SALT - GILA RIVERS

GPS PROJECT ADJUSTMENTS

GPS CONTROL SURVEY

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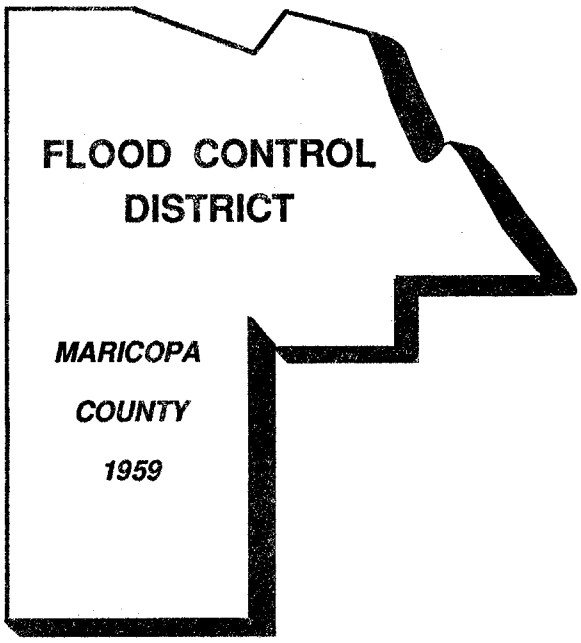

Baker
Michael Baker Jr., Inc

Greiner

MARICOPA COUNTY SALT-GILA WATERCOURSE MASTER PLAN PHASE 1 AERIAL MAPPING GPS CONTROL SURVEY NETWORK PHOENIX, ARIZONA GREINER, INC. 1991

SUMMARY

The intent of this GPS Control Survey was to provide a photogrammetric horizontal control network for a 400 scale 4-foot contour aerial topographic map of the Salt-Gila Rivers in the general vicinity of Phoenix Arizona. Approximately 150 record monuments were targeted and occupied using Trimble 4000 ST single frequency receivers in accordance with the FGCC "Geometric Accuracy Standards and Specifications for using GPS Relative Positioning Techniques" in order to develop the photogrammetric horizontal control for this aerial mapping project. The photogrammetric vertical control for this aerial mapping project was developed by a Least Squares Adjustment of conventional leveling and is not a part of this report.

In accordance with the contract specifications, this GPS horizontal control network was tied into the Arizona State Plane Coordinate System by direct measurements to 3 NGS first order triangulation stations within the immediate vicinity of this mapping project. These first order NGS triangulation stations are: Broadway, Etta and Val Vista. Additionally, in consideration of the fact that the East-West scope of this aerial mapping project extended approximately 80 miles, several other NGS first order triangulation stations were occupied around the project perimeter. These additional first order triangulation stations were occupied in order to verify the existence of a uniform State Plane Coordinate Network and to identify any "Local Control" coordinate discrepancies which may exist and thereby have an impact on this project or future projects within the same general area. Although verification of the existing NGS triangulation network is beyond the scope of this 400 scale 4-foot contour aerial topographic mapping project, all baselines between the NGS triangulation stations listed below were measured at least twice in order to provide redundant measurements as defined in the FGCC specifications. Due to its historical significance, as the initial point of the Arizona public lands survey system, one NGS second order triangulation station "Initial Point" was occupied instead of the NGS first order triangulation station "Initial Monument" only a few feet away. The published NAD83 record coordinates of triangulation stations Etta, Broadway, Squaw Peak, Litchfield, and Initial Point (not Initial Monument) appear to be in general agreement due to the lack of significant differences between the record coordinate values and the (measured) coordinate values generated by the unconstrained GPS project adjustment. However, triangulation stations Val Vista, Powers Butte, and Wintersburg exhibit larger positional differences between the published record coordinate values and the (measured) coordinate values generated by the unconstrained GPS project adjustment. This positional discrepancy would appear to cast some doubt on the accuracy of the published record coordinates of these three triangulation stations in relation to the overall area network. Please see the attached table entitled "NAD83 Grid Coordinate Value Comparisons (International Foot)".

Once again, it should be emphasized that the intent of this particular GPS control survey was to provide photogrammetric horizontal control for a 4-foot contour 400 scale aerial topographic map of the Salt-Gila Rivers, and an examination of the precision of the unconstrained adjustment proved to be well within the PPM requirements specified in the contract for this GPS control network. Under no circumstances should the resultant coordinate values of this GPS control survey be used for boundary analysis or land net control of a GIS digital mapping database.

THE FOLLOWING APPENDICES ARE INCLUDED AS PART OF THIS PROJECT REPORT:

An Appendix entitled GPS PROJECT COORDINATES which contains the following sections: NAD83 Arizona State Plane Ground Coordinates in International Feet, NAD83 Arizona State Plane Grid Coordinates in International Feet, NAD83 State Plane Grid Coordinates in Meters, and NAD27 Arizona State Plane Grid Coordinates in U.S. Survey Feet. Once again, it should be noted that the intent of this GPS control survey was to develop horizontal photogrammetric control for a 400 scale, 4-foot contour aerial topographic map of the Salt-Gila Rivers and under no circumstances should the resultant coordinate values be used for boundary analysis or land net control of a GIS digital mapping database.

An Appendix entitled GPS PROJECT ADJUSTMENTS which contains a GEOLAB least squares statistical adjustment with the title "Unscaled, #8 Constrained NAD83 Adjustment - Salt River GPS - 1991". This project adjustment was developed by the constrained NAD83 values of the following 8 NGS triangulation stations: Initial Point (not Initial Monument), Powers Butte, Wintersburg, Litchfield, Etta, Squaw Peak, Val Vista, and Broadway. It should be noted that due to the relatively large distance away from the immediate project, the record coordinate values of these 8 NGS control points were held "fixed" in the Geolab least squares adjustment but were not heavily weighted. Therefore, minor differences in the final coordinates of these points will be evident in the least squares adjustment report and the resultant coordinate listings due to a lack of agreement between the record coordinate values and the redundant GPS baseline vector measurements. The average ppm of the constrained project adjustment was 6 ppm, with a low value of 1 ppm and a high value of 35 ppm in a vector distance of 685 meters. This constrained adjustment was used to develop the NAD83 Coordinate values for this 400 scale 4-foot contour aerial topographic mapping project.

An Appendix entitled GPS PROJECT ADJUSTMENTS which contains a GEOLAB least squares statistical adjustment with the title: "Unscaled, #8 Constrained NAD27 Adjustment - Salt River GPS - 1991". This project adjustment was developed from the constrained NAD27 values of the following 8 NGS triangulation stations: Initial Point (not Initial Monument), Powers Butte, Wintersburg, Litchfield, Etta, Squaw Peak, Val Vista, and Broadway. It should be noted that due to the relatively large distance away from the immediate project, the record coordinate values of these 8 NGS control points were held "fixed" in the Geolab least squares adjustment but were not heavily weighted. Therefore, minor differences in the final coordinates of these points will be evident in the least squares adjustment report and the resultant coordinate listings due to a lack of agreement between the record coordinate values and the redundant GPS baseline vector measurements. The average ppm of this constrained project adjustment was 6 ppm with a low value of 1 ppm and a high value of 31 ppm in a vector distance of 685 meters. This constrained adjustment was used to develop the NAD27 coordinate values for this 400 scale 4-foot contour aerial topographic mapping project.

An Appendix entitled GPS PROJECT ADJUSTMENTS which contains a GEOLAB least squares statistical adjustment with the title: "Scaled Unconstrained Project Adjustment - Salt River GPS - 1991". This project adjustment was developed by constraining the NAD83 value of a single NGS triangulation station (Etta), in order to provide a quality check of the internal consistency of the GPS measurements. This adjustment was scaled to better fit a bell curve graph and to pass the Chi-squared test. The average ppm of this scaled unconstrained project network was 3 ppm with a low value of 1 ppm, and a high value of 13 ppm, in a vector distance of 685 meters. This scaled unconstrained adjustment is well within contract specifications and was produced in order to examine the actual precision of the GPS measurements used for this 400 scale 4-foot contour aerial topographic mapping project.

An Appendix entitled GPS PROJECT PROCESSING which contains the Trimble (Rev E) automatic baseline processing software parameters for the GPS observations of the NGS triangulation station network verification along with the resulting baseline summary reports and a Trimble "TMAP" plot of the baselines observed. In consideration of the relatively long baselines measured in the NGS triangulation station verification, the GPS observation data was first processed using the Trimble preset "automatic" processing parameters and then reprocessed using "manually" modified processing parameters in order to provide a comparison of the resultant vector differences. For all intents and purposes, the resultant raw GPS baseline vectors developed from the program preset "automatic" processing parameters were nearly identical to the resultant raw GPS baseline vectors developed from the "manually" modified processing. Therefore, the "automatic" GPS vectors were considered to be adequate for the NGS triangulation station verification of this 400 scale, 4 foot contour aerial mapping project. Please see the attached comparison tables entitled "Trimble 4000 ST Single Frequency Field Calibration and Comparisons".

An Appendix entitled GPS PROJECT PROCESSING which contains the Trimble (Rev E) manually modified baseline processing software parameters for the GPS observations of the NGS triangulation station verification along with the resulting baseline summary reports and a Trimble "TMAP" plot of the baselines observed. In consideration of the relatively long baseline measurements included in the NGS triangulation station verification, the Trimble processing parameters were manually modified in order to provide a comparison to the preset automatic processing sequence. Although the positional dilution of precision (PDOP) improved noticeably, the resultant raw GPS "Manual" baseline vectors were only slightly different than the processed preset "Automatic" baselines. Therefore, the program processed and adjusted "Automatic" baselines were considered to be adequate for the NGS triangulation station verification of this 400 scale, 4 foot contour aerial mapping project. Please see the attached comparison tables entitled "Trimble 4000 ST Single Frequency Field Calibration and Comparisons".

An Appendix entitled GPS PROJECT CLOSURES which contains the Trimble (Rev E) "Tclose" traverse closure reports for the NGS triangulation station verification and the 20 project loops. In accordance with the FGCC standards and specifications, all 20 project network loops were 10 sides or less. The average ppm closure for the loops in the project network was 2 ppm with a low value of 1 ppm and a high value of 5 ppm. The average value of 2 ppm for all the loops in this project network was considerably less than the specified allowable average of 16 ppm, and the maximum project loop closure of 4.53 ppm for Loop #8 was also considerably less than the allowable maximum of 25 ppm as specified in the FGCC standards.

An Appendix entitled GPS OBSERVATION REPORTS which contains the daily work reports recorded by the GPS field crew for each GPS observation day. These daily work reports are a general summary of the hours worked and points observed by each member of the GPS field crew. In order to satisfy contract requirements, daily work reports were recorded in addition to the GPS observation sheets which provide a detailed summary of each observation session.

An Appendix entitled GPS OBSERVATION SHEETS which contains the GPS observation sheets for all the points of this project as recorded by each member of the GPS field crew. These observation sheets show relevant information concerning each GPS occupation including: the name of the field operator, the model and serial number of the GPS receiver, the location and description of the point occupied, information regarding the satellite constellation for each individual observation session, and the antenna height entered into the receiver along with the three independent measurement checks required by the FGCC specifications.

An Appendix entitled GPS OBSERVATION WINDOWS which contains the satellite windows available for this project as well as the Trimble satellite "SKYPLOT" configurations for the individual observation sessions. All observations sessions were designed according to the "FGCC Geometric Accuracy Standards and Specifications for using GPS Relative Positioning Techniques".

An Appendix entitled GPS OBSERVATION POINTS which contains the recon sheet "Visibility", "To Reach", and "Point Identification" descriptions for all the GPS observation points of this project. This binder also includes the published record coordinates and "To Reach" descriptions for the occupied NGS triangulation stations surrounding the general vicinity of this 400 scale 4-foot contour aerial topographic mapping project.

David Paul Johnson
Project Surveyor, G.P.S.

Robert J. Pecha, P.L.S.
Project Manager

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
21080
ROBERT J.
PECHA
Date Signed 7-17-92
ARIZONA, U.S.A.

R00704

MARICOPA COUNTY SALT-GILA WATERCOURSE AERIAL MAPPING

NAD 83 GRID COORDINATE VALUE COMPARISONS (INTERNATIONAL FOOT)

NAME	NUMBER		RECORD	CONSTRAINED	± DIF	UNCONSTRAINED	± DIF
		N	864,981.997	864,981.987	-0.010	864,981.913	-0.084
INITIAL POINT	0001	E	581,116.248	581,116.362	+0.114	581,116.537	+0.289
		N	840,141.032	840,141.074	+0.042	840,141.285	+0.253
POWERS BUTTE	0005	E	450,010.732	450,011.135	+0.403	450,011.819	+1.087
		N	880,381.043	880,381.056	+0.013	880,381.027	-0.016
WINTERSBURG	0007	E	407,444.792	407,444.862	+0.070	407,446.665	+1.873
		N	917,126.638	917,126.633	-0.005	917,126.404	-0.234
LITCHFIELD	0009	E	564,283.971	564,283.975	+0.004	564,284.542	+0.571
		N	896,344.272	896,344.272	HELD	896,344.272	HELD
ETTA	0013	E	647,409.040	647,409.040	HELD	647.409.040	HELD
		N	926,687.833	926,687.747	-0.086	926,687.466	-0.367
SQUAW PEAK	0015	E	668,215.780	668,215.769	-0.011	668,215.654	-0.126
		N	900,292.414	900,292.274	-0.140	900,292.259	-0.155
VAL VISTA	0019	E	750,259.803	750,259.198	-0.605	750,258.834	-0.969
		N	875,535.738	875,535.795	+0.057	875,535.783	+0.045
BROADWAY	0021	E	684,546.463	684,546.424	-0.039	684,546.338	-0.125

* NOTE: Although verification of the local existing NGS triangulation network is beyond the scope of this 400 scale, 4-foot contour aerial mapping project, the published NAD83 Record Coordinates of Triangulation Stations Etta, Broadway, Squaw Peak, Litchfield, and Initial Point (not Initial Monument) appear to be in general agreement according the lack of major differences between the record coordinate values and the (measured) coordinate values generated by the unconstrained adjustment. Triangulation stations Val Vista, Powers Butte and Wintersburg exhibit larger positional differences between the (measured) unconstrained coordinates and the published record values. This discrepancy would appear to cast some doubt on the accuracy of the published record coordinates of these three triangulation stations relative to the overall area network.

MARICOPA COUNTY SALT-GILA WATERCOURSE AERIAL MAPPING

RAW GPS "AUTOMATIC" BASELINE MEASUREMENT COMPARISONS (DIRECTORY VCTR1)

TRIMBLE 4000 ST SINGLE FREQUENCY RECEIVER FIELD CALIBRATION AND COMPARISONS

STATION FROM	RECEIVER FROM	STATION TO	RECEIVER TO	GPS DAY	VECTOR DISTANCE (m)
0001	WHITE	0013	BLUE	330-1	22,356.121 *
0001	WHITE	0013	BLUE	330-2	22,356.297
0001	RED	0013	WHITE	337-1	22,356.248
0001	RED	0013	WHITE	337-2	22,356.214
0001	GREEN	0013	RED	339-1	22,356.396
0001	GREEN	0013	RED	339-4	22,356.352

#2934A00381 = RED #2934A00379 = WHITE #2934A00382 = BLUE #2934A00373 = GREEN

* NOTE: As noted per the attached letter, Trimble GPS receivers are calibrated before they leave the factory, and also undergo a self calibration routine each time they are turned on. However, in an effort to provide an actual project field comparison, a common network baseline was measured repeatedly using three different receiver combinations with the resultant raw GPS vector distances shown above. Except for the first raw GPS vector distance which would appear to contain operator error, the maximum difference between any pair of measured "automatic" vectors is 182mm in 22,356m, or 8ppm. Of further note is the fact that the maximum difference realized between any raw GPS vector developed from preset "Automatic" processing and the corresponding raw GPS vector developed from "Manual" processing (set to process each measurement observation) was only 91mm in 22,356 meters, or 4ppm (please refer to the following page).

MARICOPA COUNTY SALT-GILA WATERCOURSE AERIAL MAPPING

RAW GPS "MANUAL" BASELINE MEASUREMENT COMPARISONS (DIRECTORY VCTR1M)

TRIMBLE 4000 ST SINGLE FREQUENCY RECEIVER FIELD CALIBRATION AND COMPARISONS

STATION FROM	RECEIVER FROM	STATION TO	RECEIVER TO	GPS DAY	VECTOR DISTANCE (m)
0001	WHITE	0013	BLUE	330-1	22,356.139 *
0001	WHITE	0013	BLUE	330-2	22,356.273
0001	RED	0013	WHITE	337-1	22,356.291
0001	RED	0013	WHITE	337-2	22,356.281
0001	GREEN	0013	RED	339-1	22,356.305
0001	GREEN	0013	RED	339-4	22,356.288

#2934A00381 = RED #2934A00379 = WHITE #2934A00382 = BLUE #2934A00373 = GREEN

* NOTE: As noted per the attached letter, Trimble GPS receivers are calibrated before they leave the factory, and also undergo a self calibration routine each time they are turned on. However, in an effort to provide an actual project field comparison, a common network baseline was measured repeatedly using three different receiver combinations with the resultant raw GPS vector distances shown above. Except for the first raw GPS vector distance which would appear to contain operator error, the maximum difference between any pair of measured "manual" vectors is 32mm in 22,356m, or 1ppm. Of further note is the fact that the maximum difference realized between any raw GPS vector developed from preset "Automatic" processing and the corresponding raw GPS vector developed from "Manual" processing (set to process each measurement observation) was only 91mm in 22,356 meters, or 4ppm (please refer to the previous page).

R00704

RECEIVED
DEC 1991
GREINER ENG.

TrimbleNavigation

1 November 1991

Dave Johnson
GREINER, INC.
1261 East Dyer Road
Santa Ana, CA 92705-5605

Dear Mr. Johnson:

As per your request for information regarding the calibration of GPS Carrier Phase Tracking receivers. All receivers are calibrated before leaving Trimble Navigation Ltd by our Q.A. group. This calibration includes measuring a baseline of known coordinates to determine any abnormalities in the antenna phase center or the receivers tracking loop. The receivers also do a self calibration between all the channels every time a survey is started. The results of this calibration are available for the user to analyze, and are located in the double difference output file.

Should you have any further questions or if I can be of service to you, please call me at 1-800-874-6253 extension 2019.

Regards,

TRIMBLE NAVIGATION LTD.

Ken Mooyman

Ken Mooyman
Survey Sales
Western Region

645 North Mary Avenue
Post Office Box 3642
Sunnyvale, CA 94088-3642

(408) 730-2900
FAX (408) 730-2997
Telex 6713973

P RE:

1:51:29 - Saturday, January 18, 1992

Input from: <GILA1.iob>
utput to: <GILA1.LST>

PREPARE successfully completed.

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

GETUP:

PARAMETERS		OBSERVATIONS	
Description	Number	Description	Number
All Stations	137	Directions	0
Fixed Stations	1	Distances	0
Free 3-D Stations	136	Azimuths	0
Free 2-D Stations	0	Vertical Angles	0
Free 1-D Stations	0	Zenithal Angles	0
Coord. Parameters	408	Angles	0
Astro. Latitudes	0	Heights	0
Astro. Longitudes	0	Height Differences	0
Geoid Records	0	Auxiliary Params.	0
All Aux. Pars.	0	2-D Coords.	0
Direction Pars.	0	2-D Coord. Diffs.	0
Scale Parameters	0	3-D Coords.	0
Constant Pars.	0	3-D Coord. Diffs.	1101
Rotation Pars.	0		
Translation Pars.	0		
Total Parameters	408	Total Observations	1101

Degrees of Freedom = 693

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

SUMMARY OF SELECTED OPTIONS

OPTION	SELECTION
Computation Mode	Adjustment
Linear Unit	Metre
Maximum Iterations	2
Confidence Regions Selected	Point and Connected Relative
Confidence Region Dimensions	1-D and 2-D only
Print Input Station Data	On
Variance Factor Knowledge	Known
Confidence Level for Statistics	95.000
Dual-Height Mode	Off
Print Solution Vector	On All Iterations
Printed Ellipsoidal Coordinates	5 Decimal Places
Print Adjusted X, Y, Z	On
Print Histograms	On
Print Misclosures	On All Iterations
Print Residuals	All
Variance Factor Usage	Scale Confidence Regions
Residual Rejection Criterion	Tau Max
Angular Misclosure Limit Factor	10
Linear Misclosure Limit Factor	10
Convergence Criterion	0.001000

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

GETUP:

CODE	IDENT.	DESCRIPTOR	INITIAL VALUES		
4	0001				
		ELLIPSOIDAL :	33 22 30.62280	-112 18 20.53992	297.9000
		ASTRONOMIC :	33 22 38.62280	-112 18 20.53992	297.9000
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2023679.9967	-4932842.4621	3489150.6630
14	0013				
		ELLIPSOIDAL :	33 27 49.89516	-112 5 20.82657	329.5000
		ASTRONOMIC :	33 27 49.89516	-112 5 20.82657	329.5000
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2003042.2094	-4935586.9555	3497172.7123
4	0015				
		ELLIPSOIDAL :	33 32 51.19303	-112 1 14.09723	739.7354
		ASTRONOMIC :	33 32 51.19303	-112 1 14.09723	739.7354
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1995343.7369	-4933545.6728	3505140.0870
4	0007				
		ELLIPSOIDAL :	33 24 59.48767	-112 52 30.45401	304.6785
		ASTRONOMIC :	33 24 59.48767	-112 52 30.45401	304.6785
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.00
		CARTESIAN :	-2071676.7052	-4910291.4799	3492777.82
4	0009				
		ELLIPSOIDAL :	33 31 13.51276	-112 21 41.97165	279.5809
		ASTRONOMIC :	33 31 13.51276	-112 21 41.97165	279.5809
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2025163.7630	-4922763.1495	3502377.1093
4	0019				
		ELLIPSOIDAL :	33 28 29.86622	-111 45 4.48406	338.7218
		ASTRONOMIC :	33 28 29.86622	-111 45 4.48406	338.7218
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1973653.5804	-4946689.3193	3498205.1229
4	0021				
		ELLIPSOIDAL :	33 24 25.27749	-111 58 0.17626	341.7922
		ASTRONOMIC :	33 24 25.27749	-111 58 0.17626	341.7922
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1993796.8261	-4943085.8814	3491918.4274
4	0005				
		ELLIPSOIDAL :	33 18 23.35108	-112 44 7.64370	415.4701
		ASTRONOMIC :	33 18 23.35108	-112 44 7.64370	415.4701
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000

G[illegible]:

ODE	IDENT.	DESCRIPTOR	INITIAL VALUES		
		CARTESIAN :	-2062330.5050	-4921602.6518	3482644.8407
4	0301				
		ELLIPSOIDAL :	33 27 31.75567	-111 53 28.77954	291.2664
		ASTRONOMIC :	33 27 31.75567	-111 53 28.77954	291.2664
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1986095.1642	-4942728.5775	3496685.3742
4	0513				
		ELLIPSOIDAL :	33 29 43.67163	-111 49 17.36671	315.4839
		ASTRONOMIC :	33 29 43.67163	-111 49 17.36671	315.4839
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1979243.2191	-4943083.1724	3500088.8845
4	0705				
		ELLIPSOIDAL :	33 21 50.01595	-111 58 26.03155	327.1858
		ASTRONOMIC :	33 21 50.01595	-111 58 26.03155	327.1858
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1995396.8268	-4945265.6833	3487916.0946
	0326				
		ELLIPSOIDAL :	33 22 38.00357	-112 12 9.02706	253.2228
		ASTRONOMIC :	33 22 38.00357	-112 12 9.02706	253.2228
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2014781.8217	-4936454.5759	3489110.1520
4	0711				
		ELLIPSOIDAL :	33 21 25.73405	-112 4 21.78490	348.3723
		ASTRONOMIC :	33 21 25.73405	-112 4 21.78490	348.3723
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2004084.4040	-4942214.4342	3487302.8863
4	0192				
		ELLIPSOIDAL :	33 24 22.81141	-112 16 20.36007	250.9492
		ASTRONOMIC :	33 24 22.81141	-112 16 20.36007	250.9492
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2020121.0900	-4932349.5561	3491804.9839
4	0129				
		ELLIPSOIDAL :	33 20 53.45793	-112 42 44.43757	275.8315
		ASTRONOMIC :	33 20 53.45793	-112 42 44.43757	275.8315
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2059318.8605	-4919982.6296	3486432.3551
4	0141				
		ELLIPSOIDAL :	33 14 52.81198	-112 48 26.15336	267.2500

C"UP:

CODE	IDENT.	DESCRIPTOR		INITIAL VALUES		
		ASTRONOMIC	:	33 14 52.81198	-112 48 26.15336	267.2500
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2069828.6991	-4922180.7609	3477140.4917
4	0161					
		ELLIPSOIDAL	:	33 19 9.26635	-112 36 31.37191	287.0487
		ASTRONOMIC	:	33 19 9.26635	-112 36 31.37191	287.0487
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2051098.6065	-4925336.3150	3483756.5122
4	0172					
		ELLIPSOIDAL	:	33 20 27.22153	-112 28 13.30013	304.2608
		ASTRONOMIC	:	33 20 27.22153	-112 28 13.30013	304.2608
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2038700.4333	-4929068.5734	3485772.7097
4	0148					
		ELLIPSOIDAL	:	33 17 4.42984	-112 44 44.62395	215.8294
		ASTRONOMIC	:	33 17 4.42984	-112 44 44.62395	215.8294
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2063664.4202	-4922309.9419	3480502.8376
	0150					
		ELLIPSOIDAL	:	33 18 18.75556	-112 43 51.82134	215.7591
		ASTRONOMIC	:	33 18 18.75556	-112 43 51.82134	215.7591
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2061918.5152	-4921678.5999	3482416.8461
4	0153					
		ELLIPSOIDAL	:	33 19 36.15751	-112 42 40.32939	220.7940
		ASTRONOMIC	:	33 19 36.15751	-112 42 40.32939	220.7940
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2059708.4467	-4921188.5969	3484412.4041
4	0136					
		ELLIPSOIDAL	:	33 18 15.97864	-112 47 33.97168	274.4000
		ASTRONOMIC	:	33 18 15.97864	-112 47 33.97168	274.4000
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2067255.2267	-4919543.5204	3482377.5414
4	0137					
		ELLIPSOIDAL	:	33 17 9.81386	-112 48 32.49621	272.7736
		ASTRONOMIC	:	33 17 9.81386	-112 48 32.49621	272.7736
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2069084.2734	-4919987.0564	3480672.7548

G[illegible]:

ODE	IDENT.	DESCRIPTOR	INITIAL VALUES		
4	0140				
		ELLIPSOIDAL :	33 15 50.04059	-112 48 1.56394	269.5613
		ASTRONOMIC :	33 15 50.04059	-112 48 1.56394	269.5613
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2068867.9539	-4921537.9194	3478616.1792
4	0132				
		ELLIPSOIDAL :	33 19 32.99848	-112 45 49.58575	218.5536
		ASTRONOMIC :	33 19 32.99848	-112 45 49.58575	218.5536
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2064242.9360	-4919344.2406	3484329.8502
4	0133				
		ELLIPSOIDAL :	33 19 35.75094	-112 46 51.89738	227.5568
		ASTRONOMIC :	33 19 35.75094	-112 46 51.89738	227.5568
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2065713.8251	-4918684.3978	3484405.6533
4	0123				
		ELLIPSOIDAL :	33 22 12.79181	-112 38 32.27946	242.3487
		ASTRONOMIC :	33 22 12.79181	-112 38 32.27946	242.3487
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2052774.4584	-4921230.1787	3488455.4890
4	0124				
		ELLIPSOIDAL :	33 21 46.53864	-112 39 35.94564	237.3676
		ASTRONOMIC :	33 21 46.53864	-112 39 35.94564	237.3676
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2054463.1456	-4921003.0155	3487777.2195
4	0142				
		ELLIPSOIDAL :	33 14 42.12402	-112 47 13.43063	264.3039
		ASTRONOMIC :	33 14 42.12402	-112 47 13.43063	264.3039
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2068162.1248	-4923074.3821	3476863.4860
4	0119				
		ELLIPSOIDAL :	33 22 39.19965	-112 33 52.44377	241.3935
		ASTRONOMIC :	33 22 39.19965	-112 33 52.44377	241.3935
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2045923.9776	-4923596.5636	3489134.4171
4	0164				
		ELLIPSOIDAL :	33 20 55.16518	-112 36 29.20011	227.4035
		ASTRONOMIC :	33 20 55.16518	-112 36 29.20011	227.4035
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000

SETUP:

CODE	IDENT.	DESCRIPTOR	INITIAL VALUES		
		CARTESIAN :	-2050339.2454	-4923656.7652	3486449.6718
4	0116				
		ELLIPSOIDAL :	33 22 12.00231	-112 31 16.15226	239.7000
		ASTRONOMIC :	33 22 12.00231	-112 31 16.15226	239.7000
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2042368.6845	-4925569.8858	3488433.7130
4	0120				
		ELLIPSOIDAL :	33 22 12.68040	-112 34 24.09358	239.6527
		ASTRONOMIC :	33 22 12.68040	-112 34 24.09358	239.6527
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2046851.4177	-4923696.2585	3488451.1394
4	0160				
		ELLIPSOIDAL :	33 18 19.58796	-112 37 31.53750	239.6920
		ASTRONOMIC :	33 18 19.58796	-112 37 31.53750	239.6920
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2052843.3516	-4925477.1908	3482451.4213
4	0125				
		ELLIPSOIDAL :	33 20 54.15269	-112 39 35.59077	222.653
		ASTRONOMIC :	33 20 54.15269	-112 39 35.59077	222.653
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2054791.8353	-4921814.1354	3486421.0025
4	0126				
		ELLIPSOIDAL :	33 20 2.91185	-112 39 35.33372	214.9261
		ASTRONOMIC :	33 20 2.91185	-112 39 35.33372	214.9261
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2055117.5023	-4922611.4563	3485097.8850
4	0151				
		ELLIPSOIDAL :	33 18 19.10386	-112 42 42.39994	211.7593
		ASTRONOMIC :	33 18 19.10386	-112 42 42.39994	211.7593
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2060258.3707	-4922363.7705	3482423.6182
4	0152				
		ELLIPSOIDAL :	33 18 19.51742	-112 41 40.35824	219.9472
		ASTRONOMIC :	33 18 19.51742	-112 41 40.35824	219.9472
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2058777.6371	-4922983.1046	3482438.7630
4	0144				
		ELLIPSOIDAL :	33 13 35.92203	-112 46 24.85551	268.4960

ODE	IDENT.	DESCRIPTOR	INITIAL VALUES		
		ASTRONOMIC :	33 13 35.92203	-112 46 24.85551	268.4910
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2067436.7731	-4924595.2751	3475159.7898
4	0162				
		ELLIPSOIDAL :	33 19 37.76668	-112 35 55.44148	224.2451
		ASTRONOMIC :	33 19 37.76668	-112 35 55.44148	224.2451
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2050035.0687	-4925199.7368	3484455.7248
4	0163				
		ELLIPSOIDAL :	33 20 0.98385	-112 35 27.75027	225.1471
		ASTRONOMIC :	33 20 0.98385	-112 35 27.75027	225.1471
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2049223.1418	-4925112.7263	3485053.8733
4	0145				
		ELLIPSOIDAL :	33 13 37.97347	-112 45 54.92698	260.1276
		ASTRONOMIC :	33 13 37.97347	-112 45 54.92698	260.1276
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2066706.0942	-4924856.8138	3475208.0742
	0107				
		ELLIPSOIDAL :	33 23 30.51327	-112 25 36.83923	230.9000
		ASTRONOMIC :	33 23 30.51327	-112 25 36.83923	230.9000
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2033752.6413	-4927685.9667	3490448.7406
4	0113				
		ELLIPSOIDAL :	33 22 13.06471	-112 28 41.09631	228.2371
		ASTRONOMIC :	33 22 13.06471	-112 28 41.09631	228.2371
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2038654.8534	-4927078.3266	3488454.7487
4	0146				
		ELLIPSOIDAL :	33 14 24.89979	-112 45 38.59087	265.2974
		ASTRONOMIC :	33 14 24.89979	-112 45 38.59087	265.2974
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2066011.1629	-4924293.8114	3476420.2046
4	0112				
		ELLIPSOIDAL :	33 23 31.40656	-112 28 44.04567	228.3860
		ASTRONOMIC :	33 23 31.40656	-112 28 44.04567	228.3860
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2038217.5889	-4925822.1627	3490470.3359

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

GF"UP:

CODE	IDENT.	DESCRIPTOR	INITIAL VALUES		
4	0111				
		ELLIPSOIDAL :	33 23 56.31996	-112 28 44.06028	233.3564
		ASTRONOMIC :	33 23 56.31996	-112 28 44.06028	233.3564
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2038057.9893	-4925435.4660	3491113.9162
4	0115				
		ELLIPSOIDAL :	33 23 31.53845	-112 30 15.58345	230.4765
		ASTRONOMIC :	33 23 31.53845	-112 30 15.58345	230.4765
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2040403.2193	-4924916.6882	3490474.8792
4	0117				
		ELLIPSOIDAL :	33 23 5.62131	-112 32 19.71604	227.6088
		ASTRONOMIC :	33 23 5.62131	-112 32 19.71604	227.6088
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2043534.2409	-4924091.5093	3489806.5846
4	0169				
		ELLIPSOIDAL :	33 20 46.40763	-112 31 17.59792	221.3892
		ASTRONOMIC :	33 20 46.40763	-112 31 17.59792	221.3892
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.000
		CARTESIAN :	-2042952.7769	-4926880.9410	3486220.973
4	0173				
		ELLIPSOIDAL :	33 20 54.47183	-112 28 11.95155	239.1134
		ASTRONOMIC :	33 20 54.47183	-112 28 11.95155	239.1134
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2038471.0235	-4928605.1543	3486438.2646
4	0108				
		ELLIPSOIDAL :	33 24 24.48350	-112 26 39.65459	255.6477
		ASTRONOMIC :	33 24 24.48350	-112 26 39.65459	255.6477
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2034911.6384	-4926239.4821	3491850.5765
4	0147				
		ELLIPSOIDAL :	33 15 44.41304	-112 45 45.20680	263.6980
		ASTRONOMIC :	33 15 44.41304	-112 45 45.20680	263.6980
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2065648.8786	-4922987.6968	3478467.9886
4	0702				
		ELLIPSOIDAL :	33 24 27.05347	-111 56 38.45326	339.8710
		ASTRONOMIC :	33 24 27.05347	-111 56 38.45326	339.8710
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000

