3493957.257sft	0.027sft	5232401.746sft	0.027sft	955.526sft	0.087sft	
26	3493248.655sft	0.028sft	5166067.779sft	0.028sft	979.666sft	0.113sft	
7	3509021.983sft	0.026sft	5135532.824sft	0.026sft	945.566sft	0.091sft	
53	3446015.143sft	0.034sft	5216218.165sft	0.034sft	836.012sft	0.090sft	
43	3445543.700sft	0.028sft	5197631.335sft	0.028sft	799.350sft	0.000sft	e
25	3476296.993sft	0.027sft	5167143.128sft	0.027sft	853.926sft	0.064sft	
15	3476674.451sft	0.035sft	5152300.115sft	0.035sft	1018.344sft	0.088sft	
55	3477936.770sft	0.035sft	5215251.252sft	0.035sft	928.788sft	0.111sft	
45	3477242.980sft	0.029sft	5200136.054sft	0.029sft	1014.527sft	0.114sft	
2059	3472706.672sft	0.036sft	5165519.667sft	0.036sft	863.580sft	0.000sft	e
1006	3461135.963sft	0.030sft	5120883.619sft	0.030sft	965.730sft	0.000sft	e
2063	3453883.222sft	0.031sft	5173677.043sft	0.031sft	882.570sft	0.000sft	e
23	3443096.065sft	0.027sft	5168534.102sft	0.027sft	818.473sft	0.074sft	
63	3446767.340sft	0.027sft	5232702.997sft	0.027sft	980.663sft	0.089sft	
35	3477905.268sft	0.034sft	5183996.302sft	0.034sft	909.086sft	0.109sft	
54	3459836.443sft	0.035sft	5216952.476sft	0.035sft	1004.595sft	0.109sft	
44	3461097.648sft	0.029sft	5200384.096sft	0.029sft	944.506sft	0.102sft	
13	3446891.184sft	0.031sft	5152705.530sft	0.031sft	836.387sft	0.067sft	
1039	3478574.938sft	0.032sft	5249722.032sft	0.032sft	952.350sft	0.000sft	e
1040	3462771.942sft	0.030sft	5248599.175sft	0.030sft	929.540sft	0.000sft	e
1005	3445413.952sft	0.030sft	5119727.551sft	0.030sft	1010.780sft	0.000sft	e

4	3458666.258sft	0.028sft	5136811.004sft	0.028sft	838.881sft	0.057sft	
3	3445336.626sft	0.029sft	5136844.710sft	0.029sft	861.444sft	0.075sft	
33	3451476.661sft	0.031sft	5184311.385sft	0.031sft	829.246sft	0.080sft	
65	3479136.135sft	0.029sft	5231851.608sft	0.029sft	821.354sft	0.098sft	
24	3460917.860sft	0.027sft	5169152.874sft	0.027sft	842.125sft	0.061sft	
14	3463620.353sft	0.036sft	5152347.838sft	0.036sft	971.020sft	0.000sft	e
2023	3445131.252sft	0.036sft	5147416.772sft	0.036sft	932.550sft	0.000sft	e
64	3462543.899sft	0.029sft	5231871.235sft	0.029sft	890.274sft	0.099sft	
1054	3461743.989sft	0.034sft	5163429.455sft	0.034sft	896.420sft	0.000sft	e
2002	3471697.790sft	0.035sft	5134204.386sft	0.035sft	844.750sft	0.000sft	e
2001	3456260.712sft	0.037sft	5133712.104sft	0.036sft	862.600sft	0.000sft	e
34	3461939.834sft	0.034sft	5184062.145sft	0.034sft	934.835sft	0.093sft	
42	3430536.991sft	0.026sft	5200528.676sft	0.026sft	863.305sft	0.099sft	
1004	3428839.460sft	0.022sft	5121106.098sft	0.022sft	1012.910sft	0.000sft	e
1001	3408688.140sft	0.000sft	5116608.569sft	0.000sft	1030.410sft	0.000sft	N E e
22	3429974.762sft	0.026sft	5168836.926sft	0.026sft	940.436sft	0.057sft	
61	3416317.121sft	0.021sft	5232787.211sft	0.021sft	930.428sft	0.102sft	
51	3415236.361sft	0.022sft	5216612.566sft	0.022sft	824.367sft	0.118sft	
1	3414544.000sft	0.022sft	5137018.542sft	0.022sft	1004.837sft	0.103sft	
12	3429909.881sft	0.028sft	5152819.708sft	0.028sft	942.940sft	0.094sft	
52	3428754.336sft	0.024sft	5216441.355sft	0.024sft	873.182sft	0.084sft	
62	3430810.461sft	0.022sft	5232538.551sft	0.022sft	781.626sft	0.082sft	
32	3430874.247sft	0.029sft	5185861.574sft	0.029sft	983.024sft	0.099sft	
31	3414377.439sft	0.031sft	5185225.715sft	0.031sft	970.345sft	0.129sft	
2	3429903.030sft	0.024sft	5137002.760sft	0.024sft	922.367sft	0.092sft	
1042	3431324.528sft	0.023sft	5249559.704sft	0.023sft	786.530sft	0.000sft	e
1041	3447055.971sft	0.029sft	5249081.947sft	0.029sft	849.910sft	0.000sft	e
11	3414626.445sft	0.029sft	5152872.393sft	0.029sft	993.662sft	0.120sft	
509	3435497.833sft	0.025sft	5222050.727sft	0.025sft	786.100sft	0.000sft	e
1044	3403708.819sft	0.000sft	5251433.191sft	0.000sft	935.590sft	0.000sft	N E e
41	3414637.400sft	0.029sft	5200810.343sft	0.029sft	929.980sft	0.129sft	
21	3414221.409sft	0.031sft	5169066.220sft	0.031sft	976.484sft	0.121sft	

1002	3413781.568sft	0.023sft	5121104.567sft	0.023sft	992.800sft	0.000sft	e
2060	3432823.933sft	0.034sft	5168762.244sft	0.034sft	984.530sft	0.000sft	e

Adjusted Geodetic Coordinates

Errors are reported using 1.96 σ .

Point Name	Latitude	N error	Longitude	E error	Height	h error	Fix
1025	42°17'49.82425"N	0.000sft	92°29'41.15779"W	0.000sft	891.379sft	0.275sft	Lat Long e
1030	42°13'58.44190"N	0.000sft	92°31'50.42991"W	0.000sft	810.119sft	0.248sft	Lat Long e
1026	42°17'49.78653"N	0.000sft	92°27'19.34360"W	0.000sft	874.927sft	0.278sft	Lat Long e
1118	42°17'58.12022"N	0.000sft	92°25'01.46267"W	0.000sft	898.880sft	0.282sft	Lat Long e
1012	42°10'00.41830"N	0.000sft	92°41'20.72838"W	0.000sft	936.689sft	0.250sft	Lat Long e
1011	42°11'29.24697"N	0.000sft	92°43'41.28746"W	0.000sft	852.860sft	0.265sft	Lat Long e
1024	42°17'49.85159"N	0.000sft	92°32'01.00356"W	0.000sft	912.226sft	0.276sft	Lat Long e
1027	42°17'49.92387"N	0.000sft	92°22'36.96067"W	0.000sft	856.783sft	0.286sft	Lat Long e
1029	42°17'50.71831"N	0.000sft	92°17'55.02036"W	0.000sft	880.421sft	0.300sft	Lat Long e
1028	42°17'50.56697"N	0.000sft	92°20'16.11424"W	0.000sft	821.660sft	0.293sft	Lat Long e
1174	42°15'15.51816"N	0.000sft	92°20'17.01798"W	0.000sft	747.786sft	0.275sft	Lat Long e
1032	42°15'16.08765"N	0.000sft	92°17'56.81482"W	0.000sft	742.260sft	0.283sft	Lat Long e
1045	42°12'38.34997"N	0.000sft	92°12'42.60121"W	0.000sft	876.239sft	0.295sft	Lat Long e
20	42°15'14.79195"N	0.026sft	92°39'03.47611"W	0.026sft	954.616sft	0.268sft	
30	42°15'13.39870"N	0.023sft	92°35'37.56597"W	0.023sft	913.989sft	0.260sft	
1013	42°12'36.84366"N	0.022sft	92°46'02.64946"W	0.022sft	877.863sft	0.281sft	e
1015	42°15'13.14602"N	0.030sft	92°46'17.88230"W	0.030sft	954.651sft	0.296sft	e
1014	42°13'23.94472"N	0.028sft	92°45'27.56963"W	0.028sft	942.227sft	0.283sft	e
39	42°12'25.10848"N	0.017sft	92°32'15.88966"W	0.017sft	947.961sft	0.239sft	
1035	42°10'00.72352"N	0.021sft	92°17'51.39023"W	0.021sft	843.246sft	0.258sft	e
68	42°10'24.57344"N	0.023sft	92°21'27.32857"W	0.023sft	876.031sft	0.245sft	
58	42°10'00.64926"N	0.025sft	92°24'59.28096"W	0.025sft	828.766sft	0.234sft	
1019	42°17'49.04442"N	0.029sft	92°39'04.26802"W	0.029sft	868.935sft	0.287sft	e
71	42°17'44.66210"N	0.033sft	92°45'27.29375"W	0.033sft	941.685sft	0.310sft	
50	42°15'40.37831"N	0.018sft	92°28'38.83846"W	0.018sft	886.467sft	0.260sft	
60	42°15'35.13162"N	0.020sft	92°25'00.03310"W	0.020sft	866.279sft	0.264sft	
70	42°15'32.51346"N	0.023sft	92°21'55.82190"W	0.023sft	773.033sft	0.272sft	
69	42°12'38.11557"N	0.022sft	92°21'18.47219"W	0.022sft	879.633sft	0.256sft	
1033	42°12'46.09701"N	0.019sft	92°17'55.12015"W	0.019sft	910.603sft	0.270sft	e

48	42°09'33.66055"N	0.023sft	92°28'31.59624"W	0.023sft	867.703sft	0.226sft	
1020	42°17'54.12551"N	0.025sft	92°35'25.06097"W	0.025sft	909.193sft	0.280sft	e
10	42°15'39.91153"N	0.026sft	92°42'32.98611"W	0.026sft	940.849sft	0.283sft	
40	42°15'13.17336"N	0.015sft	92°32'16.73041"W	0.015sft	864.044sft	0.256sft	
521	42°11'25.46359"N	0.029sft	92°27'52.49483"W	0.029sft	859.889sft	0.236sft	e
19	42°12'37.29457"N	0.027sft	92°38'58.62520"W	0.027sft	935.842sft	0.253sft	
59	42°12'37.66814"N	0.024sft	92°24'57.01179"W	0.024sft	872.017sft	0.246sft	
49	42°12'37.92637"N	0.016sft	92°28'30.69571"W	0.016sft	840.749sft	0.240sft	
9	42°12'37.22749"N	0.023sft	92°42'19.95135"W	0.023sft	917.027sft	0.264sft	
29	42°12'37.22877"N	0.023sft	92°35'51.05059"W	0.023sft	934.329sft	0.245sft	
1018	42°17'48.78300"N	0.032sft	92°42'32.55663"W	0.032sft	884.912sft	0.298sft	e
1007	42°02'08.37752"N	0.032sft	92°45'58.32865"W	0.032sft	741.972sft	0.260sft	e
1008	42°04'41.89450"N	0.030sft	92°45'59.25713"W	0.030sft	903.528sft	0.259sft	e
38	42°09'59.31894"N	0.031sft	92°31'58.88822"W	0.031sft	854.679sft	0.228sft	
28	42°10'01.43077"N	0.024sft	92°35'28.39477"W	0.024sft	898.155sft	0.231sft	
1010	42°10'00.18628"N	0.021sft	92°46'03.20729"W	0.021sft	930.166sft	0.270sft	e
1009	42°07'24.03389"N	0.028sft	92°46'00.13736"W	0.028sft	903.517sft	0.263sft	e
67	42°07'24.55032"N	0.026sft	92°21'29.15681"W	0.026sft	806.067sft	0.236sft	
57	42°07'24.09478"N	0.030sft	92°24'49.59524"W	0.029sft	815.055sft	0.226sft	
1037	42°05'38.40812"N	0.029sft	92°24'35.94251"W	0.029sft	762.140sft	0.224sft	e
56	42°04'32.78526"N	0.031sft	92°24'56.80155"W	0.031sft	781.703sft	0.222sft	
18	42°10'00.72826"N	0.027sft	92°39'02.23087"W	0.027sft	918.922sft	0.242sft	
27	42°07'24.27973"N	0.027sft	92°35'27.72331"W	0.027sft	909.352sft	0.223sft	
1036	42°07'24.00716"N	0.027sft	92°17'51.34439"W	0.027sft	829.295sft	0.251sft	e
1038	42°04'46.95483"N	0.030sft	92°17'56.32652"W	0.030sft	756.078sft	0.248sft	e
46	42°04'39.00543"N	0.027sft	92°28'26.36387"W	0.027sft	921.511sft	0.215sft	
36	42°05'11.22959"N	0.033sft	92°31'38.38432"W	0.033sft	889.890sft	0.215sft	
16	42°04'43.63696"N	0.034sft	92°38'58.50273"W	0.034sft	836.082sft	0.229sft	
6	42°04'43.41996"N	0.028sft	92°42'34.80853"W	0.028sft	870.555sft	0.242sft	
17	42°07'29.73051"N	0.032sft	92°38'59.42844"W	0.032sft	907.411sft	0.233sft	
37	42°07'23.03805"N	0.033sft	92°31'58.86576"W	0.033sft	907.599sft	0.219sft	
47	42°07'28.40530"N	0.026sft	92°28'29.94540"W	0.026sft	892.963sft	0.220sft	
5	42°02'02.14482"N	0.030sft	92°42'37.01392"W	0.030sft	892.090sft	0.243sft	
8	42°10'01.00780"N	0.018sft	92°42'32.19537"W	0.018sft	928.125sft	0.254sft	
66	42°04'44.53212"N	0.027sft	92°21'13.83578"W	0.027sft	852.413sft	0.233sft	
26	42°04'45.46965"N	0.028sft	92°35'53.51091"W	0.028sft	875.845sft	0.220sft	

7	42°07'24.30129"N	0.026sft	92°42'36.45054"W	0.026sft	841.534sft	0.246sft	
53	41°56'53.07277"N	0.034sft	92°24'56.57471"W	0.034sft	732.010sft	0.240sft	
43	41°56'50.69661"N	0.028sft	92°29'02.59176"W	0.028sft	695.276sft	0.233sft	e
25	42°01'57.90383"N	0.027sft	92°35'41.65857"W	0.027sft	749.951sft	0.220sft	
15	42°02'03.15494"N	0.035sft	92°38'58.28002"W	0.035sft	914.320sft	0.230sft	
55	42°02'08.51580"N	0.035sft	92°25'03.96134"W	0.035sft	825.354sft	0.223sft	
45	42°02'03.52485"N	0.029sft	92°28'24.35597"W	0.029sft	910.954sft	0.217sft	
2059	42°01'22.60897"N	0.036sft	92°36'03.67540"W	0.036sft	759.548sft	0.223sft	e
1006	41°59'32.56937"N	0.030sft	92°45'56.35614"W	0.030sft	861.713sft	0.264sft	e
2063	41°58'15.79632"N	0.031sft	92°34'18.34522"W	0.031sft	778.435sft	0.228sft	e
23	41°56'29.79088"N	0.027sft	92°35'27.95793"W	0.027sft	714.236sft	0.237sft	
63	41°56'58.35588"N	0.027sft	92°21'18.31587"W	0.027sft	876.792sft	0.249sft	
35	42°02'11.94708"N	0.034sft	92°31'58.11142"W	0.034sft	805.339sft	0.216sft	
54	41°59'09.50571"N	0.035sft	92°24'44.50537"W	0.035sft	900.877sft	0.231sft	
44	41°59'24.01069"N	0.029sft	92°28'23.66775"W	0.029sft	840.684sft	0.223sft	
13	41°57'08.90736"N	0.031sft	92°38'56.88021"W	0.031sft	732.147sft	0.243sft	
1039	42°02'10.20478"N	0.032sft	92°17'27.10038"W	0.032sft	849.185sft	0.252sft	e
1040	41°59'34.26468"N	0.030sft	92°17'44.96122"W	0.030sft	826.085sft	0.255sft	e
1005	41°56'57.35998"N	0.030sft	92°46'13.46134"W	0.030sft	906.689sft	0.274sft	e
4	41°59'06.75154"N	0.028sft	92°42'25.75671"W	0.028sft	734.717sft	0.248sft	
3	41°56'55.07388"N	0.029sft	92°42'26.96497"W	0.029sft	757.232sft	0.256sft	
33	41°57'50.84626"N	0.031sft	92°31'57.94326"W	0.031sft	725.167sft	0.228sft	
65	42°02'18.20444"N	0.029sft	92°21'23.78831"W	0.029sft	718.040sft	0.234sft	
24	41°59'25.77219"N	0.027sft	92°35'17.22749"W	0.027sft	738.022sft	0.225sft	
14	41°59'54.19814"N	0.036sft	92°38'59.38724"W	0.036sft	866.906sft	0.234sft	e
2023	41°56'52.04209"N	0.036sft	92°40'07.09696"W	0.036sft	828.305sft	0.249sft	e
64	41°59'34.30574"N	0.029sft	92°21'26.50007"W	0.029sft	786.701sft	0.239sft	
1054	41°59'34.53570"N	0.034sft	92°36'32.89703"W	0.034sft	792.291sft	0.228sft	e
2002	42°01'15.72164"N	0.035sft	92°42'58.66940"W	0.035sft	740.673sft	0.247sft	e
2001	41°58'43.27375"N	0.037sft	92°43'07.08129"W	0.036sft	758.432sft	0.254sft	e
34	41°59'34.23095"N	0.034sft	92°31'59.65833"W	0.034sft	830.883sft	0.222sft	
42	41°54'22.11425"N	0.026sft	92°28'26.66427"W	0.026sft	759.040sft	0.247sft	
1004	41°54'13.51298"N	0.022sft	92°45'57.12403"W	0.022sft	908.693sft	0.285sft	e
1001	41°50'54.83235"N	0.000sft	92°46'58.85597"W	0.000sft	925.968sft	0.309sft	Lat Long e
22	41°54'20.14416"N	0.026sft	92°35'25.81909"W	0.026sft	836.115sft	0.249sft	
61	41°51'57.56241"N	0.021sft	92°21'22.65290"W	0.021sft	826.082sft	0.278sft	

51	41°51'48.99229"N	0.022sft	92°24'56.57981"W	0.022sft	719.961sft	0.269sft	
1	41°51'50.87885"N	0.022sft	92°42'28.48259"W	0.022sft	900.416sft	0.284sft	
12	41°54'21.15045"N	0.028sft	92°38'57.63053"W	0.028sft	838.607sft	0.257sft	
52	41°54'02.54335"N	0.024sft	92°24'56.55101"W	0.024sft	768.909sft	0.254sft	
62	41°54'20.75828"N	0.022sft	92°21'23.34803"W	0.022sft	677.461sft	0.262sft	
32	41°54'27.15783"N	0.029sft	92°31'40.56129"W	0.029sft	878.738sft	0.245sft	
31	41°51'44.27323"N	0.031sft	92°31'51.47032"W	0.031sft	865.897sft	0.264sft	
2	41°54'22.60131"N	0.024sft	92°42'26.78825"W	0.024sft	818.070sft	0.268sft	
1042	41°54'23.49956"N	0.023sft	92°17'38.18366"W	0.023sft	682.497sft	0.277sft	e
1041	41°56'58.95805"N	0.029sft	92°17'41.53549"W	0.029sft	746.142sft	0.265sft	e
11	41°51'50.17197"N	0.029sft	92°38'58.96663"W	0.029sft	889.211sft	0.273sft	
509	41°55'08.43745"N	0.025sft	92°23'41.21839"W	0.025sft	681.904sft	0.251sft	e
1044	41°49'50.45508"N	0.000sft	92°17'18.64395"W	0.000sft	831.089sft	0.307sft	Lat Long e
41	41°51'45.02434"N	0.029sft	92°28'25.49208"W	0.029sft	825.548sft	0.265sft	
21	41°51'44.50574"N	0.031sft	92°35'25.02876"W	0.031sft	872.024sft	0.267sft	
1002	41°51'44.76593"N	0.023sft	92°45'58.87226"W	0.023sft	888.395sft	0.299sft	e
2060	41°54'48.29669"N	0.034sft	92°35'26.40136"W	0.034sft	880.237sft	0.247sft	e

Adjusted Observations

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

GPS Observations

GPS Transformation Group: <GPS Default>

Deflection in Longitude : -0°00'00.0363" (1.96σ) : 0°00'00.4425"

Deflection in Latitude : -0°00'00.1259" (1.96σ) : 0°00'00.4293"

Azimuth Rotation : -0°00'00.0314" (1.96σ) : 0°00'00.0354"

Network Scale : 0.99999978 (1.96σ) : 0.00000017

Number of Observations : 228

Number of Outliers : 0

Observation Adjustment (Critical Tau = 3.97). Any outliers are in **red**.

Obs. ID	From Pt.	To Pt.		Observation	A-posteriori Error (1.96σ)	Residual	Stand. Residual
B145	1030	40	Az.	345°20'52.4103"	0°00'00.3920"	0°00'00.3051"	0.73
			ΔHt.	53.920sft	0.016sft	-0.060sft	-3.84
			Dist.	7819.450sft	0.015sft	0.039sft	2.46
B359	4	3	Az.	180°23'32.8480"	0°00'00.3690"	0°00'00.0127"	0.07
			ΔHt.	22.523sft	0.024sft	-0.046sft	-3.71
			Dist.	13329.410sft	0.024sft	-0.026sft	-2.05
B124	1025	50	Az.	160°19'17.4733"	0°00'00.2655"	0°00'00.1386"	0.63
			ΔHt.	-4.903sft	0.021sft	0.026sft	1.89
			Dist.	13916.176sft	0.018sft	0.053sft	3.57
B479	1042	62	Az.	269°05'13.8577"	0°00'00.2407"	-0°00'00.1029"	-0.60
			ΔHt.	-5.039sft	0.020sft	0.050sft	3.46
			Dist.	17028.348sft	0.020sft	0.015sft	1.08
B218	38	28	Az.	270°47'44.9030"	0°00'00.3664"	-0°00'00.0355"	-0.27
			ΔHt.	43.473sft	0.028sft	0.033sft	3.37
			Dist.	15778.954sft	0.028sft	0.008sft	0.81
B251	48	38	Az.	279°27'54.9910"	0°00'00.3654"	-0°00'00.0509"	-0.39

			ΔHt.	-13.028sft	0.028sft	0.033sft	3.37
			Dist.	15826.271sft	0.028sft	0.008sft	0.76
B506	3	1005	Az.	270°47'44.3322"	0°00'00.2989"	0°00'00.1668"	1.14
			ΔHt.	149.454sft	0.025sft	-0.041sft	-3.30
			Dist.	17116.928sft	0.025sft	-0.004sft	-0.37
B171	1045	1035	Az.	235°33'45.9935"	0°00'00.1614"	-0°00'00.1328"	-1.35
			ΔHt.	-32.988sft	0.025sft	-0.041sft	-3.30
			Dist.	28195.610sft	0.022sft	-0.014sft	-1.03
B493	32	22	Az.	267°38'02.8662"	0°00'00.3044"	-0°00'00.4674"	-3.25
			ΔHt.	-42.626sft	0.026sft	0.025sft	2.12
			Dist.	17047.828sft	0.025sft	-0.014sft	-1.21
B168	59	49	Az.	270°06'47.0485"	0°00'00.3089"	-0°00'00.2410"	-1.51
			ΔHt.	-31.270sft	0.025sft	-0.036sft	-3.01
			Dist.	16081.030sft	0.024sft	0.000sft	0.03
B358	1006	1005	Az.	184°42'11.3815"	0°00'00.3388"	0°00'00.0013"	0.01
			ΔHt.	44.986sft	0.026sft	0.036sft	3.00
			Dist.	15764.158sft	0.026sft	0.025sft	2.13
B320	48	47	Az.	179°26'16.2619"	0°00'00.4216"	0°00'00.2276"	1.23
			ΔHt.	25.269sft	0.026sft	0.033sft	2.97
			Dist.	12679.987sft	0.026sft	0.001sft	0.12
B297	7	17	Az.	88°03'18.2936"	0°00'00.3582"	-0°00'00.0288"	-0.23
			ΔHt.	65.879sft	0.029sft	-0.028sft	-2.92
			Dist.	16363.679sft	0.028sft	0.005sft	0.48
B243	17	27	Az.	91°57'39.9309"	0°00'00.3673"	-0°00'00.0336"	-0.27
			ΔHt.	1.945sft	0.029sft	-0.028sft	-2.92
			Dist.	15963.308sft	0.028sft	0.004sft	0.46
B134	69	68	Az.	182°49'27.1531"	0°00'00.3758"	0°00'00.3156"	1.71
			ΔHt.	-3.593sft	0.025sft	0.035sft	2.91
			Dist.	13534.791sft	0.025sft	0.017sft	1.36
B420	1054	14	Az.	280°12'50.0107"	0°00'00.5326"	0°00'00.0649"	0.38
			ΔHt.	74.612sft	0.028sft	-0.029sft	-2.80

			Dist.	11239.194sft	0.029sft	0.003sft	0.32
B114	1035	68	Az.	278°27'54.8511"	0°00'00.2953"	-0°00'00.1618"	-1.01
			ΔHt.	32.782sft	0.024sft	-0.033sft	-2.65
			Dist.	16439.249sft	0.024sft	-0.007sft	-0.54
B147	48	521	Az.	14°34'42.5156"	0°00'00.4657"	0°00'00.0738"	0.37
			ΔHt.	-7.820sft	0.029sft	-0.037sft	-2.57
			Dist.	11694.401sft	0.026sft	0.003sft	0.28
B200	19	9	Az.	269°59'35.1523"	0°00'00.3418"	0°00'00.0014"	0.01
			ΔHt.	-18.817sft	0.026sft	-0.028sft	-2.47
			Dist.	15151.048sft	0.025sft	0.004sft	0.30
B388	4	14	Az.	72°51'07.6311"	0°00'00.3670"	0°00'00.0564"	0.48
			ΔHt.	132.188sft	0.028sft	0.025sft	2.47
			Dist.	16307.313sft	0.029sft	0.001sft	0.11
B190	59	60	Az.	359°16'31.5135"	0°00'00.2804"	0°00'00.2322"	1.65
			ΔHt.	-5.749sft	0.025sft	0.008sft	0.70
			Dist.	17966.058sft	0.024sft	0.030sft	2.43
B141	1015	10	Az.	80°52'37.5270"	0°00'00.2788"	0°00'00.0070"	0.04
			ΔHt.	-13.801sft	0.023sft	0.031sft	2.39
			Dist.	17127.947sft	0.023sft	-0.009sft	-0.71
B191	69	59	Az.	269°51'45.3319"	0°00'00.3131"	0°00'00.1400"	0.93
			ΔHt.	-7.619sft	0.026sft	-0.028sft	-2.37
			Dist.	16446.483sft	0.025sft	-0.019sft	-1.61
B179	1030	49	Az.	118°27'14.5431"	0°00'00.1917"	0°00'00.1248"	0.67
			ΔHt.	30.638sft	0.018sft	0.036sft	2.34
			Dist.	17096.460sft	0.016sft	-0.018sft	-1.19
B62	1029	1045	Az.	143°21'27.1947"	0°00'00.0354"	0°00'00.0198"	0.22
			ΔHt.	-4.158sft	0.024sft	-0.030sft	-2.34
			Dist.	39394.468sft	0.007sft	-0.007sft	-0.43
B245	1036	67	Az.	270°12'43.9450"	0°00'00.2531"	-0°00'00.1511"	-0.85
			ΔHt.	-23.230sft	0.020sft	-0.033sft	-2.34
			Dist.	16414.293sft	0.020sft	-0.006sft	-0.41

B364	66	65	Az.	182°54'09.1409"	0°00'00.3446"	0°00'00.1651"	0.98
			ΔHt.	-134.363sft	0.025sft	-0.028sft	-2.33
			Dist.	14831.303sft	0.025sft	0.006sft	0.50
B267	67	66	Az.	175°55'12.3705"	0°00'00.2932"	0°00'00.1351"	0.82
			ΔHt.	46.356sft	0.023sft	-0.029sft	-2.28
			Dist.	16239.380sft	0.023sft	0.014sft	1.05
B482	42	32	Az.	272°00'44.1780"	0°00'00.2911"	-0°00'00.4448"	-2.27
			ΔHt.	119.695sft	0.021sft	0.026sft	1.88
			Dist.	14670.494sft	0.021sft	-0.003sft	-0.20
B166	1174	70	Az.	283°02'46.2411"	0°00'00.6207"	-0°00'00.3786"	-1.07
			ΔHt.	25.245sft	0.027sft	0.024sft	2.27
			Dist.	7626.757sft	0.023sft	-0.004sft	-0.31
B189	60	1118	Az.	359°34'29.0934"	0°00'00.2931"	0°00'00.4489"	2.25
			ΔHt.	32.593sft	0.027sft	0.008sft	0.71
			Dist.	14475.241sft	0.021sft	0.013sft	0.95
B443	43	42	Az.	169°45'39.4812"	0°00'00.3490"	0°00'00.0769"	0.50
			ΔHt.	63.774sft	0.026sft	0.011sft	0.99
			Dist.	15283.408sft	0.026sft	0.026sft	2.23
B478	1042	1041	Az.	359°04'40.3495"	0°00'00.3444"	0°00'00.1997"	1.36
			ΔHt.	63.636sft	0.026sft	-0.025sft	-2.23
			Dist.	15738.251sft	0.026sft	0.005sft	0.46
B230	1012	18	Az.	89°48'52.9650"	0°00'00.5385"	-0°00'00.1520"	-0.73
			ΔHt.	-17.765sft	0.029sft	-0.020sft	-2.16
			Dist.	10430.000sft	0.027sft	0.013sft	1.27
B240	28	18	Az.	269°46'00.8788"	0°00'00.3488"	-0°00'00.0980"	-0.72
			ΔHt.	20.765sft	0.029sft	0.020sft	2.16
			Dist.	16103.663sft	0.027sft	0.014sft	1.28
B405	44	43	Az.	190°43'55.8782"	0°00'00.3412"	-0°00'00.0062"	-0.04
			ΔHt.	-145.399sft	0.026sft	0.000sft	-0.02
			Dist.	15795.356sft	0.026sft	0.024sft	2.10
B286	7	1009	Az.	269°55'04.5377"	0°00'00.3349"	-0°00'00.0371"	-0.23

			ΔHt.	61.980sft	0.025sft	0.025sft	2.07
			Dist.	15349.736sft	0.025sft	0.000sft	0.00
B248	47	46	Az.	179°05'51.3715"	0°00'00.2974"	0°00'00.2003"	1.38
			ΔHt.	28.558sft	0.025sft	0.025sft	2.07
			Dist.	17150.064sft	0.025sft	0.003sft	0.23
B308	1011	1013	Az.	302°45'32.5312"	0°00'00.3518"	-0°00'00.1572"	-0.71
			ΔHt.	24.998sft	0.023sft	0.026sft	2.04
			Dist.	12650.390sft	0.022sft	0.000sft	0.01
B187	39	29	Az.	274°21'11.3060"	0°00'00.2982"	0°00'00.3301"	2.04
			ΔHt.	-13.635sft	0.025sft	-0.019sft	-1.59
			Dist.	16239.049sft	0.023sft	0.014sft	1.08
B183	30	40	Az.	90°04'03.9639"	0°00'00.3172"	-0°00'00.1616"	-0.92
			ΔHt.	-49.943sft	0.024sft	0.025sft	2.02
			Dist.	15103.808sft	0.023sft	0.001sft	0.05
B220	1010	1009	Az.	179°09'41.3435"	0°00'00.3437"	-0°00'00.0195"	-0.13
			ΔHt.	-26.639sft	0.026sft	-0.022sft	-2.00
			Dist.	15808.743sft	0.026sft	-0.008sft	-0.75
B246	1036	67	Az.	270°12'43.9450"	0°00'00.2531"	-0°00'00.0013"	-0.01
			ΔHt.	-23.230sft	0.020sft	0.027sft	1.94
			Dist.	16414.293sft	0.020sft	0.003sft	0.21
B165	50	40	Az.	260°28'46.7032"	0°00'00.2262"	-0°00'00.3445"	-1.86
			ΔHt.	-22.424sft	0.019sft	0.005sft	0.34
			Dist.	16615.364sft	0.018sft	0.000sft	-0.03
B233	27	28	Az.	359°49'04.3350"	0°00'00.3440"	0°00'00.1241"	0.87
			ΔHt.	-11.207sft	0.027sft	-0.020sft	-1.86
			Dist.	15908.223sft	0.027sft	-0.001sft	-0.08
B140	10	20	Az.	99°08'55.7447"	0°00'00.3086"	0°00'00.2093"	1.29
			ΔHt.	13.772sft	0.024sft	0.023sft	1.83
			Dist.	15959.065sft	0.024sft	-0.003sft	-0.23
B178	29	30	Az.	3°40'13.1559"	0°00'00.3103"	0°00'00.1990"	1.22
			ΔHt.	-20.349sft	0.024sft	-0.007sft	-0.55

			Dist.	15841.581sft	0.024sft	0.022sft	1.78
B137	1033	1035	Az.	179°02'19.3581"	0°00'00.2862"	0°00'00.0239"	0.15
			ΔHt.	-67.347sft	0.023sft	0.018sft	1.42
			Dist.	16742.973sft	0.023sft	0.022sft	1.72
B201	29	19	Az.	270°02'40.3205"	0°00'00.3742"	0°00'00.1447"	0.85
			ΔHt.	1.511sft	0.026sft	-0.019sft	-1.69
			Dist.	14116.160sft	0.026sft	0.013sft	1.16
B206	49	48	Az.	180°12'29.9755"	0°00'00.2299"	0°00'00.1418"	0.92
			ΔHt.	26.965sft	0.022sft	0.023sft	1.69
			Dist.	18653.180sft	0.021sft	-0.005sft	-0.34
B296	1013	1010	Az.	180°09'06.3656"	0°00'00.3071"	-0°00'00.0244"	-0.15
			ΔHt.	52.312sft	0.023sft	-0.022sft	-1.68
			Dist.	15858.345sft	0.024sft	-0.006sft	-0.49
B400	1054	2059	Az.	11°23'54.9492"	0°00'00.5181"	-0°00'00.0281"	-0.15
			ΔHt.	-32.749sft	0.027sft	0.018sft	1.67
			Dist.	11160.043sft	0.028sft	-0.001sft	-0.08
B317	9	8	Az.	183°20'13.1108"	0°00'00.3070"	0°00'00.0916"	0.56
			ΔHt.	11.107sft	0.024sft	-0.021sft	-1.66
			Dist.	15840.824sft	0.024sft	0.003sft	0.20
B490	63	62	Az.	181°21'59.0112"	0°00'00.3191"	0°00'00.0364"	0.23
			ΔHt.	-199.321sft	0.025sft	-0.019sft	-1.63
			Dist.	15957.274sft	0.025sft	-0.001sft	-0.08
B106	1013	1015	Az.	355°51'31.9662"	0°00'00.3315"	-0°00'00.0885"	-0.58
			ΔHt.	76.778sft	0.025sft	0.019sft	1.63
			Dist.	15863.918sft	0.026sft	0.004sft	0.37
B45	1029	1028	Az.	269°55'49.4188"	0°00'00.0354"	-0°00'00.0467"	-0.14
			ΔHt.	-58.762sft	0.026sft	0.018sft	1.59
			Dist.	10603.613sft	0.002sft	-0.002sft	-0.14
B159	1019	1020	Az.	88°11'28.1207"	0°00'00.3339"	-0°00'00.0370"	-0.27
			ΔHt.	40.261sft	0.027sft	0.018sft	1.59
			Dist.	16481.986sft	0.027sft	-0.001sft	-0.10