CODE	IDENT.	DESCRIPTOR	INITIAL VALUES		
		CARTESIAN :	-1991826.3399	-4943846.0120	3491963.0476
4	0902				
		ELLIPSOIDAL :	33 25 43.63284	-111 55 34.87421	340.4148
		ASTRONOMIC :	33 25 43.63284	-111 55 34.87421	340.4148
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1989817.2884	-4943254.6996	3493932.7173
4	0178				
		ELLIPSOIDAL :	33 21 46.68003	-112 25 33.47732	273.1015
		ASTRONOMIC :	33 21 46.68003	-112 25 33.47732	273.1015
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2034357.1836	-4929378.5716	3487800.5094
4	0176				
		ELLIPSOIDAL :	33 21 46.77133	-112 26 4.71551	269.0996
		ASTRONOMIC :	33 21 46.77133	-112 26 4.71551	269.0996
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2035101.8341	-4929065.8984	3487800.6580
	0519				
		ELLIPSOIDAL :	33 25 45.78151	-111 51 23.04948	362.0000
		ASTRONOMIC :	33 25 45.78151	-111 51 23.04948	362.0000
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1983773.8114	-4945663.2146	3493999.8586
4	0342				
		ELLIPSOIDAL :	33 25 16.24893	-111 55 35.00066	344.2154
		ASTRONOMIC :	33 25 16.24893	-111 55 35.00066	344.2154
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1989995.0499	-4943687.5591	3493230.6409
4	0903				
		ELLIPSOIDAL :	33 25 44.69615	-111 57 8.67486	337.7884
		ASTRONOMIC :	33 25 44.69615	-111 57 8.67486	337.7884
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1992057.5026	-4942330.5298	3493958.6119
4	0168				
		ELLIPSOIDAL :	33 20 3.29118	-112 31 18.90736	255.2372
		ASTRONOMIC :	33 20 3.29118	-112 31 18.90736	255.2372
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2043274.5419	-4927568.5121	3485129.8010
4	0134				
		ELLIPSOIDAL :	33 19 12.65377	-112 47 34.70951	277.1654

C"UP:

CODE	IDENT.	DESCRIPTOR		INITIAL VALUES		
		ASTRONOMIC	:	33 19 12.65377	-112 47 34.70951	277.16[illegible]
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.000[illegible]
		CARTESIAN	:	-2066902.2062	-4918654.1571	3483838.2930
4	0526					
		ELLIPSOIDAL	:	33 27 58.95985	-111 47 15.12561	330.8020
		ASTRONOMIC	:	33 27 58.95985	-111 47 15.12561	330.8020
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1976978.7343	-4945919.8031	3497406.4196
4	0529					
		ELLIPSOIDAL	:	33 29 15.67821	-111 43 37.67785	347.1048
		ASTRONOMIC	:	33 29 15.67821	-111 43 37.67785	347.1048
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1971285.9313	-4946802.6261	3499387.0363
4	0102					
		ELLIPSOIDAL	:	33 24 47.70802	-112 19 24.90316	232.1000
		ASTRONOMIC	:	33 24 47.70802	-112 19 24.90316	232.1000
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2024366.7996	-4930134.9356	3492434.9150
	0104					
		ELLIPSOIDAL	:	33 24 49.18362	-112 22 30.56473	229.6383
		ASTRONOMIC	:	33 24 49.18362	-112 22 30.56473	229.6383
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2028793.3435	-4928285.7297	3492471.5084
4	0193					
		ELLIPSOIDAL	:	33 24 49.04571	-112 17 22.32499	236.7203
		ASTRONOMIC	:	33 24 49.04571	-112 17 22.32499	236.7203
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2021429.4373	-4931319.6657	3492471.8616
4	0522					
		ELLIPSOIDAL	:	33 27 5.28777	-111 49 22.31859	451.1000
		ASTRONOMIC	:	33 27 5.28777	-111 49 22.31859	451.1000
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1980404.4930	-4945639.3363	3496093.1031
4	0180					
		ELLIPSOIDAL	:	33 22 51.32059	-112 22 29.89105	234.7344
		ASTRONOMIC	:	33 22 51.32059	-112 22 29.89105	234.7344
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2029539.7594	-4930144.6453	3489442.5969

G[illegible]:

ODE	IDENT.	DESCRIPTOR		INITIAL VALUES		
4	0181					
		ELLIPSOIDAL	:	33 23 33.09329	-112 22 29.66890	231.4497
		ASTRONOMIC	:	33 23 33.09329	-112 22 29.66890	231.4497
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2029263.8086	-4929489.3899	3490515.4113
4	0184					
		ELLIPSOIDAL	:	33 23 30.25346	-112 19 22.55755	235.2947
		ASTRONOMIC	:	33 23 30.25346	-112 19 22.55755	235.2947
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2024810.7398	-4931375.7057	3490444.4760
4	0191					
		ELLIPSOIDAL	:	33 23 32.10936	-112 16 18.45048	242.9969
		ASTRONOMIC	:	33 23 32.10936	-112 16 18.45048	242.9969
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2020398.8151	-4933157.8680	3490496.4560
4	0127					
		ELLIPSOIDAL	:	33 21 20.33160	-112 40 38.73376	257.9321
		ASTRONOMIC	:	33 21 20.33160	-112 40 38.73376	257.9321
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2056138.8323	-4920802.9181	3487114.1283
4	0130					
		ELLIPSOIDAL	:	33 20 29.26339	-112 44 17.28380	280.1060
		ASTRONOMIC	:	33 20 29.26339	-112 44 17.28380	280.1060
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2061693.0446	-4919436.3612	3485811.9890
4	0156					
		ELLIPSOIDAL	:	33 18 43.71308	-112 39 36.51645	249.2541
		ASTRONOMIC	:	33 18 43.71308	-112 39 36.51645	249.2541
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2055673.2190	-4923863.1462	3483077.8511
4	0523					
		ELLIPSOIDAL	:	33 27 58.89532	-111 49 21.15063	367.8550
		ASTRONOMIC	:	33 27 58.89532	-111 49 21.15063	367.8550
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1980012.1534	-4944740.6854	3497425.1938
4	0517					
		ELLIPSOIDAL	:	33 27 57.55887	-111 51 24.38376	365.5030
		ASTRONOMIC	:	33 27 57.55887	-111 51 24.38376	365.5030
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000

OF IP:

CODE	IDENT.	DESCRIPTOR	INITIAL VALUES		
		CARTESIAN :	-1982973.7635	-4943576.0962	3497389.5463
4	0344				
		ELLIPSOIDAL :	33 25 19.49155	-111 52 59.12222	349.3801
		ASTRONOMIC :	33 25 19.49155	-111 52 59.12222	349.3801
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1986239.5352	-4945142.9630	3493316.8719
4	0185				
		ELLIPSOIDAL :	33 22 15.36448	-112 19 22.58242	24.1427
		ASTRONOMIC :	33 22 15.36448	-112 19 22.58242	24.1427
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2025226.5482	-4932386.7041	3488401.6585
4	0318				
		ELLIPSOIDAL :	33 24 55.16743	-112 11 11.60059	302.8578
		ASTRONOMIC :	33 24 55.16743	-112 11 11.60059	302.8578
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2012544.6292	-4934899.8014	3492665.7183
4	0320				
		ELLIPSOIDAL :	33 24 30.57907	-112 13 17.20972	296.722[illegible]
		ASTRONOMIC :	33 24 30.57907	-112 13 17.20972	296.722[illegible]
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2015705.2913	-4934054.7440	3492029.9670
4	0322				
		ELLIPSOIDAL :	33 24 0.59106	-112 14 13.29750	292.8504
		ASTRONOMIC :	33 24 0.59106	-112 14 13.29750	292.8504
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2017238.1677	-4933974.2933	3491256.5267
4	0317				
		ELLIPSOIDAL :	33 25 20.23603	-112 10 9.77560	305.5590
		ASTRONOMIC :	33 25 20.23603	-112 10 9.77560	305.5590
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2010905.7041	-4935110.9600	3493311.8797
4	0190				
		ELLIPSOIDAL :	33 22 38.91706	-112 16 19.28095	286.1671
		ASTRONOMIC :	33 22 38.91706	-112 16 19.28095	286.1671
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2020774.1236	-4934017.6084	3489151.7789
4	0321				
		ELLIPSOIDAL :	33 23 30.87055	-112 13 11.98813	292.9055

CODE	IDENT.	DESCRIPTOR	INITIAL VALUES		
		ASTRONOMIC :	33 23 30.87055	-112 13 11.98813	292.9055
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0010
		CARTESIAN :	-2015962.1420	-4935040.3041	3490492.0568
4	0328				
		ELLIPSOIDAL :	33 23 30.91469	-112 11 7.92126	300.1287
		ASTRONOMIC :	33 23 30.91469	-112 11 7.92126	300.1287
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2012995.3792	-4936256.8900	3490497.1677
4	0327				
		ELLIPSOIDAL :	33 23 5.05731	-112 11 8.21946	299.1906
		ASTRONOMIC :	33 23 5.05731	-112 11 8.21946	299.1906
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2013167.7694	-4936659.2127	3489831.4636
4	0330				
		ELLIPSOIDAL :	33 23 31.53431	-112 9 3.42915	304.7140
		ASTRONOMIC :	33 23 31.53431	-112 9 3.42915	304.7140
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2010013.1932	-4937464.7584	3490515.6305
	0331				
		ELLIPSOIDAL :	33 23 57.96718	-112 8 1.31256	308.3473
		ASTRONOMIC :	33 23 57.96718	-112 8 1.31256	308.3473
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2008358.4372	-4937657.4300	3491197.5662
4	0313				
		ELLIPSOIDAL :	33 25 41.23967	-112 5 59.67034	316.6632
		ASTRONOMIC :	33 25 41.23967	-112 5 59.67034	316.6632
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2004789.5599	-4937223.9504	3493858.0955
4	0312				
		ELLIPSOIDAL :	33 25 41.33363	-112 4 57.01544	319.6637
		ASTRONOMIC :	33 25 41.33363	-112 4 57.01544	319.6637
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2003290.0805	-4937833.5392	3493862.1645
4	0315				
		ELLIPSOIDAL :	33 25 21.03138	-112 8 4.51285	310.1911
		ASTRONOMIC :	33 25 21.03138	-112 8 4.51285	310.1911
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2007904.6563	-4936322.3331	3493334.8838

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

GETUP:

OC	IDENT.	DESCRIPTOR	INITIAL VALUES		
4	0308				
		ELLIPSOIDAL :	33 26 11.73641	-112 0 39.96096	211.0369
		ASTRONOMIC :	33 26 11.73641	-112 0 39.96096	211.0369
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1996907.4265	-4939763.7601	3494584.0436
4	0803				
		ELLIPSOIDAL :	33 26 13.53777	-112 1 48.48819	206.8102
		ASTRONOMIC :	33 26 13.53777	-112 1 48.48819	206.8102
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1998535.6571	-4939068.4380	3494628.0259
4	0309				
		ELLIPSOIDAL :	33 25 47.41820	-112 1 48.77404	205.8591
		ASTRONOMIC :	33 25 47.41820	-112 1 48.77404	205.8591
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1998708.5168	-4939475.9468	3493955.9232
4	0310				
		ELLIPSOIDAL :	33 25 21.30334	-112 1 49.05841	204.5342
		ASTRONOMIC :	33 25 21.30334	-112 1 49.05841	204.5342
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.000
		CARTESIAN :	-1998881.1630	-4939883.0266	3493283.68
4	0336				
		ELLIPSOIDAL :	33 24 26.05817	-112 1 46.83730	206.0739
		ASTRONOMIC :	33 24 26.05817	-112 1 46.83730	206.0739
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1999180.0351	-4940774.6470	3491863.7818
4	0334				
		ELLIPSOIDAL :	33 24 25.29628	-112 4 54.74234	195.6544
		ASTRONOMIC :	33 24 25.29628	-112 4 54.74234	195.6544
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2003681.7868	-4938955.2817	3491838.4497
4	0801				
		ELLIPSOIDAL :	33 24 25.37161	-112 4 23.64234	197.3224
		ASTRONOMIC :	33 24 25.37161	-112 4 23.64234	197.3224
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2002937.1259	-4939257.4409	3491841.3055
4	0802				
		ELLIPSOIDAL :	33 24 25.43071	-112 3 20.52514	199.7675
		ASTRONOMIC :	33 24 25.43071	-112 3 20.52514	199.7675
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000

CODE	IDENT.	DESCRIPTOR	INITIAL VALUES		
		CARTESIAN :	-2001426.0053	-4939871.0727	3491844.1717
4	0332				
		ELLIPSOIDAL :	33 24 24.21134	-112 8 1.86822	185.7095
		ASTRONOMIC :	33 24 24.21134	-112 8 1.86822	185.7095
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2008165.4467	-4937144.8434	3491805.0702
4	0187				
		ELLIPSOIDAL :	33 21 46.69728	-112 18 23.89036	280.2000
		ASTRONOMIC :	33 21 46.69728	-112 18 23.89036	280.2000
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2024088.5195	-4933610.0405	3487804.8570
4	0189				
		ELLIPSOIDAL :	33 21 39.67734	-112 15 32.04931	265.2172
		ASTRONOMIC :	33 21 39.67734	-112 15 32.04931	265.2172
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2020017.8965	-4935393.1101	3487615.9747
	0325				
		ELLIPSOIDAL :	33 22 12.57317	-112 13 13.57946	270.6535
		ASTRONOMIC :	33 22 12.57317	-112 13 13.57946	270.6535
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2016495.1290	-4936236.2633	3488465.4322
4	0186				
		ELLIPSOIDAL :	33 22 11.80394	-112 18 23.27209	263.8255
		ASTRONOMIC :	33 22 11.80394	-112 18 23.27209	263.8255
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-2023907.0612	-4933209.8546	3488441.8839
4	0339				
		ELLIPSOIDAL :	33 24 51.20693	-111 58 41.93421	244.8000
		ASTRONOMIC :	33 24 51.20693	-111 58 41.93421	244.8000
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1994602.5686	-4942199.1303	3492531.8922
4	0340				
		ELLIPSOIDAL :	33 25 18.73488	-111 58 39.56426	243.4399
		ASTRONOMIC :	33 25 18.73488	-111 58 39.56426	243.4399
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1994370.5463	-4941787.8332	3493239.0619
4	0804				
		ELLIPSOIDAL :	33 25 19.54866	-111 59 44.40204	238.2713

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

GROUP:

CODE	IDENT.	DESCRIPTOR		INITIAL VALUES		
		ASTRONOMIC	:	33 25 19.54866	-111 59 44.40204	238.2717
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1995917.0733	-4941143.8691	3493257.1415
4	0805					
		ELLIPSOIDAL	:	33 24 53.26301	-111 59 44.23997	239.9039
		ASTRONOMIC	:	33 24 53.26301	-111 59 44.23997	239.9039
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1996080.7557	-4941560.2662	3492582.0730
4	0707					
		ELLIPSOIDAL	:	33 22 29.70883	-111 59 54.74115	269.2027
		ASTRONOMIC	:	33 22 29.70883	-111 59 54.74115	269.2027
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1997253.3779	-4943738.4688	3488905.5304
4	0708					
		ELLIPSOIDAL	:	33 22 41.58554	-112 0 46.83643	256.0353
		ASTRONOMIC	:	33 22 41.58554	-112 0 46.83643	256.0353
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1998422.3549	-4943037.0489	3489203.8569
	0703					
		ELLIPSOIDAL	:	33 22 42.34530	-111 56 38.69911	257.1004
		ASTRONOMIC	:	33 22 42.34530	-111 56 38.69911	257.1004
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1992469.9382	-4945426.4606	3489223.9900
4	0704					
		ELLIPSOIDAL	:	33 21 49.93569	-111 56 45.94851	261.8253
		ASTRONOMIC	:	33 21 49.93569	-111 56 45.94851	261.8253
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1992977.1752	-4946183.9285	3487878.0840
4	0712					
		ELLIPSOIDAL	:	33 22 40.55795	-112 5 0.68101	249.4653
		ASTRONOMIC	:	33 22 40.55795	-112 5 0.68101	249.4653
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-2004508.5893	-4940584.9577	3489173.8044
4	0520					
		ELLIPSOIDAL	:	33 26 38.27002	-111 51 22.89199	353.2063
		ASTRONOMIC	:	33 26 38.27002	-111 51 22.89199	353.2063
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1983435.5617	-4944830.8655	3495344.5652

CODE	IDENT.	DESCRIPTOR	INITIAL VALUES		
4	0901				
		ELLIPSOIDAL :	33 25 45.02899	-111 54 32.89856	343.3533
		ASTRONOMIC :	33 25 45.02899	-111 54 32.89856	343.3533
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1988323.9891	-4943832.6388	3493970.2341
4	0306				
		ELLIPSOIDAL :	33 26 36.26432	-111 58 41.93706	348.5000
		ASTRONOMIC :	33 26 36.26432	-111 58 41.93706	348.5000
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1993967.6595	-4940625.7646	3495290.4023
4	0307				
		ELLIPSOIDAL :	33 26 34.86755	-112 0 5.75974	339.3499
		ASTRONOMIC :	33 26 34.86755	-112 0 5.75974	339.3499
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1995981.3101	-4939829.9514	3495249.4534
4	0303				
		ELLIPSOIDAL :	33 26 38.97869	-111 54 34.43776	353.7000
		ASTRONOMIC :	33 26 38.97869	-111 54 34.43776	353.7000
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1988022.3375	-4942976.0536	3495363.0566
4	0302				
		ELLIPSOIDAL :	33 27 4.33400	-111 54 32.85471	355.9583
		ASTRONOMIC :	33 27 4.33400	-111 54 32.85471	355.9583
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1987824.4367	-4942593.5710	3496016.1395
4	0516				
		ELLIPSOIDAL :	33 28 23.62359	-111 51 23.65232	369.0136
		ASTRONOMIC :	33 28 23.62359	-111 51 23.65232	369.0136
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1982792.4411	-4943174.7888	3498061.3924
4	0304				
		ELLIPSOIDAL :	33 26 38.21452	-111 55 34.65990	355.5787
		ASTRONOMIC :	33 26 38.21452	-111 55 34.65990	355.5787
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN :	-1989470.8604	-4942408.9013	3495344.4458
4	0508				
		ELLIPSOIDAL :	33 29 43.52703	-111 45 10.48317	390.0000
		ASTRONOMIC :	33 29 43.52703	-111 45 10.48317	390.0000
		GEOIDAL :	0 0 0.00000	0 0 0.00000	0.0000

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

C"UP:

CODE	IDENT.	DESCRIPTOR		INITIAL VALUES		
		CARTESIAN	:	1973349.2431	-4945508.6369	3500126.2934
4	0514					
		ELLIPSOIDAL	:	33 29 16.79628	-111 49 20.16836	385.9369
		ASTRONOMIC	:	33 29 16.79628	-111 49 20.16836	385.9369
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1979502.0564	-4943535.0245	3499437.1927
4	0527					
		ELLIPSOIDAL	:	33 28 51.36379	-111 47 15.57206	383.5480
		ASTRONOMIC	:	33 28 51.36379	-111 47 15.57206	383.5480
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1976675.2285	-4945129.4494	3498782.3229
4	0504					
		ELLIPSOIDAL	:	33 31 1.84850	-111 43 5.79193	407.7385
		ASTRONOMIC	:	33 31 1.84850	-111 43 5.79193	407.7385
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1969871.7448	-4945476.8209	3502148.2559
4	0505					
		ELLIPSOIDAL	:	33 30 35.69133	-111 43 5.81104	398.790
		ASTRONOMIC	:	33 30 35.69133	-111 43 5.81104	398.790
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1970034.1060	-4945883.1051	3501471.3618
4	0531					
		ELLIPSOIDAL	:	33 29 43.49057	-111 43 13.21208	400.0229
		ASTRONOMIC	:	33 29 43.49057	-111 43 13.21208	400.0229
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1970540.4964	-4946638.1188	3500130.8869
4	0530					
		ELLIPSOIDAL	:	33 28 51.67854	-111 43 7.01971	419.7246
		ASTRONOMIC	:	33 28 51.67854	-111 43 7.01971	419.7246
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1970724.0218	-4947530.8451	3498810.3687
4	0525					
		ELLIPSOIDAL	:	33 27 32.67690	-111 47 16.80573	471.6528
		ASTRONOMIC	:	33 27 32.67690	-111 47 16.80573	471.6528
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1977228.3724	-4946427.4334	3496808.5085
4	0515					
		ELLIPSOIDAL	:	33 29 16.45191	-111 50 22.20024	351.6462

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

ODE	IDENT.	DESCRIPTOR		INITIAL VALUES		
		ASTRONOMIC	:	33 29 16.45191	-111 50 22.20024	351.6462
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1980980.2198	-4942918.3756	3499409.4233
4	0507					
		ELLIPSOIDAL	:	33 30 35.68109	-111 45 10.24801	363.5921
		ASTRONOMIC	:	33 30 35.68109	-111 45 10.24801	363.5921
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1973006.7246	-4944666.6118	3501451.6663
4	0511					
		ELLIPSOIDAL	:	33 29 58.79574	-111 47 59.11135	359.8040
		ASTRONOMIC	:	33 29 58.79574	-111 47 59.11135	359.8040
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1977285.9252	-4943629.2554	3500501.9361
4	0501					
		ELLIPSOIDAL	:	33 31 27.92193	-111 41 0.86511	374.7485
		ASTRONOMIC	:	33 31 27.92193	-111 41 0.86511	374.7485
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1966702.0148	-4946231.1819	3502799.7834
	0502					
		ELLIPSOIDAL	:	33 31 30.37801	-111 42 7.13751	405.1366
		ASTRONOMIC	:	33 31 30.37801	-111 42 7.13751	405.1366
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1968285.0384	-4945583.7345	3502879.6529
4	0533					
		ELLIPSOIDAL	:	33 30 35.47800	-111 41 2.47169	394.4563
		ASTRONOMIC	:	33 30 35.47800	-111 41 2.47169	394.4563
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1967076.2894	-4947060.2482	3501463.4885
4	0532					
		ELLIPSOIDAL	:	33 30 13.26932	-111 41 2.47056	432.8119
		ASTRONOMIC	:	33 30 13.26932	-111 41 2.47056	432.8119
		GEOIDAL	:	0 0 0.00000	0 0 0.00000	0.0000
		CARTESIAN	:	-1967227.6516	-4947440.9926	3500914.0965

ETUP successfully completed.

FO MEQ:

NOTE 6: Reordering was done.

AT	TO	OBS TYPE	OBSERVATION	APPROX.SIG.	MISCLOSURE
GROUP: 011333010PT 1					
0001	0013	3-D X-Coord Diff	20695.2260	0.2295	-57.4387
0001	0013	3-D Y-Coord Diff	-2703.2920	0.4087	-41.2014
0001	0013	3-D Z-Coord Diff	8012.2380	0.1570	9.8114
GROUP: 131533010PT 3					
0013	0015	3-D X-Coord Diff	7640.9180	0.0083	57.5546
0013	0015	3-D Y-Coord Diff	2000.2650	0.0107	41.0178
0013	0015	3-D Z-Coord Diff	7977.1080	0.0104	-9.7334
GROUP: 011333020PT 4					
0001	0013	3-D X-Coord Diff	20695.3600	0.0455	-57.5727
0001	0013	3-D Y-Coord Diff	-2703.6390	0.0621	-40.8544
0001	0013	3-D Z-Coord Diff	8012.2680	0.0503	9.7814
GROUP: 131533020PT 6					
0013	0015	3-D X-Coord Diff	7640.9310	0.0215	57.5416
0013	0015	3-D Y-Coord Diff	2000.2410	0.0300	41.0418
0013	0015	3-D Z-Coord Diff	7977.1140	0.0246	-9.7394
GROUP: 010733710PT 7					
0001	0007	3-D X-Coord Diff	-47989.0990	0.1298	-7.6095
0001	0007	3-D Y-Coord Diff	22549.1480	0.1780	1.8342
0001	0007	3-D Z-Coord Diff	3639.6960	0.0541	-12.5334
G P: 010933710PT 8					
0001	0009	3-D X-Coord Diff	-1476.1570	0.0736	-7.6093
0001	0009	3-D Y-Coord Diff	10077.4780	0.1040	1.8347
0001	0009	3-D Z-Coord Diff	13238.9790	0.0289	-12.5326
GROUP: 011333710PT 9					
0001	0013	3-D X-Coord Diff	20695.3120	0.0636	-57.5247
0001	0013	3-D Y-Coord Diff	-2703.4710	0.0882	-41.0224
0001	0013	3-D Z-Coord Diff	8012.3110	0.0255	9.7384
GROUP: 071333710PT 11					
0007	0013	3-D X-Coord Diff	68684.4280	0.1964	-49.9322
0007	0013	3-D Y-Coord Diff	-25252.6160	0.2831	-42.8596
0007	0013	3-D Z-Coord Diff	4372.6380	0.0808	22.2487
GROUP: 091333710PT 12					
0009	0013	3-D X-Coord Diff	22171.4990	0.0856	-49.9455
0009	0013	3-D Y-Coord Diff	-12780.9480	0.1217	-42.8581
0009	0013	3-D Z-Coord Diff	-5226.6750	0.0343	22.2780
GROUP: 010733720PT 13					
0001	0007	3-D X-Coord Diff	-47988.9410	0.1295	-7.7675
0001	0007	3-D Z-Coord Diff	3639.9400	0.1561	-12.7774
GROUP: 010933720PT 14					
0001	0009	3-D X-Coord Diff	-1476.0970	0.0571	-7.6693
0001	0009	3-D Y-Coord Diff	10077.4540	0.0768	1.8587
0001	0009	3-D Z-Coord Diff	13239.0090	0.0677	-12.5626
GROUP: 011333720PT 15					

F Q:

001	0013	3-D X-Coord Diff	20695.2970	0.0604	-57.5097
0001	0013	3-D Y-Coord Diff	-2703.5420	0.0825	-40.9514
001	0013	3-D Z-Coord Diff	8012.2310	0.0719	9.8184
ROUP: 071333720PT 17					
007	0013	3-D X-Coord Diff	68684.2380	0.1602	-49.7422
0007	0013	3-D Y-Coord Diff	-25252.9320	0.2202	-42.5436
007	0013	3-D Z-Coord Diff	4372.2700	0.1913	22.6167
ROUP: 091333720PT 18					
0009	0013	3-D X-Coord Diff	22171.4020	0.0575	-49.8485
009	0013	3-D Y-Coord Diff	-12781.0310	0.0820	-42.7751
009	0013	3-D Z-Coord Diff	-5226.7810	0.0722	22.3840
GROUP: 151933810PT 19					
0015	0019	3-D X-Coord Diff	21668.4410	0.0749	21.7155
015	0019	3-D Y-Coord Diff	-13151.7970	0.0922	8.1504
015	0019	3-D Z-Coord Diff	-6927.2700	0.0283	-7.6940
GROUP: 151933840PT 20					
015	0019	3-D X-Coord Diff	21668.4080	0.0553	21.7485
015	0019	3-D Y-Coord Diff	-13151.6840	0.0837	8.0374
0015	0019	3-D Z-Coord Diff	-6927.2470	0.0651	-7.7170
GROUP: 152133810PT 21					
015	0021	3-D X-Coord Diff	1525.1950	0.0632	21.7158
0015	0021	3-D Y-Coord Diff	-9548.3590	0.0764	8.1504
0	0021	3-D Z-Coord Diff	-13213.9660	0.0248	-7.6936
P: 152133840PT 22					
5	0021	3-D X-Coord Diff	1525.1410	0.0470	21.7698
0015	0021	3-D Y-Coord Diff	-9548.2970	0.0729	8.0884
015	0021	3-D Z-Coord Diff	-13213.9730	0.0560	-7.6866
ROUP: 011333910PT 25					
0001	0013	3-D X-Coord Diff	20695.4450	0.0765	-57.6577
0001	0013	3-D Y-Coord Diff	-2703.6620	0.0959	-40.8314
001	0013	3-D Z-Coord Diff	8012.3170	0.0299	9.7324
GROUP: 011333940PT 26					
0001	0013	3-D X-Coord Diff	20695.3920	0.0480	-57.6047
001	0013	3-D Y-Coord Diff	-2703.6250	0.0739	-40.8684
001	0013	3-D Z-Coord Diff	8012.3440	0.0587	9.7054
GROUP: 012133910PT 27					
001	0021	3-D X-Coord Diff	29861.5020	0.0839	21.6686
001	0021	3-D Y-Coord Diff	-10251.7810	0.1049	8.3617
0001	0021	3-D Z-Coord Diff	2775.5300	0.0309	-7.7656
GROUP: 012133940PT 28					
001	0021	3-D X-Coord Diff	29861.5480	0.0579	21.6226
001	0021	3-D Y-Coord Diff	-10251.7150	0.0907	8.2957
0001	0021	3-D Z-Coord Diff	2775.5620	0.0718	-7.7976
ROUP: 132133910PT 29					
013	0021	3-D X-Coord Diff	9166.1410	0.0101	79.2424
0013	0021	3-D Y-Coord Diff	-7548.0480	0.0139	49.1221
013	0021	3-D Z-Coord Diff	-5236.8390	0.0116	-17.4460
ROUP: 132133940PT 30					

F[illegible]MEQ:

0013	0021	3-D X-Coord Diff	9166.1320	0.0075	79.2514
0013	0021	3-D Y-Coord Diff	-7548.0860	0.0151	49.1601
0013	0021	3-D Z-Coord Diff	-5236.7890	0.0139	-17.4961
GROUP: 010534010PT 31					
0001	0005	3-D X-Coord Diff	-38532.4040	0.0774	-118.1043
0001	0005	3-D Y-Coord Diff	11296.8590	0.0902	-57.0487
0001	0005	3-D Z-Coord Diff	-6496.9000	0.0287	-8.9222
GROUP: 010534040PT 32					
0001	0005	3-D X-Coord Diff	-38532.2820	0.0596	-118.2263
0001	0005	3-D Y-Coord Diff	11296.9730	0.1017	-57.1627
0001	0005	3-D Z-Coord Diff	-6497.0070	0.0728	-8.8152
GROUP: 010734010PT 33					
0001	0007	3-D X-Coord Diff	-47989.2130	0.0923	-7.4955
0001	0007	3-D Y-Coord Diff	22549.3540	0.1082	1.6282
0001	0007	3-D Z-Coord Diff	3639.8190	0.0344	-12.6564
GROUP: 010734040PT 34					
0001	0007	3-D X-Coord Diff	-47989.0570	0.0770	-7.6515
0001	0007	3-D Y-Coord Diff	22549.3010	0.1290	1.6812
0001	0007	3-D Z-Coord Diff	3639.6130	0.0916	-12.4504
GROUP: 050734010PT 35					
0005	0007	3-D X-Coord Diff	-9456.8210	0.0519	110.6208
0005	0007	3-D Y-Coord Diff	11252.5110	0.0631	58.6609
0005	0007	3-D Z-Coord Diff	10136.7270	0.0192	-3.7421
GROUP: 050734040PT 36					
0005	0007	3-D X-Coord Diff	-9456.8170	0.0406	110.6168
0005	0007	3-D Y-Coord Diff	11252.4890	0.0674	58.6829
0005	0007	3-D Z-Coord Diff	10136.7380	0.0477	-3.7531
GROUP: 191333810PT 40					
0019	0513	3-D X-Coord Diff	-5589.5420	0.0070	-0.0967
GROUP: 150533830PT 42					
0015	0705	3-D X-Coord Diff	-74.9150	0.1602	21.8251
0015	0705	3-D Y-Coord Diff	-11728.1460	0.1685	8.1354
0015	0705	3-D Z-Coord Diff	-17216.1750	0.1520	-7.8174
GROUP: 150133820PT 44					
0015	0301	3-D X-Coord Diff	9226.7710	0.0845	21.8017
0015	0301	3-D Y-Coord Diff	-9190.7130	0.1654	7.8082
0015	0301	3-D Z-Coord Diff	-8446.9600	0.0473	-7.7527
GROUP: 151333810PT 45					
0015	0513	3-D X-Coord Diff	16079.1240	0.1320	21.3938
0015	0513	3-D Y-Coord Diff	-9545.3600	0.1782	7.8603
0015	0513	3-D Z-Coord Diff	-5043.6510	0.0522	-7.5514
GROUP: 132633930PT 46					
0013	0326	3-D X-Coord Diff	-11747.8370	0.0111	8.2247
0013	0326	3-D Y-Coord Diff	-900.3370	0.0233	32.7166
0013	0326	3-D Z-Coord Diff	-8022.9500	0.0206	-39.6103
GROUP: 012633930PT 47					
0001	0326	3-D X-Coord Diff	8947.4700	0.0050	-49.2950
0001	0326	3-D Y-Coord Diff	-3603.9790	0.0115	-8.1348

F[illegible]Q:

T	TO	OBS TYPE	OBSERVATION	APPROX.SIG.	MISCLOSURE
0001	0326	3-D Z-Coord Diff	-10.6150	0.0097	-29.895[illegible]
ROUP: 211133940PT 48					
021	0711	3-D X-Coord Diff	-10216.4760	0.1643	-71.1019
0021	0711	3-D Y-Coord Diff	887.9230	0.1485	-16.4758
021	0711	3-D Z-Coord Diff	-4593.4290	0.2194	-22.1121
ROUP: 011133940PT 49					
0001	0711	3-D X-Coord Diff	19644.9590	0.1575	-49.3662
0001	0711	3-D Y-Coord Diff	-9363.6550	0.1367	-8.3171
001	0711	3-D Z-Coord Diff	-1817.8450	0.1783	-29.9317
ROUP: 139233920PT 50					
0013	0192	3-D X-Coord Diff	-17087.1050	0.2445	8.2244
013	0192	3-D Y-Coord Diff	3204.6830	0.6518	32.7164
013	0192	3-D Z-Coord Diff	-5328.1180	0.1105	-39.6104
GROUP: 219233920PT 51					
021	0192	3-D X-Coord Diff	-26253.2230	0.1885	-71.0410
021	0192	3-D Y-Coord Diff	10753.0080	0.5260	-16.6827
0021	0192	3-D Z-Coord Diff	-91.3190	0.0868	-22.1245
GROUP: 072934020PT 52					
007	0129	3-D X-Coord Diff	12468.4540	0.1354	-110.6093
007	0129	3-D Y-Coord Diff	-9632.4730	0.2015	-58.6767
00[illegible]	0129	3-D Z-Coord Diff	-6349.2060	0.0565	3.7355
[illegible]: 012934020PT 53					
1	0129	3-D X-Coord Diff	-35520.5740	0.2112	-118.2898
0001	0129	3-D Y-Coord Diff	12916.8680	0.3150	-57.0354
0001	0129	3-D Z-Coord Diff	-2709.3310	0.0887	-8.9769
ROUP: 074134010PT 55					
007	0141	3-D X-Coord Diff	1958.6150	0.0716	-110.6089
0007	0141	3-D Y-Coord Diff	-11830.6040	0.0802	-58.6770
007	0141	3-D Z-Coord Diff	-15641.0690	0.0249	3.7351
ROUP: 054134010PT 56					
0005	0141	3-D X-Coord Diff	-7498.0610	0.0125	-0.1330
ROUP: 076134030PT 57					
007	0161	3-D X-Coord Diff	20688.7070	0.1293	-110.6083
0007	0161	3-D Y-Coord Diff	-14986.1580	0.1739	-58.6771
0007	0161	3-D Z-Coord Diff	-9025.0490	0.1382	3.7356
ROUP: 016134030PT 58					
001	0161	3-D X-Coord Diff	-27300.3790	0.1023	-118.2308
0001	0161	3-D Y-Coord Diff	7563.1470	0.1268	-56.9999
001	0161	3-D Z-Coord Diff	-5385.2740	0.1022	-8.8768
ROUP: 077234040PT 59					
0007	0172	3-D X-Coord Diff	33086.8810	0.1523	-110.6091
007	0172	3-D Y-Coord Diff	-18718.4160	0.1190	-58.6775
007	0172	3-D Z-Coord Diff	-7008.8510	0.1398	3.7351
GROUP: 294834410PT 62					
0129	0148	3-D X-Coord Diff	-4411.9660	0.0024	66.4063
129	0148	3-D Y-Coord Diff	-2371.5070	0.0039	44.1947