B152	40	39	Az.	179°47'12.8401"	0°00'00.2365"	0°00'00.0685"	0.39
			ΔHt.	83.928sft	0.020sft	-0.022sft	-1.55
			Dist.	17013.303sft	0.020sft	-0.007sft	-0.47
B105	20	30	Az.	90°30'09.3359"	0°00'00.3239"	0°00'00.0670"	0.41
			ΔHt.	-40.624sft	0.025sft	0.019sft	1.54
			Dist.	15486.010sft	0.024sft	-0.012sft	-0.99
B237	46	36	Az.	282°42'47.5498"	0°00'00.3938"	-0°00'00.1579"	-1.16
			ΔHt.	-31.625sft	0.028sft	0.015sft	1.54
			Dist.	14842.830sft	0.028sft	0.004sft	0.40
B259	36	26	Az.	262°18'17.3240"	0°00'00.3012"	-0°00'00.0985"	-0.94
			ΔHt.	-14.046sft	0.028sft	0.015sft	1.54
			Dist.	19414.337sft	0.028sft	0.008sft	0.78
B5	1118	1026	Az.	265°21'30.1360"	0°00'00.0354"	0°00'00.1770"	0.51
			ΔHt.	-23.955sft	0.028sft	0.016sft	1.52
			Dist.	10396.275sft	0.002sft	0.005sft	0.26
B215	1045	1033	Az.	271°56'20.3554"	0°00'00.1731"	0°00'00.0466"	0.37
			ΔHt.	34.359sft	0.022sft	0.020sft	1.52
			Dist.	23531.556sft	0.020sft	0.001sft	0.07
B258	66	56	Az.	265°58'32.2989"	0°00'00.2976"	-0°00'00.0817"	-0.54
			ΔHt.	-70.711sft	0.024sft	-0.019sft	-1.51
			Dist.	16856.697sft	0.024sft	-0.009sft	-0.75
B180	1030	49	Az.	118°27'14.5431"	0°00'00.1917"	-0°00'00.2707"	-1.44
			ΔHt.	30.638sft	0.018sft	0.017sft	1.11
			Dist.	17096.460sft	0.016sft	-0.023sft	-1.51
B208	10	1018	Az.	0°08'30.2980"	0°00'00.3762"	-0°00'00.0036"	-0.02
			ΔHt.	-55.945sft	0.024sft	0.019sft	1.51
			Dist.	13045.792sft	0.024sft	-0.003sft	-0.26
B499	61	1044	Az.	124°50'30.5346"	0°00'00.1975"	-0°00'00.0083"	-0.07
			ΔHt.	5.018sft	0.023sft	0.009sft	0.71
			Dist.	22507.648sft	0.022sft	-0.020sft	-1.50
B252	1012	8	Az.	270°38'30.8651"	0°00'00.6984"	0°00'00.2994"	0.53

			ΔHt.	-8.565sft	0.024sft	0.010sft	0.80
			Dist.	5382.355sft	0.018sft	-0.022sft	-1.48
B115	68	58	Az.	261°23'30.4828"	0°00'00.3287"	-0°00'00.2188"	-1.48
			ΔHt.	-47.267sft	0.027sft	0.013sft	1.16
			Dist.	16143.534sft	0.026sft	0.003sft	0.27
B495	1	2	Az.	0°28'40.6427"	0°00'00.3121"	-0°00'00.0435"	-0.25
			ΔHt.	-82.355sft	0.024sft	-0.019sft	-1.47
			Dist.	15358.452sft	0.023sft	0.004sft	0.30
B477	2	12	Az.	90°30'45.4012"	0°00'00.3297"	-0°00'00.2254"	-1.47
			ΔHt.	20.540sft	0.026sft	-0.013sft	-1.17
			Dist.	15816.423sft	0.025sft	-0.009sft	-0.73
B133	70	69	Az.	170°57'13.0047"	0°00'00.2844"	0°00'00.1619"	1.15
			ΔHt.	106.611sft	0.026sft	0.017sft	1.44
			Dist.	17876.477sft	0.025sft	0.012sft	0.96
B489	63	1041	Az.	89°45'59.9896"	0°00'00.3130"	-0°00'00.0806"	-0.53
			ΔHt.	-130.647sft	0.025sft	0.017sft	1.43
			Dist.	16381.108sft	0.025sft	-0.006sft	-0.50
B138	58	48	Az.	260°19'26.0321"	0°00'00.3092"	-0°00'00.0866"	-0.55
			ΔHt.	38.936sft	0.025sft	0.017sft	1.41
			Dist.	16221.668sft	0.024sft	0.006sft	0.50
B247	1037	46	Az.	250°55'52.6896"	0°00'00.2581"	-0°00'00.2049"	-1.41
			ΔHt.	159.372sft	0.023sft	0.004sft	0.27
			Dist.	18385.805sft	0.023sft	0.002sft	0.18
B3	1026	1025	Az.	270°02'01.5853"	0°00'00.0354"	0°00'00.1472"	0.44
			ΔHt.	16.450sft	0.028sft	0.014sft	1.39
			Dist.	10657.775sft	0.002sft	0.006sft	0.33
B64	1032	1174	Az.	269°41'59.3406"	0°00'00.0354"	-0°00'00.0820"	-0.24
			ΔHt.	5.524sft	0.025sft	0.017sft	1.38
			Dist.	10543.987sft	0.002sft	-0.009sft	-0.53
B424	24	23	Az.	182°36'23.4280"	0°00'00.2617"	-0°00'00.0838"	-0.55
			ΔHt.	-23.776sft	0.023sft	0.001sft	0.04

			Dist.	17832.177sft	0.023sft	-0.018sft	-1.34
B312	1035	1036	Az.	179°59'15.0530"	0°00'00.3334"	-0°00'00.1967"	-1.31
			ΔHt.	-13.941sft	0.026sft	-0.002sft	-0.21
			Dist.	15864.141sft	0.026sft	0.016sft	1.34
B299	68	67	Az.	180°25'59.3630"	0°00'00.2832"	0°00'00.1802"	1.33
			ΔHt.	-69.953sft	0.025sft	-0.011sft	-0.92
			Dist.	18223.977sft	0.025sft	0.012sft	1.01
B483	32	42	Az.	91°58'34.6699"	0°00'00.2911"	-0°00'00.0129"	-0.07
			ΔHt.	-119.695sft	0.021sft	0.013sft	0.97
			Dist.	14670.494sft	0.021sft	-0.018sft	-1.32
B294	29	28	Az.	173°49'32.3715"	0°00'00.3341"	0°00'00.1984"	1.32
			ΔHt.	-36.164sft	0.026sft	0.007sft	0.62
			Dist.	15863.252sft	0.026sft	0.003sft	0.23
B38	1118	1027	Az.	94°21'20.4366"	0°00'00.0354"	-0°00'00.0113"	-0.03
			ΔHt.	-42.095sft	0.028sft	-0.009sft	-0.91
			Dist.	10891.221sft	0.002sft	-0.023sft	-1.30
B142	1014	10	Az.	43°38'15.0805"	0°00'00.2591"	-0°00'00.0286"	-0.21
			ΔHt.	-1.384sft	0.024sft	0.016sft	1.28
			Dist.	19023.471sft	0.024sft	-0.008sft	-0.62
B10	1012	1011	Az.	310°21'58.1911"	0°00'00.0354"	0°00'00.3291"	1.27
			ΔHt.	-83.837sft	0.025sft	0.008sft	0.66
			Dist.	13887.399sft	0.002sft	-0.015sft	-0.88
B238	16	6	Az.	269°56'34.6838"	0°00'00.3590"	0°00'00.0234"	0.19
			ΔHt.	34.470sft	0.028sft	0.012sft	1.27
			Dist.	16312.119sft	0.028sft	0.005sft	0.49
B260	26	16	Az.	269°15'19.1742"	0°00'00.4197"	0°00'00.0283"	0.20
			ΔHt.	-39.765sft	0.028sft	0.012sft	1.27
			Dist.	13951.817sft	0.028sft	0.005sft	0.49
B430	65	64	Az.	180°42'25.7061"	0°00'00.3120"	0°00'00.1849"	1.25
			ΔHt.	68.671sft	0.025sft	-0.010sft	-0.86
			Dist.	16592.084sft	0.025sft	0.006sft	0.52

B136	1032	1033	Az.	179°31'07.5482"	0°00'00.2628"	-0°00'00.1244"	-0.63
			ΔHt.	168.353sft	0.023sft	-0.005sft	-0.35
			Dist.	15184.077sft	0.019sft	0.018sft	1.25
B173	1024	40	Az.	184°15'52.8354"	0°00'00.1966"	0°00'00.1483"	0.73
			ΔHt.	-48.173sft	0.019sft	0.003sft	0.21
			Dist.	15904.650sft	0.015sft	0.020sft	1.25
B301	57	1037	Az.	174°30'15.2867"	0°00'00.4857"	0°00'00.0201"	0.09
			ΔHt.	-52.908sft	0.025sft	0.011sft	0.95
			Dist.	10747.801sft	0.025sft	0.015sft	1.25
B131	60	50	Az.	271°52'09.5520"	0°00'00.2854"	0°00'00.2004"	1.22
			ΔHt.	20.185sft	0.025sft	0.008sft	0.66
			Dist.	16462.009sft	0.023sft	-0.001sft	-0.05
B319	8	7	Az.	181°09'28.9538"	0°00'00.3239"	-0°00'00.0164"	-0.11
			ΔHt.	-86.581sft	0.026sft	-0.014sft	-1.21
			Dist.	15866.382sft	0.025sft	0.000sft	0.00
B525	1002	1	Az.	87°45'16.5638"	0°00'00.3130"	0°00'00.0425"	0.27
			ΔHt.	12.023sft	0.024sft	-0.015sft	-1.19
			Dist.	15931.537sft	0.024sft	0.006sft	0.49
B2	1025	1030	Az.	202°32'58.9618"	0°00'00.0354"	-0°00'00.1674"	-1.19
			ΔHt.	-81.247sft	0.017sft	0.018sft	1.15
			Dist.	25359.722sft	0.004sft	0.014sft	0.83
B164	50	40	Az.	260°28'46.7032"	0°00'00.2262"	-0°00'00.2156"	-1.17
			ΔHt.	-22.424sft	0.019sft	0.014sft	0.96
			Dist.	16615.364sft	0.018sft	0.003sft	0.19
B500	509	61	Az.	151°30'40.0750"	0°00'00.1934"	0°00'00.0660"	0.50
			ΔHt.	144.192sft	0.021sft	-0.016sft	-1.17
			Dist.	21980.369sft	0.021sft	0.003sft	0.18
B417	1038	1039	Az.	172°05'12.4517"	0°00'00.3405"	-0°00'00.0783"	-0.55
			ΔHt.	93.118sft	0.026sft	0.013sft	1.17
			Dist.	16019.748sft	0.026sft	0.008sft	0.73
B519	51	1044	Az.	109°03'10.4832"	0°00'00.1244"	0°00'00.0875"	1.17

			ΔHt.	111.142sft	0.024sft	0.001sft	0.09
			Dist.	36677.416sft	0.022sft	-0.008sft	-0.59
B523	22	21	Az.	179°46'57.0007"	0°00'00.3244"	-0°00'00.1266"	-0.80
			ΔHt.	35.919sft	0.025sft	0.014sft	1.14
			Dist.	15754.417sft	0.025sft	0.010sft	0.80
B343	54	44	Az.	275°05'23.6235"	0°00'00.3525"	-0°00'00.0853"	-0.70
			ΔHt.	-60.196sft	0.028sft	-0.011sft	-1.14
			Dist.	16616.056sft	0.028sft	-0.005sft	-0.47
B398	64	54	Az.	260°29'17.0956"	0°00'00.3862"	-0°00'00.1059"	-0.80
			ΔHt.	114.174sft	0.028sft	-0.011sft	-1.14
			Dist.	15162.215sft	0.028sft	-0.003sft	-0.28
B505	1002	1001	Az.	221°55'55.7728"	0°00'00.7121"	0°00'00.1947"	0.50
			ΔHt.	37.575sft	0.023sft	0.014sft	1.12
			Dist.	6793.588sft	0.023sft	0.006sft	0.45
B401	5	2002	Az.	199°10'47.0220"	0°00'01.1652"	0°00'00.1684"	0.41
			ΔHt.	-151.415sft	0.028sft	0.012sft	1.12
			Dist.	4975.358sft	0.028sft	0.007sft	0.67
B144	1030	40	Az.	345°20'52.4103"	0°00'00.3920"	0°00'00.1175"	0.28
			ΔHt.	53.920sft	0.016sft	-0.011sft	-0.71
			Dist.	7819.450sft	0.015sft	0.018sft	1.12
B512	42	52	Az.	97°05'15.4885"	0°00'00.3194"	-0°00'00.1260"	-0.81
			ΔHt.	9.873sft	0.025sft	-0.004sft	-0.30
			Dist.	16011.678sft	0.025sft	-0.013sft	-1.12
B504	21	31	Az.	90°03'49.1161"	0°00'00.3468"	0°00'00.0497"	0.37
			ΔHt.	-6.124sft	0.028sft	0.012sft	1.12
			Dist.	16159.544sft	0.027sft	0.004sft	0.33
B199	1018	71	Az.	268°11'48.6790"	0°00'00.4021"	-0°00'00.1080"	-0.59
			ΔHt.	56.771sft	0.026sft	0.013sft	1.11
			Dist.	13138.836sft	0.026sft	0.002sft	0.20
B225	1037	56	Az.	193°19'22.7732"	0°00'00.7106"	0°00'00.1871"	0.49
			ΔHt.	19.568sft	0.024sft	0.014sft	1.11

			Dist.	6826.496sft	0.024sft	-0.003sft	-0.22
B148	30	1020	Az.	3°18'20.4461"	0°00'00.3101"	0°00'00.0430"	0.28
			ΔHt.	-4.805sft	0.025sft	-0.014sft	-1.11
			Dist.	16297.622sft	0.025sft	0.005sft	0.38
B407	46	45	Az.	179°26'54.2060"	0°00'00.3411"	0°00'00.0300"	0.20
			ΔHt.	-10.547sft	0.026sft	0.009sft	0.76
			Dist.	15739.527sft	0.026sft	0.013sft	1.11
B377	24	25	Az.	353°10'21.9378"	0°00'00.2654"	-0°00'00.0234"	-0.12
			ΔHt.	11.919sft	0.020sft	-0.009sft	-0.64
			Dist.	15509.728sft	0.020sft	-0.016sft	-1.10
B117	1019	20	Az.	179°46'53.2870"	0°00'00.3327"	-0°00'00.0411"	-0.26
			ΔHt.	85.690sft	0.025sft	-0.013sft	-1.10
			Dist.	15615.195sft	0.025sft	-0.001sft	-0.07
B329	25	15	Az.	272°04'11.6776"	0°00'00.3949"	-0°00'00.1343"	-0.99
			ΔHt.	164.366sft	0.028sft	0.011sft	1.10
			Dist.	14847.716sft	0.028sft	0.002sft	0.17
B373	5	15	Az.	89°37'29.0610"	0°00'00.3554"	-0°00'00.1198"	-0.98
			ΔHt.	22.233sft	0.029sft	-0.011sft	-1.10
			Dist.	16507.097sft	0.028sft	0.002sft	0.21
B223	67	57	Az.	269°50'37.4927"	0°00'00.3490"	-0°00'00.1320"	-0.83
			ΔHt.	8.985sft	0.026sft	0.013sft	1.10
			Dist.	15104.976sft	0.026sft	0.004sft	0.31
B379	1006	4	Az.	99°18'43.3834"	0°00'00.2420"	-0°00'00.1126"	-0.60
			ΔHt.	-126.991sft	0.019sft	-0.016sft	-1.10
			Dist.	16117.479sft	0.019sft	0.000sft	0.01
B509	1042	1044	Az.	176°56'10.8347"	0°00'00.1764"	0°00'00.0191"	0.20
			ΔHt.	148.610sft	0.025sft	-0.013sft	-1.09
			Dist.	27678.020sft	0.024sft	-0.003sft	-0.27
B409	64	1040	Az.	89°59'37.1064"	0°00'00.2521"	0°00'00.1744"	1.01
			ΔHt.	39.387sft	0.020sft	0.015sft	1.08
			Dist.	16729.252sft	0.020sft	0.003sft	0.18

B455	1001	1	Az.	74°28'39.0496"	0°00'00.2209"	-0°00'00.1364"	-1.07
			ΔHt.	-25.552sft	0.024sft	-0.003sft	-0.26
			Dist.	21232.463sft	0.023sft	-0.008sft	-0.58
B33	1024	1030	Az.	178°03'18.6731"	0°00'00.0354"	0°00'00.0450"	0.29
			ΔHt.	-102.092sft	0.017sft	-0.016sft	-1.07
			Dist.	23439.203sft	0.004sft	-0.003sft	-0.19
B464	22	12	Az.	270°23'02.4669"	0°00'00.2657"	-0°00'00.1128"	-0.63
			ΔHt.	2.489sft	0.021sft	0.015sft	1.07
			Dist.	16016.816sft	0.021sft	-0.014sft	-1.00
B485	1004	2	Az.	86°40'12.5493"	0°00'00.2538"	-0°00'00.1222"	-0.66
			ΔHt.	-90.621sft	0.020sft	0.015sft	1.07
			Dist.	15931.668sft	0.020sft	0.002sft	0.17
B202	50	49	Az.	178°05'58.9441"	0°00'00.2270"	-0°00'00.0594"	-0.38
			ΔHt.	-45.706sft	0.021sft	0.015sft	1.06
			Dist.	18479.759sft	0.020sft	-0.007sft	-0.51
B340	35	25	Az.	265°12'14.7472"	0°00'00.3443"	0°00'00.0130"	0.11
			ΔHt.	-55.390sft	0.028sft	-0.004sft	-0.45
			Dist.	16929.633sft	0.028sft	-0.010sft	-1.06
B235	1036	1038	Az.	181°21'13.5949"	0°00'00.3283"	-0°00'00.1609"	-1.05
			ΔHt.	-73.207sft	0.025sft	0.005sft	0.46
			Dist.	15902.464sft	0.025sft	0.003sft	0.27
B47	1028	1027	Az.	269°39'38.7882"	0°00'00.0354"	-0°00'00.1110"	-0.33
			ΔHt.	35.121sft	0.028sft	0.010sft	1.05
			Dist.	10585.224sft	0.002sft	0.001sft	0.05
B527	1040	1041	Az.	179°03'23.8675"	0°00'00.3468"	0°00'00.1229"	0.84
			ΔHt.	-79.934sft	0.026sft	0.010sft	0.90
			Dist.	15723.087sft	0.026sft	0.012sft	1.04
B352	35	45	Az.	93°00'19.9195"	0°00'00.3608"	0°00'00.0318"	0.25
			ΔHt.	105.619sft	0.028sft	0.004sft	0.45
			Dist.	16153.238sft	0.028sft	-0.010sft	-1.04
B349	23	13	Az.	284°05'55.1881"	0°00'00.3421"	-0°00'00.0083"	-0.06

			ΔHt.	17.906sft	0.027sft	-0.005sft	-0.49
			Dist.	16276.789sft	0.027sft	-0.011sft	-1.04
B118	1015	71	Az.	13°55'17.3309"	0°00'00.3315"	0°00'00.0044"	0.03
			ΔHt.	-12.975sft	0.025sft	-0.012sft	-1.03
			Dist.	15802.565sft	0.025sft	0.006sft	0.51
B132	70	60	Az.	271°06'47.9101"	0°00'00.3603"	-0°00'00.0065"	-0.04
			ΔHt.	93.243sft	0.026sft	0.007sft	0.65
			Dist.	13854.846sft	0.024sft	-0.013sft	-1.03
B497	1040	64	Az.	270°02'05.3244"	0°00'00.2521"	-0°00'00.1633"	-0.94
			ΔHt.	-39.387sft	0.020sft	0.015sft	1.03
			Dist.	16729.252sft	0.020sft	-0.014sft	-0.97
B363	65	55	Az.	266°38'32.1636"	0°00'00.3519"	0°00'00.0478"	0.39
			ΔHt.	107.311sft	0.029sft	-0.010sft	-1.02
			Dist.	16643.531sft	0.028sft	-0.008sft	-0.85
B244	27	37	Az.	90°26'17.0855"	0°00'00.3719"	0°00'00.0845"	0.66
			ΔHt.	-1.750sft	0.029sft	-0.010sft	-1.02
			Dist.	15739.912sft	0.028sft	0.001sft	0.14
B265	47	37	Az.	268°02'34.7887"	0°00'00.3715"	0°00'00.0851"	0.67
			ΔHt.	14.633sft	0.029sft	0.010sft	1.02
			Dist.	15753.374sft	0.028sft	0.001sft	0.11
B330	55	45	Az.	268°06'18.7202"	0°00'00.3866"	0°00'00.0541"	0.41
			ΔHt.	85.599sft	0.028sft	-0.010sft	-1.02
			Dist.	15131.020sft	0.028sft	-0.008sft	-0.84
B433	2002	4	Az.	169°13'11.7439"	0°00'00.4365"	0°00'00.1062"	0.68
			ΔHt.	-5.947sft	0.027sft	0.011sft	1.01
			Dist.	13289.503sft	0.028sft	0.004sft	0.37
B472	32	31	Az.	182°51'58.0450"	0°00'00.3156"	-0°00'00.0498"	-0.34
			ΔHt.	-12.831sft	0.025sft	-0.012sft	-1.01
			Dist.	16508.427sft	0.025sft	-0.005sft	-0.41
B27	1025	1030	Az.	202°32'58.9618"	0°00'00.0354"	0°00'00.0692"	0.49
			ΔHt.	-81.247sft	0.017sft	-0.015sft	-1.01

			Dist.	25359.722sft	0.004sft	-0.007sft	-0.38
B334	2059	25	Az.	24°56'26.4881"	0°00'01.4672"	-0°00'00.0686"	-0.13
			ΔHt.	-9.598sft	0.027sft	0.010sft	0.97
			Dist.	3940.280sft	0.028sft	-0.001sft	-0.11
B498	509	52	Az.	220°30'11.8394"	0°00'00.4287"	0°00'00.3362"	0.97
			ΔHt.	87.009sft	0.018sft	0.006sft	0.39
			Dist.	8771.250sft	0.018sft	-0.010sft	-0.67
B510	509	52	Az.	220°30'11.8394"	0°00'00.4287"	-0°00'00.3346"	-0.96
			ΔHt.	87.009sft	0.018sft	-0.001sft	-0.09
			Dist.	8771.250sft	0.018sft	0.008sft	0.52
B353	1039	1040	Az.	184°53'01.2818"	0°00'00.3448"	-0°00'00.0359"	-0.25
			ΔHt.	-23.090sft	0.026sft	0.010sft	0.88
			Dist.	15842.677sft	0.026sft	0.011sft	0.96
B305	7	6	Az.	179°33'51.6698"	0°00'00.3175"	0°00'00.0421"	0.28
			ΔHt.	29.030sft	0.026sft	-0.011sft	-0.94
			Dist.	16286.098sft	0.025sft	0.000sft	-0.02
B209	9	10	Az.	356°57'57.8600"	0°00'00.2429"	0°00'00.1134"	0.76
			ΔHt.	23.810sft	0.022sft	-0.007sft	-0.50
			Dist.	18519.077sft	0.022sft	-0.012sft	-0.92
B338	2063	23	Az.	206°07'09.0956"	0°00'00.4036"	-0°00'00.0859"	-0.39
			ΔHt.	-64.193sft	0.023sft	-0.005sft	-0.39
			Dist.	11950.159sft	0.023sft	0.012sft	0.92
B344	44	45	Az.	359°48'56.5225"	0°00'00.3356"	0°00'00.0569"	0.40
			ΔHt.	70.261sft	0.027sft	-0.003sft	-0.27
			Dist.	16147.066sft	0.026sft	0.010sft	0.92
B446	1005	1004	Az.	175°44'23.9467"	0°00'00.3224"	-0°00'00.0272"	-0.19
			ΔHt.	2.015sft	0.027sft	-0.001sft	-0.08
			Dist.	16631.245sft	0.026sft	0.010sft	0.91
B481	62	52	Az.	263°29'44.2717"	0°00'00.2186"	-0°00'00.1709"	-0.89
			ΔHt.	91.447sft	0.017sft	0.003sft	0.21
			Dist.	16227.431sft	0.017sft	-0.001sft	-0.07

B445	1004	1001	Az.	193°04'44.3133"	0°00'00.2236"	-0°00'00.0981"	-0.74
			ΔHt.	17.287sft	0.024sft	-0.011sft	-0.87
			Dist.	20646.286sft	0.022sft	0.010sft	0.73
B380	4	1006	Az.	279°21'04.2714"	0°00'00.2420"	-0°00'00.1570"	-0.84
			ΔHt.	126.991sft	0.019sft	0.012sft	0.80
			Dist.	16117.479sft	0.019sft	-0.004sft	-0.27
B163	20	19	Az.	178°41'17.8987"	0°00'00.3236"	-0°00'00.1262"	-0.82
			ΔHt.	-18.765sft	0.025sft	-0.009sft	-0.77
			Dist.	15947.621sft	0.025sft	0.010sft	0.84
B461	52	51	Az.	180°00'33.2109"	0°00'00.3273"	0°00'00.1737"	0.84
			ΔHt.	-48.940sft	0.022sft	0.008sft	0.59
			Dist.	13518.534sft	0.021sft	-0.009sft	-0.63
B156	1033	69	Az.	266°59'48.2894"	0°00'00.3209"	0°00'00.1214"	0.72
			ΔHt.	-30.972sft	0.025sft	-0.009sft	-0.77
			Dist.	15324.497sft	0.024sft	-0.010sft	-0.83
B526	3	2	Az.	179°57'01.3815"	0°00'00.3368"	0°00'00.0439"	0.28
			ΔHt.	60.847sft	0.026sft	-0.009sft	-0.81
			Dist.	15433.967sft	0.025sft	-0.009sft	-0.76
B324	27	26	Az.	186°53'50.9796"	0°00'00.3363"	0°00'00.0942"	0.67
			ΔHt.	-33.497sft	0.027sft	0.002sft	0.18
			Dist.	16193.076sft	0.026sft	-0.009sft	-0.80
B451	61	51	Az.	266°57'07.5937"	0°00'00.2382"	-0°00'00.1471"	-0.79
			ΔHt.	-106.123sft	0.019sft	0.002sft	0.16
			Dist.	16210.015sft	0.019sft	-0.001sft	-0.09
B431	34	24	Az.	266°44'01.2980"	0°00'00.3883"	0°00'00.0780"	0.57
			ΔHt.	-92.863sft	0.028sft	-0.008sft	-0.79
			Dist.	14944.037sft	0.028sft	-0.004sft	-0.38
B419	44	34	Az.	273°38'57.6916"	0°00'00.3550"	0°00'00.0766"	0.61
			ΔHt.	-9.804sft	0.028sft	-0.008sft	-0.79
			Dist.	16343.424sft	0.028sft	-0.003sft	-0.31
B172	58	49	Az.	315°01'45.3771"	0°00'00.2134"	-0°00'00.0340"	-0.29

			ΔHt.	11.972sft	0.024sft	-0.004sft	-0.35
			Dist.	22511.972sft	0.023sft	-0.010sft	-0.77
B48	1028	1174	Az.	180°14'53.1235"	0°00'00.0354"	-0°00'00.0739"	-0.32
			ΔHt.	-73.864sft	0.026sft	0.009sft	0.76
			Dist.	15695.843sft	0.003sft	-0.008sft	-0.43
B450	61	51	Az.	266°57'07.5937"	0°00'00.2382"	-0°00'00.0707"	-0.38
			ΔHt.	-106.123sft	0.019sft	-0.011sft	-0.76
			Dist.	16210.015sft	0.019sft	0.002sft	0.14
B107	1013	1014	Az.	28°58'00.5850"	0°00'00.8957"	0°00'00.0041"	0.01
			ΔHt.	64.361sft	0.023sft	0.006sft	0.43
			Dist.	5449.964sft	0.024sft	-0.010sft	-0.76
B511	41	42	Az.	359°40'50.2204"	0°00'00.3183"	0°00'00.1182"	0.75
			ΔHt.	-66.517sft	0.025sft	-0.002sft	-0.19
			Dist.	15901.475sft	0.025sft	0.004sft	0.35
B66	1032	1045	Az.	124°00'35.6599"	0°00'00.0354"	0°00'00.0046"	0.04
			ΔHt.	133.993sft	0.022sft	-0.002sft	-0.11
			Dist.	28526.062sft	0.005sft	-0.012sft	-0.71
B457	12	22	Az.	90°20'40.9965"	0°00'00.2657"	-0°00'00.0965"	-0.54
			ΔHt.	-2.489sft	0.021sft	0.004sft	0.30
			Dist.	16016.816sft	0.021sft	0.010sft	0.71
B501	41	31	Az.	269°44'22.5225"	0°00'00.3512"	-0°00'00.0095"	-0.06
			ΔHt.	40.347sft	0.027sft	0.000sft	0.03
			Dist.	15586.117sft	0.027sft	0.008sft	0.70
B395	26	25	Az.	176°58'53.1587"	0°00'00.3165"	0°00'00.0959"	0.70
			ΔHt.	-125.883sft	0.026sft	0.005sft	0.42
			Dist.	16985.698sft	0.026sft	0.002sft	0.17
B186	9	1013	Az.	269°53'16.5688"	0°00'00.2594"	0°00'00.1175"	0.69
			ΔHt.	-39.167sft	0.021sft	-0.008sft	-0.59
			Dist.	16759.482sft	0.021sft	0.004sft	0.32
B397	1038	66	Az.	269°04'30.2186"	0°00'00.2783"	0°00'00.0423"	0.22
			ΔHt.	96.332sft	0.020sft	-0.010sft	-0.69

			Dist.	14896.489sft	0.020sft	-0.009sft	-0.65
B470	62	61	Az.	179°47'31.5079"	0°00'00.2507"	0°00'00.0345"	0.16
			ΔHt.	148.631sft	0.018sft	0.010sft	0.69
			Dist.	14494.922sft	0.018sft	0.008sft	0.54
B378	24	25	Az.	353°10'21.9378"	0°00'00.2654"	-0°00'00.0283"	-0.15
			ΔHt.	11.919sft	0.020sft	0.010sft	0.67
			Dist.	15509.728sft	0.020sft	0.007sft	0.51
B448	64	63	Az.	177°45'23.4035"	0°00'00.3273"	0°00'00.1014"	0.65
			ΔHt.	90.100sft	0.025sft	0.000sft	0.02
			Dist.	15798.170sft	0.025sft	-0.002sft	-0.21
B447	22	23	Az.	359°17'39.5173"	0°00'00.3601"	0°00'00.0284"	0.14
			ΔHt.	-121.887sft	0.023sft	0.002sft	0.13
			Dist.	13124.412sft	0.023sft	-0.008sft	-0.64
B384	1039	65	Az.	272°37'04.5048"	0°00'00.2869"	0°00'00.0443"	0.32
			ΔHt.	-131.149sft	0.025sft	0.008sft	0.63
			Dist.	17879.132sft	0.025sft	-0.005sft	-0.43
B371	4	13	Az.	127°04'10.5501"	0°00'00.2675"	0°00'00.0507"	0.42
			ΔHt.	-2.561sft	0.026sft	0.003sft	0.24
			Dist.	19780.625sft	0.026sft	-0.007sft	-0.62
B139	1024	1020	Az.	271°38'06.3843"	0°00'00.3308"	-0°00'00.0994"	-0.61
			ΔHt.	-3.036sft	0.026sft	-0.006sft	-0.49
			Dist.	15341.499sft	0.025sft	0.002sft	0.18
B360	33	2063	Az.	283°24'23.9947"	0°00'00.4796"	-0°00'00.1348"	-0.60
			ΔHt.	53.265sft	0.025sft	-0.001sft	-0.05
			Dist.	10903.031sft	0.025sft	0.001sft	0.12
B469	52	62	Az.	83°27'21.8787"	0°00'00.2186"	0°00'00.1152"	0.60
			ΔHt.	-91.447sft	0.017sft	-0.004sft	-0.25
			Dist.	16227.431sft	0.017sft	0.002sft	0.14
B29	1025	1024	Az.	270°01'41.3490"	0°00'00.0354"	-0°00'00.0185"	-0.05
			ΔHt.	20.846sft	0.018sft	-0.009sft	-0.60
			Dist.	10509.840sft	0.002sft	0.002sft	0.14

B471	62	61	Az.	179°47'31.5079"	0°00'00.2507"	0°00'00.1223"	0.57
			ΔHt.	148.631sft	0.018sft	0.006sft	0.43
			Dist.	14494.922sft	0.018sft	-0.009sft	-0.60
B533	21	11	Az.	272°02'56.4285"	0°00'00.3384"	-0°00'00.0696"	-0.50
			ΔHt.	17.184sft	0.027sft	0.002sft	0.21
			Dist.	16198.189sft	0.027sft	-0.006sft	-0.58
B110	1030	39	Az.	191°27'51.7104"	0°00'00.3617"	-0°00'00.0386"	-0.12
			ΔHt.	137.847sft	0.018sft	0.000sft	0.00
			Dist.	9640.373sft	0.017sft	-0.009sft	-0.57
B339	53	63	Az.	88°07'21.2405"	0°00'00.3544"	-0°00'00.0664"	-0.54
			ΔHt.	144.784sft	0.028sft	-0.002sft	-0.23
			Dist.	16501.593sft	0.028sft	-0.001sft	-0.08
B328	53	43	Az.	269°16'53.6985"	0°00'00.3146"	-0°00'00.0588"	-0.54
			ΔHt.	-36.737sft	0.028sft	0.002sft	0.23
			Dist.	18592.363sft	0.028sft	-0.001sft	-0.09
B177	9	1014	Az.	288°32'13.2893"	0°00'00.3204"	0°00'00.0494"	0.28
			ΔHt.	25.194sft	0.023sft	0.007sft	0.54
			Dist.	14889.023sft	0.023sft	0.004sft	0.31
B271	6	5	Az.	180°35'02.6813"	0°00'00.3213"	0°00'00.0787"	0.53
			ΔHt.	21.546sft	0.026sft	0.005sft	0.43
			Dist.	16326.212sft	0.025sft	-0.005sft	-0.40
B393	2063	24	Az.	327°52'58.2218"	0°00'00.6128"	0°00'00.0339"	0.11
			ΔHt.	-40.417sft	0.024sft	0.004sft	0.29
			Dist.	8363.724sft	0.025sft	0.006sft	0.53
B275	1011	8	Az.	149°46'38.0190"	0°00'00.3677"	0°00'00.1556"	0.53
			ΔHt.	75.272sft	0.021sft	-0.005sft	-0.39
			Dist.	10336.806sft	0.018sft	-0.003sft	-0.22
B56	1029	1032	Az.	180°29'38.1673"	0°00'00.0354"	-0°00'00.0276"	-0.12
			ΔHt.	-138.151sft	0.020sft	0.007sft	0.51
			Dist.	15653.948sft	0.003sft	0.004sft	0.21
B293	1009	1008	Az.	179°46'05.7582"	0°00'00.3316"	-0°00'00.0177"	-0.13

			ΔHt.	0.021sft	0.026sft	0.005sft	0.41
			Dist.	16413.111sft	0.026sft	-0.006sft	-0.51
B198	1018	1019	Az.	89°53'01.1629"	0°00'00.3566"	-0°00'00.0485"	-0.34
			ΔHt.	-15.974sft	0.027sft	0.006sft	0.51
			Dist.	15653.615sft	0.027sft	0.002sft	0.17
B32	1024	1030	Az.	178°03'18.6731"	0°00'00.0354"	-0°00'00.0548"	-0.36
			ΔHt.	-102.092sft	0.017sft	0.001sft	0.08
			Dist.	23439.203sft	0.004sft	-0.008sft	-0.49
B249	1008	6	Az.	89°24'25.7007"	0°00'00.2735"	-0°00'00.0006"	0.00
			ΔHt.	-32.970sft	0.020sft	0.007sft	0.48
			Dist.	15418.757sft	0.020sft	-0.003sft	-0.21
B413	1006	2001	Az.	111°18'22.8684"	0°00'00.3910"	-0°00'00.0769"	-0.45
			ΔHt.	-103.275sft	0.025sft	0.006sft	0.48
			Dist.	13723.414sft	0.026sft	-0.003sft	-0.23
B372	43	33	Az.	294°41'50.7218"	0°00'00.3806"	-0°00'00.0429"	-0.28
			ΔHt.	29.885sft	0.027sft	-0.005sft	-0.46
			Dist.	14581.209sft	0.027sft	0.001sft	0.07
B432	24	1054	Az.	278°49'52.9294"	0°00'00.9350"	0°00'00.1032"	0.26
			ΔHt.	54.267sft	0.026sft	-0.005sft	-0.46
			Dist.	5782.649sft	0.026sft	0.004sft	0.40
B188	49	39	Az.	265°38'34.3067"	0°00'00.2445"	0°00'00.0769"	0.45
			ΔHt.	107.209sft	0.021sft	0.005sft	0.37
			Dist.	16997.273sft	0.020sft	0.004sft	0.29
B434	4	2001	Az.	232°42'59.7725"	0°00'01.3667"	-0°00'00.2592"	-0.43
			ΔHt.	23.716sft	0.025sft	0.002sft	0.14
			Dist.	3922.923sft	0.026sft	0.003sft	0.26
B480	62	1042	Az.	89°02'43.4675"	0°00'00.2407"	-0°00'00.0005"	0.00
			ΔHt.	5.039sft	0.020sft	0.006sft	0.43
			Dist.	17028.348sft	0.020sft	-0.003sft	-0.19
B256	47	57	Az.	91°29'04.9360"	0°00'00.3208"	0°00'00.0608"	0.43
			ΔHt.	-77.905sft	0.026sft	-0.002sft	-0.14