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 1.100

F[illegible]MEQ:

AT	TO	OBS TYPE	OBSERVATION	APPROX.SIG.	MISCLOSURE
0129	0148	3-D Z-Coord Diff	-5945.0550	0.0026	15.5[illegible]
GROUP: 295034410PT 63					
0129	0150	3-D X-Coord Diff	-2666.0610	0.0022	66.40[illegible]
0129	0150	3-D Y-Coord Diff	-1740.1650	0.0038	44.19[illegible]
0129	0150	3-D Z-Coord Diff	-4031.0470	0.0023	15.5[illegible]
GROUP: 295334410PT 64					
0129	0153	3-D X-Coord Diff	-455.9930	0.0018	66.40[illegible]
0129	0153	3-D Y-Coord Diff	-1250.1620	0.0027	44.19[illegible]
0129	0153	3-D Z-Coord Diff	-2035.4890	0.0019	15.5[illegible]
GROUP: 293234420PT 70					
0129	0132	3-D X-Coord Diff	-4990.4820	0.0030	66.40[illegible]
0129	0132	3-D Y-Coord Diff	594.1940	0.0073	44.1950
0129	0132	3-D Z-Coord Diff	-2118.0430	0.0080	15.53[illegible]
GROUP: 293334420PT 71					
0129	0133	3-D X-Coord Diff	-6461.3710	0.0029	66.4065
0129	0133	3-D Y-Coord Diff	1254.0370	0.0053	44.1943
0129	0133	3-D Z-Coord Diff	-2042.2400	0.0060	15.5382
GROUP: 374134320PT 73					
0137	0141	3-D X-Coord Diff	-669.8050	0.0018	-74.62[illegible]
0137	0141	3-D Y-Coord Diff	-2222.1970	0.0031	28.49[illegible]
0137	0141	3-D Z-Coord Diff	-3510.7590	0.0037	-21.5041
GROUP: 292334430PT 74					
(9	0123	3-D X-Coord Diff	6477.9960	0.0044	66.4062
0129	0123	3-D Y-Coord Diff	-1291.7440	0.0121	44.1949
0129	0123	3-D Z-Coord Diff	2007.5960	0.0038	15.5379
GROUP: 292434430PT 75					
0129	0124	3-D X-Coord Diff	4789.3080	0.0041	66.4069
0129	0124	3-D Y-Coord Diff	-1064.5800	0.0115	44.1941
0129	0124	3-D Z-Coord Diff	1329.3270	0.0036	15.5374
GROUP: 404134320PT 81					
0140	0141	3-D X-Coord Diff	-886.1240	0.0016	-74.6212
0140	0141	3-D Y-Coord Diff	-671.3340	0.0028	28.4925
0140	0141	3-D Z-Coord Diff	-1454.1840	0.0033	-21.5035
GROUP: 606135010PT 83					
0160	0161	3-D X-Coord Diff	1814.2210	0.0025	-69.4759
0160	0161	3-D Y-Coord Diff	186.2120	0.0034	-45.3362
0160	0161	3-D Z-Coord Diff	1315.1080	0.0025	-10.017[illegible]
GROUP: 606435010PT 84					
0160	0164	3-D X-Coord Diff	2508.1640	0.0025	-3.1573
0160	0164	3-D Y-Coord Diff	1821.6830	0.0037	-1.2574
0160	0164	3-D Z-Coord Diff	3992.7120	0.0026	5.53[illegible]
GROUP: 616435010PT 86					
0161	0164	3-D X-Coord Diff	693.9440	0.0031	66.3171
0161	0164	3-D Y-Coord Diff	1635.4720	0.0042	44.0773
0161	0164	3-D Z-Coord Diff	2677.6030	0.0031	15.55[illegible]
GROUP: 642535020PT 87					

F[illegible]:

[illegible]164	0125	3-D X-Coord Diff	-4455.9850	0.0020	2.4951
0164	0125	3-D Y-Coord Diff	1840.9900	0.0037	1.6399
0164	0125	3-D Z-Coord Diff	-23.3720	0.0041	-5.2973
[illegible]OUP: 642635020PT 88					
[illegible]164	0126	3-D X-Coord Diff	-4781.6520	0.0022	2.4951
0164	0126	3-D Y-Coord Diff	1043.6700	0.0041	1.6390
[illegible]164	0126	3-D Z-Coord Diff	-1346.4890	0.0046	-5.2978
[illegible]ROUP: 414234320PT 89					
0141	0142	3-D X-Coord Diff	1591.9540	0.0021	74.6203
0141	0142	3-D Y-Coord Diff	-865.1280	0.0037	-28.4932
[illegible]141	0142	3-D Z-Coord Diff	-298.5100	0.0044	21.5044
[illegible]ROUP: 505135030PT 91					
0150	0151	3-D X-Coord Diff	1657.6380	0.0018	2.5064
[illegible]150	0151	3-D Y-Coord Diff	-686.7960	0.0051	1.6254
[illegible]150	0151	3-D Z-Coord Diff	12.0430	0.0016	-5.2709
GROUP: 505235030PT 92					
[illegible]150	0152	3-D X-Coord Diff	3138.3720	0.0022	2.5061
[illegible]150	0152	3-D Y-Coord Diff	-1306.1310	0.0062	1.6263
0150	0152	3-D Z-Coord Diff	27.1880	0.0020	-5.2711
GROUP: 616235040PT 95					
[illegible]161	0162	3-D X-Coord Diff	994.6240	0.0020	68.9138
[illegible]161	0162	3-D Y-Coord Diff	90.9200	0.0030	45.6582
01[illegible]	0162	3-D Z-Coord Diff	688.9530	0.0023	10.2596
[illegible]: 616335040PT 96					
[illegible]1	0163	3-D X-Coord Diff	1806.5510	0.0022	68.9138
0161	0163	3-D Y-Coord Diff	177.9310	0.0035	45.6577
0161	0163	3-D Z-Coord Diff	1287.1010	0.0026	10.2601
[illegible]ROUP: 071635110PT 100					
0107	0116	3-D X-Coord Diff	-8618.6110	0.0032	2.5678
0107	0116	3-D Y-Coord Diff	2151.5500	0.0047	-35.4691
[illegible]107	0116	3-D Z-Coord Diff	-1998.9640	0.0033	-16.0587
[illegible]ROUP: 131635110PT 103					
0113	0116	3-D X-Coord Diff	-3716.4010	0.0021	2.5699
[illegible]113	0116	3-D Y-Coord Diff	1543.9080	0.0030	-35.4672
[illegible]113	0116	3-D Z-Coord Diff	-4.9700	0.0021	-16.0607
GROUP: 151935130PT 110					
0115	0119	3-D X-Coord Diff	-5523.8130	0.0025	3.0547
[illegible]115	0119	3-D Y-Coord Diff	1326.5830	0.0068	-6.4584
[illegible]115	0119	3-D Z-Coord Diff	-1360.1220	0.0022	19.6599
GROUP: 152035130PT 111					
[illegible]115	0120	3-D X-Coord Diff	-6450.7740	0.0049	2.5756
[illegible]115	0120	3-D Y-Coord Diff	1255.8820	0.0147	-35.4523
0115	0120	3-D Z-Coord Diff	-2007.6650	0.0046	-16.0748
[illegible]ROUP: 171935130PT 112					
[illegible]117	0119	3-D X-Coord Diff	-2392.7910	0.0019	3.0543
0117	0119	3-D Y-Coord Diff	501.4030	0.0051	-6.4573
0117	0119	3-D Z-Coord Diff	-691.8280	0.0016	19.6606
[illegible]ROUP: 172035130PT 114					

F' MEQ:

0117	0120	3-D X-Coord Diff	-3319.7520	0.0047	2.5752
0117	0120	3-D Y-Coord Diff	430.7020	0.0142	-35.4512
0117	0120	3-D Z-Coord Diff	-1339.3710	0.0045	-16.0741
GROUP: 192035130PT 115					
0119	0120	3-D X-Coord Diff	-926.9610	0.0044	-0.4791
0119	0120	3-D Y-Coord Diff	-70.7030	0.0129	-28.9919
0119	0120	3-D Z-Coord Diff	-647.5420	0.0042	-35.7357
GROUP: 646935140PT 116					
0164	0169	3-D X-Coord Diff	7388.6350	0.0037	-3.0665
0164	0169	3-D Y-Coord Diff	-3230.6550	0.0057	6.4792
0164	0169	3-D Z-Coord Diff	-209.0330	0.0042	-19.6652
GROUP: 647335140PT 118					
0164	0173	3-D X-Coord Diff	11870.3890	0.0050	-3.0671
0164	0173	3-D Y-Coord Diff	-4954.8680	0.0077	6.4789
0164	0173	3-D Z-Coord Diff	8.2580	0.0057	-19.6652
GROUP: 070835210PT 120					
0107	0108	3-D X-Coord Diff	-1149.0960	0.0022	-9.9011
0107	0108	3-D Y-Coord Diff	1447.5970	0.0032	-1.1125
0107	0108	3-D Z-Coord Diff	1370.6050	0.0023	31.2309
GROUP: 081135210PT 124					
0108	0111	3-D X-Coord Diff	-3156.2440	0.0033	9.8932
0108	0111	3-D Y-Coord Diff	802.9190	0.0049	1.0971
0108	0111	3-D Z-Coord Diff	-705.4460	0.0036	-31.2143
GROUP: 374834340PT 125					
0137	0148	3-D X-Coord Diff	5427.9800	0.0046	-8.1268
0137	0148	3-D Y-Coord Diff	-2395.6190	0.0073	72.7335
0137	0148	3-D Z-Coord Diff	-163.8410	0.0052	-6.0762
GROUP: 081235210PT 126					
0108	0112	3-D X-Coord Diff	-3315.8610	0.0028	9.9106
0108	0112	3-D Y-Coord Diff	416.2010	0.0043	1.1184
0108	0112	3-D Z-Coord Diff	-1349.0160	0.0031	-31.2246
GROUP: 464734340PT 129					
0146	0147	3-D Y-Coord Diff	1306.0660	0.0046	0.0486
GROUP: 077835220PT 131					
0107	0178	3-D X-Coord Diff	-594.6420	0.0031	-9.9003
0107	0178	3-D Y-Coord Diff	-1691.4930	0.0060	-1.1119
0107	0178	3-D Z-Coord Diff	-2679.4620	0.0061	31.2308
GROUP: 737635220PT 132					
0173	0176	3-D X-Coord Diff	3379.0590	0.0033	-9.8696
0173	0176	3-D Y-Coord Diff	-459.6060	0.0064	-1.1381
0173	0176	3-D Z-Coord Diff	1331.1960	0.0065	31.1973
GROUP: 464834340PT 133					
0146	0148	3-D X-Coord Diff	2354.8690	0.0053	-8.1263
0146	0148	3-D Y-Coord Diff	1911.0860	0.0083	72.7835
0146	0148	3-D Z-Coord Diff	4088.7180	0.0061	-6.0850
GROUP: 474834340PT 137					
0147	0148	3-D X-Coord Diff	1992.5840	0.0032	-8.1256
0147	0148	3-D Y-Coord Diff	605.0190	0.0050	72.7360

F[illegible]:

[illegible]	TO	OBS TYPE	OBSERVATION	APPROX.SIG.	MISCLOSURE
0147	0148	3-D Z-Coord Diff	2040.9270	0.0037	-6.0780
[illegible]OUP: 736835230PT 138					
[illegible]73	0168	3-D X-Coord Diff	-4793.6490	0.0039	-9.8694
0173	0168	3-D Y-Coord Diff	1037.7800	0.0106	-1.1378
[illegible]73	0168	3-D Z-Coord Diff	-1339.6610	0.0036	31.1974
[illegible]OUP: 737235230PT 139					
0173	0172	3-D X-Coord Diff	-166.3060	0.0018	-63.1038
0173	0172	3-D Y-Coord Diff	-412.1860	0.0049	-51.2331
[illegible]73	0172	3-D Z-Coord Diff	-669.2270	0.0016	3.6720
[illegible]OUP: 636835230PT 140					
0163	0168	3-D X-Coord Diff	5964.1280	0.0035	-15.5281
[illegible]63	0168	3-D Y-Coord Diff	-2459.5710	0.0095	3.7852
[illegible]63	0168	3-D Z-Coord Diff	59.0700	0.0031	16.8577
GROUP: 363334350PT 141					
0136	0133	3-D X-Coord Diff	1549.5440	0.0023	-8.1424
[illegible]36	0133	3-D Y-Coord Diff	786.3720	0.0030	72.7506
0136	0133	3-D Z-Coord Diff	2034.1750	0.0030	-6.0631
GROUP: 637235230PT 142					
[illegible]63	0172	3-D X-Coord Diff	10591.4720	0.0063	-68.7635
[illegible]63	0172	3-D Y-Coord Diff	-3909.5340	0.0172	-46.3131
01[illegible]	0172	3-D Z-Coord Diff	729.5020	0.0056	-10.6656
[illegible]: 687235230PT 143					
[illegible]3	0172	3-D X-Coord Diff	4627.3450	0.0035	-53.2364
0168	0172	3-D Y-Coord Diff	-1449.9640	0.0097	-50.0973
0168	0172	3-D Z-Coord Diff	670.4330	0.0032	-27.5244
[illegible]ROUP: 202635240PT 144					
[illegible]120	0126	3-D X-Coord Diff	-8269.1040	0.0062	3.0194
0120	0126	3-D Y-Coord Diff	1054.1400	0.0097	30.6622
[illegible]120	0126	3-D Z-Coord Diff	-3383.6700	0.0077	30.4155
[illegible]ROUP: 206435240PT 147					
0120	0164	3-D X-Coord Diff	-3487.4330	0.0034	0.5053
[illegible]120	0164	3-D Y-Coord Diff	10.4930	0.0053	29.0003
[illegible]120	0164	3-D Z-Coord Diff	-2037.1950	0.0042	35.7274
GROUP: 265335240PT 148					
0126	0153	3-D X-Coord Diff	-4588.4750	0.0031	-2.4694
[illegible]126	0153	3-D Y-Coord Diff	1424.5100	0.0048	-1.6506
[illegible]126	0153	3-D Z-Coord Diff	-690.7800	0.0039	5.2991
GROUP: 333434350PT 149					
[illegible]133	0134	3-D X-Coord Diff	-1196.5230	0.0023	8.1419
[illegible]133	0134	3-D Y-Coord Diff	102.9920	0.0029	-72.7513
0133	0134	3-D Z-Coord Diff	-573.4240	0.0029	6.0636
GROUP: 266435240PT 150					
[illegible]126	0164	3-D X-Coord Diff	4781.6710	0.0035	-2.5141
[illegible]126	0164	3-D Y-Coord Diff	-1043.6470	0.0054	-1.6620
0126	0164	3-D Z-Coord Diff	1346.4750	0.0043	5.3118
[illegible]ROUP: 020835710PT 153					

FC MEQ:

0102	0108	3-D X-Coord Diff	-10529.2320	0.0044	-15.6068
0102	0108	3-D Y-Coord Diff	3903.2880	0.0071	-7.8345
0102	0108	3-D Z-Coord Diff	-634.0110	0.0048	49.6725
GROUP: 029235710PT 154					
0102	0192	3-D X-Coord Diff	4245.8770	0.0027	-0.1674
0102	0192	3-D Y-Coord Diff	-2205.4170	0.0046	-9.2035
0102	0192	3-D Z-Coord Diff	-631.5890	0.0029	1.6579
GROUP: 040835710PT 156					
0104	0108	3-D X-Coord Diff	-6102.6880	0.0026	-15.6069
0104	0108	3-D Y-Coord Diff	2054.0820	0.0043	-7.8345
0104	0108	3-D Z-Coord Diff	-670.6040	0.0029	49.6721
GROUP: 049235710PT 157					
0104	0192	3-D X-Coord Diff	8672.4200	0.0034	-0.1663
0104	0192	3-D Y-Coord Diff	-4054.6230	0.0059	-9.2034
0104	0192	3-D Z-Coord Diff	-668.1810	0.0039	1.6565
GROUP: 222600240PT 159					
0522	0526	3-D X-Coord Diff	3352.9590	0.0024	72.7997
0522	0526	3-D Y-Coord Diff	-367.4330	0.0037	86.9663
0522	0526	3-D Z-Coord Diff	1385.1810	0.0029	-71.8645
GROUP: 089335710PT 160					
0108	0193	3-D X-Coord Diff	13466.5940	0.0058	15.6071
0108	0193	3-D Y-Coord Diff	-5088.0190	0.0091	7.8355
0108	0193	3-D Z-Coord Diff	670.9600	0.0064	-49.6749
GROUP: 929335710PT 161					
0192	0193	3-D X-Coord Diff	-1308.5130	0.0029	0.1657
0192	0193	3-D Y-Coord Diff	1020.6880	0.0051	9.2024
0192	0193	3-D Z-Coord Diff	668.5340	0.0032	-1.6563
GROUP: 078035720PT 162					
0107	0180	3-D X-Coord Diff	4173.2850	0.0026	39.5969
0107	0180	3-D Y-Coord Diff	-2447.4530	0.0050	-11.2256
0107	0180	3-D Z-Coord Diff	-995.6940	0.0054	-10.4497
GROUP: 078135720PT 163					
0107	0181	3-D X-Coord Diff	4449.2350	0.0020	39.5977
0107	0181	3-D Y-Coord Diff	-1792.1980	0.0036	-11.2252
0107	0181	3-D Z-Coord Diff	77.1200	0.0040	-10.4494
GROUP: 078435720PT 164					
0107	0184	3-D X-Coord Diff	8902.3040	0.0020	39.5975
0107	0184	3-D Y-Coord Diff	-3678.5140	0.0035	-11.2250
0107	0184	3-D Z-Coord Diff	6.1850	0.0040	-10.4497
GROUP: 079135720PT 165					
0107	0191	3-D X-Coord Diff	13314.2290	0.0024	39.5972
0107	0191	3-D Y-Coord Diff	-5460.6760	0.0041	-11.2253
0107	0191	3-D Z-Coord Diff	58.1650	0.0046	-10.4496
GROUP: 242735730PT 172					
0124	0127	3-D X-Coord Diff	-1632.7150	0.0019	-42.9717
0124	0127	3-D Y-Coord Diff	211.6530	0.0047	-11.5555
0124	0127	3-D Z-Coord Diff	-662.9080	0.0018	-0.1971
GROUP: 242935730PT 173					

24	0129	3-D X-Coord Diff	-4789.3110	0.0022	-66.4039
24	0129	3-D Y-Coord Diff	1064.5710	0.0055	-44.1851
24	0129	3-D Z-Coord Diff	-1329.3190	0.0021	-15.5454
OUP: 243035730PT 174					
24	0130	3-D X-Coord Diff	-7186.9280	0.0023	-42.9710
0124	0130	3-D Y-Coord Diff	1578.2100	0.0056	-11.5557
24	0130	3-D Z-Coord Diff	-1965.0470	0.0021	-0.1835
OUP: 272935730PT 176					
0127	0129	3-D X-Coord Diff	-3156.5970	0.0027	-23.4312
127	0129	3-D Y-Coord Diff	852.9170	0.0068	-32.6285
27	0129	3-D Z-Coord Diff	-666.4100	0.0026	-15.3632
ROUP: 273235730PT 178					
0127	0132	3-D X-Coord Diff	-8147.0750	0.0040	42.9713
27	0132	3-D Y-Coord Diff	1447.0990	0.0097	11.5784
27	0132	3-D Z-Coord Diff	-2784.4390	0.0037	0.1608
GROUP: 293035730PT 179					
129	0130	3-D X-Coord Diff	-2397.6170	0.0024	23.4329
29	0130	3-D Y-Coord Diff	513.6390	0.0060	32.6294
0129	0130	3-D Z-Coord Diff	-635.7280	0.0023	15.3619
GROUP: 293235730PT 180					
129	0132	3-D X-Coord Diff	-4990.4800	0.0044	66.4045
129	0132	3-D Y-Coord Diff	594.1820	0.0108	44.2070
01	0132	3-D Z-Coord Diff	-2118.0280	0.0042	15.5231
: 303235730PT 181					
0	0132	3-D X-Coord Diff	-2592.8620	0.0027	42.9706
0130	0132	3-D Y-Coord Diff	80.5430	0.0067	11.5776
130	0132	3-D Z-Coord Diff	-1482.3000	0.0026	0.1611
ROUP: 525635740PT 182					
0152	0156	3-D X-Coord Diff	3139.6620	0.0028	-35.2439
0152	0156	3-D Y-Coord Diff	-841.6140	0.0044	-38.4276
152	0156	3-D Z-Coord Diff	661.7450	0.0034	-22.6569
ROUP: 526035740PT 183					
0152	0160	3-D X-Coord Diff	5933.6540	0.0043	0.6314
152	0160	3-D Y-Coord Diff	-2493.6700	0.0067	-0.4162
152	0160	3-D Z-Coord Diff	12.9110	0.0052	-0.2527
GROUP: 230236510PT 184					
0523	0902	3-D X-Coord Diff	-9790.3850	0.0041	-14.7500
523	0902	3-D Y-Coord Diff	1469.9150	0.0061	16.0708
523	0902	3-D Z-Coord Diff	-3492.8700	0.0072	0.3935
GROUP: 170236510PT 185					
517	0902	3-D X-Coord Diff	-6828.7740	0.0037	-14.7509
517	0902	3-D Y-Coord Diff	305.3250	0.0052	16.0716
0517	0902	3-D Z-Coord Diff	-3457.2190	0.0043	0.3900
ROUP: 566035740PT 186					
156	0160	3-D X-Coord Diff	2793.9890	0.0028	35.8784
0156	0160	3-D Y-Coord Diff	-1652.0610	0.0044	38.0164
0156	0160	3-D Z-Coord Diff	-648.8320	0.0034	22.4021
ROUP: 737835220PT 188					

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73	0178	3-D X-Coord Diff	4123.7040	0.0042	-9.8641
0173	0178	3-D Y-Coord Diff	-772.2880	0.0081	-1.1292
0173	0178	3-D Z-Coord Diff	1331.0580	0.0082	31.1867
GROUP: 077635220PT 189					
0107	0176	3-D X-Coord Diff	-1339.2860	0.0032	-9.9068
0107	0176	3-D Y-Coord Diff	-1378.8120	0.0061	-1.1197
0107	0176	3-D Z-Coord Diff	-2679.3240	0.0062	31.2413
GROUP: 788535740PT 190					
0178	0185	3-D X-Coord Diff	8986.8820	0.0060	143.7534
0178	0185	3-D Y-Coord Diff	-3226.9050	0.0066	218.7725
0178	0185	3-D Z-Coord Diff	665.4390	0.0069	-64.2898
GROUP: 921835810PT 191					
0192	0318	3-D X-Coord Diff	7586.2310	0.0044	-9.7702
0192	0318	3-D Y-Coord Diff	-2528.1470	0.0089	-22.0984
0192	0318	3-D Z-Coord Diff	819.5250	0.0050	41.2094
GROUP: 922035810PT 192					
0192	0320	3-D X-Coord Diff	4425.5690	0.0037	-9.7703
0192	0320	3-D Y-Coord Diff	-1683.0900	0.0075	-22.0979
0192	0320	3-D Z-Coord Diff	183.7740	0.0043	41.2090
GROUP: 922235810PT 193					
0192	0322	3-D X-Coord Diff	2892.6920	0.0028	-9.7697
0192	0322	3-D Y-Coord Diff	-1602.6390	0.0058	-22.0982
0192	0322	3-D Z-Coord Diff	-589.6660	0.0032	41.2088
GROUP: 171835810PT 194					
0317	0318	3-D X-Coord Diff	-1638.9480	0.0018	0.022[illegible]
0317	0318	3-D Z-Coord Diff	-646.1970	0.0020	0.0356
GROUP: 172035810PT 195					
0317	0320	3-D Z-Coord Diff	-1281.9460	0.0033	0.0332
GROUP: 172235810PT 196					
0317	0322	3-D Z-Coord Diff	-2055.3880	0.0027	0.0349
GROUP: 179135820PT 201					
0317	0191	3-D X-Coord Diff	-9536.9600	0.0037	43.8491
0317	0191	3-D Y-Coord Diff	1939.7570	0.0051	13.3350
0317	0191	3-D Z-Coord Diff	-2780.5830	0.0058	-34.8407
GROUP: 909135820PT 204					
0190	0191	3-D X-Coord Diff	331.4600	0.0021	43.8485
0190	0191	3-D Y-Coord Diff	846.4050	0.0030	13.3354
0190	0191	3-D Z-Coord Diff	1379.5150	0.0034	-34.8379
GROUP: 912135820PT 207					
0191	0321	3-D X-Coord Diff	4480.5190	0.0027	-43.8459
0191	0321	3-D Y-Coord Diff	-1869.1040	0.0038	-13.3321
0191	0321	3-D Z-Coord Diff	-39.2290	0.0049	34.8298
GROUP: 912835820PT 208					
0191	0328	3-D X-Coord Diff	7447.2840	0.0032	-43.8481
0191	0328	3-D Y-Coord Diff	-3085.6870	0.0044	-13.3351
0191	0328	3-D Z-Coord Diff	-34.1260	0.0055	34.8376
GROUP: 282635830PT 210					
0328	0326	3-D X-Coord Diff	-1796.2870	0.0021	9.8445

F[illegible]Q:

T	TO	OBS TYPE	OBSERVATION	APPROX.SIG.	MISCLOSURE
0328	0326	3-D Y-Coord Diff	-220.4820	0.0048	22.7962
328	0326	3-D Z-Coord Diff	-1345.7520	0.0022	-41.2636
ROUP: 262735830PT 214					
0326	0327	3-D X-Coord Diff	1623.8980	0.0014	-9.8457
326	0327	3-D Y-Coord Diff	-181.8390	0.0030	-22.7979
326	0327	3-D Z-Coord Diff	680.0460	0.0014	41.2656
GROUP: 263035830PT 215					
0326	0330	3-D X-Coord Diff	4778.4730	0.0018	-9.8445
326	0330	3-D Y-Coord Diff	-987.3860	0.0041	-22.7965
0326	0330	3-D Z-Coord Diff	1364.2130	0.0018	41.2655
GROUP: 263135830PT 216					
326	0331	3-D X-Coord Diff	6433.2280	0.0018	-9.8435
326	0331	3-D Y-Coord Diff	-1180.0590	0.0040	-22.7951
0326	0331	3-D Z-Coord Diff	2046.1500	0.0017	41.2641
ROUP: 131235840PT 223					
0013	0312	3-D X-Coord Diff	-246.2800	0.0042	-1.5910
0013	0312	3-D Y-Coord Diff	-2256.5330	0.0076	9.9493
0013	0312	3-D Z-Coord Diff	-3312.1800	0.0046	1.6321
ROUP: 131335840PT 224					
0013	0313	3-D X-Coord Diff	-1745.7540	0.0043	-1.5965
[illegible]	0313	3-D Y-Coord Diff	-1646.9400	0.0074	9.9451
[illegible]	0313	3-D Z-Coord Diff	-3316.2570	0.0046	1.6401
UP: 130836010PT 228					
0013	0308	3-D X-Coord Diff	6075.6630	0.0204	59.1199
0013	0308	3-D Y-Coord Diff	-4291.0730	0.0260	114.2684
0013	0308	3-D Z-Coord Diff	-2547.6420	0.0157	-41.0298
GROUP: 130336010PT 229					
0013	0803	3-D X-Coord Diff	4447.4330	0.0235	59.1194
0013	0803	3-D Y-Coord Diff	-3595.7510	0.0300	114.2685
0013	0803	3-D Z-Coord Diff	-2503.6570	0.0183	-41.0295
GROUP: 341236040PT 243					
0334	0312	3-D X-Coord Diff	452.4280	0.0024	-60.7217
0334	0312	3-D Y-Coord Diff	1226.0700	0.0051	-104.3275
0334	0312	3-D Z-Coord Diff	1981.0190	0.0026	42.6958
GROUP: 343136040PT 244					
0334	0331	3-D X-Coord Diff	-4615.9470	0.0023	-60.7034
0334	0331	3-D Y-Coord Diff	1402.1840	0.0052	-104.3324
0334	0331	3-D Z-Coord Diff	-683.5940	0.0026	42.7105
GROUP: 123236040PT 247					
0312	0332	3-D X-Coord Diff	-4936.0810	0.0042	60.7148
0312	0332	3-D Y-Coord Diff	584.3790	0.0085	104.3168
0312	0332	3-D Z-Coord Diff	-2014.4060	0.0057	-42.6883
GROUP: 313236040PT 248					
0331	0332	3-D X-Coord Diff	132.2890	0.0019	60.7015
0331	0332	3-D Y-Coord Diff	408.2560	0.0039	104.3307
0331	0332	3-D Z-Coord Diff	650.2120	0.0026	-42.7080

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AT	TO	OBS TYPE	OBSERVATION	APPROX.SIG.	MISCLOSURE
GROUP: 872636030PT 251					
0187	0326	3-D X-Coord Diff	9280.0460	0.0035	26.6513
0187	0326	3-D Y-Coord Diff	-2841.0250	0.0061	-3.5104
0187	0326	3-D Z-Coord Diff	1332.9270	0.0040	-27.6320
GROUP: 892636050PT 253					
0189	0326	3-D X-Coord Diff	5209.4250	0.0030	26.6498
0189	0326	3-D Y-Coord Diff	-1057.9550	0.0059	-3.5108
0189	0326	3-D Z-Coord Diff	1521.8060	0.0030	-27.6286
GROUP: 252636050PT 254					
0325	0326	3-D X-Coord Diff	1686.6610	0.0026	26.6463
0325	0326	3-D Y-Coord Diff	-214.7970	0.0052	-3.5152
0325	0326	3-D Z-Coord Diff	672.3430	0.0026	-27.6232
GROUP: 878536060PT 255					
0187	0185	3-D X-Coord Diff	-1293.0250	0.0015	154.9963
0187	0185	3-D Y-Coord Diff	1007.3220	0.0023	216.0144
0187	0185	3-D Z-Coord Diff	640.7000	0.0016	-43.8985
GROUP: 879036060PT 257					
0187	0190	3-D X-Coord Diff	3297.6020	0.0028	16.7939
0187	0190	3-D Y-Coord Diff	-381.2430	0.0044	-26.3249
0187	0190	3-D Z-Coord Diff	1333.3020	0.0029	13.6199
GROUP: 858636060PT 258					
0185	0186	3-D X-Coord Diff	1474.4840	0.0019	-154.9970
0[illegible]	0186	3-D Y-Coord Diff	-607.1350	0.0029	-216.0156
0185	0186	3-D Z-Coord Diff	-3.6720	0.0020	43.8974
GROUP: 859036060PT 259					
0185	0190	3-D X-Coord Diff	4590.6240	0.0027	-138.1994
0185	0190	3-D Y-Coord Diff	-1388.5700	0.0043	-242.3343
0185	0190	3-D Z-Coord Diff	692.6030	0.0029	57.5174
GROUP: 869036060PT 260					
0186	0190	3-D X-Coord Diff	3116.1400	0.0026	16.7976
0186	0190	3-D Y-Coord Diff	-781.4340	0.0040	-26.3197
0186	0190	3-D Z-Coord Diff	696.2750	0.0028	13.6200
GROUP: 390236110PT 262					
0339	0702	3-D X-Coord Diff	2797.3370	0.0027	-21.1083
0339	0702	3-D Y-Coord Diff	-1560.3340	0.0040	-86.5476
0339	0702	3-D Z-Coord Diff	-596.3500	0.0025	27.5054
GROUP: 400236110PT 263					
0340	0702	3-D X-Coord Diff	2565.3140	0.0025	-21.1076
0340	0702	3-D Y-Coord Diff	-1971.6300	0.0038	-86.5487
0340	0702	3-D Z-Coord Diff	-1303.5210	0.0023	27.5068
GROUP: 393636120PT 264					
0339	0336	3-D X-Coord Diff	-4617.8340	0.0022	40.3675
0339	0336	3-D Y-Coord Diff	1409.1990	0.0031	15.2843
0339	0336	3-D Z-Coord Diff	-663.7550	0.0023	-4.3554
GROUP: 360436120PT 267					
0336	0804	3-D X-Coord Diff	3303.3290	0.0017	-40.3671

F[illegible]R:

	TO	OBS TYPE	OBSERVATION	APPROX.SIG.	MISCLOSURE
0336	0804	3-D Y-Coord Diff	-353.9390	0.0025	-15.2831
[illegible]336	0804	3-D Z-Coord Diff	1389.0050	0.0018	4.3547
[illegible]ROUP: 36053612OPT 268					
0336	0805	3-D X-Coord Diff	3139.6480	0.0016	-40.3686
[illegible]336	0805	3-D Y-Coord Diff	-770.3330	0.0023	-15.2862
[illegible]336	0805	3-D Z-Coord Diff	713.9350	0.0017	4.3562
GROUP: 05213615OPT 270					
[illegible]805	0021	3-D X-Coord Diff	2223.4740	0.0024	60.4556
[illegible]805	0021	3-D Y-Coord Diff	-1475.7740	0.0049	-49.8411
[illegible]805	0021	3-D Z-Coord Diff	-682.9140	0.0024	19.2684
GROUP: 21073615OPT 273					
[illegible]021	0707	3-D X-Coord Diff	-3396.0940	0.0034	-60.4578
[illegible]021	0707	3-D Y-Coord Diff	-702.4260	0.0071	49.8385
0021	0707	3-D Z-Coord Diff	-2993.6310	0.0034	-19.2660
[illegible]ROUP: 21083615OPT 274					
[illegible]021	0708	3-D X-Coord Diff	-4565.0720	0.0037	-60.4568
0021	0708	3-D Y-Coord Diff	-1.0090	0.0078	49.8415
0021	0708	3-D Z-Coord Diff	-2695.3040	0.0039	-19.2665
[illegible]ROUP: 07053613OPT 278					
[illegible]707	0705	3-D X-Coord Diff	1796.0890	0.0023	60.4621
07[illegible]	0705	3-D Y-Coord Diff	-1477.4080	0.0030	-49.8065
[illegible]	0705	3-D Z-Coord Diff	-1008.5960	0.0033	19.1602
[illegible]JP: 03053613OPT 280					
0703	0705	3-D X-Coord Diff	-2987.3510	0.0018	60.4624
[illegible]703	0705	3-D Y-Coord Diff	210.5830	0.0024	-49.8057
[illegible]703	0705	3-D Z-Coord Diff	-1327.0540	0.0031	19.1586
GROUP: 04053613OPT 281					
0704	0705	3-D X-Coord Diff	-2480.1130	0.0027	60.4614
[illegible]704	0705	3-D Y-Coord Diff	968.0520	0.0036	-49.8068
[illegible]704	0705	3-D Z-Coord Diff	18.8500	0.0039	19.1606
GROUP: 08343614OPT 282					
[illegible]708	0334	3-D X-Coord Diff	-5299.7880	0.0028	40.3561
[illegible]708	0334	3-D Y-Coord Diff	4066.5030	0.0062	15.2642
0708	0334	3-D Z-Coord Diff	2638.9540	0.0031	-4.3612
GROUP: 08113614OPT 283					
[illegible]708	0711	3-D X-Coord Diff	-5651.2980	0.0031	-10.7511
[illegible]708	0711	3-D Y-Coord Diff	888.7670	0.0066	-66.1523
0708	0711	3-D Z-Coord Diff	-1898.1630	0.0037	-2.8076
[illegible]ROUP: 34113614OPT 285					
[illegible]334	0711	3-D X-Coord Diff	-351.5170	0.0019	-51.1002
0334	0711	3-D Y-Coord Diff	-3177.7480	0.0040	-81.4045
[illegible]334	0711	3-D Z-Coord Diff	-4537.1070	0.0020	1.5436
[illegible]ROUP: 34123614OPT 286					
0334	0712	3-D X-Coord Diff	-786.4490	0.0017	-40.3535
[illegible]334	0712	3-D Y-Coord Diff	-1614.4160	0.0038	-15.2600
[illegible]334	0712	3-D Z-Coord Diff	-2669.0030	0.0018	4.3578

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

FOTMEQ:

AT	TO	OBS TYPE	OBSERVATION	APPROX.SIG.	MISCLOSURE
GROUP: 111236140PT 287					
0711	0712	3-D X-Coord Diff	-434.9330	0.0019	10.7477
0711	0712	3-D Y-Coord Diff	1563.3300	0.0042	66.1465
0711	0712	3-D Z-Coord Diff	1868.1050	0.0022	2.8132
GROUP: 051905220PT 289					
0519	0522	3-D X-Coord Diff	3429.1930	0.0050	-59.8745
0519	0522	3-D Y-Coord Diff	82.1870	0.0063	-58.3087
0519	0522	3-D Z-Coord Diff	2042.5540	0.0052	50.6905
GROUP: 052005220PT 290					
0520	0522	3-D X-Coord Diff	3090.9430	0.0050	-59.8743
0520	0522	3-D Y-Coord Diff	-750.1610	0.0063	-58.3093
0520	0522	3-D Z-Coord Diff	697.8480	0.0053	50.6903
GROUP: 052205230PT 291					
0522	0523	3-D X-Coord Diff	317.6990	0.0035	74.6406
0522	0523	3-D Y-Coord Diff	856.4080	0.0045	42.2430
0522	0523	3-D Z-Coord Diff	1383.1780	0.0038	-51.0873
GROUP: 030603080PT 301					
0306	0308	3-D X-Coord Diff	-2997.5800	0.0026	57.8130
0306	0308	3-D Y-Coord Diff	721.2790	0.0073	140.7255
0306	0308	3-D Z-Coord Diff	-707.5550	0.0024	1.1893
GROUP: 030603400PT 302					
0306	0340	3-D X-Coord Diff	-420.3260	0.0024	17.439
0306	0340	3-D Y-Coord Diff	-1287.5360	0.0064	125.467
0306	0340	3-D Z-Coord Diff	-2056.8720	0.0021	5.5276
GROUP: 030703080PT 303					
0307	0308	3-D X-Coord Diff	-983.9270	0.0025	57.8105
0307	0308	3-D Y-Coord Diff	-74.5300	0.0068	140.7212
0307	0308	3-D Z-Coord Diff	-666.6070	0.0023	1.1941
GROUP: 030703400PT 304					
0307	0340	3-D X-Coord Diff	1593.3240	0.0022	17.4398
0307	0340	3-D Y-Coord Diff	-2083.3510	0.0055	125.4691
0307	0340	3-D Z-Coord Diff	-2015.9190	0.0019	5.5274
GROUP: 030803400PT 305					
0308	0340	3-D X-Coord Diff	2577.2520	0.0027	-40.3719
0308	0340	3-D Y-Coord Diff	-2008.8220	0.0075	-15.2511
0308	0340	3-D Z-Coord Diff	-1349.3130	0.0025	4.3343
GROUP: 030236510PT 308					
0303	0902	3-D X-Coord Diff	-1780.2020	0.0022	-14.7489
0303	0902	3-D Y-Coord Diff	-294.7160	0.0031	16.0701
0303	0902	3-D Z-Coord Diff	-1430.7270	0.0027	0.3877
GROUP: 030136520PT 310					
0303	0301	3-D X-Coord Diff	1860.3760	0.0017	66.7973
0303	0301	3-D Y-Coord Diff	194.6900	0.0029	52.7861
0303	0301	3-D Z-Coord Diff	1330.1760	0.0019	-7.8584
GROUP: 010236520PT 313					
0301	0302	3-D X-Coord Diff	-1662.4740	0.0016	-66.7985

F[illegible]Q:

T	TO	OBS TYPE	OBSERVATION	APPROX.SIG.	MISCLOSURE
0301	0302	3-D Y-Coord Diff	187.7930	0.0030	-52.7864
0301	0302	3-D Z-Coord Diff	-677.0920	0.0019	7.8572
GROUP: 011636520PT 314					
0301	0516	3-D X-Coord Diff	3369.5210	0.0016	-66.7979
0301	0516	3-D Y-Coord Diff	-393.4260	0.0027	-52.7857
0301	0516	3-D Z-Coord Diff	1368.1600	0.0018	7.8582
GROUP: 020636530PT 317					
0302	0306	3-D X-Coord Diff	-6132.1300	0.0021	-11.0923
0302	0306	3-D Y-Coord Diff	1990.6490	0.0033	-22.8426
0302	0306	3-D Z-Coord Diff	-693.0930	0.0044	-32.6402
GROUP: 020336530PT 318					
0302	0903	3-D X-Coord Diff	-4218.3180	0.0020	-14.7478
0302	0903	3-D Y-Coord Diff	246.9790	0.0030	16.0622
0302	0903	3-D Z-Coord Diff	-2057.9130	0.0039	0.3854
GROUP: 040636530PT 319					
0304	0306	3-D X-Coord Diff	-4485.7060	0.0020	-11.0931
0304	0306	3-D Y-Coord Diff	1805.9790	0.0031	-22.8423
0304	0306	3-D Z-Coord Diff	-21.3990	0.0041	-32.6405
GROUP: 040336530PT 320					
0304	0903	3-D X-Coord Diff	-2571.8950	0.0018	-14.7472
0[illegible]	0903	3-D Y-Coord Diff	62.3100	0.0028	16.0615
[illegible]	0903	3-D Z-Coord Diff	-1386.2190	0.0037	0.3851
[illegible] UP: 060336530PT 321					
0306	0903	3-D X-Coord Diff	1913.8110	0.0017	-3.6540
0306	0903	3-D Y-Coord Diff	-1743.6700	0.0026	38.9048
0306	0903	3-D Z-Coord Diff	-1364.8200	0.0034	33.0256
GROUP: 082300210PT 323					
0508	0523	3-D X-Coord Diff	-6690.2600	0.0021	27.3497
0508	0523	3-D Y-Coord Diff	778.2950	0.0027	-10.3434
0508	0523	3-D Z-Coord Diff	-2688.2490	0.0020	-12.8456
GROUP: 142300210PT 325					
0514	0523	3-D X-Coord Diff	-537.4470	0.0024	27.3500
0514	0523	3-D Y-Coord Diff	-1195.3170	0.0031	-10.3439
0514	0523	3-D Z-Coord Diff	-1999.1500	0.0024	-12.8489
GROUP: 232700210PT 327					
0523	0527	3-D X-Coord Diff	3364.2750	0.0028	-27.3501
0523	0527	3-D Y-Coord Diff	-399.1070	0.0037	10.3429
0523	0527	3-D Z-Coord Diff	1344.2800	0.0028	12.8491
GROUP: 312900230PT 334					
0531	0529	3-D X-Coord Diff	-770.9090	0.0018	25.4741
0531	0529	3-D Y-Coord Diff	-198.8610	0.0047	34.3538
0531	0529	3-D Z-Coord Diff	-710.2240	0.0016	-33.6267
GROUP: 293000230PT 336					
0529	0530	3-D X-Coord Diff	587.3830	0.0020	-25.4735
0529	0530	3-D Y-Coord Diff	-693.8660	0.0054	-34.3530
0529	0530	3-D Z-Coord Diff	-610.2930	0.0019	33.6254

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

F MEQ:

AT	TO	OBS TYPE	OBSERVATION	APPROX.SIG.	MISCLOSURE
GROUP: 252600240PT 338					
0525	0526	3-D X-Coord Diff	176.8370	0.0021	72.8011
0525	0526	3-D Y-Coord Diff	420.6630	0.0034	86.9674
0525	0526	3-D Z-Coord Diff	669.7760	0.0026	-71.8649
GROUP: 131400310PT 339					
0513	0514	3-D X-Coord Diff	-164.7860	0.0025	-94.0513
0513	0514	3-D Y-Coord Diff	-409.4850	0.0031	-42.3670
0513	0514	3-D Z-Coord Diff	-672.3220	0.0029	20.6302
GROUP: 131500310PT 340					
0513	0515	3-D X-Coord Diff	-1659.1300	0.0026	-77.8707
0513	0515	3-D Y-Coord Diff	186.5860	0.0033	-21.7892
0513	0515	3-D Z-Coord Diff	-681.4690	0.0030	2.0078
GROUP: 131600310PT 341					
0513	0516	3-D X-Coord Diff	-3482.5120	0.0030	-66.7100
0513	0516	3-D Y-Coord Diff	-38.9260	0.0038	-52.6904
0513	0516	3-D Z-Coord Diff	-2035.2690	0.0035	7.7769
GROUP: 141500310PT 342					
0514	0515	3-D X-Coord Diff	-1494.3440	0.0026	16.1805
0514	0515	3-D Y-Coord Diff	596.0720	0.0033	20.5768
0514	0515	3-D Z-Coord Diff	-9.1460	0.0031	-18.6234
GROUP: 141600310PT 343					
0514	0516	3-D X-Coord Diff	-3317.7260	0.0030	27.341[illegible]
0514	0516	3-D Y-Coord Diff	370.5600	0.0037	-10.3243
0514	0516	3-D Z-Coord Diff	-1362.9470	0.0035	-12.8533
GROUP: 151600310PT 344					
0515	0516	3-D X-Coord Diff	-1823.3810	0.0028	11.1597
0515	0516	3-D Y-Coord Diff	-225.5120	0.0036	-30.9012
0515	0516	3-D Z-Coord Diff	-1353.8020	0.0034	5.7711
GROUP: 130400320PT 345					
0513	0504	3-D X-Coord Diff	9465.5370	0.0055	-94.0627
0513	0504	3-D Y-Coord Diff	-2351.3010	0.0095	-42.3475
0513	0504	3-D Z-Coord Diff	2038.7520	0.0062	20.6194
GROUP: 130700320PT 346					
0513	0507	3-D X-Coord Diff	6314.3650	0.0040	-77.8705
0513	0507	3-D Y-Coord Diff	-1561.6500	0.0065	-21.7893
0513	0507	3-D Z-Coord Diff	1360.7740	0.0044	2.0078
GROUP: 131100320PT 347					
0513	0511	3-D X-Coord Diff	2035.1650	0.0025	-77.8711
0513	0511	3-D Y-Coord Diff	-524.2930	0.0041	-21.7899
0513	0511	3-D Z-Coord Diff	411.0440	0.0027	2.0076
GROUP: 040700320PT 348					
0504	0507	3-D X-Coord Diff	-3151.1740	0.0034	16.1942
0504	0507	3-D Y-Coord Diff	789.6470	0.0056	20.5622
0504	0507	3-D Z-Coord Diff	-677.9740	0.0037	-18.6156
GROUP: 041100320PT 349					
0504	0511	3-D X-Coord Diff	-7430.3730	0.0046	16.1926

F[illegible]:

[illegible]	TO	OBS TYPE	OBSERVATION	APPROX.SIG.	MISCLOSURE
[illegible]504	0511	3-D Y-Coord Diff	1827.0080	0.0080	20.5576
[illegible]04	0511	3-D Z-Coord Diff	-1627.7070	0.0052	-18.6128
[illegible]OUP: 040100330PT 351					
0504	0501	3-D X-Coord Diff	3153.5380	0.0022	16.1920
[illegible]04	0501	3-D Y-Coord Diff	-774.9190	0.0040	20.5581
[illegible]04	0501	3-D Z-Coord Diff	670.1390	0.0045	-18.6116
GROUP: 040200330PT 352					
0504	0502	3-D X-Coord Diff	1570.5150	0.0016	16.1914
[illegible]04	0502	3-D Y-Coord Diff	-127.4720	0.0029	20.5584
[illegible]04	0502	3-D Z-Coord Diff	750.0090	0.0032	-18.6120
GROUP: 043300330PT 353					
[illegible]04	0533	3-D X-Coord Diff	2779.2640	0.0024	16.1915
[illegible]04	0533	3-D Y-Coord Diff	-1603.9850	0.0049	20.5577
0504	0533	3-D Z-Coord Diff	-666.1560	0.0050	-18.6115
[illegible]OUP: 331900340PT 357					
[illegible]33	0019	3-D X-Coord Diff	-6655.2960	0.0036	78.0050
0533	0019	3-D Y-Coord Diff	349.0120	0.0095	21.9169
0533	0019	3-D Z-Coord Diff	-3256.3010	0.0031	-2.0645
[illegible]OUP: 333000340PT 358					
[illegible]33	0530	3-D X-Coord Diff	-3631.5460	0.0038	-16.1864
05[illegible]	0530	3-D Y-Coord Diff	-450.0520	0.0099	-20.5449
[illegible]	0530	3-D Z-Coord Diff	-2671.7280	0.0033	18.6082
[illegible]P: 193000340PT 360					
0019	0530	3-D X-Coord Diff	3023.7450	0.0034	-94.1864
[illegible]019	0530	3-D Y-Coord Diff	-799.0780	0.0093	-42.4478
[illegible]19	0530	3-D Z-Coord Diff	584.5770	0.0032	20.6688
GROUP: 193200340PT 361					
0019	0532	3-D X-Coord Diff	6503.9320	0.0034	-78.0032
[illegible]19	0532	3-D Y-Coord Diff	-729.7590	0.0092	-21.9143
[illegible]19	0532	3-D Z-Coord Diff	2706.9090	0.0029	2.0646
GROUP: 303200340PT 362					
[illegible]30	0532	3-D X-Coord Diff	3480.1810	0.0035	16.1892
[illegible]30	0532	3-D Y-Coord Diff	69.3070	0.0092	20.5454
0530	0532	3-D Z-Coord Diff	2122.3370	0.0031	-18.6092
GROUP: 919200920PT 364					
[illegible]91	0192	3-D X-Coord Diff	311.7840	0.0027	-34.0590
[illegible]191	0192	3-D Y-Coord Diff	799.5570	0.0042	8.7549
0191	0192	3-D Z-Coord Diff	1314.8620	0.0030	-6.3341
[illegible]OUP: 192600930PT 365					
[illegible]019	0526	3-D X-Coord Diff	-3256.4390	0.0038	-68.7150
0019	0526	3-D Y-Coord Diff	777.6290	0.0088	-8.1127
[illegible]019	0526	3-D Z-Coord Diff	-785.7460	0.0060	-12.9573
[illegible]OUP: 192900930PT 366					
0019	0529	3-D X-Coord Diff	2436.3610	0.0028	-68.7119
0019	0529	3-D Y-Coord Diff	-105.1960	0.0059	-8.1107
[illegible]019	0529	3-D Z-Coord Diff	1194.8710	0.0039	-12.9576

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

FORMEQ:

AT	TO	OBS TYPE	OBSERVATION	APPROX.SIG.	MISCLOSURE
GROUP: 12030141OPT 367					
0702	0703	3-D X-Coord Diff	-664.7160	0.0026	21.1177
0702	0703	3-D Y-Coord Diff	-1667.0240	0.0064	86.5754
0702	0703	3-D Z-Coord Diff	-2711.5270	0.0026	-27.5307

FORMEQ successfully completed.

Solution (Iteration Count = 1):

CODE	IDENT.	TYPE			INITIAL	DX			UPDATED
4	0001	LATITUDE	33	22	38.62280	-0.80188	33	22	37.82092
4	0001	LONGITUDE	-112	18	20.53992	-1.46005	-112	18	21.99997
4	0001	HEIGHT			297.90000	55.18069			353.08069
4	0015	LATITUDE	33	32	51.19303	-0.80553	33	32	50.38750
4	0015	LONGITUDE	-112	1	14.09723	-1.47162	-112	1	15.56885
4	0015	HEIGHT			739.73540	55.06044			794.79584
4	0007	LATITUDE	33	24	59.48767	-0.44289	33	24	59.04478
4	0007	LONGITUDE	-112	52	30.45401	-1.14252	-112	52	31.59653
4	0007	HEIGHT			304.67850	61.20929			365.88779
4	0009	LATITUDE	33	31	13.51276	-0.44644	33	31	13.06632
4	0009	LONGITUDE	-112	21	41.97165	-1.15856	-112	21	43.13021
4	0009	HEIGHT			279.58090	61.10239			340.68329
4	0019	LATITUDE	33	28	29.86622	-0.87174	33	28	28.99448
4	0019	LONGITUDE	-111	45	4.48406	-2.14567	-111	45	6.62973
	0019	HEIGHT			338.72180	72.19594			410.91774
	0021	LATITUDE	33	24	25.27749	-0.87146	33	24	24.40603
4	0021	LONGITUDE	-111	58	0.17626	-2.13210	-111	58	2.30836
4	0021	HEIGHT			341.79220	72.40158			414.19378
4	0005	LATITUDE	33	18	23.35108	1.18778	33	18	24.53886
4	0005	LONGITUDE	-112	44	7.64370	1.91848	-112	44	5.72522
4	0005	HEIGHT			415.47010	-21.85704			393.61306
4	0301	LATITUDE	33	27	31.75567	-0.87201	33	27	30.88366
4	0301	LONGITUDE	-111	53	28.77954	-2.13663	-111	53	30.91617
4	0301	HEIGHT			291.26640	72.31322			363.57962
4	0513	LATITUDE	33	29	43.67163	-0.87235	33	29	42.79928
4	0513	LONGITUDE	-111	49	17.36671	-2.13930	-111	49	19.50601
4	0513	HEIGHT			315.48390	72.09803			387.58193
4	0705	LATITUDE	33	21	50.01595	-0.86751	33	21	49.14844
4	0705	LONGITUDE	-111	58	26.03155	-2.13027	-111	58	28.16182
4	0705	HEIGHT			327.18580	72.51647			399.70227
4	0326	LATITUDE	33	22	38.00357	0.47695	33	22	38.48052
4	0326	LONGITUDE	-112	12	9.02706	0.18248	-112	12	8.84458
4	0326	HEIGHT			253.22280	49.71614			302.93894

UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

SOLVE:

CODE	IDENT.	TYPE	INITIAL			DX	UPDATED		
4	0126	LATITUDE	33	20	2.91185	-0.31736	33	20	2.59449
4	0126	LONGITUDE	-112	39	35.33372	0.14857	-112	39	35.18515
4	0126	HEIGHT			214.92610	30.15493			245.08103
4	0151	LATITUDE	33	18	19.10386	-0.31750	33	18	18.78636
4	0151	LONGITUDE	-112	42	42.39994	0.14851	-112	42	42.25143
4	0151	HEIGHT			211.75930	30.14211			241.90141
4	0152	LATITUDE	33	18	19.51742	-0.31768	33	18	19.19974
4	0152	LONGITUDE	-112	41	40.35824	0.14844	-112	41	40.20980
4	0152	HEIGHT			219.94720	30.15524			250.10244
4	0144	LATITUDE	33	13	35.92203	0.55712	33	13	36.47915
4	0144	LONGITUDE	-112	46	24.85551	-1.16294	-112	46	26.01845
4	0144	HEIGHT			268.49600	-31.63114			236.86486
4	0162	LATITUDE	33	19	37.76668	-0.31686	33	19	37.44982
4	0162	LONGITUDE	-112	35	55.44148	0.14280	-112	35	55.29868
4	0162	HEIGHT			224.24510	30.13421			254.37931
4	0163	LATITUDE	33	20	0.98385	-0.31690	33	20	0.66695
4	0163	LONGITUDE	-112	35	27.75027	0.14271	-112	35	27.60[illegible]
4	0163	HEIGHT			225.14710	30.12954			255.27664
4	0145	LATITUDE	33	13	37.97347	0.55721	33	13	38.53068
4	0145	LONGITUDE	-112	45	54.92698	-1.16272	-112	45	56.08970
4	0145	HEIGHT			260.12760	-31.63579			228.49181
4	0107	LATITUDE	33	23	30.51327	0.02884	33	23	30.54211
4	0107	LONGITUDE	-112	25	36.83923	0.41357	-112	25	36.42566
4	0107	HEIGHT			230.90000	40.02442			270.92442
4	0113	LATITUDE	33	22	13.06471	0.02947	33	22	13.09418
4	0113	LONGITUDE	-112	28	41.09631	0.41473	-112	28	40.68158
4	0113	HEIGHT			228.23710	40.01726			268.25436
4	0146	LATITUDE	33	14	24.89979	0.55760	33	14	25.45739
4	0146	LONGITUDE	-112	45	38.59087	-1.16294	-112	45	39.75381
4	0146	HEIGHT			265.29740	-31.64492			233.65248
4	0112	LATITUDE	33	23	31.40656	0.02864	33	23	31.43520
4	0112	LONGITUDE	-112	28	44.04567	0.41448	-112	28	43.63119
4	0112	HEIGHT			228.38600	40.02282			268.40882
4	0111	LATITUDE	33	23	56.31996	0.02869	33	23	56.34865
4	0111	LONGITUDE	-112	28	44.06028	0.41479	-112	28	43.64549

S ion:

DE	IDENT.	TYPE	INITIAL			DX			UPDATED
4	0111	HEIGHT			233.35640	40.00038			273.35678
4	0115	LATITUDE	33	23	31.53845	0.02898	33	23	31.56743
4	0115	LONGITUDE	-112	30	15.58345	0.41533	-112	30	15.16812
4	0115	HEIGHT			230.47650	39.99515			270.47165
4	0117	LATITUDE	33	23	5.62131	0.02930	33	23	5.65061
4	0117	LONGITUDE	-112	32	19.71604	0.41603	-112	32	19.30001
4	0117	HEIGHT			227.60880	39.98779			267.59659
4	0169	LATITUDE	33	20	46.40763	0.02958	33	20	46.43721
4	0169	LONGITUDE	-112	31	17.59792	0.41637	-112	31	17.18155
4	0169	HEIGHT			221.38920	40.00633			261.39553
4	0173	LATITUDE	33	20	54.47183	0.02913	33	20	54.50096
4	0173	LONGITUDE	-112	28	11.95155	0.41538	-112	28	11.53617
4	0173	HEIGHT			239.11340	40.01534			279.12874
4	0108	LATITUDE	33	24	24.48350	-0.73173	33	24	23.75177
4	0108	LONGITUDE	-112	26	39.65459	0.75177	-112	26	38.90282
4	0108	HEIGHT			255.64770	18.81276			274.46046
4	0147	LATITUDE	33	15	44.41304	0.55744	33	15	44.97048
4	0147	LONGITUDE	-112	45	45.20680	-1.16259	-112	45	46.36939
4	0147	HEIGHT			263.69800	-31.60246			232.09554
4	0702	LATITUDE	33	24	27.05347	0.05884	33	24	27.11231
4	0702	LONGITUDE	-111	56	38.45326	0.26355	-111	56	38.18971
4	0702	HEIGHT			339.87100	13.95822			353.82922
4	0902	LATITUDE	33	25	43.63284	0.05873	33	25	43.69157
4	0902	LONGITUDE	-111	55	34.87421	0.26337	-111	55	34.61084
4	0902	HEIGHT			340.41480	13.96623			354.38103
4	0178	LATITUDE	33	21	46.68003	-0.73099	33	21	45.94904
4	0178	LONGITUDE	-112	25	33.47732	0.75065	-112	25	32.72667
4	0178	HEIGHT			273.10150	18.36372			291.46522
4	0176	LATITUDE	33	21	46.77133	-0.73112	33	21	46.04021
4	0176	LONGITUDE	-112	26	4.71551	0.75094	-112	26	3.96457
4	0176	HEIGHT			269.09960	18.84030			287.93990
4	0519	LATITUDE	33	25	45.78151	0.05864	33	25	45.84015
4	0519	LONGITUDE	-111	51	23.04948	0.26317	-111	51	22.78631
4	0519	HEIGHT			362.00000	13.95623			375.95623

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SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 XO= 0.000 YO= 0.000 ZO= 0.000

S /E:

CODE	IDENT.	TYPE	INITIAL			DX	UPDATED		
4	0342	LATITUDE	33	25	16.24893	0.05874	33	25	16.30767
4	0342	LONGITUDE	-111	55	35.00066	0.26346	-111	55	34.73720
4	0342	HEIGHT			344.21540	13.95666			358.17206
4	0903	LATITUDE	33	25	44.69615	0.05895	33	25	44.75510
4	0903	LONGITUDE	-111	57	8.67486	0.26347	-111	57	8.41139
4	0903	HEIGHT			337.78840	13.96643			351.75483
4	0168	LATITUDE	33	20	3.29118	-0.73029	33	20	2.56089
4	0168	LONGITUDE	-112	31	18.90736	0.75205	-112	31	18.15531
4	0168	HEIGHT			255.23720	18.82498			274.06218
4	0134	LATITUDE	33	19	12.65377	0.55847	33	19	13.21224
4	0134	LONGITUDE	-112	47	34.70951	-1.16449	-112	47	35.87400
4	0134	HEIGHT			277.16540	-31.57420			245.59120
4	0526	LATITUDE	33	27	58.95985	0.06973	33	27	59.02958
4	0526	LONGITUDE	-111	47	15.12561	0.21043	-111	47	14.91518
4	0526	HEIGHT			330.80200	51.81941			382.62141
4	0529	LATITUDE	33	29	15.67821	0.06930	33	29	15.7475[illegible]
[illegible]	0529	LONGITUDE	-111	43	37.67785	0.20897	-111	43	37.468[illegible]
[illegible]	0529	HEIGHT			347.10480	51.82122			398.92602
4	0102	LATITUDE	33	24	47.70802	0.37771	33	24	48.08573
4	0102	LONGITUDE	-112	19	24.90316	0.30601	-112	19	24.59715
4	0102	HEIGHT			232.10000	57.19190			289.29190
4	0104	LATITUDE	33	24	49.18362	0.37783	33	24	49.56145
4	0104	LONGITUDE	-112	22	30.56473	0.30747	-112	22	30.25726
4	0104	HEIGHT			229.63830	57.18589			286.82419
4	0193	LATITUDE	33	24	49.04571	0.37763	33	24	49.42334
4	0193	LONGITUDE	-112	17	22.32499	0.30509	-112	17	22.01990
4	0193	HEIGHT			236.72030	57.19567			293.91597
4	0522	LATITUDE	33	27	5.28777	0.05243	33	27	5.34020
4	0522	LONGITUDE	-111	49	22.31859	1.57606	-111	49	20.74253
4	0522	HEIGHT			451.10000	-77.71449			373.38551
4	0180	LATITUDE	33	22	51.32059	0.22827	33	22	51.54886
4	0180	LONGITUDE	-112	22	29.89105	-1.16953	-112	22	31.06058
4	0180	HEIGHT			234.73440	49.70018			284.43458
4	0181	LATITUDE	33	23	33.09329	0.22799	33	23	33.32128
4	0181	LONGITUDE	-112	22	29.66890	-1.16974	-112	22	30.83864

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DE	IDENT.	TYPE			INITIAL	DX			UPDATED
4	0181	HEIGHT			231.44970	49.70068			281.15038
4	0184	LATITUDE	33	23	30.25346	0.22848	33	23	30.48194
4	0184	LONGITUDE	-112	19	22.55755	-1.17099	-112	19	23.72854
4	0184	HEIGHT			235.29470	49.67570			284.97040
4	0191	LATITUDE	33	23	32.10936	0.22890	33	23	32.33826
4	0191	LONGITUDE	-112	16	18.45048	-1.17223	-112	16	19.62271
4	0191	HEIGHT			242.99690	49.64852			292.64542
4	0127	LATITUDE	33	21	20.33160	0.07372	33	21	20.40532
4	0127	LONGITUDE	-112	40	38.73376	1.57401	-112	40	37.15975
4	0127	HEIGHT			257.93210	2.51021			260.44231
4	0130	LATITUDE	33	20	29.26339	0.07451	33	20	29.33790
4	0130	LONGITUDE	-112	44	17.28380	1.57375	-112	44	15.71005
4	0130	HEIGHT			280.10600	2.47400			282.58000
4	0156	LATITUDE	33	18	43.71308	1.17079	33	18	44.88387
4	0156	LONGITUDE	-112	39	36.51645	0.83275	-112	39	35.68370
4	0156	HEIGHT			249.25410	1.62588			250.87998
4	0523	LATITUDE	33	27	58.89532	0.23773	33	27	59.13305
4	0523	LONGITUDE	-111	49	21.15063	-0.49906	-111	49	21.64969
4	0523	HEIGHT			367.85500	6.31845			374.17345
4	0517	LATITUDE	33	27	57.55887	0.23749	33	27	57.79636
4	0517	LONGITUDE	-111	51	24.38376	-0.49888	-111	51	24.88264
4	0517	HEIGHT			365.50300	6.32627			371.82927
4	0344	LATITUDE	33	25	19.49155	0.05864	33	25	19.55019
4	0344	LONGITUDE	-111	52	59.12222	0.26324	-111	52	58.85898
4	0344	HEIGHT			349.38010	13.96472			363.34482
4	0185	LATITUDE	33	22	15.36448	-3.57770	33	22	11.78678
4	0185	LONGITUDE	-112	19	22.58242	-1.18196	-112	19	23.76438
4	0185	HEIGHT			24.14270	268.93847			293.08117
4	0318	LATITUDE	33	24	55.16743	-0.19881	33	24	54.96862
4	0318	LONGITUDE	-112	11	11.60059	0.20077	-112	11	11.39982
4	0318	HEIGHT			302.85780	6.26419			309.12199
4	0320	LATITUDE	33	24	30.57907	-0.19877	33	24	30.38030
4	0320	LONGITUDE	-112	13	17.20972	0.20099	-112	13	17.00873
4	0320	HEIGHT			296.72210	6.26835			302.99045

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SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

SOLVE:

CODE	IDENT.	TYPE	INITIAL			DX	UPDATED		
4	0322	LATITUDE	33	24	0.59106	-0.19866	33	24	0.39240
4	0322	LONGITUDE	-112	14	13.29750	0.20100	-112	14	13.09650
4	0322	HEIGHT			292.85040	6.26409			299.11449
4	0317	LATITUDE	33	25	20.23603	-0.19819	33	25	20.03787
4	0317	LONGITUDE	-112	10	9.77560	0.20189	-112	10	9.57371
4	0317	HEIGHT			305.55900	6.29714			311.85617
4	0190	LATITUDE	33	22	38.91706	-0.19787	33	22	38.71919
4	0190	LONGITUDE	-112	16	19.28095	0.20230	-112	16	19.07865
4	0190	HEIGHT			286.16710	6.29279			292.45989
4	0321	LATITUDE	33	23	30.87055	-0.19798	33	23	30.67257
4	0321	LONGITUDE	-112	13	11.98813	0.20201	-112	13	11.78612
4	0321	HEIGHT			292.90550	6.29746			299.20296
4	0328	LATITUDE	33	23	30.91469	-0.19824	33	23	30.71645
4	0328	LONGITUDE	-112	11	7.92126	0.20181	-112	11	7.71945
4	0328	HEIGHT			300.12870	6.29202			306.42072
4	0327	LATITUDE	33	23	5.05731	-0.19822	33	23	4.85909
4	0327	LONGITUDE	-112	11	8.21946	0.20175	-112	11	8.0177[illegible]
	0327	HEIGHT			299.19060	6.28439			305.4749[illegible]
4	0330	LATITUDE	33	23	31.53431	-0.19831	33	23	31.33600
4	0330	LONGITUDE	-112	9	3.42915	0.20155	-112	9	3.22760
4	0330	HEIGHT			304.71400	6.28686			311.00086
4	0331	LATITUDE	33	23	57.96718	-0.19837	33	23	57.76881
4	0331	LONGITUDE	-112	8	1.31256	0.20141	-112	8	1.11115
4	0331	HEIGHT			308.34730	6.28801			314.63531
4	0313	LATITUDE	33	25	41.23967	-0.19833	33	25	41.04134
4	0313	LONGITUDE	-112	5	59.67034	0.20171	-112	5	59.46863
4	0313	HEIGHT			316.66320	6.29593			322.95913
4	0312	LATITUDE	33	25	41.33363	-0.19821	33	25	41.13542
4	0312	LONGITUDE	-112	4	57.01544	0.20170	-112	4	56.81374
4	0312	HEIGHT			319.66370	6.29576			325.95946
4	0315	LATITUDE	33	25	21.03138	-0.19824	33	25	20.83314
4	0315	LONGITUDE	-112	8	4.51285	0.20183	-112	8	4.31102
4	0315	HEIGHT			310.19110	6.29839			316.48949
4	0308	LATITUDE	33	26	11.73641	-1.17883	33	26	10.55758
4	0308	LONGITUDE	-112	0	39.96096	-0.46510	-112	0	40.42606