			Dist.	16611.032sft	0.026sft	0.004sft	0.35
B55	1029	1032	Az.	180°29'38.1673"	0°00'00.0354"	-0°00'00.0117"	-0.05
			ΔHt.	-138.151sft	0.020sft	0.006sft	0.42
			Dist.	15653.948sft	0.003sft	-0.006sft	-0.37
B496	11	1	Az.	270°16'40.8411"	0°00'00.3450"	-0°00'00.0593"	-0.41
			ΔHt.	11.202sft	0.027sft	-0.001sft	-0.05
			Dist.	15853.381sft	0.027sft	-0.002sft	-0.15
B242	1011	1010	Az.	229°51'31.3008"	0°00'00.3107"	0°00'00.0310"	0.15
			ΔHt.	77.310sft	0.022sft	-0.004sft	-0.27
			Dist.	13980.772sft	0.021sft	0.006sft	0.41
B182	49	521	Az.	158°35'32.3689"	0°00'00.6912"	0°00'00.1194"	0.41
			ΔHt.	19.145sft	0.028sft	-0.002sft	-0.13
			Dist.	7878.760sft	0.026sft	-0.001sft	-0.06
B109	1030	39	Az.	191°27'51.7104"	0°00'00.3617"	0°00'00.1323"	0.41
			ΔHt.	137.847sft	0.018sft	-0.002sft	-0.16
			Dist.	9640.373sft	0.017sft	-0.005sft	-0.34
B528	509	62	Az.	114°49'50.7161"	0°00'00.3154"	-0°00'00.1089"	-0.40
			ΔHt.	-4.438sft	0.017sft	-0.002sft	-0.13
			Dist.	11487.277sft	0.018sft	-0.004sft	-0.28
B530	62	509	Az.	294°51'22.8126"	0°00'00.3153"	0°00'00.0187"	0.07
			ΔHt.	4.439sft	0.017sft	-0.002sft	-0.15
			Dist.	11487.277sft	0.018sft	0.006sft	0.39
B263	8	1010	Az.	269°43'11.3640"	0°00'00.2824"	0°00'00.0560"	0.32
			ΔHt.	2.038sft	0.022sft	-0.002sft	-0.16
			Dist.	15891.074sft	0.022sft	-0.005sft	-0.38
B484	12	11	Az.	180°22'44.4308"	0°00'00.3387"	0°00'00.0611"	0.38
			ΔHt.	50.614sft	0.025sft	-0.003sft	-0.23
			Dist.	15282.942sft	0.025sft	-0.001sft	-0.09
B236	56	46	Az.	272°18'03.6196"	0°00'00.3177"	-0°00'00.0218"	-0.14
			ΔHt.	139.805sft	0.024sft	-0.004sft	-0.36
			Dist.	15816.627sft	0.024sft	-0.004sft	-0.36

B391	33	23	Az.	242°40'43.9127"	0°00'00.2790"	0°00'00.0377"	0.26
			ΔHt.	-10.928sft	0.024sft	-0.004sft	-0.36
			Dist.	17864.559sft	0.024sft	-0.003sft	-0.23
B239	6	1008	Az.	269°26'42.7117"	0°00'00.2735"	-0°00'00.0350"	-0.19
			ΔHt.	32.971sft	0.020sft	0.003sft	0.22
			Dist.	15418.757sft	0.020sft	0.005sft	0.35
B250	5	1007	Az.	272°23'48.4459"	0°00'00.3448"	0°00'00.0003"	0.00
			ΔHt.	-150.121sft	0.025sft	0.004sft	0.35
			Dist.	15205.163sft	0.025sft	0.002sft	0.18
B403	13	2023	Az.	252°10'14.7108"	0°00'01.0412"	-0°00'00.1248"	-0.34
			ΔHt.	96.159sft	0.028sft	-0.003sft	-0.26
			Dist.	5573.766sft	0.028sft	-0.001sft	-0.11
B537	22	2060	Az.	359°06'53.6982"	0°00'01.9385"	0°00'00.0268"	0.03
			ΔHt.	44.121sft	0.026sft	-0.002sft	-0.15
			Dist.	2850.057sft	0.027sft	-0.004sft	-0.34
B535	23	2060	Az.	179°20'37.2348"	0°00'00.5378"	0°00'00.0077"	0.04
			ΔHt.	166.008sft	0.026sft	-0.002sft	-0.17
			Dist.	10274.373sft	0.027sft	-0.004sft	-0.34
B487	2	1004	Az.	266°42'33.0322"	0°00'00.2538"	0°00'00.0619"	0.33
			ΔHt.	90.621sft	0.020sft	0.000sft	0.03
			Dist.	15931.668sft	0.020sft	-0.004sft	-0.29
B392	3	2023	Az.	91°39'00.6613"	0°00'00.5493"	-0°00'00.0551"	-0.28
			ΔHt.	71.075sft	0.028sft	0.003sft	0.32
			Dist.	10573.805sft	0.028sft	-0.002sft	-0.21
B521	51	41	Az.	268°33'49.9712"	0°00'00.3419"	0°00'00.0463"	0.32
			ΔHt.	105.584sft	0.027sft	-0.002sft	-0.19
			Dist.	15812.883sft	0.026sft	-0.001sft	-0.13
B336	1007	1006	Az.	179°27'32.0120"	0°00'00.3529"	0°00'00.0350"	0.25
			ΔHt.	119.751sft	0.027sft	0.001sft	0.05
			Dist.	15772.544sft	0.027sft	-0.003sft	-0.29
B257	1038	66	Az.	269°04'30.2186"	0°00'00.2783"	0°00'00.0084"	0.04

			ΔHt.	96.332sft	0.020sft	-0.004sft	-0.29
			Dist.	14896.489sft	0.020sft	0.004sft	0.28
B217	1007	1008	Az.	359°44'30.6010"	0°00'00.3508"	0°00'00.0076"	0.05
			ΔHt.	161.547sft	0.026sft	0.000sft	0.04
			Dist.	15540.191sft	0.026sft	-0.003sft	-0.27
B515	1002	1004	Az.	0°30'10.9517"	0°00'00.3295"	0°00'00.0335"	0.20
			ΔHt.	20.289sft	0.024sft	-0.002sft	-0.19
			Dist.	15057.311sft	0.024sft	0.003sft	0.25
B268	66	1037	Az.	289°42'34.1638"	0°00'00.2916"	0°00'00.0025"	0.01
			ΔHt.	-90.279sft	0.023sft	0.003sft	0.25
			Dist.	16185.929sft	0.023sft	0.002sft	0.17
B28	1025	1024	Az.	270°01'41.3490"	0°00'00.0354"	-0°00'00.0390"	-0.11
			ΔHt.	20.846sft	0.018sft	-0.003sft	-0.19
			Dist.	10509.840sft	0.002sft	-0.002sft	-0.14
B161	10	71	Az.	313°57'31.0767"	0°00'00.2627"	0°00'00.0117"	0.08
			ΔHt.	0.826sft	0.023sft	-0.001sft	-0.06
			Dist.	18198.536sft	0.023sft	0.001sft	0.05

Geoid Observations

Number of Observations : 118

Number of Outliers : 0

Observation Adjustment (Critical Tau = 3.97). Any outliers are in red.

Observation ID	Point Name	Separation	A-posteriori Error (1.96σ)	Residual	Standardized Residual
G476	521	-102.951sft	0.236sft	0.373sft	3.11
G479	49	-103.091sft	0.253sft	0.277sft	2.49
G472	48	-103.107sft	0.245sft	0.280sft	2.42
G485	38	-103.416sft	0.253sft	0.224sft	2.02
G516	1006	-104.017sft	0.264sft	0.201sft	1.94
G517	1005	-104.091sft	0.274sft	0.183sft	1.89
G464	58	-102.913sft	0.253sft	0.207sft	1.87

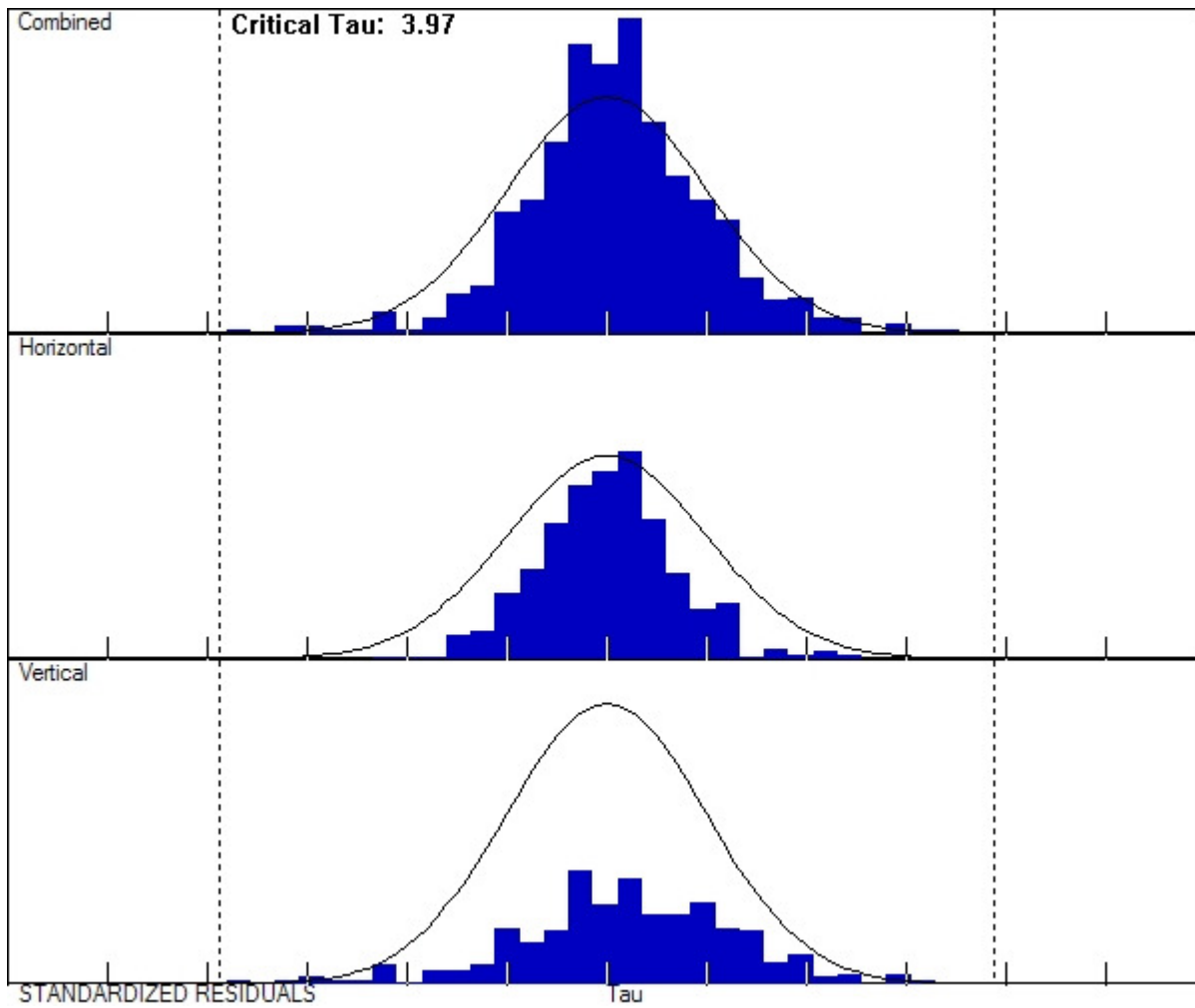
G478	59	-102.874sft	0.265sft	0.191sft	1.85
G503	47	-103.221sft	0.244sft	0.195sft	1.69
G461	39	-103.494sft	0.254sft	0.184sft	1.67
G486	28	-103.728sft	0.260sft	0.161sft	1.51
G502	37	-103.467sft	0.250sft	0.170sft	1.51
G540	1004	-104.217sft	0.285sft	0.129sft	1.45
G487	1010	-104.204sft	0.270sft	0.142sft	1.42
G488	1009	-104.073sft	0.263sft	0.147sft	1.40
G555	509	-104.196sft	0.251sft	-0.156sft	-1.40
G448	1011	-104.220sft	0.265sft	0.140sft	1.36
G505	8	-104.119sft	0.261sft	0.139sft	1.32
G481	29	-103.836sft	0.269sft	0.128sft	1.28
G508	7	-104.032sft	0.264sft	0.132sft	1.27
G493	18	-103.972sft	0.259sft	0.134sft	1.26
G494	27	-103.713sft	0.255sft	0.135sft	1.23
G490	57	-103.046sft	0.242sft	0.143sft	1.22
G483	1007	-104.038sft	0.260sft	0.129sft	1.21
G547	52	-104.273sft	0.267sft	-0.121sft	-1.18
G477	19	-104.065sft	0.276sft	0.111sft	1.16
G447	1012	-104.081sft	0.250sft	0.131sft	1.16
G484	1008	-104.022sft	0.259sft	0.124sft	1.16
G501	17	-103.914sft	0.258sft	0.122sft	1.14
G480	9	-104.244sft	0.279sft	0.105sft	1.13
G548	62	-104.165sft	0.277sft	-0.103sft	-1.09
G467	50	-103.233sft	0.275sft	0.103sft	1.08
G444	1030	-103.531sft	0.248sft	0.119sft	1.04
G544	51	-104.406sft	0.288sft	-0.086sft	-1.01
G455	1045	-102.071sft	0.295sft	0.080sft	1.01
G500	6	-103.990sft	0.262sft	0.105sft	1.00
G468	60	-102.914sft	0.281sft	0.087sft	0.96
G521	63	-103.871sft	0.267sft	-0.096sft	-0.94

G509	53	-104.002sft	0.255sft	-0.100sft	-0.91
G498	36	-103.545sft	0.247sft	0.103sft	0.90
G543	61	-104.346sft	0.296sft	-0.069sft	-0.88
G462	1035	-102.714sft	0.258sft	-0.090sft	-0.84
G518	3	-104.212sft	0.268sft	0.084sft	0.83
G491	1037	-103.140sft	0.224sft	0.104sft	0.82
G497	46	-103.385sft	0.242sft	0.096sft	0.82
G536	2002	-104.077sft	0.247sft	0.093sft	0.81
G475	40	-103.609sft	0.268sft	0.081sft	0.80
G504	5	-104.050sft	0.252sft	0.087sft	0.79
G551	2	-104.297sft	0.285sft	0.068sft	0.77
G537	2001	-104.168sft	0.254sft	0.084sft	0.76
G457	30	-103.916sft	0.280sft	0.070sft	0.75
G557	41	-104.433sft	0.285sft	-0.067sft	-0.75
G456	20	-104.183sft	0.291sft	0.060sft	0.72
G499	16	-103.939sft	0.254sft	0.077sft	0.70
G528	4	-104.163sft	0.255sft	0.074sft	0.68
G539	42	-104.265sft	0.263sft	-0.070sft	-0.67
G553	1041	-103.768sft	0.265sft	-0.066sft	-0.63
G492	56	-103.234sft	0.235sft	0.075sft	0.62
G507	26	-103.821sft	0.248sft	0.067sft	0.59
G474	10	-104.413sft	0.300sft	0.040sft	0.54
G460	1014	-104.433sft	0.283sft	0.049sft	0.54
G471	1033	-102.547sft	0.270sft	-0.052sft	-0.52
G534	64	-103.573sft	0.262sft	-0.054sft	-0.51
G523	54	-103.718sft	0.256sft	-0.054sft	-0.49
G463	68	-102.795sft	0.264sft	0.049sft	0.47
G496	1038	-103.022sft	0.248sft	-0.049sft	-0.43
G550	31	-104.448sft	0.282sft	-0.039sft	-0.43
G527	1040	-103.455sft	0.255sft	-0.047sft	-0.43
G470	69	-102.714sft	0.273sft	0.040sft	0.41

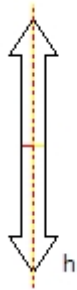
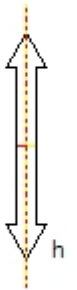
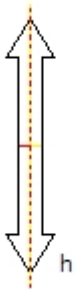
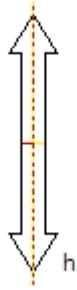
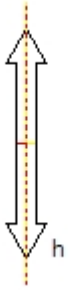

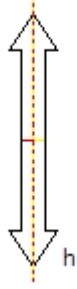
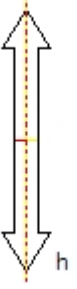
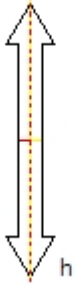
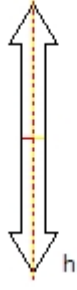
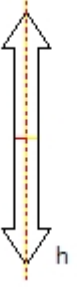
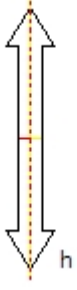
G489	67	-102.945sft	0.253sft	0.043sft	0.39
G531	24	-104.103sft	0.233sft	-0.047sft	-0.39
G469	70	-102.695sft	0.283sft	0.034sft	0.38
G535	1054	-104.129sft	0.228sft	-0.047sft	-0.38
G515	2059	-104.032sft	0.223sft	-0.047sft	-0.37
G445	1026	-103.128sft	0.278sft	0.032sft	0.34
G541	1001	-104.442sft	0.309sft	-0.022sft	-0.34
G459	1015	-104.519sft	0.296sft	0.026sft	0.34
G533	2023	-104.245sft	0.249sft	0.037sft	0.33
G443	1025	-103.369sft	0.275sft	0.031sft	0.32
G549	32	-104.286sft	0.261sft	-0.034sft	-0.32
G519	2063	-104.135sft	0.228sft	-0.039sft	-0.31
G458	1013	-104.437sft	0.281sft	0.028sft	0.30
G552	1042	-104.033sft	0.277sft	-0.028sft	-0.29
G510	43	-104.074sft	0.233sft	-0.036sft	-0.29
G529	33	-104.080sft	0.241sft	-0.033sft	-0.28
G495	1036	-102.815sft	0.251sft	-0.031sft	-0.28
G446	1118	-102.906sft	0.282sft	0.025sft	0.27
G538	34	-103.951sft	0.239sft	-0.031sft	-0.26
G451	1029	-102.299sft	0.300sft	0.019sft	0.26
G546	12	-104.333sft	0.273sft	0.025sft	0.25
G524	44	-103.822sft	0.246sft	-0.028sft	-0.25
G473	1020	-103.977sft	0.280sft	0.022sft	0.24
G512	15	-104.024sft	0.245sft	0.026sft	0.23
G545	1	-104.421sft	0.299sft	0.017sft	0.23
G511	25	-103.975sft	0.230sft	-0.025sft	-0.21
G452	1028	-102.496sft	0.293sft	0.016sft	0.19
G450	1027	-102.692sft	0.286sft	0.016sft	0.18
G514	45	-103.573sft	0.246sft	0.021sft	0.18
G525	13	-104.240sft	0.251sft	0.019sft	0.17
G532	14	-104.114sft	0.234sft	0.020sft	0.17

G454	1032	-102.430sft	0.283sft	-0.014sft	-0.16
G558	21	-104.460sft	0.283sft	-0.014sft	-0.16
G465	1019	-104.285sft	0.287sft	0.013sft	0.15
G466	71	-104.581sft	0.307sft	0.010sft	0.15
G482	1018	-104.488sft	0.298sft	0.011sft	0.14
G526	1039	-103.165sft	0.252sft	-0.015sft	-0.14
G506	66	-103.113sft	0.250sft	0.013sft	0.12
G513	55	-103.434sft	0.249sft	0.012sft	0.11
G530	65	-103.313sft	0.256sft	-0.011sft	-0.10
G520	23	-104.237sft	0.248sft	-0.011sft	-0.10
G559	1002	-104.405sft	0.299sft	0.007sft	0.09
G522	35	-103.746sft	0.241sft	0.010sft	0.08
G560	2060	-104.293sft	0.247sft	0.008sft	0.07
G453	1174	-102.597sft	0.275sft	0.005sft	0.06
G554	11	-104.451sft	0.291sft	0.004sft	0.05
G556	1044	-104.501sft	0.307sft	-0.003sft	-0.04
G542	22	-104.321sft	0.254sft	0.005sft	0.04
G449	1024	-103.654sft	0.276sft	0.002sft	0.02

Histograms of Standardized Residuals



Point Error Ellipses

1025	1030	1026
		
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
1118	1012	1011
		
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
1024	1027	1029
		
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
1028	1174	1032
		
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

1045	20	30
 0°	 -89°	 86°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
1013	1015	1014
 -75°	 -65°	 -84°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
39	1035	68
 -81°	 72°	 76°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
58	1019	71
 71°	 86°	 -71°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

50	60	70
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
69	1033	48
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
1020	10	40
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
521	19	59
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

49	9	29
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
1018	1007	1008
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
38	28	1010
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
1009	67	57
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

1037	56	18
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
27	1036	1038
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
46	36	16
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
6	17	37
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

47	5	8
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
66	26	7
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
53	43	25
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
15	55	45
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

2059	1006	2063
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
23	63	35
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
54	44	13
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
1039	1040	1005
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

4	3	33
86°	87°	-89°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
65	24	14
76°	-83°	78°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
2023	64	1054
-87°	82°	87°
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
2002	2001	34
77°	75°	89°
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		

42	1004	1001
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
22	61	51
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
1	12	52
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
62	32	31
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

2	1042	1041
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
11	509	1044
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
41	21	1002
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		
2060		
Tick Size: 0.0100sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ		

Covariant Terms

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

From Point	To Point		Components	A-posteriori Error (1.96σ)	Horiz. Precision (Ratio)	3D Precision (Ratio)
1025	1030	Az.	202°32'58.9932"	0°00'00.0000"	1:0	1:0
		ΔHt.	-81.259sft	0.055sft		
		ΔElev.	-81.098sft	0.000sft		
		Dist.	25359.727sft	0.000sft		
1025	1026	Az.	90°00'26.1791"	0°00'00.0000"	1:0	1:0
		ΔHt.	-16.452sft	0.036sft		
		ΔElev.	-16.693sft	0.000sft		
		Dist.	10657.777sft	0.000sft		
1025	1024	Az.	270°01'41.3803"	0°00'00.0000"	1:0	1:0
		ΔHt.	20.847sft	0.029sft		
		ΔElev.	21.132sft	0.000sft		
		Dist.	10509.842sft	0.000sft		
1025	50	Az.	160°19'17.5047"	0°00'00.2628"	1:782730	1:782730
		ΔHt.	-4.912sft	0.036sft		
		ΔElev.	-5.048sft	0.085sft		
		Dist.	13916.179sft	0.018sft		
1030	1024	Az.	358°03'25.8158"	0°00'00.0000"	1:0	1:0
		ΔHt.	102.107sft	0.051sft		
		ΔElev.	102.230sft	0.000sft		
		Dist.	23439.208sft	0.000sft		
1030	39	Az.	191°27'51.7417"	0°00'00.3629"	1:567091	1:567091
		ΔHt.	137.842sft	0.027sft		
		ΔElev.	137.805sft	0.084sft		
		Dist.	9640.376sft	0.017sft		
1030	40	Az.	345°20'52.4417"	0°00'00.3916"	1:525351	1:525351

		ΔHt.	53.924sft	0.023sft		
		ΔElev.	54.002sft	0.072sft		
		Dist.	7819.451sft	0.015sft		
1030	49	Az.	118°27'14.5745"	0°00'00.1912"	1:1079310	1:1079310
		ΔHt.	30.630sft	0.041sft		
		ΔElev.	30.190sft	0.075sft		
		Dist.	17096.463sft	0.016sft		
1026	1118	Az.	85°19'57.3748"	0°00'00.0000"	1:0	1:0
		ΔHt.	23.954sft	0.035sft		
		ΔElev.	23.731sft	0.000sft		
		Dist.	10396.277sft	0.000sft		
1118	1027	Az.	94°21'20.4680"	0°00'00.0000"	1:0	1:0
		ΔHt.	-42.097sft	0.037sft		
		ΔElev.	-42.311sft	0.000sft		
		Dist.	10891.224sft	0.000sft		
1118	60	Az.	179°34'28.1630"	0°00'00.2909"	1:707374	1:707374
		ΔHt.	-32.602sft	0.040sft		
		ΔElev.	-32.593sft	0.090sft		
		Dist.	14475.244sft	0.020sft		
1012	1011	Az.	310°21'58.2225"	0°00'00.0000"	1:0	1:0
		ΔHt.	-83.829sft	0.038sft		
		ΔElev.	-83.690sft	0.000sft		
		Dist.	13887.402sft	0.000sft		
1012	18	Az.	89°48'52.9964"	0°00'00.5363"	1:384716	1:384716
		ΔHt.	-17.767sft	0.037sft		
		ΔElev.	-17.875sft	0.093sft		
		Dist.	10430.002sft	0.027sft		
1012	8	Az.	270°38'30.8965"	0°00'00.7006"	1:294544	1:294544
		ΔHt.	-8.564sft	0.027sft		
		ΔElev.	-8.526sft	0.062sft		
		Dist.	5382.356sft	0.018sft		

1011	1013	Az.	302°45'32.5625"	0°00'00.3574"	1:577096	1:577096
		ΔHt.	25.004sft	0.035sft		
		ΔElev.	25.220sft	0.000sft		
		Dist.	12650.392sft	0.022sft		
1011	1010	Az.	229°51'31.3322"	0°00'00.3142"	1:656704	1:656704
		ΔHt.	77.306sft	0.037sft		
		ΔElev.	77.290sft	0.000sft		
		Dist.	13980.775sft	0.021sft		
1011	8	Az.	149°46'38.0504"	0°00'00.3647"	1:565482	1:565482
		ΔHt.	75.265sft	0.031sft		
		ΔElev.	75.164sft	0.062sft		
		Dist.	10336.808sft	0.018sft		
1024	1020	Az.	271°38'06.4156"	0°00'00.3308"	1:624038	1:624038
		ΔHt.	-3.033sft	0.042sft		
		ΔElev.	-2.710sft	0.000sft		
		Dist.	15341.503sft	0.025sft		
1024	40	Az.	184°15'52.8667"	0°00'00.1926"	1:1068701	1:1068701
		ΔHt.	-48.182sft	0.038sft		
		ΔElev.	-48.228sft	0.072sft		
		Dist.	15904.653sft	0.015sft		
1027	1028	Az.	89°38'04.0331"	0°00'00.0000"	1:0	1:0
		ΔHt.	-35.123sft	0.036sft		
		ΔElev.	-35.319sft	0.000sft		
		Dist.	10585.226sft	0.000sft		
1029	1028	Az.	269°55'49.4502"	0°00'00.0000"	1:0	1:0
		ΔHt.	-58.761sft	0.034sft		
		ΔElev.	-58.564sft	0.000sft		
		Dist.	10603.615sft	0.000sft		
1029	1032	Az.	180°29'38.1987"	0°00'00.0000"	1:0	1:0
		ΔHt.	-138.161sft	0.038sft		
		ΔElev.	-138.030sft	0.000sft		

		Dist.	15653.952sft	0.000sft		
1029	1045	Az.	143°21'27.2261"	0°00'00.0000"	1:0	1:0
		ΔHt.	-4.182sft	0.086sft		
		ΔElev.	-4.410sft	0.000sft		
		Dist.	39394.477sft	0.000sft		
1028	1174	Az.	180°14'53.1549"	0°00'00.0000"	1:0	1:0
		ΔHt.	-73.874sft	0.041sft		
		ΔElev.	-73.773sft	0.000sft		
		Dist.	15695.846sft	0.000sft		
1174	1032	Az.	89°40'25.0960"	0°00'00.0000"	1:0	1:0
		ΔHt.	-5.526sft	0.033sft		
		ΔElev.	-5.693sft	0.000sft		
		Dist.	10543.989sft	0.000sft		
1174	70	Az.	283°02'46.2724"	0°00'00.6187"	1:334093	1:334093
		ΔHt.	25.247sft	0.032sft		
		ΔElev.	25.345sft	0.075sft		
		Dist.	7626.758sft	0.023sft		
1032	1045	Az.	124°00'35.6913"	0°00'00.0000"	1:0	1:0
		ΔHt.	133.979sft	0.065sft		
		ΔElev.	133.620sft	0.000sft		
		Dist.	28526.069sft	0.000sft		
1032	1033	Az.	179°31'07.5796"	0°00'00.2611"	1:788339	1:788339
		ΔHt.	168.343sft	0.039sft		
		ΔElev.	168.460sft	0.000sft		
		Dist.	15184.080sft	0.019sft		
1045	1035	Az.	235°33'46.0248"	0°00'00.1567"	1:1315094	1:1315094
		ΔHt.	-32.994sft	0.064sft		
		ΔElev.	-32.350sft	0.000sft		
		Dist.	28195.616sft	0.021sft		
1045	1033	Az.	271°56'20.3867"	0°00'00.1688"	1:1224478	1:1224478
		ΔHt.	34.364sft	0.055sft		

		ΔElev.	34.840sft	0.000sft		
		Dist.	23531.561sft	0.019sft		
20	30	Az.	90°30'09.3674"	0°00'00.3235"	1:638016	1:638016
		ΔHt.	-40.627sft	0.041sft		
		ΔElev.	-40.894sft	0.104sft		
		Dist.	15486.014sft	0.024sft		
20	1019	Az.	359°46'53.8511"	0°00'00.3335"	1:617787	1:617787
		ΔHt.	-85.681sft	0.041sft		
		ΔElev.	-85.579sft	0.096sft		
		Dist.	15615.198sft	0.025sft		
20	10	Az.	279°11'16.6642"	0°00'00.3085"	1:668774	1:668774
		ΔHt.	-13.767sft	0.042sft		
		ΔElev.	-13.538sft	0.104sft		
		Dist.	15959.069sft	0.024sft		
20	19	Az.	178°41'17.9300"	0°00'00.3246"	1:635321	1:635321
		ΔHt.	-18.775sft	0.041sft		
		ΔElev.	-18.893sft	0.106sft		
		Dist.	15947.624sft	0.025sft		
30	1020	Az.	3°18'20.4775"	0°00'00.3102"	1:664244	1:664244
		ΔHt.	-4.796sft	0.042sft		
		ΔElev.	-4.735sft	0.093sft		
		Dist.	16297.626sft	0.025sft		
30	40	Az.	90°04'03.9954"	0°00'00.3165"	1:652043	1:652043
		ΔHt.	-49.945sft	0.040sft		
		ΔElev.	-50.253sft	0.102sft		
		Dist.	15103.811sft	0.023sft		
30	29	Az.	183°40'22.2508"	0°00'00.3105"	1:664244	1:664244
		ΔHt.	20.340sft	0.041sft		
		ΔElev.	20.259sft	0.109sft		
		Dist.	15841.585sft	0.024sft		
1013	1015	Az.	355°51'31.9976"	0°00'00.3326"	1:619865	1:619865

		ΔHt.	76.788sft	0.041sft		
		ΔElev.	76.870sft	0.000sft		
		Dist.	15863.921sft	0.026sft		
1013	1014	Az.	28°58'00.6164"	0°00'00.8953"	1:230304	1:230304
		ΔHt.	64.364sft	0.025sft		
		ΔElev.	64.360sft	0.000sft		
		Dist.	5449.965sft	0.024sft		
1013	9	Az.	89°50'46.9796"	0°00'00.2599"	1:793797	1:793797
		ΔHt.	39.164sft	0.042sft		
		ΔElev.	38.972sft	0.080sft		
		Dist.	16759.485sft	0.021sft		
1013	1010	Az.	180°09'06.3970"	0°00'00.3072"	1:671269	1:671269
		ΔHt.	52.303sft	0.040sft		
		ΔElev.	52.070sft	0.000sft		
		Dist.	15858.348sft	0.024sft		
1015	71	Az.	13°55'17.3623"	0°00'00.3327"	1:619888	1:619888
		ΔHt.	-12.967sft	0.041sft		
		ΔElev.	-12.905sft	0.094sft		
		Dist.	15802.569sft	0.025sft		
1015	10	Az.	80°52'37.5584"	0°00'00.2801"	1:736716	1:736716
		ΔHt.	-13.803sft	0.043sft		
		ΔElev.	-13.909sft	0.085sft		
		Dist.	17127.951sft	0.023sft		
1014	10	Az.	43°38'15.1119"	0°00'00.2601"	1:792557	1:792557
		ΔHt.	-1.378sft	0.046sft		
		ΔElev.	-1.399sft	0.085sft		
		Dist.	19023.475sft	0.024sft		
1014	9	Az.	108°30'07.2528"	0°00'00.3221"	1:640857	1:640857
		ΔHt.	-25.200sft	0.039sft		
		ΔElev.	-25.388sft	0.080sft		
		Dist.	14889.026sft	0.023sft		

39	40	Az.	359°47'13.4365"	0°00'00.2369"	1:868214	1:868214
		ΔHt.	-83.917sft	0.041sft		
		ΔElev.	-83.802sft	0.110sft		
		Dist.	17013.307sft	0.020sft		
39	49	Az.	85°36'03.0451"	0°00'00.2444"	1:845956	1:845956
		ΔHt.	-107.211sft	0.042sft		
		ΔElev.	-107.615sft	0.105sft		
		Dist.	16997.277sft	0.020sft		
39	29	Az.	274°21'11.3373"	0°00'00.2978"	1:693119	1:693119
		ΔHt.	-13.632sft	0.043sft		
		ΔElev.	-13.290sft	0.109sft		
		Dist.	16239.052sft	0.023sft		
1035	68	Az.	278°27'54.8825"	0°00'00.2926"	1:705824	1:705824
		ΔHt.	32.786sft	0.043sft		
		ΔElev.	32.867sft	0.096sft		
		Dist.	16439.252sft	0.023sft		
1035	1033	Az.	359°02'21.8945"	0°00'00.2853"	1:721178	1:721178
		ΔHt.	67.358sft	0.042sft		
		ΔElev.	67.190sft	0.000sft		
		Dist.	16742.976sft	0.023sft		
1035	1036	Az.	179°59'15.0844"	0°00'00.3309"	1:622957	1:622957
		ΔHt.	-13.951sft	0.042sft		
		ΔElev.	-13.850sft	0.000sft		
		Dist.	15864.145sft	0.025sft		
68	58	Az.	261°23'30.5141"	0°00'00.3265"	1:632052	1:632052
		ΔHt.	-47.266sft	0.043sft		
		ΔElev.	-47.148sft	0.105sft		
		Dist.	16143.537sft	0.026sft		
68	69	Az.	2°49'21.2363"	0°00'00.3741"	1:550538	1:550538
		ΔHt.	3.601sft	0.037sft		
		ΔElev.	3.520sft	0.100sft		

		Dist.	13534.794sft	0.025sft		
68	67	Az.	180°25'59.3943"	0°00'00.2810"	1:733529	1:733529
		ΔHt.	-69.964sft	0.045sft		
		ΔElev.	-69.814sft	0.109sft		
		Dist.	18223.981sft	0.025sft		
58	48	Az.	260°19'26.0634"	0°00'00.3089"	1:667987	1:667987
		ΔHt.	38.937sft	0.042sft		
		ΔElev.	39.131sft	0.114sft		
		Dist.	16221.672sft	0.024sft		
58	49	Az.	315°01'45.4084"	0°00'00.2131"	1:967968	1:967968
		ΔHt.	11.984sft	0.053sft		
		ΔElev.	12.161sft	0.120sft		
		Dist.	22511.977sft	0.023sft		
1019	1020	Az.	88°11'28.1521"	0°00'00.3339"	1:618687	1:618687
		ΔHt.	40.258sft	0.044sft		
		ΔElev.	39.950sft	0.000sft		
		Dist.	16481.990sft	0.027sft		
1019	1018	Az.	269°55'21.3669"	0°00'00.3568"	1:578363	1:578363
		ΔHt.	15.976sft	0.043sft		
		ΔElev.	16.180sft	0.000sft		
		Dist.	15653.619sft	0.027sft		
71	10	Az.	133°55'33.8454"	0°00'00.2651"	1:777369	1:777369
		ΔHt.	-0.836sft	0.045sft		
		ΔElev.	-1.004sft	0.124sft		
		Dist.	18198.540sft	0.023sft		
71	1018	Az.	88°09'51.1184"	0°00'00.4028"	1:512432	1:512432
		ΔHt.	-56.773sft	0.038sft		
		ΔElev.	-56.865sft	0.094sft		
		Dist.	13138.839sft	0.026sft		
50	60	Az.	91°49'42.4362"	0°00'00.2831"	1:730442	1:730442
		ΔHt.	-20.188sft	0.043sft		

		ΔElev.	-20.507sft	0.103sft		
		Dist.	16462.012sft	0.023sft		
50	40	Az.	260°28'46.7346"	0°00'00.2261"	1:914810	1:914810
		ΔHt.	-22.423sft	0.040sft		
		ΔElev.	-22.047sft	0.102sft		
		Dist.	16615.367sft	0.018sft		
50	49	Az.	178°05'58.9754"	0°00'00.2262"	1:909926	1:909926
		ΔHt.	-45.717sft	0.044sft		
		ΔElev.	-45.860sft	0.099sft		
		Dist.	18479.763sft	0.020sft		
60	70	Az.	91°04'44.0615"	0°00'00.3587"	1:576023	1:576023
		ΔHt.	-93.246sft	0.040sft		
		ΔElev.	-93.465sft	0.095sft		
		Dist.	13854.849sft	0.024sft		
60	59	Az.	179°16'29.5140"	0°00'00.2806"	1:734155	1:734155
		ΔHt.	5.738sft	0.045sft		
		ΔElev.	5.698sft	0.108sft		
		Dist.	17966.062sft	0.024sft		
70	69	Az.	170°57'13.0361"	0°00'00.2845"	1:724046	1:724046
		ΔHt.	106.599sft	0.045sft		
		ΔElev.	106.618sft	0.105sft		
		Dist.	17876.481sft	0.025sft		
69	1033	Az.	86°57'31.6942"	0°00'00.3176"	1:650233	1:650233
		ΔHt.	30.970sft	0.041sft		
		ΔElev.	30.804sft	0.091sft		
		Dist.	15324.500sft	0.024sft		
69	59	Az.	269°51'45.3632"	0°00'00.3114"	1:663258	1:663258
		ΔHt.	-7.616sft	0.044sft		
		ΔElev.	-7.456sft	0.104sft		
		Dist.	16446.487sft	0.025sft		
48	521	Az.	14°34'42.5470"	0°00'00.4657"	1:442277	1:442277

		ΔHt.	-7.814sft	0.038sft		
		ΔElev.	-7.970sft	0.093sft		
		Dist.	11694.403sft	0.026sft		
48	49	Az.	0°12'29.4021"	0°00'00.2288"	1:900092	1:900092
		ΔHt.	-26.953sft	0.044sft		
		ΔElev.	-26.970sft	0.117sft		
		Dist.	18653.184sft	0.021sft		
48	38	Az.	279°27'55.0224"	0°00'00.3649"	1:565366	1:565366
		ΔHt.	-13.024sft	0.044sft		
		ΔElev.	-12.714sft	0.111sft		
		Dist.	15826.274sft	0.028sft		
48	47	Az.	179°26'16.2933"	0°00'00.4184"	1:492810	1:492810
		ΔHt.	25.261sft	0.037sft		
		ΔElev.	25.374sft	0.098sft		
		Dist.	12679.990sft	0.026sft		
10	9	Az.	176°57'49.1296"	0°00'00.2446"	1:843410	1:843410
		ΔHt.	-23.821sft	0.044sft		
		ΔElev.	-23.990sft	0.100sft		
		Dist.	18519.081sft	0.022sft		
10	1018	Az.	0°08'30.3294"	0°00'00.3771"	1:546766	1:546766
		ΔHt.	-55.937sft	0.036sft		
		ΔElev.	-55.861sft	0.085sft		
		Dist.	13045.795sft	0.024sft		
521	49	Az.	338°35'58.0608"	0°00'00.6906"	1:298317	1:298317
		ΔHt.	-19.139sft	0.033sft		
		ΔElev.	-19.000sft	0.075sft		
		Dist.	7878.762sft	0.026sft		
19	9	Az.	269°59'35.1836"	0°00'00.3409"	1:605155	1:605155
		ΔHt.	-18.814sft	0.041sft		
		ΔElev.	-18.635sft	0.104sft		
		Dist.	15151.051sft	0.025sft		

19	29	Az.	90°00'34.3290"	0°00'00.3736"	1:552378	1:552378
		ΔHt.	-1.513sft	0.040sft		
		ΔElev.	-1.741sft	0.104sft		
		Dist.	14116.163sft	0.026sft		
59	49	Az.	270°06'47.0798"	0°00'00.3068"	1:673152	1:673152
		ΔHt.	-31.267sft	0.043sft		
		ΔElev.	-31.051sft	0.108sft		
		Dist.	16081.033sft	0.024sft		
9	8	Az.	183°20'13.1421"	0°00'00.3067"	1:672453	1:672453
		ΔHt.	11.098sft	0.040sft		
		ΔElev.	10.972sft	0.099sft		
		Dist.	15840.828sft	0.024sft		
29	28	Az.	173°49'32.4028"	0°00'00.3327"	1:619912	1:619912
		ΔHt.	-36.174sft	0.042sft		
		ΔElev.	-36.282sft	0.113sft		
		Dist.	15863.256sft	0.026sft		
1007	1008	Az.	359°44'30.6324"	0°00'00.3488"	1:590977	1:590977
		ΔHt.	161.556sft	0.041sft		
		ΔElev.	161.540sft	0.000sft		
		Dist.	15540.195sft	0.026sft		
1007	5	Az.	92°21'33.6806"	0°00'00.3458"	1:596687	1:596687
		ΔHt.	150.118sft	0.041sft		
		ΔElev.	150.130sft	0.067sft		
		Dist.	15205.166sft	0.025sft		
1007	1006	Az.	179°27'32.0434"	0°00'00.3506"	1:587850	1:587850
		ΔHt.	119.741sft	0.042sft		
		ΔElev.	119.720sft	0.000sft		
		Dist.	15772.548sft	0.027sft		
1008	1009	Az.	359°46'06.3797"	0°00'00.3297"	1:625007	1:625007
		ΔHt.	-0.011sft	0.043sft		
		ΔElev.	0.040sft	0.000sft		

		Dist.	16413.114sft	0.026sft		
1008	6	Az.	89°24'25.7321"	0°00'00.2751"	1:749913	1:749913
		ΔHt.	-32.973sft	0.039sft		
		ΔElev.	-33.006sft	0.094sft		
		Dist.	15418.761sft	0.021sft		
38	28	Az.	270°47'44.9344"	0°00'00.3659"	1:563851	1:563851
		ΔHt.	43.475sft	0.044sft		
		ΔElev.	43.787sft	0.111sft		
		Dist.	15778.958sft	0.028sft		
28	18	Az.	269°46'00.9101"	0°00'00.3471"	1:594304	1:594304
		ΔHt.	20.767sft	0.045sft		
		ΔElev.	21.012sft	0.108sft		
		Dist.	16103.667sft	0.027sft		
28	27	Az.	179°49'03.9159"	0°00'00.3424"	1:602600	1:602600
		ΔHt.	11.197sft	0.042sft		
		ΔElev.	11.183sft	0.114sft		
		Dist.	15908.226sft	0.026sft		
1010	1009	Az.	179°09'41.3749"	0°00'00.3418"	1:602965	1:602965
		ΔHt.	-26.649sft	0.042sft		
		ΔElev.	-26.780sft	0.000sft		
		Dist.	15808.746sft	0.026sft		
1010	8	Az.	89°40'49.7447"	0°00'00.2843"	1:725781	1:725781
		ΔHt.	-2.041sft	0.040sft		
		ΔElev.	-2.126sft	0.062sft		
		Dist.	15891.078sft	0.022sft		
1009	7	Az.	89°52'47.9503"	0°00'00.3360"	1:614137	1:614137
		ΔHt.	-61.983sft	0.041sft		
		ΔElev.	-62.024sft	0.091sft		
		Dist.	15349.739sft	0.025sft		
67	57	Az.	269°50'37.5241"	0°00'00.3483"	1:592527	1:592527
		ΔHt.	8.988sft	0.041sft		

		ΔElev.	9.088sft	0.104sft		
		Dist.	15104.979sft	0.025sft		
67	1036	Az.	90°10'17.8830"	0°00'00.2539"	1:812781	1:812781
		ΔHt.	23.227sft	0.040sft		
		ΔElev.	23.098sft	0.090sft		
		Dist.	16414.297sft	0.020sft		
67	66	Az.	175°55'12.4019"	0°00'00.2914"	1:707590	1:707590
		ΔHt.	46.345sft	0.041sft		
		ΔElev.	46.513sft	0.108sft		
		Dist.	16239.384sft	0.023sft		
57	1037	Az.	174°30'15.3181"	0°00'00.4851"	1:425034	1:425034
		ΔHt.	-52.915sft	0.034sft		
		ΔElev.	-52.821sft	0.088sft		
		Dist.	10747.803sft	0.025sft		
57	47	Az.	271°31'32.7644"	0°00'00.3205"	1:643955	1:643955
		ΔHt.	77.909sft	0.044sft		
		ΔElev.	78.083sft	0.114sft		
		Dist.	16611.036sft	0.026sft		
1037	56	Az.	193°19'22.8046"	0°00'00.7110"	1:289933	1:289933
		ΔHt.	19.564sft	0.027sft		
		ΔElev.	19.657sft	0.078sft		
		Dist.	6826.498sft	0.024sft		
1037	46	Az.	250°55'52.7210"	0°00'00.2586"	1:797939	1:797939
		ΔHt.	159.372sft	0.045sft		
		ΔElev.	159.616sft	0.108sft		
		Dist.	18385.809sft	0.023sft		
1037	66	Az.	109°40'18.7327"	0°00'00.2921"	1:706793	1:706793
		ΔHt.	90.273sft	0.041sft		
		ΔElev.	90.246sft	0.087sft		
		Dist.	16185.933sft	0.023sft		
56	46	Az.	272°18'03.6510"	0°00'00.3181"	1:648700	1:648700

		ΔHt.	139.808sft	0.042sft		
		ΔElev.	139.958sft	0.111sft		
		Dist.	15816.630sft	0.024sft		
56	66	Az.	85°56'02.9133"	0°00'00.2982"	1:691787	1:691787
		ΔHt.	70.709sft	0.043sft		
		ΔElev.	70.588sft	0.104sft		
		Dist.	16856.700sft	0.024sft		
27	17	Az.	272°00'01.9613"	0°00'00.3670"	1:562241	1:562241
		ΔHt.	-1.941sft	0.044sft		
		ΔElev.	-1.741sft	0.114sft		
		Dist.	15963.311sft	0.028sft		
27	37	Az.	90°26'17.1169"	0°00'00.3715"	1:555372	1:555372
		ΔHt.	-1.753sft	0.044sft		
		ΔElev.	-2.000sft	0.113sft		
		Dist.	15739.915sft	0.028sft		
27	26	Az.	186°53'51.0110"	0°00'00.3344"	1:616669	1:616669
		ΔHt.	-33.507sft	0.043sft		
		ΔElev.	-33.400sft	0.112sft		
		Dist.	16193.079sft	0.026sft		
1036	1038	Az.	181°21'13.6263"	0°00'00.3262"	1:632150	1:632150
		ΔHt.	-73.217sft	0.041sft		
		ΔElev.	-73.010sft	0.000sft		
		Dist.	15902.468sft	0.025sft		
1038	66	Az.	269°04'30.2500"	0°00'00.2795"	1:738058	1:738058
		ΔHt.	96.335sft	0.038sft		
		ΔElev.	96.426sft	0.087sft		
		Dist.	14896.492sft	0.020sft		
1038	1039	Az.	172°05'12.4830"	0°00'00.3384"	1:609379	1:609379
		ΔHt.	93.108sft	0.042sft		
		ΔElev.	93.250sft	0.000sft		
		Dist.	16019.752sft	0.026sft		

46	36	Az.	282°42'47.5812"	0°00'00.3935"	1:524349	1:524349
		ΔHt.	-31.621sft	0.043sft		
		ΔElev.	-31.461sft	0.110sft		
		Dist.	14842.834sft	0.028sft		
46	47	Az.	359°05'53.8041"	0°00'00.2956"	1:697029	1:697029
		ΔHt.	-28.548sft	0.043sft		
		ΔElev.	-28.712sft	0.116sft		
		Dist.	17150.068sft	0.025sft		
46	45	Az.	179°26'54.2373"	0°00'00.3388"	1:608590	1:608590
		ΔHt.	-10.557sft	0.042sft		
		ΔElev.	-10.369sft	0.112sft		
		Dist.	15739.530sft	0.026sft		
36	26	Az.	262°18'17.3553"	0°00'00.3012"	1:685158	1:685158
		ΔHt.	-14.045sft	0.050sft		
		ΔElev.	-13.769sft	0.122sft		
		Dist.	19414.342sft	0.028sft		
16	6	Az.	269°56'34.7152"	0°00'00.3591"	1:574596	1:574596
		ΔHt.	34.472sft	0.045sft		
		ΔElev.	34.523sft	0.110sft		
		Dist.	16312.122sft	0.028sft		
16	26	Az.	89°13'15.2323"	0°00'00.4195"	1:491767	1:491767
		ΔHt.	39.763sft	0.041sft		
		ΔElev.	39.645sft	0.108sft		
		Dist.	13951.820sft	0.028sft		
6	5	Az.	180°35'02.7127"	0°00'00.3197"	1:645046	1:645046
		ΔHt.	21.536sft	0.042sft		
		ΔElev.	21.596sft	0.099sft		
		Dist.	16326.216sft	0.025sft		
6	7	Az.	359°33'52.8020"	0°00'00.3154"	1:653166	1:653166
		ΔHt.	-29.020sft	0.042sft		
		ΔElev.	-28.978sft	0.104sft		

		Dist.	16286.101sft	0.025sft		
17	7	Az.	268°05'43.8904"	0°00'00.3580"	1:576338	1:576338
		ΔHt.	-65.876sft	0.045sft		
		ΔElev.	-65.758sft	0.113sft		
		Dist.	16363.682sft	0.028sft		
37	47	Az.	88°00'14.6898"	0°00'00.3711"	1:555848	1:555848
		ΔHt.	-14.636sft	0.044sft		
		ΔElev.	-14.882sft	0.113sft		
		Dist.	15753.377sft	0.028sft		
5	15	Az.	89°37'29.0925"	0°00'00.3556"	1:580254	1:580254
		ΔHt.	22.230sft	0.045sft		
		ΔElev.	22.204sft	0.096sft		
		Dist.	16507.101sft	0.028sft		
5	2002	Az.	199°10'47.0534"	0°00'01.1635"	1:177076	1:177076
		ΔHt.	-151.417sft	0.029sft		
		ΔElev.	-151.390sft	0.067sft		
		Dist.	4975.359sft	0.028sft		
8	7	Az.	181°09'28.9851"	0°00'00.3221"	1:640025	1:640025
		ΔHt.	-86.591sft	0.042sft		
		ΔElev.	-86.678sft	0.101sft		
		Dist.	15866.386sft	0.025sft		
66	65	Az.	182°54'09.1722"	0°00'00.3420"	1:602904	1:602904
		ΔHt.	-134.372sft	0.039sft		
		ΔElev.	-134.172sft	0.105sft		
		Dist.	14831.306sft	0.025sft		
26	25	Az.	176°58'53.1901"	0°00'00.3140"	1:656711	1:656711
		ΔHt.	-125.894sft	0.044sft		
		ΔElev.	-125.740sft	0.109sft		
		Dist.	16985.702sft	0.026sft		
53	43	Az.	269°16'53.7298"	0°00'00.3147"	1:656213	1:656213
		ΔHt.	-36.734sft	0.049sft		

		ΔElev.	-36.662sft	0.090sft		
		Dist.	18592.367sft	0.028sft		
53	63	Az.	88°07'21.2720"	0°00'00.3543"	1:582810	1:582810
		ΔHt.	144.781sft	0.045sft		
		ΔElev.	144.650sft	0.106sft		
		Dist.	16501.597sft	0.028sft		
43	44	Az.	10°43'29.8801"	0°00'00.3396"	1:606753	1:606753
		ΔHt.	145.408sft	0.042sft		
		ΔElev.	145.156sft	0.102sft		
		Dist.	15795.360sft	0.026sft		
43	33	Az.	294°41'50.7532"	0°00'00.3794"	1:543919	1:543919
		ΔHt.	29.891sft	0.041sft		
		ΔElev.	29.896sft	0.080sft		
		Dist.	14581.212sft	0.027sft		
43	42	Az.	169°45'39.5126"	0°00'00.3472"	1:593777	1:593777
		ΔHt.	63.764sft	0.041sft		
		ΔElev.	63.955sft	0.099sft		
		Dist.	15283.412sft	0.026sft		
25	15	Az.	272°04'11.7089"	0°00'00.3949"	1:522427	1:522427
		ΔHt.	164.369sft	0.043sft		
		ΔElev.	164.418sft	0.098sft		
		Dist.	14847.719sft	0.028sft		
25	2059	Az.	204°56'41.2596"	0°00'01.4668"	1:140607	1:140607
		ΔHt.	9.597sft	0.029sft		
		ΔElev.	9.654sft	0.064sft		
		Dist.	3940.280sft	0.028sft		
25	35	Az.	85°09'45.0957"	0°00'00.3443"	1:599341	1:599341
		ΔHt.	55.388sft	0.046sft		
		ΔElev.	55.159sft	0.109sft		
		Dist.	16929.637sft	0.028sft		
25	24	Az.	173°10'05.6179"	0°00'00.2650"	1:778558	1:778558

		ΔHt.	-11.929sft	0.038sft		
		ΔElev.	-11.801sft	0.084sft		
		Dist.	15509.731sft	0.020sft		
55	45	Az.	268°06'18.7515"	0°00'00.3869"	1:533459	1:533459
		ΔHt.	85.601sft	0.043sft		
		ΔElev.	85.739sft	0.112sft		
		Dist.	15131.023sft	0.028sft		
55	65	Az.	86°36'04.7646"	0°00'00.3523"	1:586288	1:586288
		ΔHt.	-107.313sft	0.046sft		
		ΔElev.	-107.434sft	0.112sft		
		Dist.	16643.535sft	0.028sft		
45	35	Az.	273°02'43.0796"	0°00'00.3607"	1:571945	1:571945
		ΔHt.	-105.615sft	0.045sft		
		ΔElev.	-105.441sft	0.112sft		
		Dist.	16153.241sft	0.028sft		
45	44	Az.	179°48'56.0933"	0°00'00.3342"	1:617231	1:617231
		ΔHt.	-70.271sft	0.042sft		
		ΔElev.	-70.021sft	0.110sft		
		Dist.	16147.069sft	0.026sft		
2059	1054	Az.	191°24'14.5366"	0°00'00.5185"	1:397810	1:397810
		ΔHt.	32.743sft	0.036sft		
		ΔElev.	32.840sft	0.000sft		
		Dist.	11160.045sft	0.028sft		
1006	1005	Az.	184°42'11.4128"	0°00'00.3369"	1:611277	1:611277
		ΔHt.	44.976sft	0.041sft		
		ΔElev.	45.050sft	0.000sft		
		Dist.	15764.161sft	0.026sft		
1006	4	Az.	99°18'43.4148"	0°00'00.2438"	1:847082	1:847082
		ΔHt.	-126.995sft	0.039sft		
		ΔElev.	-126.849sft	0.057sft		
		Dist.	16117.482sft	0.019sft		

1006	2001	Az.	111°18'22.8998"	0°00'00.3923"	1:526224	1:526224
		ΔHt.	-103.281sft	0.039sft		
		ΔElev.	-103.130sft	0.000sft		
		Dist.	13723.417sft	0.026sft		
2063	23	Az.	206°07'09.1269"	0°00'00.4038"	1:510623	1:510623
		ΔHt.	-64.199sft	0.034sft		
		ΔElev.	-64.097sft	0.074sft		
		Dist.	11950.161sft	0.023sft		
2063	33	Az.	103°22'50.1379"	0°00'00.4797"	1:430661	1:430661
		ΔHt.	-53.268sft	0.034sft		
		ΔElev.	-53.324sft	0.080sft		
		Dist.	10903.033sft	0.025sft		
2063	24	Az.	327°52'58.2532"	0°00'00.6121"	1:336436	1:336436
		ΔHt.	-40.412sft	0.030sft		
		ΔElev.	-40.445sft	0.061sft		
		Dist.	8363.726sft	0.025sft		
23	13	Az.	284°05'55.2194"	0°00'00.3415"	1:604726	1:604726
		ΔHt.	17.911sft	0.044sft		
		ΔElev.	17.914sft	0.090sft		
		Dist.	16276.792sft	0.027sft		
23	33	Az.	62°38'23.5452"	0°00'00.2792"	1:740175	1:740175
		ΔHt.	10.931sft	0.045sft		
		ΔElev.	10.774sft	0.104sft		
		Dist.	17864.563sft	0.024sft		
23	24	Az.	2°36'16.2840"	0°00'00.2606"	1:789009	1:789009
		ΔHt.	23.787sft	0.043sft		
		ΔElev.	23.653sft	0.095sft		
		Dist.	17832.181sft	0.023sft		
23	22	Az.	179°17'38.1197"	0°00'00.3589"	1:574708	1:574708
		ΔHt.	121.879sft	0.035sft		
		ΔElev.	121.963sft	0.092sft		

		Dist.	13124.415sft	0.023sft		
23	2060	Az.	179°20'37.2662"	0°00'00.5375"	1:383652	1:383652
		ΔHt.	166.001sft	0.034sft		
		ΔElev.	166.057sft	0.074sft		
		Dist.	10274.375sft	0.027sft		
63	64	Az.	357°45'28.9081"	0°00'00.3247"	1:634686	1:634686
		ΔHt.	-90.090sft	0.041sft		
		ΔElev.	-90.388sft	0.106sft		
		Dist.	15798.173sft	0.025sft		
63	62	Az.	181°21'59.0426"	0°00'00.3165"	1:651759	1:651759
		ΔHt.	-199.331sft	0.041sft		
		ΔElev.	-199.037sft	0.109sft		
		Dist.	15957.278sft	0.024sft		
63	1041	Az.	89°46'00.0211"	0°00'00.3140"	1:657276	1:657276
		ΔHt.	-130.650sft	0.043sft		
		ΔElev.	-130.753sft	0.089sft		
		Dist.	16381.111sft	0.025sft		
54	44	Az.	275°05'23.6548"	0°00'00.3527"	1:585033	1:585033
		ΔHt.	-60.193sft	0.045sft		
		ΔElev.	-60.088sft	0.112sft		
		Dist.	16616.060sft	0.028sft		
54	64	Az.	80°27'04.6627"	0°00'00.3862"	1:534085	1:534085
		ΔHt.	-114.175sft	0.043sft		
		ΔElev.	-114.320sft	0.107sft		
		Dist.	15162.218sft	0.028sft		
44	34	Az.	273°38'57.7229"	0°00'00.3550"	1:581135	1:581135
		ΔHt.	-9.801sft	0.045sft		
		ΔElev.	-9.672sft	0.108sft		
		Dist.	16343.428sft	0.028sft		
13	4	Az.	307°06'30.2628"	0°00'00.2681"	1:769114	1:769114
		ΔHt.	2.571sft	0.049sft		

		ΔElev.	2.494sft	0.086sft		
		Dist.	19780.629sft	0.026sft		
13	2023	Az.	252°10'14.7422"	0°00'01.0404"	1:198409	1:198409
		ΔHt.	96.158sft	0.030sft		
		ΔElev.	96.163sft	0.067sft		
		Dist.	5573.767sft	0.028sft		
1039	1040	Az.	184°53'01.3132"	0°00'00.3427"	1:601812	1:601812
		ΔHt.	-23.100sft	0.042sft		
		ΔElev.	-22.810sft	0.000sft		
		Dist.	15842.681sft	0.026sft		
1039	65	Az.	272°37'04.5362"	0°00'00.2883"	1:715643	1:715643
		ΔHt.	-131.145sft	0.045sft		
		ΔElev.	-130.996sft	0.098sft		
		Dist.	17879.136sft	0.025sft		
1040	64	Az.	270°02'05.3557"	0°00'00.2539"	1:812811	1:812811
		ΔHt.	-39.384sft	0.041sft		
		ΔElev.	-39.266sft	0.099sft		
		Dist.	16729.256sft	0.021sft		
1040	1041	Az.	179°03'23.8988"	0°00'00.3444"	1:598865	1:598865
		ΔHt.	-79.944sft	0.042sft		
		ΔElev.	-79.630sft	0.000sft		
		Dist.	15723.090sft	0.026sft		
1005	3	Az.	90°45'12.9579"	0°00'00.2999"	1:688605	1:688605
		ΔHt.	-149.457sft	0.044sft		
		ΔElev.	-149.336sft	0.075sft		
		Dist.	17116.932sft	0.025sft		
1005	1004	Az.	175°44'23.9780"	0°00'00.3206"	1:642775	1:642775
		ΔHt.	2.004sft	0.043sft		
		ΔElev.	2.130sft	0.000sft		
		Dist.	16631.249sft	0.026sft		
4	3	Az.	180°23'32.8793"	0°00'00.3675"	1:560801	1:560801

		ΔHt.	22.514sft	0.036sft		
		ΔElev.	22.563sft	0.090sft		
		Dist.	13329.413sft	0.024sft		
4	14	Az.	72°51'07.6625"	0°00'00.3672"	1:561917	1:561917
		ΔHt.	132.188sft	0.044sft		
		ΔElev.	132.139sft	0.057sft		
		Dist.	16307.317sft	0.029sft		
4	2002	Az.	349°13'33.7995"	0°00'00.4356"	1:473283	1:473283
		ΔHt.	5.955sft	0.039sft		
		ΔElev.	5.869sft	0.057sft		
		Dist.	13289.506sft	0.028sft		
4	2001	Az.	232°42'59.8039"	0°00'01.3670"	1:150806	1:150806
		ΔHt.	23.714sft	0.026sft		
		ΔElev.	23.719sft	0.057sft		
		Dist.	3922.924sft	0.026sft		
3	2023	Az.	91°39'00.6927"	0°00'00.5492"	1:376041	1:376041
		ΔHt.	71.073sft	0.036sft		
		ΔElev.	71.106sft	0.075sft		
		Dist.	10573.807sft	0.028sft		
3	2	Az.	179°57'01.4128"	0°00'00.3352"	1:615101	1:615101
		ΔHt.	60.838sft	0.041sft		
		ΔElev.	60.923sft	0.102sft		
		Dist.	15433.970sft	0.025sft		
65	64	Az.	180°42'25.7374"	0°00'00.3098"	1:665664	1:665664
		ΔHt.	68.661sft	0.042sft		
		ΔElev.	68.921sft	0.108sft		
		Dist.	16592.088sft	0.025sft		
24	1054	Az.	278°49'52.9607"	0°00'00.9345"	1:220780	1:220780
		ΔHt.	54.268sft	0.028sft		
		ΔElev.	54.295sft	0.061sft		
		Dist.	5782.650sft	0.026sft		

24	34	Az.	86°41'49.1512"	0°00'00.3882"	1:531578	1:531578
		ΔHt.	92.861sft	0.043sft		
		ΔElev.	92.709sft	0.101sft		
		Dist.	14944.040sft	0.028sft		
14	1054	Az.	100°11'12.0292"	0°00'00.5326"	1:387525	1:387525
		ΔHt.	-74.615sft	0.037sft		
		ΔElev.	-74.600sft	0.000sft		
		Dist.	11239.196sft	0.029sft		
42	52	Az.	97°05'15.5200"	0°00'00.3163"	1:652444	1:652444
		ΔHt.	9.869sft	0.042sft		
		ΔElev.	9.877sft	0.102sft		
		Dist.	16011.681sft	0.025sft		
42	32	Az.	272°00'44.2094"	0°00'00.2904"	1:710567	1:710567
		ΔHt.	119.698sft	0.038sft		
		ΔElev.	119.719sft	0.103sft		
		Dist.	14670.498sft	0.021sft		
42	41	Az.	179°40'49.4692"	0°00'00.3189"	1:646932	1:646932
		ΔHt.	66.507sft	0.041sft		
		ΔElev.	66.675sft	0.116sft		
		Dist.	15901.479sft	0.025sft		
1004	1001	Az.	193°04'44.3447"	0°00'00.2201"	1:937218	1:937218
		ΔHt.	17.275sft	0.048sft		
		ΔElev.	17.500sft	0.000sft		
		Dist.	20646.291sft	0.022sft		
1004	2	Az.	86°40'12.5808"	0°00'00.2535"	1:813847	1:813847
		ΔHt.	-90.623sft	0.039sft		
		ΔElev.	-90.543sft	0.092sft		
		Dist.	15931.672sft	0.020sft		
1004	1002	Az.	180°30'12.1502"	0°00'00.3296"	1:625820	1:625820
		ΔHt.	-20.298sft	0.039sft		
		ΔElev.	-20.110sft	0.000sft		

		Dist.	15057.314sft	0.024sft		
1001	1	Az.	74°28'39.0811"	0°00'00.2169"	1:951503	1:951503
		ΔHt.	-25.552sft	0.051sft		
		ΔElev.	-25.573sft	0.103sft		
		Dist.	21232.467sft	0.022sft		
1001	1002	Az.	41°55'15.7798"	0°00'00.7081"	1:291307	1:291307
		ΔHt.	-37.573sft	0.027sft		
		ΔElev.	-37.610sft	0.000sft		
		Dist.	6793.589sft	0.023sft		
22	12	Az.	270°23'02.4983"	0°00'00.2648"	1:779394	1:779394
		ΔHt.	2.492sft	0.040sft		
		ΔElev.	2.504sft	0.098sft		
		Dist.	16016.819sft	0.021sft		
22	32	Az.	87°35'32.4438"	0°00'00.3020"	1:683555	1:683555
		ΔHt.	42.624sft	0.044sft		
		ΔElev.	42.589sft	0.103sft		
		Dist.	17047.832sft	0.025sft		
22	21	Az.	179°46'57.0320"	0°00'00.3251"	1:634204	1:634204
		ΔHt.	35.909sft	0.041sft		
		ΔElev.	36.048sft	0.114sft		
		Dist.	15754.420sft	0.025sft		
22	2060	Az.	359°06'53.7296"	0°00'01.9375"	1:106444	1:106444
		ΔHt.	44.122sft	0.027sft		
		ΔElev.	44.094sft	0.057sft		
		Dist.	2850.058sft	0.027sft		
61	51	Az.	266°57'07.6250"	0°00'00.2401"	1:859363	1:859363
		ΔHt.	-106.121sft	0.039sft		
		ΔElev.	-106.061sft	0.113sft		
		Dist.	16210.019sft	0.019sft		
61	62	Az.	359°47'32.0034"	0°00'00.2507"	1:822056	1:822056
		ΔHt.	-148.622sft	0.035sft		

		ΔElev.	-148.802sft	0.105sft		
		Dist.	14494.925sft	0.018sft		
61	509	Az.	331°32'12.6314"	0°00'00.1944"	1:1060744	1:1060744
		ΔHt.	-144.178sft	0.051sft		
		ΔElev.	-144.328sft	0.102sft		
		Dist.	21980.373sft	0.021sft		
61	1044	Az.	124°50'30.5660"	0°00'00.1933"	1:1067707	1:1067707
		ΔHt.	5.007sft	0.053sft		
		ΔElev.	5.162sft	0.102sft		
		Dist.	22507.653sft	0.021sft		
51	52	Az.	0°00'33.2231"	0°00'00.3270"	1:630296	1:630296
		ΔHt.	48.948sft	0.035sft		
		ΔElev.	48.815sft	0.106sft		
		Dist.	13518.537sft	0.021sft		
51	1044	Az.	109°03'10.5147"	0°00'00.1221"	1:1689492	1:1689492
		ΔHt.	111.128sft	0.082sft		
		ΔElev.	111.223sft	0.118sft		
		Dist.	36677.424sft	0.022sft		
51	41	Az.	268°33'50.0025"	0°00'00.3390"	1:608527	1:608527
		ΔHt.	105.587sft	0.043sft		
		ΔElev.	105.613sft	0.114sft		
		Dist.	15812.887sft	0.026sft		
1	2	Az.	0°28'40.6741"	0°00'00.3117"	1:661326	1:661326
		ΔHt.	-82.346sft	0.039sft		
		ΔElev.	-82.470sft	0.107sft		
		Dist.	15358.456sft	0.023sft		
1	11	Az.	90°14'21.0487"	0°00'00.3420"	1:603294	1:603294
		ΔHt.	-11.204sft	0.043sft		
		ΔElev.	-11.175sft	0.110sft		
		Dist.	15853.385sft	0.026sft		
1	1002	Az.	267°47'37.0000"	0°00'00.3131"	1:658958	1:658958

		ΔHt.	-12.021sft	0.042sft		
		ΔElev.	-12.037sft	0.103sft		
		Dist.	15931.540sft	0.024sft		
12	2	Az.	270°33'05.1315"	0°00'00.3274"	1:630261	1:630261
		ΔHt.	-20.537sft	0.042sft		
		ΔElev.	-20.573sft	0.104sft		
		Dist.	15816.426sft	0.025sft		
12	11	Az.	180°22'44.4622"	0°00'00.3394"	1:607204	1:607204
		ΔHt.	50.605sft	0.040sft		
		ΔElev.	50.722sft	0.114sft		
		Dist.	15282.946sft	0.025sft		
52	62	Az.	83°27'21.9101"	0°00'00.2202"	1:936904	1:936904
		ΔHt.	-91.449sft	0.039sft		
		ΔElev.	-91.556sft	0.108sft		
		Dist.	16227.435sft	0.017sft		
52	509	Az.	40°29'21.5516"	0°00'00.4297"	1:479853	1:479853
		ΔHt.	-87.006sft	0.026sft		
		ΔElev.	-87.082sft	0.084sft		
		Dist.	8771.251sft	0.018sft		
62	1042	Az.	89°02'43.4990"	0°00'00.2419"	1:853213	1:853213
		ΔHt.	5.036sft	0.041sft		
		ΔElev.	4.904sft	0.082sft		
		Dist.	17028.352sft	0.020sft		
62	509	Az.	294°51'22.8440"	0°00'00.3173"	1:650239	1:650239
		ΔHt.	4.443sft	0.030sft		
		ΔElev.	4.474sft	0.082sft		
		Dist.	11487.279sft	0.018sft		
32	31	Az.	182°51'58.0764"	0°00'00.3169"	1:650765	1:650765
		ΔHt.	-12.841sft	0.043sft		
		ΔElev.	-12.679sft	0.120sft		
		Dist.	16508.430sft	0.025sft		

31	41	Az.	89°42'05.0954"	0°00'00.3494"	1:590470	1:590470
		ΔHt.	-40.350sft	0.043sft		
		ΔElev.	-40.365sft	0.113sft		
		Dist.	15586.121sft	0.026sft		
31	21	Az.	270°06'11.6643"	0°00'00.3448"	1:598393	1:598393
		ΔHt.	6.127sft	0.044sft		
		ΔElev.	6.139sft	0.116sft		
		Dist.	16159.547sft	0.027sft		
1042	1041	Az.	359°04'40.3809"	0°00'00.3416"	1:603406	1:603406
		ΔHt.	63.645sft	0.042sft		
		ΔElev.	63.380sft	0.000sft		
		Dist.	15738.255sft	0.026sft		
1042	1044	Az.	176°56'10.8660"	0°00'00.1738"	1:1186749	1:1186749
		ΔHt.	148.593sft	0.062sft		
		ΔElev.	149.060sft	0.000sft		
		Dist.	27678.026sft	0.023sft		
11	21	Az.	92°00'33.6876"	0°00'00.3366"	1:613231	1:613231
		ΔHt.	-17.187sft	0.044sft		
		ΔElev.	-17.178sft	0.115sft		
		Dist.	16198.193sft	0.026sft		