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DE	IDENT.	TYPE			INITIAL	DX			UPDATED
4	0308	HEIGHT			211.03690	129.50622			340.54312
4	0803	LATITUDE	33	26	13.53777	-1.17889	33	26	12.35888
4	0803	LONGITUDE	-112	1	48.48819	-0.46276	-112	1	48.95095
4	0803	HEIGHT			206.81020	129.53648			336.34668
4	0309	LATITUDE	33	25	47.41820	-1.17837	33	25	46.23983
4	0309	LONGITUDE	-112	1	48.77404	-0.46273	-112	1	49.23677
4	0309	HEIGHT			205.85910	129.54242			335.40152
4	0310	LATITUDE	33	25	21.30334	-1.17783	33	25	20.12551
4	0310	LONGITUDE	-112	1	49.05841	-0.46268	-112	1	49.52109
4	0310	HEIGHT			204.53420	129.54697			334.08117
4	0336	LATITUDE	33	24	26.05817	-1.17669	33	24	24.88148
4	0336	LONGITUDE	-112	1	46.83730	-0.46267	-112	1	47.29997
4	0336	HEIGHT			206.07390	129.55675			335.63065
4	0334	LATITUDE	33	24	25.29628	-1.17676	33	24	24.11952
4	0334	LONGITUDE	-112	4	54.74234	-0.45806	-112	4	55.20040
4	0334	HEIGHT			195.65440	129.56097			325.21537
4	0801	LATITUDE	33	24	25.37161	-1.17680	33	24	24.19481
4	0801	LONGITUDE	-112	4	23.64234	-0.45877	-112	4	24.10111
4	0801	HEIGHT			197.32240	129.56150			326.88390
4	0802	LATITUDE	33	24	25.43071	-1.17671	33	24	24.25400
4	0802	LONGITUDE	-112	3	20.52514	-0.46037	-112	3	20.98551
4	0802	HEIGHT			199.76750	129.55774			329.32524
4	0332	LATITUDE	33	24	24.21134	-1.17696	33	24	23.03438
4	0332	LONGITUDE	-112	8	1.86822	-0.45340	-112	8	2.32162
4	0332	HEIGHT			185.70950	129.56761			315.27711
4	0187	LATITUDE	33	21	46.69728	-0.14905	33	21	46.54823
4	0187	LONGITUDE	-112	18	23.89036	1.19013	-112	18	22.70023
4	0187	HEIGHT			280.20000	28.76994			308.96994
4	0189	LATITUDE	33	21	39.67734	-0.14938	33	21	39.52796
4	0189	LONGITUDE	-112	15	32.04931	1.18919	-112	15	30.86012
4	0189	HEIGHT			265.21720	28.79399			294.01119
4	0325	LATITUDE	33	22	12.57317	-0.14984	33	22	12.42333
4	0325	LONGITUDE	-112	13	13.57946	1.18853	-112	13	12.39093
4	0325	HEIGHT			270.65350	28.81769			299.47119

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A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

SOLVE:

. E	IDENT.	TYPE	INITIAL			DX	UPDAT		
4	0186	LATITUDE	33	22	11.80394	-0.14915	33	22	11.65479
4	0186	LONGITUDE	-112	18	23.27209	1.19023	-112	18	22.08186
4	0186	HEIGHT			263.82550	28.76773			292.59323
4	0339	LATITUDE	33	24	51.20693	-0.77165	33	24	50.43528
4	0339	LONGITUDE	-111	58	41.93421	0.76017	-111	58	41.17404
4	0339	HEIGHT			244.80000	102.70283			347.50283
4	0340	LATITUDE	33	25	18.73488	-0.77207	33	25	17.96281
4	0340	LONGITUDE	-111	58	39.56426	0.76022	-111	58	38.80404
4	0340	HEIGHT			243.43990	102.69998			346.13988
4	0804	LATITUDE	33	25	19.54866	-0.77200	33	25	18.77666
4	0804	LONGITUDE	-111	59	44.40204	0.76143	-111	59	43.64061
4	0804	HEIGHT			238.27130	102.69661			340.96791
4	0805	LATITUDE	33	24	53.26301	-0.77158	33	24	52.49143
4	0805	LONGITUDE	-111	59	44.23997	0.76134	-111	59	43.47863
4	0805	HEIGHT			239.90390	102.69793			342.60183
4	0707	LATITUDE	33	22	29.70883	-0.76929	33	22	28.93954
4	0707	LONGITUDE	-111	59	54.74115	0.76108	-111	59	53.980[illegible]
4	0707	HEIGHT			269.20270	102.72110			371.923[illegible]
4	0708	LATITUDE	33	22	41.58554	-0.76959	33	22	40.81595
4	0708	LONGITUDE	-112	0	46.83643	0.76215	-112	0	46.07428
4	0708	HEIGHT			256.03530	102.71943			358.75473
4	0703	LATITUDE	33	22	42.34530	-0.76973	33	22	41.57557
4	0703	LONGITUDE	-111	56	38.69911	0.75744	-111	56	37.94167
4	0703	HEIGHT			257.10040	102.74166			359.84206
4	0704	LATITUDE	33	21	49.93569	-0.76895	33	21	49.16674
4	0704	LONGITUDE	-111	56	45.94851	0.75748	-111	56	45.19103
4	0704	HEIGHT			261.82530	102.74250			364.56780
4	0712	LATITUDE	33	22	40.55795	-0.76928	33	22	39.78867
4	0712	LONGITUDE	-112	5	0.68101	0.76689	-112	4	59.91412
4	0712	HEIGHT			249.46530	102.70243			352.16773
4	0520	LATITUDE	33	26	38.27002	0.05853	33	26	38.32855
4	0520	LONGITUDE	-111	51	22.89199	0.26328	-111	51	22.62871
4	0520	HEIGHT			353.20630	13.95728			367.16358
4	0901	LATITUDE	33	25	45.02899	0.05872	33	25	45.08771
4	0901	LONGITUDE	-111	54	32.89856	0.26342	-111	54	32.63514

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ODE	IDENT.	TYPE	INITIAL			DX			UPDATED		
4	0901	HEIGHT			343.35330	13.95198			357.30528		
4	0306	LATITUDE	33	26	36.26432	1.57423	33	26	37.83855		
4	0306	LONGITUDE	-111	58	41.93706	-0.43127	-111	58	42.36833		
4	0306	HEIGHT			348.50000	3.20668			351.70668		
4	0307	LATITUDE	33	26	34.86755	1.57422	33	26	36.44177		
4	0307	LONGITUDE	-112	0	5.75974	-0.43175	-112	0	6.19149		
4	0307	HEIGHT			339.34990	3.21029			342.56019		
4	0303	LATITUDE	33	26	38.97869	0.23735	33	26	39.21604		
4	0303	LONGITUDE	-111	54	34.43776	-0.49863	-111	54	34.93639		
4	0303	HEIGHT			353.70000	6.33805			360.03805		
4	0302	LATITUDE	33	27	4.33400	0.23731	33	27	4.57131		
4	0302	LONGITUDE	-111	54	32.85471	-0.49862	-111	54	33.35333		
4	0302	HEIGHT			355.95830	6.34263			362.30093		
4	0516	LATITUDE	33	28	23.62359	0.23740	33	28	23.86099		
4	0516	LONGITUDE	-111	51	23.65232	-0.49876	-111	51	24.15108		
4	0516	HEIGHT			369.01360	6.33763			375.35123		
4	0304	LATITUDE	33	26	38.21452	0.23727	33	26	38.45179		
4	0304	LONGITUDE	-111	55	34.65990	-0.49855	-111	55	35.15845		
4	0304	HEIGHT			355.57870	6.34536			361.92406		
4	0508	LATITUDE	33	29	43.52703	-0.10041	33	29	43.42662		
4	0508	LONGITUDE	-111	45	10.48317	0.63318	-111	45	9.84999		
4	0508	HEIGHT			390.00000	-1.22183			388.77817		
4	0514	LATITUDE	33	29	16.79628	-0.10006	33	29	16.69622		
4	0514	LONGITUDE	-111	49	20.16836	0.63310	-111	49	19.53526		
4	0514	HEIGHT			385.93690	-1.23736			384.69954		
4	0527	LATITUDE	33	28	51.36379	-0.10021	33	28	51.26358		
4	0527	LONGITUDE	-111	47	15.57206	0.63306	-111	47	14.93900		
4	0527	HEIGHT			383.54800	-1.22970			382.31830		
4	0504	LATITUDE	33	31	1.84850	-0.10055	33	31	1.74795		
4	0504	LONGITUDE	-111	43	5.79193	0.63337	-111	43	5.15856		
4	0504	HEIGHT			407.73850	-1.21394			406.52456		
4	0505	LATITUDE	33	30	35.69133	-0.10059	33	30	35.59074		
4	0505	LONGITUDE	-111	43	5.81104	0.63330	-111	43	5.17774		
4	0505	HEIGHT			398.79050	-1.21455			397.57595		

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6376137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

S /E:

CODE	IDENT.	TYPE	INITIAL			DX	UPDATED		
4	0531	LATITUDE	33	29	43.49057	-0.10059	33	29	43.38998
4	0531	LONGITUDE	-111	43	13.21208	0.63315	-111	43	12.57893
4	0531	HEIGHT			400.02290	-1.21175			398.81115
4	0530	LATITUDE	33	28	51.67854	-0.10065	33	28	51.57789
4	0530	LONGITUDE	-111	43	7.01971	0.63303	-111	43	6.38668
4	0530	HEIGHT			419.72460	-1.20713			418.51747
4	0525	LATITUDE	33	27	32.67690	0.05252	33	27	32.72942
4	0525	LONGITUDE	-111	47	16.80573	1.57795	-111	47	15.22778
4	0525	HEIGHT			471.65280	-77.70986			393.94294
4	0515	LATITUDE	33	29	16.45191	-0.04571	33	29	16.40620
4	0515	LONGITUDE	-111	50	22.20024	0.34772	-111	50	21.85252
4	0515	HEIGHT			351.64620	29.98155			381.62775
4	0507	LATITUDE	33	30	35.68109	-0.04636	33	30	35.63473
4	0507	LONGITUDE	-111	45	10.24801	0.34604	-111	45	9.90197
4	0507	HEIGHT			363.59210	29.98843			393.58053
4	0511	LATITUDE	33	29	58.79574	-0.04602	33	29	58.749[illegible]
[illegible]	0511	LONGITUDE	-111	47	59.11135	0.34687	-111	47	58.764[illegible]
[illegible]	0511	HEIGHT			359.80400	29.98091			389.78491
4	0501	LATITUDE	33	31	27.92193	-0.04675	33	31	27.87518
4	0501	LONGITUDE	-111	41	0.86511	0.34468	-111	41	0.52043
4	0501	HEIGHT			374.74850	29.98653			404.73503
4	0502	LATITUDE	33	31	30.37801	-0.04677	33	31	30.33124
4	0502	LONGITUDE	-111	42	7.13751	0.34505	-111	42	6.79246
4	0502	HEIGHT			405.13660	29.98274			435.11934
4	0533	LATITUDE	33	30	35.47800	-0.04658	33	30	35.43142
4	0533	LONGITUDE	-111	41	2.47169	0.34467	-111	41	2.12702
4	0533	HEIGHT			394.45630	29.98245			424.43875
4	0532	LATITUDE	33	30	13.26932	-0.04646	33	30	13.22286
4	0532	LONGITUDE	-111	41	2.47056	0.34459	-111	41	2.12597
4	0532	HEIGHT			432.81190	29.98069			462.79259

SOLVE successfully completed.

F .MEQ:

FORMEQ successfully completed.

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

SOLVE:

Solution (Iteration Count = 2):

CODE	IDENT.	TYPE			INITIAL	DX			UPDATED
4	0001	LATITUDE	33	22	37.82092	0.00000	33	22	37.82092
4	0001	LONGITUDE	-112	18	21.99997	0.00002	-112	18	21.99999
4	0001	HEIGHT			353.08069	0.00016			353.08085
4	0015	LATITUDE	33	32	50.38750	0.00000	33	32	50.38750
4	0015	LONGITUDE	-112	1	15.56885	0.00002	-112	1	15.56884
4	0015	HEIGHT			794.79584	0.00016			794.79600
4	0007	LATITUDE	33	24	59.04478	0.00000	33	24	59.04479
4	0007	LONGITUDE	-112	52	31.59653	0.00001	-112	52	31.59652
4	0007	HEIGHT			365.88779	0.00008			365.88787
4	0009	LATITUDE	33	31	13.06632	0.00000	33	31	13.06632
4	0009	LONGITUDE	-112	21	43.13021	0.00001	-112	21	43.13019
4	0009	HEIGHT			340.68329	0.00008			340.68337
4	0019	LATITUDE	33	28	28.99448	0.00000	33	28	28.99448
4	0019	LONGITUDE	-111	45	6.62973	0.00003	-111	45	6.62970
4	0019	HEIGHT			410.91774	0.00030			410.91804
	0021	LATITUDE	33	24	24.40603	0.00000	33	24	24.40604
4	0021	LONGITUDE	-111	58	2.30836	0.00003	-111	58	2.30833
4	0021	HEIGHT			414.19378	0.00029			414.19408
4	0005	LATITUDE	33	18	24.53886	-0.00000	33	18	24.53886
4	0005	LONGITUDE	-112	44	5.72522	0.00001	-112	44	5.72520
4	0005	HEIGHT			393.61306	0.00030			393.61336
4	0301	LATITUDE	33	27	30.88366	0.00000	33	27	30.88366
4	0301	LONGITUDE	-111	53	30.91617	0.00003	-111	53	30.91614
4	0301	HEIGHT			363.57962	0.00030			363.57991
4	0513	LATITUDE	33	29	42.79928	0.00000	33	29	42.79929
4	0513	LONGITUDE	-111	49	19.50601	0.00003	-111	49	19.50598
4	0513	HEIGHT			387.58193	0.00030			387.58223
4	0705	LATITUDE	33	21	49.14844	0.00000	33	21	49.14844
4	0705	LONGITUDE	-111	58	28.16182	0.00003	-111	58	28.16179
4	0705	HEIGHT			399.70227	0.00029			399.70257
4	0326	LATITUDE	33	22	38.48052	-0.00000	33	22	38.48052
4	0326	LONGITUDE	-112	12	8.84458	-0.00000	-112	12	8.84458
4	0326	HEIGHT			302.93894	0.00002			302.93896

CODE	IDENT.	TYPE	INITIAL			DX	UPDATED		
4	0711	LATITUDE	33	21	26.20822	-0.00000	33	21	26.20822
4	0711	LONGITUDE	-112	4	21.59508	-0.00000	-112	4	21.59508
4	0711	HEIGHT			398.05903	0.00002			398.05905
4	0192	LATITUDE	33	24	23.29763	-0.00000	33	24	23.29762
4	0192	LONGITUDE	-112	16	20.18447	-0.00000	-112	16	20.18447
4	0192	HEIGHT			300.06876	0.00002			300.06878
4	0129	LATITUDE	33	20	54.64706	-0.00000	33	20	54.64706
4	0129	LONGITUDE	-112	42	42.51492	0.00001	-112	42	42.51491
4	0129	HEIGHT			254.06595	0.00030			254.06625
4	0141	LATITUDE	33	14	54.00009	-0.00000	33	14	54.00009
4	0141	LONGITUDE	-112	48	24.23340	0.00001	-112	48	24.23339
4	0141	HEIGHT			245.22421	0.00030			245.22451
4	0161	LATITUDE	33	19	10.45160	-0.00000	33	19	10.45160
4	0161	LONGITUDE	-112	36	29.44806	0.00001	-112	36	29.44805
4	0161	HEIGHT			265.46438	0.00030			265.46467
[illegible]	0172	LATITUDE	33	20	28.42604	-0.00000	33	20	28.42604
[illegible]	0172	LONGITUDE	-112	28	11.38708	0.00001	-112	28	11.38706
[illegible]	0172	HEIGHT			282.55623	0.00030			282.55653
4	0148	LATITUDE	33	17	4.01380	0.00000	33	17	4.01380
4	0148	LONGITUDE	-112	44	44.40997	-0.00000	-112	44	44.40997
4	0148	HEIGHT			241.00509	0.00002			241.00511
4	0150	LATITUDE	33	18	18.33918	0.00000	33	18	18.33918
4	0150	LONGITUDE	-112	43	51.60752	-0.00000	-112	43	51.60752
4	0150	HEIGHT			240.93558	0.00002			240.93559
4	0153	LATITUDE	33	19	35.74079	0.00000	33	19	35.74080
4	0153	LONGITUDE	-112	42	40.11598	-0.00000	-112	42	40.11598
4	0153	HEIGHT			245.96391	0.00002			245.96393
4	0136	LATITUDE	33	18	16.53681	0.00000	33	18	16.53681
4	0136	LONGITUDE	-112	47	35.13596	-0.00001	-112	47	35.13597
4	0136	HEIGHT			242.82103	0.00009			242.82112
4	0137	LATITUDE	33	17	10.37154	0.00000	33	17	10.37154
4	0137	LONGITUDE	-112	48	33.66055	-0.00001	-112	48	33.66056
4	0137	HEIGHT			241.19584	0.00009			241.19594
4	0140	LATITUDE	33	15	50.59797	0.00000	33	15	50.59797
4	0140	LONGITUDE	-112	48	2.72780	-0.00001	-112	48	2.72781

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CODE	IDENT.	TYPE	INITIAL			DX	UPDATED		
4	0140	HEIGHT			237.97122	0.00009			237.97131
4	0132	LATITUDE	33	19	32.58216	0.00000	33	19	32.58216
4	0132	LONGITUDE	-112	45	49.37120	-0.00000	-112	45	49.37120
4	0132	HEIGHT			243.73169	0.00002			243.73170
4	0133	LATITUDE	33	19	35.33418	0.00000	33	19	35.33418
4	0133	LONGITUDE	-112	46	51.68230	-0.00000	-112	46	51.68230
4	0133	HEIGHT			252.72164	0.00002			252.72165
4	0123	LATITUDE	33	22	12.37414	0.00000	33	22	12.37414
4	0123	LONGITUDE	-112	38	32.06684	-0.00000	-112	38	32.06684
4	0123	HEIGHT			267.52241	0.00002			267.52243
4	0124	LATITUDE	33	21	46.12131	0.00000	33	21	46.12131
4	0124	LONGITUDE	-112	39	35.73310	-0.00000	-112	39	35.73311
4	0124	HEIGHT			262.52286	0.00002			262.52288
4	0142	LATITUDE	33	14	42.68118	0.00000	33	14	42.68118
4	0142	LONGITUDE	-112	47	14.59394	-0.00001	-112	47	14.59395
4	0142	HEIGHT			232.70046	0.00009			232.70055
4	0119	LATITUDE	33	22	38.78190	0.00000	33	22	38.78190
4	0119	LONGITUDE	-112	33	52.23222	-0.00000	-112	33	52.23222
4	0119	HEIGHT			266.55768	0.00002			266.55769
4	0164	LATITUDE	33	20	54.74793	0.00000	33	20	54.74793
4	0164	LONGITUDE	-112	36	28.98787	-0.00000	-112	36	28.98787
4	0164	HEIGHT			252.57348	0.00002			252.57349
4	0116	LATITUDE	33	22	13.03459	-0.00000	33	22	13.03459
4	0116	LONGITUDE	-112	31	16.35383	0.00000	-112	31	16.35383
4	0116	HEIGHT			262.00729	0.00008			262.00737
4	0120	LATITUDE	33	22	13.71255	-0.00000	33	22	13.71255
4	0120	LONGITUDE	-112	34	24.29501	0.00000	-112	34	24.29501
4	0120	HEIGHT			261.96679	0.00008			261.96687
4	0160	LATITUDE	33	18	19.27935	0.00000	33	18	19.27935
4	0160	LONGITUDE	-112	37	31.41912	-0.00000	-112	37	31.41912
4	0160	HEIGHT			269.89380	0.00001			269.89381
4	0125	LATITUDE	33	20	53.83505	0.00000	33	20	53.83505
4	0125	LONGITUDE	-112	39	35.44214	-0.00000	-112	39	35.44214
4	0125	HEIGHT			252.80316	0.00001			252.80317

DE	IDENT.	TYPE			INITIAL	DX			UPDATED
4	0126	LATITUDE	33	20	2.59449	0.00000	33	20	2.59450
4	0126	LONGITUDE	-112	39	35.18515	-0.00000	-112	39	35.18515
4	0126	HEIGHT			245.08103	0.00001			245.08104
4	0151	LATITUDE	33	18	18.78636	0.00000	33	18	18.78636
4	0151	LONGITUDE	-112	42	42.25143	-0.00000	-112	42	42.25143
4	0151	HEIGHT			241.90141	0.00001			241.90142
4	0152	LATITUDE	33	18	19.19974	0.00000	33	18	19.19974
4	0152	LONGITUDE	-112	41	40.20980	-0.00000	-112	41	40.20980
4	0152	HEIGHT			250.10244	0.00001			250.10245
4	0144	LATITUDE	33	13	36.47915	0.00000	33	13	36.47915
4	0144	LONGITUDE	-112	46	26.01845	-0.00001	-112	46	26.01846
4	0144	HEIGHT			236.86486	0.00009			236.86495
4	0162	LATITUDE	33	19	37.44982	0.00000	33	19	37.44982
4	0162	LONGITUDE	-112	35	55.29868	-0.00000	-112	35	55.29868
4	0162	HEIGHT			254.37931	0.00001			254.37932
	0163	LATITUDE	33	20	0.66695	0.00000	33	20	0.66695
	0163	LONGITUDE	-112	35	27.60756	-0.00000	-112	35	27.60756
	0163	HEIGHT			255.27664	0.00001			255.27664
4	0145	LATITUDE	33	13	38.53068	0.00000	33	13	38.53068
4	0145	LONGITUDE	-112	45	56.08970	-0.00001	-112	45	56.08971
4	0145	HEIGHT			228.49181	0.00009			228.49190
4	0107	LATITUDE	33	23	30.54211	-0.00000	33	23	30.54211
4	0107	LONGITUDE	-112	25	36.42566	-0.00000	-112	25	36.42566
4	0107	HEIGHT			270.92442	0.00001			270.92443
4	0113	LATITUDE	33	22	13.09418	-0.00000	33	22	13.09418
4	0113	LONGITUDE	-112	28	40.68158	-0.00000	-112	28	40.68158
4	0113	HEIGHT			268.25436	0.00001			268.25437
4	0146	LATITUDE	33	14	25.45739	0.00000	33	14	25.45739
4	0146	LONGITUDE	-112	45	39.75381	-0.00001	-112	45	39.75382
4	0146	HEIGHT			233.65248	0.00009			233.65257
4	0112	LATITUDE	33	23	31.43520	-0.00000	33	23	31.43520
4	0112	LONGITUDE	-112	28	43.63119	-0.00000	-112	28	43.63119
4	0112	HEIGHT			268.40882	0.00001			268.40883
4	0111	LATITUDE	33	23	56.34865	-0.00000	33	23	56.34865
4	0111	LONGITUDE	-112	28	43.64549	-0.00000	-112	28	43.64549

S ation:

CODE	IDENT.	TYPE	INITIAL			DX	UPDATED		
4	0111	HEIGHT			273.35678	0.00001			273.35679
4	0115	LATITUDE	33	23	31.56743	-0.00000	33	23	31.56743
4	0115	LONGITUDE	-112	30	15.16812	-0.00000	-112	30	15.16812
4	0115	HEIGHT			270.47165	0.00001			270.47166
4	0117	LATITUDE	33	23	5.65061	-0.00000	33	23	5.65061
4	0117	LONGITUDE	-112	32	19.30001	-0.00000	-112	32	19.30002
4	0117	HEIGHT			267.59659	0.00001			267.59660
4	0169	LATITUDE	33	20	46.43721	-0.00000	33	20	46.43720
4	0169	LONGITUDE	-112	31	17.18155	-0.00000	-112	31	17.18155
4	0169	HEIGHT			261.39553	0.00001			261.39554
4	0173	LATITUDE	33	20	54.50096	-0.00000	33	20	54.50096
4	0173	LONGITUDE	-112	28	11.53617	-0.00000	-112	28	11.53618
4	0173	HEIGHT			279.12874	0.00001			279.12875
4	0108	LATITUDE	33	24	23.75177	0.00000	33	24	23.75177
4	0108	LONGITUDE	-112	26	38.90282	-0.00000	-112	26	38.90283
4	0108	HEIGHT			274.46046	0.00007			274.4605
4	0147	LATITUDE	33	15	44.97048	0.00000	33	15	44.97048
4	0147	LONGITUDE	-112	45	46.36939	-0.00001	-112	45	46.36940
4	0147	HEIGHT			232.09554	0.00009			232.09563
4	0702	LATITUDE	33	24	27.11231	-0.00000	33	24	27.11231
4	0702	LONGITUDE	-111	56	38.18971	-0.00000	-111	56	38.18971
4	0702	HEIGHT			353.82922	0.00000			353.82922
4	0902	LATITUDE	33	25	43.69157	-0.00000	33	25	43.69157
4	0902	LONGITUDE	-111	55	34.61084	-0.00000	-111	55	34.61084
4	0902	HEIGHT			354.38103	0.00000			354.38103
4	0178	LATITUDE	33	21	45.94904	0.00000	33	21	45.94905
4	0178	LONGITUDE	-112	25	32.72667	-0.00000	-112	25	32.72668
4	0178	HEIGHT			291.96522	0.00007			291.96529
4	0176	LATITUDE	33	21	46.04021	0.00000	33	21	46.04021
4	0176	LONGITUDE	-112	26	3.96457	-0.00000	-112	26	3.96458
4	0176	HEIGHT			287.93990	0.00007			287.93997
4	0519	LATITUDE	33	25	45.84015	-0.00000	33	25	45.84015
4	0519	LONGITUDE	-111	51	22.78631	-0.00000	-111	51	22.78631
4	0519	HEIGHT			375.95623	0.00000			375.95623

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ODE	IDENT.	TYPE	INITIAL			DX	UPDATED		
4	0342	LATITUDE	33	25	16.30767	-0.00000	33	25	16.30767
4	0342	LONGITUDE	-111	55	34.73720	-0.00000	-111	55	34.73720
4	0342	HEIGHT			358.17206	0.00000			358.17206
4	0903	LATITUDE	33	25	44.75510	-0.00000	33	25	44.75510
4	0903	LONGITUDE	-111	57	8.41139	-0.00000	-111	57	8.41139
4	0903	HEIGHT			351.75483	0.00000			351.75483
4	0168	LATITUDE	33	20	2.56089	0.00000	33	20	2.56089
4	0168	LONGITUDE	-112	31	18.15531	-0.00000	-112	31	18.15532
4	0168	HEIGHT			274.06218	0.00007			274.06225
4	0134	LATITUDE	33	19	13.21224	0.00000	33	19	13.21224
4	0134	LONGITUDE	-112	47	35.87400	-0.00001	-112	47	35.87401
4	0134	HEIGHT			245.59120	0.00009			245.59130
4	0526	LATITUDE	33	27	59.02958	-0.00000	33	27	59.02958
4	0526	LONGITUDE	-111	47	14.91518	-0.00000	-111	47	14.91518
4	0526	HEIGHT			382.62141	0.00000			382.62142
	0529	LATITUDE	33	29	15.74751	-0.00000	33	29	15.74751
	0529	LONGITUDE	-111	43	37.46888	-0.00000	-111	43	37.46888
	0529	HEIGHT			398.92602	0.00000			398.92602
4	0102	LATITUDE	33	24	48.08573	-0.00000	33	24	48.08573
4	0102	LONGITUDE	-112	19	24.59715	-0.00000	-112	19	24.59715
4	0102	HEIGHT			289.29190	0.00002			289.29192
4	0104	LATITUDE	33	24	49.56145	-0.00000	33	24	49.56144
4	0104	LONGITUDE	-112	22	30.25726	-0.00000	-112	22	30.25727
4	0104	HEIGHT			286.82419	0.00002			286.82421
4	0193	LATITUDE	33	24	49.42334	-0.00000	33	24	49.42334
4	0193	LONGITUDE	-112	17	22.01990	-0.00000	-112	17	22.01990
4	0193	HEIGHT			293.91597	0.00002			293.91599
4	0522	LATITUDE	33	27	5.34020	-0.00000	33	27	5.34020
4	0522	LONGITUDE	-111	49	20.74253	0.00002	-111	49	20.74251
4	0522	HEIGHT			373.38551	0.00013			373.38564
4	0180	LATITUDE	33	22	51.54886	-0.00000	33	22	51.54886
4	0180	LONGITUDE	-112	22	31.06058	0.00001	-112	22	31.06057
4	0180	HEIGHT			284.43458	0.00008			284.43465
4	0181	LATITUDE	33	23	33.32128	-0.00000	33	23	33.32127
4	0181	LONGITUDE	-112	22	30.83864	0.00001	-112	22	30.83863

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

S ation:

CODE	IDENT.	TYPE			INITIAL	DX			UPDATED
4	0181	HEIGHT			281.15038	0.00008			281.15046
4	0184	LATITUDE	33	23	30.48194	-0.00000	33	23	30.48193
4	0184	LONGITUDE	-112	19	23.72854	0.00001	-112	19	23.72855
4	0184	HEIGHT			284.97040	0.00008			284.97048
4	0191	LATITUDE	33	23	32.33826	-0.00000	33	23	32.33826
4	0191	LONGITUDE	-112	16	19.62271	0.00001	-112	16	19.62271
4	0191	HEIGHT			292.64542	0.00008			292.64550
4	0127	LATITUDE	33	21	20.40532	-0.00000	33	21	20.40532
4	0127	LONGITUDE	-112	40	37.15975	-0.00000	-112	40	37.15975
4	0127	HEIGHT			260.44231	0.00013			260.44244
4	0130	LATITUDE	33	20	29.33790	-0.00000	33	20	29.33790
4	0130	LONGITUDE	-112	44	15.71005	-0.00000	-112	44	15.71005
4	0130	HEIGHT			282.58000	0.00013			282.58013
4	0156	LATITUDE	33	18	44.88387	-0.00000	33	18	44.88387
4	0156	LONGITUDE	-112	39	35.68370	0.00000	-112	39	35.68370
4	0156	HEIGHT			250.87998	0.00014			250.88012
4	0523	LATITUDE	33	27	59.13305	-0.00000	33	27	59.13305
4	0523	LONGITUDE	-111	49	21.64969	0.00000	-111	49	21.64969
4	0523	HEIGHT			374.17345	0.00002			374.17347
4	0517	LATITUDE	33	27	57.79636	-0.00000	33	27	57.79636
4	0517	LONGITUDE	-111	51	24.88264	0.00000	-111	51	24.88264
4	0517	HEIGHT			371.82927	0.00002			371.82929
4	0344	LATITUDE	33	25	19.55019	-0.00000	33	25	19.55019
4	0344	LONGITUDE	-111	52	58.85898	-0.00000	-111	52	58.85898
4	0344	HEIGHT			363.34482	0.00000			363.34483
4	0185	LATITUDE	33	22	11.78678	0.00015	33	22	11.78693
4	0185	LONGITUDE	-112	19	23.76438	0.00006	-112	19	23.76432
4	0185	HEIGHT			293.08117	0.00103			293.08220
4	0318	LATITUDE	33	24	54.96862	0.00000	33	24	54.96862
4	0318	LONGITUDE	-112	11	11.39982	-0.00000	-112	11	11.39982
4	0318	HEIGHT			309.12199	0.00001			309.12199
4	0320	LATITUDE	33	24	30.38030	0.00000	33	24	30.38030
4	0320	LONGITUDE	-112	13	17.00873	-0.00000	-112	13	17.00873
4	0320	HEIGHT			302.99045	0.00001			302.99046

CODE	IDENT.	TYPE			INITIAL	DX			UPDATED
4	0322	LATITUDE	33	24	0.39240	0.00000	33	24	0.39240
4	0322	LONGITUDE	-112	14	13.09650	-0.00000	-112	14	13.09650
4	0322	HEIGHT			299.11449	0.00001			299.11449
4	0317	LATITUDE	33	25	20.03784	0.00000	33	25	20.03784
4	0317	LONGITUDE	-112	10	9.57371	-0.00000	-112	10	9.57371
4	0317	HEIGHT			311.85614	0.00001			311.85615
4	0190	LATITUDE	33	22	38.71919	0.00000	33	22	38.71919
4	0190	LONGITUDE	-112	16	19.07865	-0.00000	-112	16	19.07865
4	0190	HEIGHT			292.45989	0.00001			292.45990
4	0321	LATITUDE	33	23	30.67257	0.00000	33	23	30.67257
4	0321	LONGITUDE	-112	13	11.78612	-0.00000	-112	13	11.78612
4	0321	HEIGHT			299.20296	0.00001			299.20297
4	0328	LATITUDE	33	23	30.71645	0.00000	33	23	30.71645
4	0328	LONGITUDE	-112	11	7.71945	-0.00000	-112	11	7.71945
4	0328	HEIGHT			306.42072	0.00001			306.42073
	0327	LATITUDE	33	23	4.85909	0.00000	33	23	4.85909
	0327	LONGITUDE	-112	11	8.01771	-0.00000	-112	11	8.01771
+	0327	HEIGHT			305.47499	0.00001			305.47499
4	0330	LATITUDE	33	23	31.33600	0.00000	33	23	31.33600
4	0330	LONGITUDE	-112	9	3.22760	-0.00000	-112	9	3.22760
4	0330	HEIGHT			311.00086	0.00001			311.00086
4	0331	LATITUDE	33	23	57.76881	0.00000	33	23	57.76881
4	0331	LONGITUDE	-112	8	1.11115	-0.00000	-112	8	1.11115
4	0331	HEIGHT			314.63531	0.00001			314.63531
4	0313	LATITUDE	33	25	41.04134	0.00000	33	25	41.04134
4	0313	LONGITUDE	-112	5	59.46863	-0.00000	-112	5	59.46863
4	0313	HEIGHT			322.95913	0.00001			322.95914
4	0312	LATITUDE	33	25	41.13542	0.00000	33	25	41.13542
4	0312	LONGITUDE	-112	4	56.81374	-0.00000	-112	4	56.81374
4	0312	HEIGHT			325.95946	0.00001			325.95946
4	0315	LATITUDE	33	25	20.83314	0.00000	33	25	20.83314
4	0315	LONGITUDE	-112	8	4.31102	-0.00000	-112	8	4.31102
4	0315	HEIGHT			316.48949	0.00001			316.48950
4	0308	LATITUDE	33	26	10.55758	0.00002	33	26	10.55760
4	0308	LONGITUDE	-112	0	40.42606	0.00001	-112	0	40.42605

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 XO= 0.000 YO= 0.000 ZO= 0.000

C ation:

CODE	IDENT.	TYPE			INITIAL	DX			UPDATED
4	0300	HEIGHT			340.54312	0.00012			340.54324
4	0803	LATITUDE	33	26	12.35888	0.00002	33	26	12.35891
4	0803	LONGITUDE	-112	1	48.95095	0.00001	-112	1	48.95094
4	0803	HEIGHT			336.34668	0.00011			336.34680
4	0309	LATITUDE	33	25	46.23983	0.00002	33	25	46.23986
4	0309	LONGITUDE	-112	1	49.23677	0.00001	-112	1	49.23676
4	0309	HEIGHT			335.40152	0.00011			335.40163
4	0310	LATITUDE	33	25	20.12551	0.00002	33	25	20.12554
4	0310	LONGITUDE	-112	1	49.52109	0.00001	-112	1	49.52108
4	0310	HEIGHT			334.08117	0.00011			334.08129
4	0336	LATITUDE	33	24	24.88148	0.00002	33	24	24.88150
4	0336	LONGITUDE	-112	1	47.29997	0.00001	-112	1	47.29996
4	0336	HEIGHT			335.63065	0.00011			335.63076
4	0334	LATITUDE	33	24	24.11952	0.00002	33	24	24.11955
4	0334	LONGITUDE	-112	4	55.20040	0.00001	-112	4	55.20039
4	0334	HEIGHT			325.21537	0.00011			325.215[illegible]
4	0801	LATITUDE	33	24	24.19481	0.00002	33	24	24.19483
4	0801	LONGITUDE	-112	4	24.10111	0.00001	-112	4	24.10110
4	0801	HEIGHT			326.88390	0.00011			326.88402
4	0802	LATITUDE	33	24	24.25400	0.00002	33	24	24.25403
4	0802	LONGITUDE	-112	3	20.98551	0.00001	-112	3	20.98550
4	0802	HEIGHT			329.32524	0.00011			329.32535
4	0332	LATITUDE	33	24	23.03438	0.00002	33	24	23.03441
4	0332	LONGITUDE	-112	8	2.32162	0.00001	-112	8	2.32161
4	0332	HEIGHT			315.27711	0.00011			315.27723
4	0187	LATITUDE	33	21	46.54823	-0.00000	33	21	46.54823
4	0187	LONGITUDE	-112	18	22.70023	-0.00001	-112	18	22.70024
4	0187	HEIGHT			308.96994	0.00008			308.97001
4	0189	LATITUDE	33	21	39.52796	-0.00000	33	21	39.52796
4	0189	LONGITUDE	-112	15	30.86012	-0.00001	-112	15	30.86013
4	0189	HEIGHT			294.01119	0.00008			294.01126
4	0325	LATITUDE	33	22	12.42333	-0.00000	33	22	12.42333
4	0325	LONGITUDE	-112	13	12.39093	-0.00001	-112	13	12.39093
4	0325	HEIGHT			299.47119	0.00008			299.47127

CODE	IDENT.	TYPE	INITIAL			DX	UPDATED		
4	0186	LATITUDE	33	22	11.65479	-0.00000	33	22	11.65479
4	0186	LONGITUDE	-112	18	22.08186	-0.00001	-112	18	22.08186
4	0186	HEIGHT			292.59323	0.00008			292.59331
4	0339	LATITUDE	33	24	50.43528	0.00001	33	24	50.43529
4	0339	LONGITUDE	-111	58	41.17404	-0.00001	-111	58	41.17406
4	0339	HEIGHT			347.50283	0.00007			347.50290
4	0340	LATITUDE	33	25	17.96281	0.00001	33	25	17.96282
4	0340	LONGITUDE	-111	58	38.80404	-0.00001	-111	58	38.80406
4	0340	HEIGHT			346.13988	0.00007			346.13995
4	0804	LATITUDE	33	25	18.77666	0.00001	33	25	18.77667
4	0804	LONGITUDE	-111	59	43.64061	-0.00001	-111	59	43.64063
4	0804	HEIGHT			340.96791	0.00007			340.96799
4	0805	LATITUDE	33	24	52.49143	0.00001	33	24	52.49144
4	0805	LONGITUDE	-111	59	43.47863	-0.00001	-111	59	43.47864
4	0805	HEIGHT			342.60183	0.00007			342.60190
4	0707	LATITUDE	33	22	28.93954	0.00001	33	22	28.93955
4	0707	LONGITUDE	-111	59	53.98007	-0.00001	-111	59	53.98008
4	0707	HEIGHT			371.92380	0.00007			371.92388
4	0708	LATITUDE	33	22	40.81595	0.00001	33	22	40.81596
4	0708	LONGITUDE	-112	0	46.07428	-0.00001	-112	0	46.07429
4	0708	HEIGHT			358.75473	0.00007			358.75481
4	0703	LATITUDE	33	22	41.57557	0.00001	33	22	41.57558
4	0703	LONGITUDE	-111	56	37.94167	-0.00001	-111	56	37.94168
4	0703	HEIGHT			359.84206	0.00007			359.84213
4	0704	LATITUDE	33	21	49.16674	0.00001	33	21	49.16676
4	0704	LONGITUDE	-111	56	45.19103	-0.00001	-111	56	45.19105
4	0704	HEIGHT			364.56780	0.00007			364.56787
4	0712	LATITUDE	33	22	39.78867	0.00001	33	22	39.78868
4	0712	LONGITUDE	-112	4	59.91412	-0.00001	-112	4	59.91414
4	0712	HEIGHT			352.16773	0.00007			352.16781
4	0520	LATITUDE	33	26	38.32855	-0.00000	33	26	38.32855
4	0520	LONGITUDE	-111	51	22.62871	-0.00000	-111	51	22.62872
4	0520	HEIGHT			367.16358	0.00000			367.16358
4	0901	LATITUDE	33	25	45.08771	-0.00000	33	25	45.08771
4	0901	LONGITUDE	-111	54	32.63514	-0.00000	-111	54	32.63514

Station:

CODE	IDENT.	TYPE			INITIAL	DX			UPDATED
4	0901	HEIGHT			357.30528	0.00000			357.30528
4	0306	LATITUDE	33	26	37.83855	-0.00000	33	26	37.83855
4	0306	LONGITUDE	-111	58	42.36833	-0.00000	-111	58	42.36833
4	0306	HEIGHT			351.70668	0.00019			351.70687
4	0307	LATITUDE	33	26	36.44177	-0.00000	33	26	36.44177
4	0307	LONGITUDE	-112	0	6.19149	-0.00000	-112	0	6.19149
4	0307	HEIGHT			342.56019	0.00019			342.56039
4	0303	LATITUDE	33	26	39.21604	-0.00000	33	26	39.21603
4	0303	LONGITUDE	-111	54	34.93639	0.00000	-111	54	34.93639
4	0303	HEIGHT			360.03805	0.00002			360.03807
4	0302	LATITUDE	33	27	4.57131	-0.00000	33	27	4.57131
4	0302	LONGITUDE	-111	54	33.35333	0.00000	-111	54	33.35333
4	0302	HEIGHT			362.30093	0.00002			362.30095
4	0516	LATITUDE	33	28	23.86099	-0.00000	33	28	23.86099
4	0516	LONGITUDE	-111	51	24.15108	0.00000	-111	51	24.15108
4	0516	HEIGHT			375.35123	0.00002			375.3512
4	0304	LATITUDE	33	26	38.45179	-0.00000	33	26	38.45179
4	0304	LONGITUDE	-111	55	35.15845	0.00000	-111	55	35.15845
4	0304	HEIGHT			361.92406	0.00002			361.92408
4	0508	LATITUDE	33	29	43.42662	-0.00000	33	29	43.42662
4	0508	LONGITUDE	-111	45	9.84999	-0.00000	-111	45	9.84999
4	0508	HEIGHT			388.77817	0.00002			388.77819
4	0514	LATITUDE	33	29	16.69622	-0.00000	33	29	16.69622
4	0514	LONGITUDE	-111	49	19.53526	-0.00000	-111	49	19.53526
4	0514	HEIGHT			384.69954	0.00002			384.69956
4	0527	LATITUDE	33	28	51.26358	-0.00000	33	28	51.26358
4	0527	LONGITUDE	-111	47	14.93900	-0.00000	-111	47	14.93900
4	0527	HEIGHT			382.31830	0.00002			382.31833
4	0504	LATITUDE	33	31	1.74795	-0.00000	33	31	1.74795
4	0504	LONGITUDE	-111	43	5.15856	-0.00000	-111	43	5.15856
4	0504	HEIGHT			406.52456	0.00002			406.52458
4	0505	LATITUDE	33	30	35.59074	-0.00000	33	30	35.59074
4	0505	LONGITUDE	-111	43	5.17774	-0.00000	-111	43	5.17774
4	0505	HEIGHT			397.57595	0.00002			397.57597

CODE	IDENT.	TYPE	INITIAL			DX	UPDATED		
4	0531	LATITUDE	33	29	43.38998	-0.00000	33	29	43.38997
4	0531	LONGITUDE	-111	43	12.57893	-0.00000	-111	43	12.57893
4	0531	HEIGHT			398.81115	0.00002			398.81117
4	0530	LATITUDE	33	28	51.57789	-0.00000	33	28	51.57789
4	0530	LONGITUDE	-111	43	6.38668	-0.00000	-111	43	6.38668
4	0530	HEIGHT			418.51747	0.00002			418.51749
4	0525	LATITUDE	33	27	32.72942	-0.00000	33	27	32.72942
4	0525	LONGITUDE	-111	47	15.22778	0.00002	-111	47	15.22776
4	0525	HEIGHT			393.94294	0.00013			393.94307
4	0515	LATITUDE	33	29	16.40620	0.00000	33	29	16.40620
4	0515	LONGITUDE	-111	50	21.85252	-0.00000	-111	50	21.85252
4	0515	HEIGHT			381.62775	0.00001			381.62776
4	0507	LATITUDE	33	30	35.63473	0.00000	33	30	35.63473
4	0507	LONGITUDE	-111	45	9.90197	-0.00000	-111	45	9.90197
4	0507	HEIGHT			393.58053	0.00001			393.58054
[illegible]	0511	LATITUDE	33	29	58.74972	0.00000	33	29	58.74972
[illegible]	0511	LONGITUDE	-111	47	58.76448	-0.00000	-111	47	58.76448
[illegible]	0511	HEIGHT			389.78491	0.00001			389.78492
4	0501	LATITUDE	33	31	27.87518	0.00000	33	31	27.87518
4	0501	LONGITUDE	-111	41	0.52043	-0.00000	-111	41	0.52043
4	0501	HEIGHT			404.73503	0.00001			404.73504
4	0502	LATITUDE	33	31	30.33124	0.00000	33	31	30.33124
4	0502	LONGITUDE	-111	42	6.79246	-0.00000	-111	42	6.79246
4	0502	HEIGHT			435.11934	0.00001			435.11935
4	0533	LATITUDE	33	30	35.43142	0.00000	33	30	35.43142
4	0533	LONGITUDE	-111	41	2.12702	-0.00000	-111	41	2.12702
4	0533	HEIGHT			424.43875	0.00001			424.43876
4	0532	LATITUDE	33	30	13.22286	0.00000	33	30	13.22286
4	0532	LONGITUDE	-111	41	2.12597	-0.00000	-111	41	2.12598
4	0532	HEIGHT			462.79259	0.00001			462.79260

SOLVE successfully completed.

F: EQ:

FORMEQ successfully completed.

A 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

S =

Adjusted Values (Iteration Count = 3):

CODE	IDENT.	TYPE	INITIAL			DX	ADJUSTED		
14	0013	LATITUDE	33	27	49.89516	FIXED			
14	0013	LONGITUDE	-112	5	20.82657	FIXED			
4	0013	HEIGHT			329.50000	FIXED			
4	0001	LATITUDE	33	22	37.82093	-0.00000	33	22	37.82093
4	0001	LONGITUDE	-112	18	21.99996	0.00000	-112	18	21.99996
4	0001	HEIGHT			353.08085	-0.00000			353.08085
4	0015	LATITUDE	33	32	50.38750	0.00000	33	32	50.38750
4	0015	LONGITUDE	-112	1	15.56884	0.00000	-112	1	15.56884
4	0015	HEIGHT			794.79600	0.00000			794.79600
4	0007	LATITUDE	33	24	59.04479	-0.00000	33	24	59.04479
4	0007	LONGITUDE	-112	52	31.59652	-0.00000	-112	52	31.59652
4	0007	HEIGHT			365.88787	0.00000			365.88787
4	0009	LATITUDE	33	31	13.06632	0.00000	33	31	13.06632
4	0009	LONGITUDE	-112	21	43.13019	0.00000	-112	21	43.13019
4	0009	HEIGHT			340.68337	-0.00000			340.68337
4	0019	LATITUDE	33	28	28.99448	0.00000	33	28	28.99448
4	0019	LONGITUDE	-111	45	6.62970	-0.00000	-111	45	6.62970
4	0019	HEIGHT			410.91804	-0.00000			410.91804
4	0021	LATITUDE	33	24	24.40604	0.00000	33	24	24.40604
4	0021	LONGITUDE	-111	58	2.30833	-0.00000	-111	58	2.30833
4	0021	HEIGHT			414.19408	-0.00000			414.19408
4	0005	LATITUDE	33	18	24.53886	-0.00000	33	18	24.53886
4	0005	LONGITUDE	-112	44	5.72520	0.00000	-112	44	5.72520
4	0005	HEIGHT			393.61336	0.00000			393.61336
4	0301	LATITUDE	33	27	30.88366	0.00000	33	27	30.88366
4	0301	LONGITUDE	-111	53	30.91614	0.00000	-111	53	30.91614
4	0301	HEIGHT			363.57991	0.00000			363.57991
4	0513	LATITUDE	33	29	42.79929	0.00000	33	29	42.79929
4	0513	LONGITUDE	-111	49	19.50598	0.00000	-111	49	19.50598
4	0513	HEIGHT			387.58223	-0.00000			387.58223
4	0705	LATITUDE	33	21	49.14844	-0.00000	33	21	49.14844
4	0705	LONGITUDE	-111	58	28.16179	0.00000	-111	58	28.16179
4	0705	HEIGHT			399.70257	-0.00000			399.70257

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

S: E:

CODE	IDENT.	TYPE	INITIAL			DX	ADJUSTED		
4	0326	LATITUDE	33	22	38.48052	-0.00000	33	22	38.48052
4	0326	LONGITUDE	-112	12	8.84458	0.00000	-112	12	8.84458
4	0326	HEIGHT			302.93896	0.00000			302.93896
4	0711	LATITUDE	33	21	26.20822	0.00000	33	21	26.20822
4	0711	LONGITUDE	-112	4	21.59508	0.00000	-112	4	21.59508
4	0711	HEIGHT			398.05905	0.00000			398.05905
4	0192	LATITUDE	33	24	23.29762	0.00000	33	24	23.29762
4	0192	LONGITUDE	-112	16	20.18447	-0.00000	-112	16	20.18447
4	0192	HEIGHT			300.06878	-0.00000			300.06878
4	0129	LATITUDE	33	20	54.64706	-0.00000	33	20	54.64706
4	0129	LONGITUDE	-112	42	42.51491	-0.00000	-112	42	42.51491
4	0129	HEIGHT			254.06625	-0.00000			254.06625
4	0141	LATITUDE	33	14	54.00009	-0.00000	33	14	54.00009
4	0141	LONGITUDE	-112	48	24.23339	0.00000	-112	48	24.23339
4	0141	HEIGHT			245.22451	0.00000			245.22451
4	0161	LATITUDE	33	19	10.45160	0.00000	33	19	10.4516[illegible]
	0161	LONGITUDE	-112	36	29.44805	-0.00000	-112	36	29.4480[illegible]
	0161	HEIGHT			265.46467	-0.00000			265.46467
4	0172	LATITUDE	33	20	28.42604	0.00000	33	20	28.42604
4	0172	LONGITUDE	-112	28	11.38706	-0.00000	-112	28	11.38706
4	0172	HEIGHT			282.55653	0.00000			282.55653
4	0148	LATITUDE	33	17	4.01380	-0.00000	33	17	4.01380
4	0148	LONGITUDE	-112	44	44.40997	-0.00000	-112	44	44.40997
4	0148	HEIGHT			241.00511	-0.00000			241.00511
4	0150	LATITUDE	33	18	18.33918	-0.00000	33	18	18.33918
4	0150	LONGITUDE	-112	43	51.60752	0.00000	-112	43	51.60752
4	0150	HEIGHT			240.93559	0.00000			240.93559
4	0153	LATITUDE	33	19	35.74080	-0.00000	33	19	35.74080
4	0153	LONGITUDE	-112	42	40.11598	-0.00000	-112	42	40.11598
4	0153	HEIGHT			245.96393	-0.00000			245.96393
4	0136	LATITUDE	33	18	16.53681	0.00000	33	18	16.53681
4	0136	LONGITUDE	-112	47	35.13597	-0.00000	-112	47	35.13597
4	0136	HEIGHT			242.82112	0.00000			242.82112
4	0137	LATITUDE	33	17	10.37154	-0.00000	33	17	10.37154
4	0137	LONGITUDE	-112	48	33.66056	0.00000	-112	48	33.66056

Adjusted Values:

CODE	IDENT.	TYPE			INITIAL	DX			ADJUSTED
4	0137	HEIGHT			241.19594	0.00000			241.19594
4	0140	LATITUDE	33	15	50.59797	0.00000	33	15	50.59797
4	0140	LONGITUDE	-112	48	2.72781	0.00000	-112	48	2.72781
4	0140	HEIGHT			237.97131	-0.00000			237.97131
4	0132	LATITUDE	33	19	32.58216	0.00000	33	19	32.58216
4	0132	LONGITUDE	-112	45	49.37120	0.00000	-112	45	49.37120
4	0132	HEIGHT			243.73170	0.00000			243.73170
4	0133	LATITUDE	33	19	35.33418	-0.00000	33	19	35.33418
4	0133	LONGITUDE	-112	46	51.68230	0.00000	-112	46	51.68230
4	0133	HEIGHT			252.72165	0.00000			252.72165
4	0123	LATITUDE	33	22	12.37414	0.00000	33	22	12.37414
4	0123	LONGITUDE	-112	38	32.06684	-0.00000	-112	38	32.06684
4	0123	HEIGHT			267.52243	0.00000			267.52243
4	0124	LATITUDE	33	21	46.12131	-0.00000	33	21	46.12131
4	0124	LONGITUDE	-112	39	35.73311	0.00000	-112	39	35.73311
4	0124	HEIGHT			262.52288	-0.00000			262.52288
4	0142	LATITUDE	33	14	42.68118	-0.00000	33	14	42.68118
4	0142	LONGITUDE	-112	47	14.59395	-0.00000	-112	47	14.59395
4	0142	HEIGHT			232.70056	0.00000			232.70056
4	0119	LATITUDE	33	22	38.78190	0.00000	33	22	38.78190
4	0119	LONGITUDE	-112	33	52.23222	-0.00000	-112	33	52.23222
4	0119	HEIGHT			266.55769	0.00000			266.55769
4	0164	LATITUDE	33	20	54.74793	-0.00000	33	20	54.74793
4	0164	LONGITUDE	-112	36	28.98787	-0.00000	-112	36	28.98787
4	0164	HEIGHT			252.57349	-0.00000			252.57349
4	0116	LATITUDE	33	22	13.03459	0.00000	33	22	13.03459
4	0116	LONGITUDE	-112	31	16.35383	-0.00000	-112	31	16.35383
4	0116	HEIGHT			262.00737	0.00000			262.00737
4	0120	LATITUDE	33	22	13.71255	-0.00000	33	22	13.71255
4	0120	LONGITUDE	-112	34	24.29501	0.00000	-112	34	24.29501
4	0120	HEIGHT			261.96687	-0.00000			261.96687
4	0160	LATITUDE	33	18	19.27935	-0.00000	33	18	19.27935
4	0160	LONGITUDE	-112	37	31.41912	0.00000	-112	37	31.41912
4	0160	HEIGHT			269.89381	-0.00000			269.89381

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

S E:

CODE	IDENT.	TYPE	INITIAL			DX	ADJUSTED		
4	0125	LATITUDE	33	20	53.83505	-0.00000	33	20	53.83505
4	0125	LONGITUDE	-112	39	35.44214	-0.00000	-112	39	35.44214
4	0125	HEIGHT			252.80317	0.00000			252.80317
4	0126	LATITUDE	33	20	2.59450	-0.00000	33	20	2.59450
4	0126	LONGITUDE	-112	39	35.18515	-0.00000	-112	39	35.18515
4	0126	HEIGHT			245.08104	-0.00000			245.08104
4	0151	LATITUDE	33	18	18.78636	0.00000	33	18	18.78636
4	0151	LONGITUDE	-112	42	42.25143	-0.00000	-112	42	42.25143
4	0151	HEIGHT			241.90142	-0.00000			241.90142
4	0152	LATITUDE	33	18	19.19974	-0.00000	33	18	19.19974
4	0152	LONGITUDE	-112	41	40.20980	0.00000	-112	41	40.20980
4	0152	HEIGHT			250.10245	0.00000			250.10245
4	0144	LATITUDE	33	13	36.47915	-0.00000	33	13	36.47915
4	0144	LONGITUDE	-112	46	26.01846	-0.00000	-112	46	26.01846
4	0144	HEIGHT			236.86495	-0.00000			236.86495
4	0162	LATITUDE	33	19	37.44982	-0.00000	33	19	37.4498[illegible]
	0162	LONGITUDE	-112	35	55.29868	0.00000	-112	35	55.2986[illegible]
	0162	HEIGHT			254.37932	-0.00000			254.37932
4	0163	LATITUDE	33	20	0.66695	-0.00000	33	20	0.66695
4	0163	LONGITUDE	-112	35	27.60756	-0.00000	-112	35	27.60756
4	0163	HEIGHT			255.27664	-0.00000			255.27664
4	0145	LATITUDE	33	13	38.53068	-0.00000	33	13	38.53068
4	0145	LONGITUDE	-112	45	56.08971	-0.00000	-112	45	56.08971
4	0145	HEIGHT			228.49190	-0.00000			228.49190
4	0107	LATITUDE	33	23	30.54211	-0.00000	33	23	30.54211
4	0107	LONGITUDE	-112	25	36.42566	-0.00000	-112	25	36.42566
4	0107	HEIGHT			270.92443	-0.00000			270.92443
4	0113	LATITUDE	33	22	13.09418	0.00000	33	22	13.09418
4	0113	LONGITUDE	-112	28	40.68158	-0.00000	-112	28	40.68158
4	0113	HEIGHT			268.25437	-0.00000			268.25437
4	0146	LATITUDE	33	14	25.45739	0.00000	33	14	25.45739
4	0146	LONGITUDE	-112	45	39.75382	-0.00000	-112	45	39.75382
4	0146	HEIGHT			233.65257	-0.00000			233.65257
4	0112	LATITUDE	33	23	31.43520	0.00000	33	23	31.43520
4	0112	LONGITUDE	-112	28	43.63119	-0.00000	-112	28	43.63119

A[illegible]ted Values:

CODE	IDENT.	TYPE			INITIAL	DX			ADJUSTED
4	0112	HEIGHT			268.40883	-0.00000			268.40883
4	0111	LATITUDE	33	23	56.34865	-0.00000	33	23	56.34865
4	0111	LONGITUDE	-112	28	43.64549	0.00000	-112	28	43.64549
4	0111	HEIGHT			273.35679	0.00000			273.35679
4	0115	LATITUDE	33	23	31.56743	-0.00000	33	23	31.56743
4	0115	LONGITUDE	-112	30	15.16812	0.00000	-112	30	15.16812
4	0115	HEIGHT			270.47166	-0.00000			270.47166
4	0117	LATITUDE	33	23	5.65061	-0.00000	33	23	5.65061
4	0117	LONGITUDE	-112	32	19.30002	0.00000	-112	32	19.30002
4	0117	HEIGHT			267.59660	-0.00000			267.59660
4	0169	LATITUDE	33	20	46.43720	-0.00000	33	20	46.43720
4	0169	LONGITUDE	-112	31	17.18155	-0.00000	-112	31	17.18155
4	0169	HEIGHT			261.39554	0.00000			261.39554
4	0173	LATITUDE	33	20	54.50096	-0.00000	33	20	54.50096
4	0173	LONGITUDE	-112	28	11.53618	0.00000	-112	28	11.53618
[illegible]	0173	HEIGHT			279.12875	0.00000			279.12875
4	0108	LATITUDE	33	24	23.75177	-0.00000	33	24	23.75177
4	0108	LONGITUDE	-112	26	38.90283	-0.00000	-112	26	38.90283
4	0108	HEIGHT			274.46053	-0.00000			274.46053
4	0147	LATITUDE	33	15	44.97048	0.00000	33	15	44.97048
4	0147	LONGITUDE	-112	45	46.36940	-0.00000	-112	45	46.36940
4	0147	HEIGHT			232.09563	-0.00000			232.09563
4	0702	LATITUDE	33	24	27.11231	0.00000	33	24	27.11231
4	0702	LONGITUDE	-111	56	38.18971	-0.00000	-111	56	38.18971
4	0702	HEIGHT			353.82922	-0.00000			353.82922
4	0902	LATITUDE	33	25	43.69157	0.00000	33	25	43.69157
4	0902	LONGITUDE	-111	55	34.61084	-0.00000	-111	55	34.61084
4	0902	HEIGHT			354.38103	-0.00000			354.38103
4	0178	LATITUDE	33	21	45.94905	0.00000	33	21	45.94905
4	0178	LONGITUDE	-112	25	32.72668	0.00000	-112	25	32.72668
4	0178	HEIGHT			291.96529	-0.00000			291.96529
4	0176	LATITUDE	33	21	46.04021	0.00000	33	21	46.04021
4	0176	LONGITUDE	-112	26	3.96458	0.00000	-112	26	3.96458
4	0176	HEIGHT			287.93997	0.00000			287.93997

S /E:

CODE	IDENT.	TYPE	INITIAL			DX	ADJUSTED		
4	0519	LATITUDE	33	25	45.84015	-0.00000	33	25	45.84015
4	0519	LONGITUDE	-111	51	22.78631	0.00000	-111	51	22.78631
4	0519	HEIGHT			375.95623	-0.00000			375.95623
4	0342	LATITUDE	33	25	16.30767	-0.00000	33	25	16.30767
4	0342	LONGITUDE	-111	55	34.73720	0.00000	-111	55	34.73720
4	0342	HEIGHT			358.17206	0.00000			358.17206
4	0903	LATITUDE	33	25	44.75510	0.00000	33	25	44.75510
4	0903	LONGITUDE	-111	57	8.41139	0.00000	-111	57	8.41139
4	0903	HEIGHT			351.75483	-0.00000			351.75483
4	0168	LATITUDE	33	20	2.56089	-0.00000	33	20	2.56089
4	0168	LONGITUDE	-112	31	18.15532	-0.00000	-112	31	18.15532
4	0168	HEIGHT			274.06225	0.00000			274.06225
4	0134	LATITUDE	33	19	13.21224	0.00000	33	19	13.21224
4	0134	LONGITUDE	-112	47	35.87401	-0.00000	-112	47	35.87401
4	0134	HEIGHT			245.59130	-0.00000			245.59130
4	0526	LATITUDE	33	27	59.02958	0.00000	33	27	59.029[illegible]
	0526	LONGITUDE	-111	47	14.91518	0.00000	-111	47	14.915[illegible]
	0526	HEIGHT			382.62142	0.00000			382.62142
4	0529	LATITUDE	33	29	15.74751	0.00000	33	29	15.74751
4	0529	LONGITUDE	-111	43	37.46888	0.00000	-111	43	37.46888
4	0529	HEIGHT			398.92602	0.00000			398.92602
4	0102	LATITUDE	33	24	48.08573	-0.00000	33	24	48.08573
4	0102	LONGITUDE	-112	19	24.59715	-0.00000	-112	19	24.59715
4	0102	HEIGHT			289.29192	0.00000			289.29192
4	0104	LATITUDE	33	24	49.56144	-0.00000	33	24	49.56144
4	0104	LONGITUDE	-112	22	30.25727	-0.00000	-112	22	30.25727
4	0104	HEIGHT			286.82421	0.00000			286.82421
4	0193	LATITUDE	33	24	49.42334	-0.00000	33	24	49.42334
4	0193	LONGITUDE	-112	17	22.01990	0.00000	-112	17	22.01990
4	0193	HEIGHT			293.91599	0.00000			293.91599
4	0522	LATITUDE	33	27	5.34020	-0.00000	33	27	5.34020
4	0522	LONGITUDE	-111	49	20.74251	-0.00000	-111	49	20.74251
4	0522	HEIGHT			373.38564	0.00000			373.38564
4	0180	LATITUDE	33	22	51.54886	-0.00000	33	22	51.54886
4	0180	LONGITUDE	-112	22	31.06057	-0.00000	-112	22	31.06057

Adjusted Values:

CODE	IDENT.	TYPE	INITIAL			DX			ADJUSTED
4	0180	HEIGHT			284.43465	0.00000			284.43465
4	0181	LATITUDE	33	23	33.32127	0.00000	33	23	33.32127
4	0181	LONGITUDE	-112	22	30.83863	0.00000	-112	22	30.83863
4	0181	HEIGHT			281.15045	-0.00000			281.15045
4	0184	LATITUDE	33	23	30.48193	0.00000	33	23	30.48193
4	0184	LONGITUDE	-112	19	23.72853	-0.00000	-112	19	23.72853
4	0184	HEIGHT			284.97048	-0.00000			284.97048
4	0191	LATITUDE	33	23	32.33826	-0.00000	33	23	32.33826
4	0191	LONGITUDE	-112	16	19.62271	-0.00000	-112	16	19.62271
4	0191	HEIGHT			292.64550	0.00000			292.64550
4	0127	LATITUDE	33	21	20.40532	0.00000	33	21	20.40532
4	0127	LONGITUDE	-112	40	37.15975	-0.00000	-112	40	37.15975
4	0127	HEIGHT			260.44244	-0.00000			260.44244
4	0130	LATITUDE	33	20	29.33790	0.00000	33	20	29.33790
4	0130	LONGITUDE	-112	44	15.71005	-0.00000	-112	44	15.71005
4	0130	HEIGHT			282.58013	0.00000			282.58013
4	0156	LATITUDE	33	18	44.88387	-0.00000	33	18	44.88387
4	0156	LONGITUDE	-112	39	35.68370	0.00000	-112	39	35.68370
4	0156	HEIGHT			250.88012	-0.00000			250.88012
4	0523	LATITUDE	33	27	59.13305	0.00000	33	27	59.13305
4	0523	LONGITUDE	-111	49	21.64969	-0.00000	-111	49	21.64969
4	0523	HEIGHT			374.17347	-0.00000			374.17347
4	0517	LATITUDE	33	27	57.79636	0.00000	33	27	57.79636
4	0517	LONGITUDE	-111	51	24.88264	0.00000	-111	51	24.88264
4	0517	HEIGHT			371.82929	0.00000			371.82929
4	0344	LATITUDE	33	25	19.55019	-0.00000	33	25	19.55019
4	0344	LONGITUDE	-111	52	58.85898	-0.00000	-111	52	58.85898
4	0344	HEIGHT			363.34483	-0.00000			363.34483
4	0185	LATITUDE	33	22	11.78693	0.00000	33	22	11.78693
4	0185	LONGITUDE	-112	19	23.76432	-0.00000	-112	19	23.76432
4	0185	HEIGHT			293.08220	-0.00000			293.08220
4	0318	LATITUDE	33	24	54.96862	0.00000	33	24	54.96862
4	0318	LONGITUDE	-112	11	11.39982	0.00000	-112	11	11.39982
4	0318	HEIGHT			309.12199	0.00000			309.12199

SOLVE:

CODE	IDENT.	TYPE			INITIAL	DX			ADJUSTED
4	0320	LATITUDE	33	24	30.38030	-0.00000	33	24	30.38030
4	0320	LONGITUDE	-112	13	17.00873	-0.00000	-112	13	17.00873
4	0320	HEIGHT			302.99046	-0.00000			302.99046
4	0322	LATITUDE	33	24	0.39240	0.00000	33	24	0.39240
4	0322	LONGITUDE	-112	14	13.09650	0.00000	-112	14	13.09650
4	0322	HEIGHT			299.11449	-0.00000			299.11449
4	0317	LATITUDE	33	25	20.03784	-0.00000	33	25	20.03784
4	0317	LONGITUDE	-112	10	9.57371	0.00000	-112	10	9.57371
4	0317	HEIGHT			311.85615	0.00000			311.85615
4	0190	LATITUDE	33	22	38.71919	-0.00000	33	22	38.71919
4	0190	LONGITUDE	-112	16	19.07865	-0.00000	-112	16	19.07865
4	0190	HEIGHT			292.45990	-0.00000			292.45990
4	0321	LATITUDE	33	23	30.67257	-0.00000	33	23	30.67257
4	0321	LONGITUDE	-112	13	11.78612	0.00000	-112	13	11.78612
4	0321	HEIGHT			299.20297	0.00000			299.20297
4	0328	LATITUDE	33	23	30.71645	-0.00000	33	23	30.7164[illegible]
4	0328	LONGITUDE	-112	11	7.71945	-0.00000	-112	11	7.7194[illegible]
4	0328	HEIGHT			306.42073	-0.00000			306.42073
4	0327	LATITUDE	33	23	4.85909	0.00000	33	23	4.85909
4	0327	LONGITUDE	-112	11	8.01771	-0.00000	-112	11	8.01771
4	0327	HEIGHT			305.47499	-0.00000			305.47499
4	0330	LATITUDE	33	23	31.33600	0.00000	33	23	31.33600
4	0330	LONGITUDE	-112	9	3.22760	0.00000	-112	9	3.22760
4	0330	HEIGHT			311.00086	-0.00000			311.00086
4	0331	LATITUDE	33	23	57.76881	-0.00000	33	23	57.76881
4	0331	LONGITUDE	-112	8	1.11115	0.00000	-112	8	1.11115
4	0331	HEIGHT			314.63531	0.00000			314.63531
4	0313	LATITUDE	33	25	41.04134	-0.00000	33	25	41.04134
4	0313	LONGITUDE	-112	5	59.46863	0.00000	-112	5	59.46863
4	0313	HEIGHT			322.95914	0.00000			322.95914
4	0312	LATITUDE	33	25	41.13542	-0.00000	33	25	41.13542
4	0312	LONGITUDE	-112	4	56.81374	0.00000	-112	4	56.81374
4	0312	HEIGHT			325.95946	0.00000			325.95946
4	0315	LATITUDE	33	25	20.83314	0.00000	33	25	20.83314
4	0315	LONGITUDE	-112	8	4.31102	-0.00000	-112	8	4.31102

6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

ted Values:

CODE	IDENT.	TYPE			INITIAL	DX			ADJUSTED
4	0315	HEIGHT			316.48950	0.00000			316.48950
4	0308	LATITUDE	33	26	10.55760	0.00000	33	26	10.55760
4	0308	LONGITUDE	-112	0	40.42605	-0.00000	-112	0	40.42605
4	0308	HEIGHT			340.54324	-0.00000			340.54324
4	0803	LATITUDE	33	26	12.35891	-0.00000	33	26	12.35891
4	0803	LONGITUDE	-112	1	48.95094	-0.00000	-112	1	48.95094
4	0803	HEIGHT			336.34680	0.00000			336.34680
4	0309	LATITUDE	33	25	46.23986	-0.00000	33	25	46.23986
4	0309	LONGITUDE	-112	1	49.23676	0.00000	-112	1	49.23676
4	0309	HEIGHT			335.40163	-0.00000			335.40163
4	0310	LATITUDE	33	25	20.12554	0.00000	33	25	20.12554
4	0310	LONGITUDE	-112	1	49.52108	-0.00000	-112	1	49.52108
4	0310	HEIGHT			334.08129	-0.00000			334.08129
4	0336	LATITUDE	33	24	24.88150	0.00000	33	24	24.88150
4	0336	LONGITUDE	-112	1	47.29996	0.00000	-112	1	47.29996
4	0336	HEIGHT			335.63076	-0.00000			335.63076
4	0334	LATITUDE	33	24	24.11955	0.00000	33	24	24.11955
4	0334	LONGITUDE	-112	4	55.20039	-0.00000	-112	4	55.20039
4	0334	HEIGHT			325.21549	-0.00000			325.21549
4	0801	LATITUDE	33	24	24.19483	-0.00000	33	24	24.19483
4	0801	LONGITUDE	-112	4	24.10110	-0.00000	-112	4	24.10110
4	0801	HEIGHT			326.88402	-0.00000			326.88402
4	0802	LATITUDE	33	24	24.25403	0.00000	33	24	24.25403
4	0802	LONGITUDE	-112	3	20.98550	0.00000	-112	3	20.98550
4	0802	HEIGHT			329.32535	-0.00000			329.32535
4	0332	LATITUDE	33	24	23.03441	0.00000	33	24	23.03441
4	0332	LONGITUDE	-112	8	2.32161	-0.00000	-112	8	2.32161
4	0332	HEIGHT			315.27723	0.00000			315.27723
4	0187	LATITUDE	33	21	46.54823	0.00000	33	21	46.54823
4	0187	LONGITUDE	-112	18	22.70024	-0.00000	-112	18	22.70024
4	0187	HEIGHT			308.97001	-0.00000			308.97001
4	0189	LATITUDE	33	21	39.52796	0.00000	33	21	39.52796
4	0189	LONGITUDE	-112	15	30.86013	0.00000	-112	15	30.86013
4	0189	HEIGHT			294.01126	0.00000			294.01126

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.100

S 'E:

CODE	IDENT.	TYPE			INITIAL	DX			ADJUSTED
4	0325	LATITUDE	33	22	12.42333	0.00000	33	22	12.42333
4	0325	LONGITUDE	-112	13	12.39093	0.00000	-112	13	12.39093
4	0325	HEIGHT			299.47127	0.00000			299.47127
4	0186	LATITUDE	33	22	11.65479	-0.00000	33	22	11.65479
4	0186	LONGITUDE	-112	18	22.08186	-0.00000	-112	18	22.08186
4	0186	HEIGHT			292.59331	0.00000			292.59331
4	0339	LATITUDE	33	24	50.43529	0.00000	33	24	50.43529
4	0339	LONGITUDE	-111	58	41.17406	-0.00000	-111	58	41.17406
4	0339	HEIGHT			347.50290	-0.00000			347.50290
4	0340	LATITUDE	33	25	17.96282	-0.00000	33	25	17.96282
4	0340	LONGITUDE	-111	58	38.80406	0.00000	-111	58	38.80406
4	0340	HEIGHT			346.13995	-0.00000			346.13995
4	0804	LATITUDE	33	25	18.77667	-0.00000	33	25	18.77667
4	0804	LONGITUDE	-111	59	43.64063	0.00000	-111	59	43.64063
4	0804	HEIGHT			340.96799	0.00000			340.96799
4	0805	LATITUDE	33	24	52.49144	0.00000	33	24	52.491[illegible]
	0805	LONGITUDE	-111	59	43.47864	-0.00000	-111	59	43.478[illegible]
	0805	HEIGHT			342.60190	-0.00000			342.60190
4	0707	LATITUDE	33	22	28.93955	0.00000	33	22	28.93955
4	0707	LONGITUDE	-111	59	53.98008	-0.00000	-111	59	53.98008
4	0707	HEIGHT			371.92388	0.00000			371.92388
4	0708	LATITUDE	33	22	40.81596	0.00000	33	22	40.81596
4	0708	LONGITUDE	-112	0	46.07429	0.00000	-112	0	46.07429
4	0708	HEIGHT			358.75481	0.00000			358.75481
4	0703	LATITUDE	33	22	41.57558	-0.00000	33	22	41.57558
4	0703	LONGITUDE	-111	56	37.94168	0.00000	-111	56	37.94168
4	0703	HEIGHT			359.84213	0.00000			359.84213
4	0704	LATITUDE	33	21	49.16676	0.00000	33	21	49.16676
4	0704	LONGITUDE	-111	56	45.19105	-0.00000	-111	56	45.19105
4	0704	HEIGHT			364.56787	0.00000			364.56787
4	0712	LATITUDE	33	22	39.78868	0.00000	33	22	39.78868
4	0712	LONGITUDE	-112	4	59.91414	-0.00000	-112	4	59.91414
4	0712	HEIGHT			352.16781	-0.00000			352.16781
4	0520	LATITUDE	33	26	38.32855	0.00000	33	26	38.32855
4	0520	LONGITUDE	-111	51	22.62872	-0.00000	-111	51	22.62872

Adjusted Values:

ODE	IDENT.	TYPE			INITIAL	DX			ADJUSTED
4	0520	HEIGHT			367.16358	-0.00000			367.16358
4	0901	LATITUDE	33	25	45.08771	0.00000	33	25	45.08771
4	0901	LONGITUDE	-111	54	32.63514	0.00000	-111	54	32.63514
4	0901	HEIGHT			357.30528	-0.00000			357.30528
4	0306	LATITUDE	33	26	37.83855	-0.00000	33	26	37.83855
4	0306	LONGITUDE	-111	58	42.36833	-0.00000	-111	58	42.36833
4	0306	HEIGHT			351.70687	0.00000			351.70687
4	0307	LATITUDE	33	26	36.44177	-0.00000	33	26	36.44177
4	0307	LONGITUDE	-112	0	6.19149	-0.00000	-112	0	6.19149
4	0307	HEIGHT			342.56039	0.00000			342.56039
4	0303	LATITUDE	33	26	39.21603	0.00000	33	26	39.21603
4	0303	LONGITUDE	-111	54	34.93639	-0.00000	-111	54	34.93639
4	0303	HEIGHT			360.03807	0.00000			360.03807
4	0302	LATITUDE	33	27	4.57131	-0.00000	33	27	4.57131
4	0302	LONGITUDE	-111	54	33.35333	0.00000	-111	54	33.35333
4	0302	HEIGHT			362.30095	0.00000			362.30095
4	0516	LATITUDE	33	28	23.86099	-0.00000	33	28	23.86099
4	0516	LONGITUDE	-111	51	24.15108	-0.00000	-111	51	24.15108
4	0516	HEIGHT			375.35124	0.00000			375.35124
4	0304	LATITUDE	33	26	38.45179	-0.00000	33	26	38.45179
4	0304	LONGITUDE	-111	55	35.15845	-0.00000	-111	55	35.15845
4	0304	HEIGHT			361.92408	0.00000			361.92408
4	0508	LATITUDE	33	29	43.42662	0.00000	33	29	43.42662
4	0508	LONGITUDE	-111	45	9.84999	0.00000	-111	45	9.84999
4	0508	HEIGHT			388.77819	0.00000			388.77819
4	0514	LATITUDE	33	29	16.69622	-0.00000	33	29	16.69622
4	0514	LONGITUDE	-111	49	19.53526	0.00000	-111	49	19.53526
4	0514	HEIGHT			384.69956	0.00000			384.69956
4	0527	LATITUDE	33	28	51.26358	-0.00000	33	28	51.26358
4	0527	LONGITUDE	-111	47	14.93900	0.00000	-111	47	14.93900
4	0527	HEIGHT			382.31833	0.00000			382.31833
4	0504	LATITUDE	33	31	1.74795	-0.00000	33	31	1.74795
4	0504	LONGITUDE	-111	43	5.15856	0.00000	-111	43	5.15856
4	0504	HEIGHT			406.52458	0.00000			406.52458

C JE:

CODE	IDENT.	TYPE			INITIAL	DX			ADJUSTED
4	0505	LATITUDE	33	30	35.59074	0.00000	33	30	35.59074
4	0505	LONGITUDE	-111	43	5.17774	0.00000	-111	43	5.17774
4	0505	HEIGHT			397.57597	0.00000			397.57597
4	0531	LATITUDE	33	29	43.38997	-0.00000	33	29	43.38997
4	0531	LONGITUDE	-111	43	12.57893	-0.00000	-111	43	12.57893
4	0531	HEIGHT			398.81117	-0.00000			398.81117
4	0530	LATITUDE	33	28	51.57789	-0.00000	33	28	51.57789
4	0530	LONGITUDE	-111	43	6.38668	-0.00000	-111	43	6.38668
4	0530	HEIGHT			418.51749	-0.00000			418.51749
4	0525	LATITUDE	33	27	32.72942	0.00000	33	27	32.72942
4	0525	LONGITUDE	-111	47	15.22776	0.00000	-111	47	15.22776
4	0525	HEIGHT			393.94307	-0.00000			393.94307
4	0515	LATITUDE	33	29	16.40620	-0.00000	33	29	16.40620
4	0515	LONGITUDE	-111	50	21.85252	0.00000	-111	50	21.85252
4	0515	HEIGHT			381.62776	-0.00000			381.62776
4	0507	LATITUDE	33	30	35.63473	-0.00000	33	30	35.6347[illegible]
	0507	LONGITUDE	-111	45	9.90197	-0.00000	-111	45	9.901[illegible]
4	0507	HEIGHT			393.58054	-0.00000			393.58054
4	0511	LATITUDE	33	29	58.74972	-0.00000	33	29	58.74972
4	0511	LONGITUDE	-111	47	58.76448	0.00000	-111	47	58.76448
4	0511	HEIGHT			389.78492	-0.00000			389.78492
4	0501	LATITUDE	33	31	27.87518	0.00000	33	31	27.87518
4	0501	LONGITUDE	-111	41	0.52043	-0.00000	-111	41	0.52043
4	0501	HEIGHT			404.73504	0.00000			404.73504
4	0502	LATITUDE	33	31	30.33124	-0.00000	33	31	30.33124
4	0502	LONGITUDE	-111	42	6.79246	-0.00000	-111	42	6.79246
4	0502	HEIGHT			435.11935	0.00000			435.11935
4	0533	LATITUDE	33	30	35.43142	-0.00000	33	30	35.43142
4	0533	LONGITUDE	-111	41	2.12702	-0.00000	-111	41	2.12702
4	0533	HEIGHT			424.43876	-0.00000			424.43876
4	0532	LATITUDE	33	30	13.22286	0.00000	33	30	13.22286
4	0532	LONGITUDE	-111	41	2.12598	0.00000	-111	41	2.12598
4	0532	HEIGHT			462.79260	-0.00000			462.79260

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

Adjusted Cartesian Coordinates:

CODE	IDENT.	X-COORDINATE	Y-COORDINATE	Z-COORDINATE
4	0001	-2023737.5622	-4932883.3438	3489160.3897
14	0013	-2003042.2094	-4935586.9555	3497172.7123
4	0015	-1995401.2844	-4933586.6941	3505149.8285
4	0007	-2071726.6853	-4910334.0011	3492800.1452
4	0009	-2025213.6837	-4922805.9090	3502399.3846
4	0019	-1973732.8448	-4946738.4813	3498222.5404
4	0021	-1993876.0598	-4943135.0335	3491935.8766
4	0005	-2062269.9027	-4921586.4522	3482663.4234
4	0301	-1986174.3811	-4942777.7283	3496702.8284
4	0513	-1979322.3498	-4943132.2312	3500106.2592
4	0705	-1995476.0635	-4945314.8722	3487933.6521
4	0326	-2014790.0879	-4936487.3115	3489149.7744
4	0711	-2004092.4326	-4942247.2938	3487342.4094
4	0192	-2020129.3059	-4932381.5886	3491844.5332
4	0129	-2059258.2037	-4919966.4747	3486450.9945
4	0141	-2069767.9625	-4922164.5473	3477159.0285
4	0161	-2051038.0223	-4925320.2778	3483775.1706
4	0172	-2038639.9914	-4929051.8778	3485791.7835
4	0148	-2063670.1707	-4922337.9791	3480505.9389
	0150	-2061924.2655	-4921706.6414	3482419.9491
	0153	-2059714.1982	-4921216.6349	3484415.5052
	0136	-2067269.1130	-4919498.8146	3482374.5745
4	0137	-2069098.1575	-4919942.3515	3480669.7872
4	0140	-2068881.8378	-4921493.2125	3478613.2110
4	0132	-2064248.6859	-4919372.2850	3484332.9655
4	0133	-2065719.5695	-4918712.4423	3484408.7504
4	0123	-2052780.2039	-4921258.2304	3488458.5889
4	0124	-2054468.8935	-4921031.0456	3487780.3146
4	0142	-2068176.0086	-4923029.6737	3476860.5167
4	0119	-2045929.7084	-4923624.6059	3489137.5133
4	0164	-2050344.0786	-4923684.8087	3486452.7700
4	0116	-2042373.9330	-4925568.9391	3488472.5490
4	0120	-2046856.6650	-4923695.3156	3488489.9707
4	0160	-2052852.2437	-4925506.4868	3482460.0588
4	0125	-2054800.0644	-4921843.8219	3486429.4016
4	0126	-2055125.7329	-4922641.1438	3485106.2868
4	0151	-2060266.6268	-4922393.4468	3482431.9938
4	0152	-2058785.8913	-4923012.7956	3482447.1413
4	0144	-2067450.6555	-4924550.5495	3475156.8157
4	0162	-2050043.3955	-4925229.3531	3484464.1242
4	0163	-2049231.4655	-4925142.3389	3485062.2726
4	0145	-2066719.9756	-4924812.0877	3475205.0993
4	0107	-2033755.3234	-4927720.4824	3490471.5103
4	0113	-2038657.5331	-4927112.8449	3488477.5184
4	0146	-2066025.0436	-4924249.0735	3476417.2267
4	0112	-2038220.2812	-4925856.6868	3490493.0998

S E:

SOLVE successfully completed.

T:

VERT successfully completed.

R :D:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 01133301OPT 1					
0001					
0013	20695.2260	0.3173	0.1268	0.3172	0.3997
	-2703.2920	0.5225	-0.3198	0.5223	-0.6122
	8012.2380	0.1733	0.0847	0.1731	0.4890
========== End of Observation Set ==========					
GROUP: 01153301OPT 2					
0001					
0015	28336.2600	0.0886	0.0178	0.0879	0.2027
	-703.2110	0.1096	-0.1393	0.1081	-1.2884
	15989.4240	0.0353	0.0148	0.0334	0.4433
========== End of Observation Set ==========					
GROUP: 13153301OPT 3					
0013					
0015	7640.9180	0.0124	0.0070	0.0084	0.8416
	2000.2650	0.0178	-0.0036	0.0125	-0.2854
	7977.1080	0.0138	0.0082	0.0107	0.7652
========== End of Observation Set ==========					
GROUP: 01133302OPT 4					
0001					
0013	20695.3600	0.0459	-0.0072	0.0454	-0.1584
	-2703.6390	0.0683	0.0272	0.0670	0.4069
	8012.2680	0.0558	0.0547	0.0551	0.9915
========== End of Observation Set ==========					
GROUP: 01153302OPT 5					
0001					
0015	28336.2950	0.0517	-0.0172	0.0506	-0.3396
	-703.3890	0.0777	0.0387	0.0757	0.5109
	15989.3820	0.0615	0.0568	0.0604	0.9403
========== End of Observation Set ==========					
GROUP: 13153302OPT 6					
0013					
0015	7640.9310	0.0218	-0.0060	0.0197	-0.3026
	2000.2410	0.0324	0.0204	0.0298	0.6859
	7977.1140	0.0267	0.0022	0.0252	0.0855
========== End of Observation Set ==========					
GROUP: 01073371OPT 7					
0001					
0007	-47989.0990	0.1439	-0.0240	0.1418	-0.1694
	22549.1480	0.1878	0.1946	0.1844	1.0553

F :

TATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	3639.6960	0.0626	0.0595	0.0607	0.9806

End of Observation Set

GROUP: 010933710PT 8
001
009

-1476.1570	0.0803	0.0356	0.0735	0.4840
10077.4780	0.1099	-0.0432	0.1003	-0.4310
13238.9790	0.0327	0.0159	0.0263	0.6052

End of Observation Set

GROUP: 011333710PT 9
001
0013

20695.3120	0.0711	0.0408	0.0708	0.5761
-2703.4710	0.0925	-0.1408	0.0915	-1.5381
8012.3110	0.0295	0.0117	0.0283	0.4123

End of Observation Set

ROUP: 070933710PT 10
007
0009

46512.9680	0.1534	0.0336	0.1484	0.2263
-12471.6530	0.2105	-0.2549	0.2036	-1.2518
9599.2790	0.0621	-0.0395	0.0578	-0.6843

End of Observation Set

ROUP: 071333710PT 11
007
0013

68684.4280	0.2228	0.0478	0.2215	0.2159
-25252.6160	0.2978	-0.3384	0.2957	-1.1442
4372.6380	0.0935	-0.0708	0.0923	-0.7670

End of Observation Set

ROUP: 091333710PT 12
009
0013

22171.4990	0.0957	-0.0248	0.0901	-0.2750
-12780.9480	0.1272	-0.0985	0.1191	-0.8272
-5226.6750	0.0393	0.0027	0.0341	0.0799

End of Observation Set

ROUP: 010733720PT 13
0001
0007

-47988.9410	0.1343	-0.1820	0.1320	-1.3788
22549.3740	0.2120	-0.0314	0.2089	-0.1502
3639.9400	0.1834	-0.1845	0.1828	-1.0096

End of Observation Set

ROUP: 010933720PT 14

R TD:

0001
0009

-1476.0970	0.0598	-0.0244	0.0504	-0.4844
10077.4540	0.0955	-0.0192	0.0844	-0.2281
13239.0090	0.0831	-0.0141	0.0808	-0.1740

End of Observation Set

GROUP: 011333720PT 15
0001
0013

20695.2970	0.0626	0.0558	0.0623	0.8959
-2703.5420	0.0943	-0.0698	0.0934	-0.7472
8012.2310	0.0820	0.0917	0.0816	1.1238

End of Observation Set

GROUP: 070933720PT 16
0007
0009

46512.8410	0.1125	0.1606	0.1057	1.5197
-12471.9100	0.1720	0.0021	0.1635	0.0131
9599.0810	0.1504	0.1585	0.1487	1.0658

End of Observation Set

GROUP: 071333720PT 17
0007
0013

68684.2380	0.1657	0.2378	0.1638	1.4518
-25252.9320	0.2541	-0.0224	0.2516	-0.0889
4372.2700	0.2198	0.2972	0.2193	1.3551

End of Observation Set

GROUP: 091333720PT 18
0009
0013

22171.4020	0.0603	0.0722	0.0509	1.4175
-12781.0310	0.0945	-0.0155	0.0832	-0.1865
-5226.7810	0.0825	0.1087	0.0801	1.3573

End of Observation Set

GROUP: 151933810PT 19
0015
0019

21668.4410	0.0849	-0.0013	0.0842	-0.0159
-13151.7970	0.1055	0.0098	0.1042	0.0941
-6927.2700	0.0361	-0.0181	0.0345	-0.5248

End of Observation Set

GROUP: 151933840PT 20
0015
0019

21668.4080	0.0557	0.0317	0.0547	0.5786
-13151.6840	0.0844	-0.1032	0.0828	-1.2456
-6927.2470	0.0651	-0.0411	0.0643	-0.6401

End of Observation Set

A 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

R

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 152133810PT 21					
0015					
0021	1525.1950	0.0823	0.0296	0.0817	0.3624
	-9548.3590	0.0896	0.0195	0.0885	0.2209
	-13213.9660	0.0357	0.0141	0.0344	0.4113
End of Observation Set					
GROUP: 152133840PT 22					
0015					
0021	1525.1410	0.0473	0.0836	0.0462	1.8086
	-9548.2970	0.0735	-0.0425	0.0721	-0.5890
	-13213.9730	0.0562	0.0211	0.0554	0.3819
End of Observation Set					
GROUP: 192133810PT 23					
0019					
0021	-20143.2030	0.0679	-0.0120	0.0678	-0.1775
	3603.3750	0.0882	0.0727	0.0877	0.8291
	-6286.6710	0.0296	0.0073	0.0290	0.2508
End of Observation Set					
GROUP: 192133840PT 24					
0019					
0021	-20143.2630	0.0259	0.0480	0.0255	1.8838
	3603.3900	0.0408	0.0577	0.0399	1.4472
	-6286.7350	0.0319	0.0713	0.0314	2.2733
End of Observation Set					
GROUP: 011333910PT 25					
0001					
0013	20695.4450	0.0871	-0.0922	0.0868	-1.0618
	-2703.6620	0.1088	0.0502	0.1080	0.4651
	8012.3170	0.0381	0.0057	0.0372	0.1525
End of Observation Set					
GROUP: 011333940PT 26					
0001					
0013	20695.3920	0.0480	-0.0392	0.0475	-0.8245
	-2703.6250	0.0747	0.0132	0.0735	0.1802
	8012.3440	0.0593	-0.0213	0.0587	-0.3631
End of Observation Set					
GROUP: 012133910PT 27					
0001					
0021	29861.5020	0.0936	0.0005	0.0933	0.0049
	-10251.7810	0.1190	0.0912	0.1182	0.7718

RESID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	2775.5300	0.0385	-0.0430	0.0375	-1.1476
========== End of Observation Set ==========					
GROUP: 012133940PT 28					
0001					
0021	29861.5480	0.0581	-0.0455	0.0577	-0.7895
	-10251.7150	0.0912	0.0252	0.0902	0.2797
	2775.5620	0.0722	-0.0750	0.0717	-1.0470
========== End of Observation Set ==========					
GROUP: 132133910PT 29					
0013					
0021	9166.1410	0.0183	0.0087	0.0177	0.4884
	-7548.0480	0.0274	-0.0300	0.0263	-1.1416
	-5236.8390	0.0140	0.0033	0.0131	0.2514
========== End of Observation Set ==========					
GROUP: 132133940PT 30					
0013					
0021	9166.1320	0.0105	0.0177	0.0095	1.8547
	-7548.0860	0.0235	0.0080	0.0222	0.3592
	-5236.7890	0.0162	-0.0467	0.0155	-3.0206
========== End of Observation Set ==========					
GROUP: 010534010PT 31					
0001					
0005	-38532.4040	0.0998	0.0635	0.0992	0.6399
	11296.8590	0.1173	0.0326	0.1157	0.2816
	-6496.9000	0.0425	-0.0663	0.0410	-1.6157
========== End of Observation Set ==========					
GROUP: 010534040PT 32					
0001					
0005	-38532.2820	0.0624	-0.0585	0.0614	-0.9523
	11296.9730	0.1050	-0.0814	0.1033	-0.7883
	-6497.0070	0.0754	0.0407	0.0746	0.5460
========== End of Observation Set ==========					
GROUP: 010734010PT 33					
0001					
0007	-47989.2130	0.1211	0.0900	0.1185	0.7594
	22549.3540	0.1476	-0.0114	0.1432	-0.0795
	3639.8190	0.0521	-0.0635	0.0497	-1.2768
========== End of Observation Set ==========					
GROUP: 010734040PT 34					

F.

0001
0007

-47989.0570	0.0810	-0.0660	0.0771	-0.8564
22549.3010	0.1352	0.0416	0.1304	0.3191
3639.6130	0.0956	0.1425	0.0943	1.5103

End of Observation Set

GROUP: 050734010PT 35
0005
0007

-9456.8210	0.0629	0.0385	0.0579	0.6648
11252.5110	0.0780	-0.0600	0.0698	-0.8598
10136.7270	0.0256	-0.0053	0.0212	-0.2479

End of Observation Set

GROUP: 050734040PT 36
0005
0007

-9456.8170	0.0424	0.0345	0.0346	0.9979
11252.4890	0.0711	-0.0380	0.0619	-0.6133
10136.7380	0.0499	-0.0163	0.0478	-0.3398

End of Observation Set

GROUP: 210133820PT 37
00

7701.6620	0.0221	0.0167	0.0218	0.7646
357.3040	0.0316	0.0012	0.0309	0.0389
4766.9470	0.0205	0.0048	0.0200	0.2409

End of Observation Set

GROUP: 190133820PT 38
0019
301

-12441.4770	0.1277	-0.0594	0.1277	-0.4649
3960.5650	0.2142	0.1879	0.2141	0.8780
-1519.7270	0.0637	0.0151	0.0635	0.2375

End of Observation Set

GROUP: 211333810PT 39
0021
513

14553.6070	0.1555	0.1029	0.1554	0.6624
2.7080	0.2632	0.0943	0.2631	0.3585
8170.4570	0.0765	-0.0744	0.0763	-0.9757

End of Observation Set

GROUP: 191333810PT 40
0019
513

-5589.5420	0.0150	0.0369	0.0147	2.5100
3606.2140	0.0209	0.0360	0.0200	1.8055
1883.7440	0.0110	-0.0252	0.0102	-2.4550

End of Observation Set

R. .D:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 190533830PT 41					
0019					
0705	-21743.2470	0.1108	0.0282	0.1107	0.2551
	1423.6360	0.1807	-0.0270	0.1805	-0.1493
	-10289.0290	0.1492	0.1407	0.1491	0.9437
End of Observation Set					
GROUP: 150533830PT 42					
0015					
0705	-74.9150	0.1877	0.1359	0.1875	0.7249
	-11728.1460	0.2949	-0.0321	0.2946	-0.1091
	-17216.1750	0.2455	-0.0014	0.2453	-0.0058
End of Observation Set					
GROUP: 210533830PT 43					
0021					
0705	-1599.9890	0.0067	-0.0147	0.0060	-2.4629
	-2179.8190	0.0150	-0.0197	0.0141	-1.4006
	-4002.2280	0.0128	0.0034	0.0122	0.2818
End of Observation Set					
GROUP: 150133820PT 44					
0015					
0301	9226.7710	0.1191	0.1323	0.1187	1.1148
	-9190.7130	0.2060	-0.3213	0.2054	-1.5638
	-8446.9600	0.0563	-0.0400	0.0554	-0.7225
End of Observation Set					
GROUP: 151333810PT 45					
0015					
0513	16079.1240	0.2049	-0.1894	0.2046	-0.9257
	-9545.3600	0.3323	-0.1771	0.3319	-0.5337
	-5043.6510	0.0999	0.0817	0.0994	0.8221
End of Observation Set					
GROUP: 132633930PT 46					
0013					
0326	-11747.8370	0.0131	-0.0414	0.0124	-3.3509
	-900.3370	0.0317	-0.0189	0.0309	-0.6134
	-8022.9500	0.0243	0.0121	0.0238	0.5068
End of Observation Set					
GROUP: 012633930PT 47					
0001					
0326	8947.4700	0.0058	0.0044	0.0023	1.8831
	-3603.9790	0.0152	0.0113	0.0089	1.2738

ID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	-10.6150	0.0114	-0.0003	0.0082	-0.0328

End of Observation Set

GROUP: 211133940PT 48
0021
0711

-10216.4760	0.4760	0.1032	0.4760	0.2168
887.9230	0.5544	-0.1832	0.5543	-0.3306
-4593.4290	0.7403	-0.0382	0.7403	-0.0517

End of Observation Set

GROUP: 011133940PT 49
0001
0711

19644.9590	0.3365	0.1707	0.3365	0.5072
-9363.6550	0.3891	-0.2950	0.3888	-0.7588
-1817.8450	0.3564	-0.1353	0.3563	-0.3796

End of Observation Set

GROUP: 139233920PT 50
0013
0[illegible]

-17087.1050	0.3268	0.0085	0.3268	0.0260
3204.6830	0.6603	0.6839	0.6603	1.0357
-5328.1180	0.1464	-0.0611	0.1463	-0.4178

End of Observation Set

GROUP: 219233920PT 51
0021
0192

-26253.2230	0.2483	-0.0232	0.2483	-0.0933
10753.0080	0.5312	0.4369	0.5311	0.8226
-91.3190	0.1137	-0.0244	0.1136	-0.2151

End of Observation Set

GROUP: 072934020PT 52
0007
0129

12468.4540	0.1675	0.0275	0.1657	0.1661
-9632.4730	0.2134	-0.0006	0.2105	-0.0027
-6349.2060	0.0682	0.0553	0.0667	0.8297

End of Observation Set

GROUP: 012934020PT 53
0001
0129

-35520.5740	0.2587	-0.0675	0.2586	-0.2611
12916.8680	0.3371	0.0010	0.3367	0.0031
-2709.3310	0.1045	-0.0642	0.1040	-0.6171

End of Observation Set

GROUP: 052934020PT 54

PT ID:

0005
0129

3011.7100	0.0113	-0.0110	0.0077	-1.4243
1619.9890	0.0156	-0.0116	0.0095	-1.2147
3787.5610	0.0084	0.0101	0.0049	2.0405

End of Observation Set

GROUP: 074134010PT 55
0007
0141

1958.6150	0.1143	0.1077	0.1116	0.9656
-11830.6040	0.2666	0.0578	0.2642	0.2187
-15641.0690	0.0855	-0.0477	0.0842	-0.5661

End of Observation Set

GROUP: 054134010PT 56
0005
0141

-7498.0610	0.0290	0.0012	0.0276	0.0436
-578.1000	0.0390	0.0048	0.0366	0.1317
-5504.3680	0.0244	-0.0269	0.0230	-1.1702

End of Observation Set

GROUP: 076134030PT 57
0007
0161

20688.7070	0.1344	-0.0441	0.1321	-0.3335
-14986.1580	0.2370	-0.1187	0.2345	-0.5063
-9025.0490	0.1854	0.0744	0.1848	0.4028

End of Observation Set

GROUP: 016134030PT 58
0001
0161

-27300.3790	0.1087	-0.0811	0.1085	-0.7473
7563.1470	0.1928	-0.0811	0.1923	-0.4217
-5385.2740	0.1513	0.0549	0.1510	0.3636

End of Observation Set

GROUP: 077234040PT 59
0007
0172

33086.8810	0.2827	-0.1871	0.2817	-0.6643
-18718.4160	0.5807	0.5393	0.5796	0.9305
-7008.8510	0.7973	0.4894	0.7972	0.6139

End of Observation Set

GROUP: 057234040PT 60
0005
0172

23630.0130	0.1892	-0.1016	0.1890	-0.5377
-7465.9920	0.3689	0.5663	0.3686	1.5366
3127.8410	0.5229	0.5191	0.5228	0.9929

End of Observation Set

P ID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 05613403OPT 61					
0005					
0161	11231.8630	0.0157	0.0174	0.0131	1.3291
	-3733.7920	0.0402	-0.0337	0.0378	-0.8899
	1111.7550	0.0256	-0.0078	0.0245	-0.3202
========== End of Observation Set ==========					
GROUP: 29483441OPT 62					
0129					
0148	-4411.9660	0.0031	-0.0010	0.0024	-0.3910
	-2371.5070	0.0061	0.0026	0.0049	0.5344
	-5945.0550	0.0039	-0.0006	0.0031	-0.2020
========== End of Observation Set ==========					
GROUP: 29503441OPT 63					
0129					
0150	-2666.0610	0.0028	-0.0008	0.0021	-0.3798
	-1740.1650	0.0060	-0.0016	0.0048	-0.3454
	-4031.0470	0.0036	0.0016	0.0028	0.5681
========== End of Observation Set ==========					
GROUP: 29533441OPT 64					
0129					
0153	-455.9930	0.0023	-0.0014	0.0015	-0.9663
	-1250.1620	0.0041	0.0018	0.0027	0.6928
	-2035.4890	0.0028	-0.0003	0.0019	-0.1347
========== End of Observation Set ==========					
GROUP: 36373431OPT 65					
0136					
0137	-1829.0460	0.0028	0.0015	0.0010	1.5617
	-443.5360	0.0050	-0.0009	0.0022	-0.4073
	-1704.7860	0.0034	-0.0013	0.0013	-0.9936
========== End of Observation Set ==========					
GROUP: 48503441OPT 66					
0148					
0150	1745.9050	0.0025	0.0002	0.0017	0.0897
	631.3410	0.0054	-0.0032	0.0039	-0.8226
	1914.0100	0.0034	0.0002	0.0024	0.0897
========== End of Observation Set ==========					
GROUP: 48533441OPT 67					
0148					
0153	3955.9720	0.0027	0.0005	0.0020	0.2557
	1121.3400	0.0050	0.0042	0.0036	1.1786

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STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	3909.5690	0.0034	-0.0026	0.0025	-1.0440
========== End of Observation Set ==========					
GROUP: 505334410PT 68					
0150					
0153	2210.0680	0.0023	-0.0006	0.0015	-0.4232
	490.0010	0.0049	0.0055	0.0036	1.5443
	1995.5590	0.0031	-0.0028	0.0022	-1.2880
========== End of Observation Set ==========					
GROUP: 374034320PT 69					
0137					
0140	216.3200	0.0020	-0.0004	0.0012	-0.2920
	-1550.8620	0.0029	0.0009	0.0017	0.5506
	-2056.5760	0.0038	-0.0002	0.0024	-0.1014
========== End of Observation Set ==========					
GROUP: 293234420PT 70					
0129					
0132	-4990.4820	0.0063	-0.0002	0.0060	-0.0313
	594.1940	0.0076	-0.0043	0.0065	-0.6566
(	-2118.0430	0.0167	0.0140	0.0165	0.8458
========== End of Observation Set ==========					
GROUP: 293334420PT 71					
0129					
0133	-6461.3710	0.0042	0.0053	0.0035	1.5097
	1254.0370	0.0067	-0.0046	0.0054	-0.8572
	-2042.2400	0.0086	-0.0041	0.0074	-0.5545
========== End of Observation Set ==========					
GROUP: 323334420PT 72					
0132					
0133	-1470.8880	0.0038	0.0045	0.0031	1.4490
	659.8430	0.0044	-0.0003	0.0024	-0.1308
	75.8010	0.0103	-0.0161	0.0091	-1.7604
========== End of Observation Set ==========					
GROUP: 374134320PT 73					
0137					
0141	-669.8050	0.0026	-0.0001	0.0019	-0.0317
	-2222.1970	0.0039	0.0011	0.0028	0.4061
	-3510.7590	0.0051	0.0003	0.0038	0.0709
========== End of Observation Set ==========					
GROUP: 292334430PT 74					

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R[illegible]D:

0129
0123          6477.9960      0.0061      0.0038      0.0051      0.7555
             -1291.7440      0.0176     -0.0117      0.0161     -0.7292
              2007.5960      0.0070     -0.0016      0.0061     -0.2569
========================== End of Observation Set ==========================

GROUP: 292434430PT  75
0129
0124          4789.3080      0.0058      0.0023      0.0055      0.4099
             -1064.5800      0.0167      0.0091      0.0162      0.5630
              1329.3270      0.0066     -0.0069      0.0064     -1.0904
========================== End of Observation Set ==========================

GROUP: 232434430PT  76
0123
0124         -1688.6900      0.0039      0.0004      0.0023      0.1859
               227.1660      0.0118      0.0188      0.0091      2.0687
              -678.2680      0.0046     -0.0064      0.0031     -2.0666
========================== End of Observation Set ==========================

GROUP: 374234320PT  77
01[illegible]
               922.1490      0.0034     -0.0001      0.0028     -0.0324
             -3087.3250      0.0051      0.0028      0.0042      0.6633
             -3809.2690      0.0068     -0.0015      0.0059     -0.2613
========================== End of Observation Set ==========================

GROUP: 231934440PT  78
0123
0119          6850.4800      0.0145      0.0155      0.0129      1.2068
             -2366.3850      0.0188      0.0095      0.0161      0.5917
               678.9280      0.0109     -0.0037      0.0093     -0.3927
========================== End of Observation Set ==========================

GROUP: 236434440PT  79
0123
0164          2436.1130      0.0129      0.0123      0.0117      1.0496
             -2426.5860      0.0168      0.0077      0.0145      0.5313
             -2005.8170      0.0096     -0.0020      0.0085     -0.2297
========================== End of Observation Set ==========================

GROUP: 196434440PT  80
0119
0164         -4414.3700      0.0135     -0.0002      0.0127     -0.0195
               -60.2030      0.0178      0.0002      0.0162      0.0128
             -2684.7410      0.0101     -0.0023      0.0092     -0.2495
========================== End of Observation Set ==========================
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R ID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 404134320PT 81					
0140					
0141	-886.1240	0.0024	-0.0007	0.0016	-0.4364
	-671.3340	0.0035	-0.0008	0.0024	-0.3390
	-1454.1840	0.0046	0.0015	0.0031	0.4824
========== End of Observation Set ==========					
GROUP: 162034510PT 82					
0116					
0120	-4482.7340	0.0030	0.0019	0.0016	1.1852
	1873.6280	0.0042	-0.0046	0.0019	-2.4146
	17.4210	0.0058	0.0008	0.0041	0.1851
========== End of Observation Set ==========					
GROUP: 606135010PT 83					
0160					
0161	1814.2210	0.0039	0.0003	0.0024	0.1446
	186.2120	0.0059	-0.0030	0.0035	-0.8752
	1315.1080	0.0039	0.0038	0.0023	1.6299
========== End of Observation Set ==========					
GROUP: 606435010PT 84					
0160					
0164	2508.1640	0.0036	0.0010	0.0021	0.4919
	1821.6830	0.0057	-0.0049	0.0035	-1.3900
	3992.7120	0.0039	-0.0008	0.0026	-0.3070
========== End of Observation Set ==========					
GROUP: 404234320PT 85					
0140					
0142	705.8290	0.0026	0.0003	0.0018	0.1424
	-1536.4640	0.0039	0.0028	0.0027	1.0423
	-1752.6920	0.0051	-0.0023	0.0038	-0.6008
========== End of Observation Set ==========					
GROUP: 616435010PT 86					
0161					
0164	693.9440	0.0046	-0.0003	0.0034	-0.0885
	1635.4720	0.0070	-0.0029	0.0050	-0.5727
	2677.6030	0.0047	-0.0036	0.0035	-1.0194
========== End of Observation Set ==========					
GROUP: 642535020PT 87					
0164					
0125	-4455.9850	0.0030	-0.0008	0.0020	-0.4003
	1840.9900	0.0047	-0.0032	0.0031	-1.0199

E 3.0:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	-23.3720	0.0060	0.0036	0.0044	0.8369
		End of Observation Set			

GROUP: 642635020PT 88
0164
0126

-4781.6520	0.0033	-0.0023	0.0026	-0.8837
1043.6700	0.0051	-0.0051	0.0040	-1.2684
-1346.4890	0.0066	0.0058	0.0058	0.9932
	End of Observation Set			

GROUP: 414234320PT 89
0141
0142

1591.9540	0.0031	-0.0000	0.0024	-0.0121
-865.1280	0.0046	0.0016	0.0035	0.4599
-298.5100	0.0061	-0.0018	0.0049	-0.3720
	End of Observation Set			

GROUP: 252635020PT 90
0125
0[illegible]

-325.6680	0.0023	-0.0005	0.0011	-0.4069
-797.3200	0.0036	-0.0019	0.0019	-1.0231
-1323.1170	0.0046	0.0022	0.0026	0.8427
	End of Observation Set			

GROUP: 505135030PT 91
0150
0151

1657.6380	0.0023	0.0007	0.0012	0.6052
-686.7960	0.0072	-0.0095	0.0040	-2.3753
12.0430	0.0027	0.0017	0.0014	1.2250
	End of Observation Set			

GROUP: 505235030PT 92
0150
0152

3138.3720	0.0028	0.0022	0.0018	1.2363
-1306.1310	0.0086	-0.0232	0.0066	-3.4957
27.1880	0.0032	0.0042	0.0022	1.9114
	End of Observation Set			

GROUP: 424434330PT 93
0142
0144

725.3520	0.0044	0.0011	0.0033	0.3305
-1520.8930	0.0120	0.0172	0.0094	1.8197
-1703.6960	0.0052	-0.0050	0.0040	-1.2594
	End of Observation Set			

GROUP: 515235030PT 94

R. ID:

0151
0152

1480.7340	0.0028	0.0015	0.0018	0.8301
-619.3340	0.0088	-0.0148	0.0060	-2.4510
15.1450	0.0033	0.0025	0.0021	1.1697

End of Observation Set

GROUP: 616235040PT 95
0161
0162

994.6240	0.0045	0.0028	0.0028	1.0080
90.9200	0.0061	0.0047	0.0038	1.2452
688.9530	0.0032	0.0006	0.0020	0.3261

End of Observation Set

GROUP: 616335040PT 96
0161
0163

1806.5510	0.0053	0.0058	0.0040	1.4633
177.9310	0.0072	0.0080	0.0054	1.4840
1287.1010	0.0036	0.0010	0.0026	0.3970

End of Observation Set

GROUP: 424534330PT 97
0142
0145

1456.0310	0.0060	0.0020	0.0051	0.3916
-1782.4320	0.0162	0.0180	0.0140	1.2876
-1655.4120	0.0071	-0.0053	0.0061	-0.8763

End of Observation Set

GROUP: 626335040PT 98
0162
0163

811.9280	0.0036	0.0020	0.0018	1.0793
87.0110	0.0050	0.0033	0.0025	1.2991
598.1480	0.0025	0.0004	0.0012	0.3145

End of Observation Set

GROUP: 071335110PT 99
0107
0113

-4902.2120	0.0039	0.0024	0.0028	0.8535
607.6400	0.0059	-0.0024	0.0040	-0.6092
-1993.9920	0.0041	0.0001	0.0027	0.0214

End of Observation Set

GROUP: 071635110PT 100
0107
0116

-8618.6110	0.0043	0.0014	0.0034	0.4151
2151.5500	0.0069	-0.0066	0.0054	-1.2213
-1998.9640	0.0047	0.0027	0.0036	0.7354

End of Observation Set

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

4378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 424634330PT 101					
0142					
0146	2150.9620	0.0041	0.0029	0.0031	0.9526
	-1219.4290	0.0112	0.0292	0.0098	2.9843
	-443.2810	0.0049	-0.0090	0.0039	-2.3084
========== End of Observation Set ==========					
GROUP: 121335110PT 102					
0112					
0113	-437.2490	0.0103	-0.0028	0.0097	-0.2903
	-1256.1550	0.0151	-0.0031	0.0142	-0.2173
	-2015.5870	0.0113	0.0056	0.0107	0.5226
========== End of Observation Set ==========					
GROUP: 131635110PT 103					
0113					
0116	-3716.4010	0.0029	0.0011	0.0015	0.7243
	1543.9080	0.0046	-0.0022	0.0024	-0.9182
	-4.9700	0.0031	0.0006	0.0015	0.3882
========== End of Observation Set ==========					
GROUP: 071135120PT 104					
0107					
0111	-4305.3480	0.0034	0.0048	0.0030	1.6297
	2250.5010	0.0057	0.0093	0.0048	1.9397
	665.1750	0.0071	-0.0122	0.0066	-1.8389
========== End of Observation Set ==========					
GROUP: 444534330PT 105					
0144					
0145	730.6800	0.0031	-0.0001	0.0017	-0.0517
	-261.5390	0.0083	0.0008	0.0046	0.1764
	48.2840	0.0036	-0.0003	0.0020	-0.1616
========== End of Observation Set ==========					
GROUP: 071535120PT 106					
0107					
0115	-6650.5780	0.0042	0.0056	0.0035	1.5842
	2769.2790	0.0065	0.0106	0.0053	1.9938
	26.1380	0.0084	-0.0118	0.0075	-1.5679
========== End of Observation Set ==========					
GROUP: 111535120PT 107					
0111					
0115	-2345.2290	0.0025	-0.0002	0.0014	-0.1649
	518.7810	0.0038	-0.0017	0.0021	-0.8207

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STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	-639.0380	0.0050	0.0014	0.0034	0.4282
End of Observation Set					
GROUP: 151735130PT 108					
0115					
0117	-3131.0220	0.0020	0.0004	0.0010	0.4343
	825.1800	0.0062	0.0013	0.0035	0.3801
	-668.2940	0.0023	-0.0005	0.0012	-0.4580
End of Observation Set					
GROUP: 444634330PT 109					
0144					
0146	1425.6110	0.0037	0.0008	0.0026	0.3203
	301.4650	0.0101	0.0111	0.0073	1.5070
	1260.4140	0.0043	-0.0030	0.0031	-0.9819
End of Observation Set					
GROUP: 151935130PT 110					
0115					
0119	-5523.8130	0.0032	0.0004	0.0024	0.1822
	1326.5830	0.0096	0.0039	0.0079	0.4907
	-1360.1220	0.0037	-0.0013	0.0029	-0.4446
End of Observation Set					
GROUP: 152035130PT 111					
0115					
0120	-6450.7740	0.0063	0.0048	0.0056	0.8515
	1255.8820	0.0187	-0.0048	0.0180	-0.2680
	-2007.6650	0.0071	-0.0008	0.0063	-0.1305
End of Observation Set					
GROUP: 171935130PT 112					
0117					
0119	-2392.7910	0.0024	-0.0000	0.0014	-0.0004
	501.4030	0.0073	0.0026	0.0047	0.5519
	-691.8280	0.0028	-0.0007	0.0017	-0.4400
End of Observation Set					
GROUP: 454634330PT 113					
0145					
0146	694.9310	0.0046	0.0009	0.0035	0.2620
	563.0020	0.0123	0.0123	0.0096	1.2761
	1212.1310	0.0053	-0.0037	0.0040	-0.9127
End of Observation Set					
GROUP: 172035130PT 114					

R[illegible]:

0117
0120

-3319.7520	0.0060	0.0043	0.0053	0.8199
430.7020	0.0180	-0.0061	0.0168	-0.3652
-1339.3710	0.0068	-0.0003	0.0059	-0.0462

End of Observation Set

GROUP: 192035130PT 115
0119
0120

-926.9610	0.0056	0.0043	0.0047	0.9162
-70.7030	0.0164	-0.0067	0.0153	-0.4400
-647.5420	0.0065	-0.0005	0.0056	-0.0961

End of Observation Set

GROUP: 646935140PT 116
0164
0169

7388.6350	0.0082	0.0032	0.0059	0.5454
-3230.6550	0.0109	-0.0097	0.0078	-1.2393
-209.0330	0.0058	-0.0108	0.0039	-2.7366

End of Observation Set

GROUP: 374634340PT 117
0[illegible]

3073.1040	0.0119	0.0098	0.0115	0.8559
-4306.7150	0.0162	-0.0070	0.0152	-0.4594
-4252.5540	0.0102	-0.0066	0.0096	-0.6835

End of Observation Set

GROUP: 647335140PT 118
0164
0173

11870.3890	0.0111	0.0043	0.0103	0.4186
-4954.8680	0.0149	-0.0155	0.0136	-1.1391
8.2580	0.0077	-0.0160	0.0068	-2.3560

End of Observation Set

GROUP: 697335140PT 119
0169
0173

4481.7530	0.0062	0.0021	0.0035	0.5996
-1724.2140	0.0083	-0.0049	0.0045	-1.0745
217.2920	0.0045	-0.0062	0.0024	-2.6400

End of Observation Set

GROUP: 070835210PT 120
0107
0108

-1149.0960	0.0030	0.0008	0.0021	0.3683
1447.5970	0.0049	-0.0006	0.0034	-0.1675
1370.6050	0.0034	-0.0007	0.0023	-0.2906

End of Observation Set

R. ID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 374734340PT 121					
0137					
0147	3435.3950	0.0105	0.0047	0.0092	0.5056
	-3000.6400	0.0139	-0.0097	0.0120	-0.8042
	-2204.7660	0.0078	-0.0051	0.0066	-0.7825
========== End of Observation Set ==========					
GROUP: 071135210PT 122					
0107					
0111	-4305.3420	0.0047	-0.0012	0.0044	-0.2629
	2250.5160	0.0079	-0.0057	0.0073	-0.7803
	665.1600	0.0054	0.0028	0.0048	0.5765
========== End of Observation Set ==========					
GROUP: 071235210PT 123					
0107					
0112	-4464.9580	0.0035	0.0002	0.0029	0.0621
	1863.8010	0.0061	-0.0054	0.0051	-1.0605
	21.5860	0.0043	0.0035	0.0035	0.9983
========== End of Observation Set ==========					
GROUP: 081135210PT 124					
0108					
0111	-3156.2440	0.0043	-0.0040	0.0037	-1.0783
	802.9190	0.0073	-0.0051	0.0063	-0.8130
	-705.4460	0.0052	0.0045	0.0044	1.0102
========== End of Observation Set ==========					
GROUP: 374834340PT 125					
0137					
0148	5427.9800	0.0101	0.0068	0.0093	0.7316
	-2395.6190	0.0136	-0.0086	0.0124	-0.6992
	-163.8410	0.0076	-0.0073	0.0065	-1.1240
========== End of Observation Set ==========					
GROUP: 081235210PT 126					
0108					
0112	-3315.8610	0.0037	-0.0016	0.0029	-0.5624
	416.2010	0.0062	-0.0018	0.0049	-0.3688
	-1349.0160	0.0045	0.0012	0.0035	0.3280
========== End of Observation Set ==========					
GROUP: 111235210PT 127					
0111					
0112	-159.6150	0.0021	0.0003	0.0012	0.2808
	-386.7170	0.0037	0.0023	0.0020	1.1367

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	-643.5720	0.0026	-0.0013	0.0014	-0.9641
		End of Observation Set			
GROUP: 077335220PT 128					
107					
0173	-4718.3510	0.0071	-0.0109	0.0062	-1.7549
	-919.2130	0.0109	0.0032	0.0095	0.3358
	-4010.5090	0.0133	0.0107	0.0124	0.8619
		End of Observation Set			
GROUP: 464734340PT 129					
146					
0147	362.2850	0.0066	0.0008	0.0044	0.1876
	1306.0660	0.0088	0.0063	0.0058	1.0984
	2047.7910	0.0050	-0.0016	0.0032	-0.5038
		End of Observation Set			
GROUP: 070209020PT 130					
702					
09	2009.0520	0.0045	-0.0046	0.0038	-1.1987
	591.3130	0.0063	-0.0023	0.0051	-0.4576
	1969.6690	0.0088	0.0061	0.0078	0.7743
		End of Observation Set			
GROUP: 077835220PT 131					
0107					
0178	-594.6420	0.0047	-0.0144	0.0037	-3.8847
	-1691.4930	0.0079	-0.0120	0.0062	-1.9270
	-2679.4620	0.0093	0.0249	0.0078	3.1989
		End of Observation Set			
GROUP: 737635220PT 132					
0173					
0176	3379.0590	0.0049	0.0045	0.0036	1.2527
	-459.6060	0.0085	-0.0041	0.0064	-0.6375
	1331.1960	0.0097	-0.0026	0.0076	-0.3394
		End of Observation Set			
GROUP: 464834340PT 133					
0146					
0148	2354.8690	0.0121	0.0040	0.0112	0.3538
	1911.0860	0.0161	0.0084	0.0147	0.5675
	4088.7180	0.0092	-0.0058	0.0082	-0.7075
		End of Observation Set			
GROUP: 051903420PT 134					

RFSID:

0519
0342

-6221.2390	0.0072	-0.0071	0.0064	-1.1216
1975.6560	0.0124	-0.0064	0.0109	-0.5847
-769.2180	0.0084	0.0016	0.0072	0.2172

End of Observation Set

GROUP: 767835220PT 135
0176
0178

744.6450	0.0028	-0.0030	0.0015	-2.0814
-312.6810	0.0047	-0.0041	0.0023	-1.8037
-0.1380	0.0053	0.0058	0.0027	2.1284

End of Observation Set

GROUP: 034209030PT 136
0342
0903

-2062.4520	0.0044	-0.0079	0.0037	-2.1622
1357.0290	0.0062	-0.0037	0.0049	-0.7603
727.9710	0.0086	0.0121	0.0077	1.5806

End of Observation Set

GROUP: 474834340PT 137
0147
0148

1992.5840	0.0072	0.0031	0.0051	0.6133
605.0190	0.0097	0.0030	0.0068	0.4476
2040.9270	0.0055	-0.0042	0.0037	-1.1419

End of Observation Set

GROUP: 736835230PT 138
0173
0168

-4793.6490	0.0049	-0.0018	0.0037	-0.4863
1037.7800	0.0137	0.0007	0.0111	0.0608
-1339.6610	0.0053	-0.0034	0.0042	-0.8165

End of Observation Set

GROUP: 737235230PT 139
0173
0172

-166.3060	0.0022	-0.0001	0.0009	-0.0784
-412.1860	0.0064	0.0004	0.0028	0.1516
-669.2270	0.0025	-0.0014	0.0010	-1.4462

End of Observation Set

GROUP: 636835230PT 140
0163
0168

5964.1280	0.0044	0.0014	0.0026	0.5253
-2459.5710	0.0121	-0.0017	0.0086	-0.1979
59.0700	0.0046	0.0050	0.0028	1.7574

End of Observation Set

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

R. :

TATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
ROUP: 363334350PT 141					
136					
0133	1549.5440	0.0034	-0.0004	0.0024	-0.1826
	786.3720	0.0049	0.0002	0.0033	0.0754
	2034.1750	0.0042	0.0009	0.0030	0.2942
		End of Observation Set			
ROUP: 637235230PT 142					
163					
0172	10591.4720	0.0079	0.0021	0.0069	0.3060
	-3909.5340	0.0221	-0.0050	0.0205	-0.2410
	729.5020	0.0083	0.0089	0.0074	1.2126
		End of Observation Set			
ROUP: 687235230PT 143					
0168					
0172	4627.3450	0.0044	-0.0002	0.0032	-0.0790
	-1449.9640	0.0126	-0.0023	0.0093	-0.2420
	670.4330	0.0048	0.0030	0.0035	0.8518
		End of Observation Set			
JP: 202635240PT 144					
0120					
0126	-8269.1040	0.0150	0.0362	0.0142	2.5484
	1054.1400	0.0217	0.0318	0.0205	1.5523
	-3383.6700	0.0106	-0.0139	0.0096	-1.4532
		End of Observation Set			
ROUP: 363434350PT 145					
0136					
134	353.0210	0.0029	-0.0002	0.0016	-0.1077
	889.3630	0.0042	0.0006	0.0022	0.2477
	1460.7520	0.0038	-0.0000	0.0021	-0.0189
		End of Observation Set			
ROUP: 262900930PT 146					
0526					
529	5692.8030	0.0044	0.0081	0.0033	2.4910
	-882.8230	0.0124	0.0056	0.0101	0.5498
	1980.6160	0.0067	0.0062	0.0053	1.1586
		End of Observation Set			
GROUP: 206435240PT 147					
0120					
164	-3487.4330	0.0081	0.0194	0.0068	2.8665
	10.4930	0.0117	0.0139	0.0096	1.4453

F"SID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	-2037.1950	0.0057	-0.0058	0.0042	-1.3670

End of Observation Set

GROUP: 265335240PT 148

0126					
0153	-4588.4750	0.0076	0.0097	0.0059	1.6439
	1424.5100	0.0109	-0.0010	0.0082	-0.1273
	-690.7800	0.0053	-0.0015	0.0037	-0.4213

End of Observation Set

GROUP: 333434350PT 149

0133					
0134	-1196.5230	0.0034	0.0003	0.0021	0.1218
	102.9920	0.0047	-0.0007	0.0029	-0.2393
	-573.4240	0.0043	0.0001	0.0028	0.0231

End of Observation Set

GROUP: 266435240PT 150

0126					
0164	4781.6710	0.0086	-0.0167	0.0084	-1.9921
	-1043.6470	0.0124	-0.0179	0.0120	-1.4887
	1346.4750	0.0060	0.0082	0.0052	1.5862

End of Observation Set

GROUP: 536435240PT 151

0153					
0164	9370.1450	0.0144	-0.0254	0.0136	-1.8751
	-2468.1560	0.0204	-0.0178	0.0191	-0.9334
	2037.2560	0.0099	0.0087	0.0092	0.9549

End of Observation Set

GROUP: 020435710PT 152

0102					
0104	-4426.5430	0.0029	-0.0006	0.0021	-0.2751
	1849.2060	0.0058	-0.0001	0.0040	-0.0193
	36.5930	0.0039	0.0002	0.0028	0.0894

End of Observation Set

GROUP: 020835710PT 153

0102					
0108	-10529.2320	0.0053	-0.0023	0.0046	-0.4938
	3903.2880	0.0109	-0.0018	0.0097	-0.1866
	-634.0110	0.0074	0.0026	0.0065	0.4026

End of Observation Set

GROUP: 029235710PT 154

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

GROUP:

0102
0192

4245.8770	0.0033	0.0014	0.0025	0.5622
-2205.4170	0.0066	0.0006	0.0050	0.1152
-631.5890	0.0044	-0.0008	0.0033	-0.2543

End of Observation Set

GROUP: 029335710PT 155
0102
0193

2937.3630	0.0024	0.0001	0.0015	0.0781
-1184.7300	0.0049	0.0000	0.0030	0.0083
36.9470	0.0033	-0.0002	0.0020	-0.1248

End of Observation Set

GROUP: 040835710PT 156
0104
0108

-6102.6880	0.0031	-0.0027	0.0020	-1.3313
2054.0820	0.0064	-0.0017	0.0043	-0.3999
-670.6040	0.0044	0.0024	0.0029	0.8054

End of Observation Set

GROUP: 049235710PT 157
0104

8672.4200	0.0042	0.0020	0.0034	0.5692
-4054.6230	0.0083	0.0007	0.0069	0.0960
-668.1810	0.0056	-0.0021	0.0047	-0.4475

End of Observation Set

GROUP: 049335710PT 158
0104
0193

7363.9050	0.0041	0.0017	0.0034	0.4906
-3033.9380	0.0082	0.0021	0.0068	0.3109
0.3550	0.0056	-0.0015	0.0046	-0.3222

End of Observation Set

GROUP: 222600240PT 159
0522
0526

3352.9590	0.0058	0.0160	0.0046	3.4888
-367.4330	0.0082	0.0201	0.0063	3.2008
1385.1810	0.0041	-0.0057	0.0029	-1.9702

End of Observation Set

GROUP: 089335710PT 160
0108
0193

13466.5940	0.0068	0.0034	0.0062	0.5471
-5088.0190	0.0141	0.0028	0.0130	0.2173
670.9600	0.0097	-0.0049	0.0090	-0.5394

End of Observation Set

GROUP: ID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 929335710PT 161					
0192					
0193	-1308.5130	0.0034	-0.0023	0.0025	-0.8914
	1020.6880	0.0072	-0.0016	0.0055	-0.2821
	668.5340	0.0046	0.0026	0.0035	0.7485
End of Observation Set					
GROUP: 078035720PT 162					
0107					
0180	4173.2850	0.0039	-0.0001	0.0033	-0.0422
	-2447.4530	0.0064	-0.0007	0.0056	-0.1231
	-995.6940	0.0079	-0.0014	0.0070	-0.2078
End of Observation Set					
GROUP: 078135720PT 163					
0107					
0181	4449.2350	0.0030	-0.0001	0.0024	-0.0242
	-1792.1980	0.0046	0.0015	0.0036	0.4299
	77.1200	0.0057	-0.0006	0.0046	-0.1219
End of Observation Set					
GROUP: 078435720PT 164					
0107					
0184	8902.3040	0.0031	0.0016	0.0026	0.6342
	-3678.5140	0.0045	0.0023	0.0036	0.6480
	6.1850	0.0058	-0.0025	0.0047	-0.5308
End of Observation Set					
GROUP: 079135720PT 165					
0107					
0191	13314.2290	0.0039	0.0039	0.0035	1.1364
	-5460.6760	0.0055	0.0045	0.0047	0.9576
	58.1650	0.0069	-0.0060	0.0062	-0.9670
End of Observation Set					
GROUP: 808135720PT 166					
0180					
0181	275.9500	0.0021	0.0001	0.0014	0.0590
	655.2580	0.0035	-0.0008	0.0024	-0.3170
	1072.8150	0.0042	-0.0001	0.0028	-0.0403
End of Observation Set					
GROUP: 808435720PT 167					
0180					
0184	4729.0210	0.0025	-0.0002	0.0019	-0.1261
	-1231.0580	0.0042	0.0000	0.0032	0.0008

RL[illegible]:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	1001.8780	0.0051	-0.0000	0.0040	-0.0125
		End of Observation Set			

GROUP: 809135720PT 168
[illegible]180
0191

9140.9480	0.0031	0.0001	0.0025	0.0334
-3013.2190	0.0051	0.0012	0.0041	0.2808
1053.8550	0.0062	-0.0006	0.0052	-0.1094
	End of Observation Set			

GROUP: 818435720PT 169
[illegible]181
0184

4453.0710	0.0021	-0.0003	0.0015	-0.2152
-1886.3150	0.0032	-0.0002	0.0022	-0.1067
-70.9370	0.0040	0.0001	0.0028	0.0235
	End of Observation Set			

GROUP: 819135720PT 170
[illegible]181
0[illegible]

8864.9970	0.0033	0.0010	0.0028	0.3551
-3668.4760	0.0050	0.0009	0.0042	0.2222
-18.9590	0.0062	-0.0015	0.0053	-0.2731
	End of Observation Set			

GROUP: 849135720PT 171
[illegible]184
0191

4411.9270	0.0025	0.0003	0.0018	0.1784
-1782.1610	0.0038	0.0012	0.0027	0.4264
51.9780	0.0047	-0.0015	0.0035	-0.4282
	End of Observation Set			

GROUP: 242735730PT 172
0124
0127

-1632.7150	0.0023	0.0000	0.0016	0.0196
211.6530	0.0056	0.0018	0.0037	0.4815
-662.9080	0.0025	-0.0009	0.0017	-0.5133
	End of Observation Set			

GROUP: 242935730PT 173
0124
0129

-4789.3110	0.0028	0.0007	0.0022	0.3374
1064.5710	0.0066	-0.0001	0.0052	-0.0240
-1329.3190	0.0030	-0.0011	0.0024	-0.4417
	End of Observation Set			

GROUP: 243035730PT 174

RESID:

```
0124
0130          -7186.9280     0.0028    -0.0003     0.0021    -0.1320
               1578.2100     0.0067     0.0017     0.0051     0.3419
              -1965.0470     0.0030    -0.0009     0.0023    -0.3977
========================== End of Observation Set ==========================

GROUP: 243235730PT 175
0124
0132          -9779.7900     0.0041    -0.0024     0.0035    -0.6954
               1658.7530     0.0095     0.0076     0.0083     0.9129
              -3447.3470     0.0044    -0.0021     0.0037    -0.5655
========================== End of Observation Set ==========================

GROUP: 272935730PT 176
0127
0129          -3156.5970     0.0034     0.0017     0.0028     0.6054
                852.9170     0.0082    -0.0009     0.0069    -0.1338
               -666.4100     0.0038    -0.0012     0.0031    -0.3854
========================== End of Observation Set ==========================

GROUP: 273035730PT 177
0127
0130          -5554.2130     0.0029    -0.0003     0.0022    -0.1444
               1366.5560     0.0070     0.0010     0.0053     0.1797
              -1302.1390     0.0031    -0.0001     0.0024    -0.0217
========================== End of Observation Set ==========================

GROUP: 273235730PT 178
0127
0132          -8147.0750     0.0050    -0.0025     0.0044    -0.5569
               1447.0990     0.0116     0.0068     0.0104     0.6500
              -2784.4390     0.0053    -0.0012     0.0047    -0.2551
========================== End of Observation Set ==========================

GROUP: 293035730PT 179
0129
0130          -2397.6170     0.0030    -0.0010     0.0024    -0.4331
                513.6390     0.0072     0.0019     0.0058     0.3226
               -635.7280     0.0033     0.0001     0.0026     0.0543
========================== End of Observation Set ==========================

GROUP: 293235730PT 180
0129
0132          -4990.4800     0.0055    -0.0022     0.0052    -0.4202
                594.1820     0.0128     0.0077     0.0122     0.6325
              -2118.0280     0.0061    -0.0010     0.0055    -0.1814
========================== End of Observation Set ==========================
```

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

RESID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 303235730PT 181					
0130					
0132	-2592.8620	0.0034	-0.0022	0.0027	-0.7946
	80.5430	0.0080	0.0058	0.0064	0.9046
	-1482.3000	0.0037	-0.0011	0.0028	-0.4107
========== End of Observation Set ==========					
GROUP: 525635740PT 182					
0152					
0156	3139.6620	0.0079	-0.0019	0.0051	-0.3744
	-841.6140	0.0125	-0.0086	0.0080	-1.0713
	661.7450	0.0050	0.0025	0.0030	0.8151
========== End of Observation Set ==========					
GROUP: 526035740PT 183					
0152					
0160	5933.6540	0.0122	-0.0064	0.0111	-0.5704
	-2493.6700	0.0193	-0.0212	0.0175	-1.2119
	12.9110	0.0077	0.0065	0.0066	0.9817
========== End of Observation Set ==========					
GROUP: 230236510PT 184					
0523					
0902	-9790.3850	0.0079	0.0033	0.0076	0.4298
	1469.9150	0.0121	-0.0051	0.0114	-0.4478
	-3492.8700	0.0204	0.0029	0.0200	0.1433
========== End of Observation Set ==========					
GROUP: 170236510PT 185					
0517					
0902	-6828.7740	0.0038	0.0000	0.0029	0.0046
	305.3250	0.0078	-0.0001	0.0066	-0.0128
	-3457.2190	0.0067	0.0013	0.0053	0.2381
========== End of Observation Set ==========					
GROUP: 566035740PT 186					
0156					
0160	2793.9890	0.0076	-0.0014	0.0047	-0.3066
	-1652.0610	0.0119	-0.0076	0.0073	-1.0478
	-648.8320	0.0049	0.0021	0.0028	0.7295
========== End of Observation Set ==========					
GROUP: 034203440PT 187					
0342					
0344	3755.5150	0.0063	0.0006	0.0050	0.1224
	-1455.4040	0.0124	-0.0037	0.0100	-0.3646

RL .D:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	86.2310	0.0072	0.0021	0.0055	0.3882
========== End of Observation Set ==========					
GROUP: 737835220PT 188					
0173					
0178	4123.7040	0.0063	0.0015	0.0053	0.2806
	-772.2880	0.0108	-0.0072	0.0092	-0.7833
	1331.0580	0.0124	0.0032	0.0109	0.2957
========== End of Observation Set ==========					
GROUP: 077635220PT 189					
0107					
0176	-1339.2860	0.0047	-0.0124	0.0036	-3.4515
	-1378.8120	0.0081	-0.0079	0.0063	-1.2503
	-2679.3240	0.0093	0.0191	0.0075	2.5374
========== End of Observation Set ==========					
GROUP: 788535740PT 190					
0178					
0185	8986.8820	0.0092	-0.0515	0.0079	-6.5502
			^^^^^^^^^^^		
(	-3226.9050	0.0113	-0.0584	0.0085	-6.8980
			^^^^^^^^^^^		
	665.4390	0.0085	0.0264	0.0065	4.0760
========== End of Observation Set ==========					
GROUP: 921835810PT 191					
0192					
0318	7586.2310	0.0049	0.0007	0.0043	0.1619
	-2528.1470	0.0129	0.0102	0.0118	0.8622
	819.5250	0.0076	-0.0031	0.0068	-0.4532
========== End of Observation Set ==========					
GROUP: 922035810PT 192					
0192					
0320	4425.5690	0.0042	-0.0006	0.0034	-0.1670
	-1683.0900	0.0110	0.0049	0.0096	0.5096
	183.7740	0.0066	-0.0011	0.0056	-0.1998
========== End of Observation Set ==========					
GROUP: 922235810PT 193					
0192					
0322	2892.6920	0.0031	0.0002	0.0022	0.0717
	-1602.6390	0.0083	0.0092	0.0067	1.3706
	-589.6660	0.0048	-0.0022	0.0036	-0.5969
========== End of Observation Set ==========					

GROUP: 171835810PT 194
0317
0318

-1638.9480	0.0020	-0.0001	0.0012	-0.1172
211.1870	0.0047	-0.0022	0.0028	-0.7758
-646.1970	0.0032	0.0004	0.0019	0.2324

End of Observation Set

GROUP: 172035810PT 195
0317
0320

-4799.6120	0.0035	0.0006	0.0028	0.2104
1056.2380	0.0079	-0.0015	0.0065	-0.2267
-1281.9460	0.0053	0.0004	0.0043	0.0918

End of Observation Set

GROUP: 172235810PT 196
0317
0322

-6332.4870	0.0027	-0.0007	0.0020	-0.3447
1136.6950	0.0062	-0.0032	0.0047	-0.6765
-2055.3880	0.0042	0.0013	0.0032	0.4225

End of Observation Set

GROUP: 182035810PT 197
0318
0320

-3160.6640	0.0035	0.0007	0.0029	0.2580
845.0530	0.0079	-0.0013	0.0063	-0.2059
-635.7490	0.0053	-0.0000	0.0042	-0.0115

End of Observation Set

GROUP: 182235810PT 198
0318
0322

-4693.5390	0.0032	-0.0005	0.0026	-0.2070
925.5080	0.0074	-0.0010	0.0059	-0.1693
-1409.1900	0.0050	-0.0001	0.0040	-0.0225

End of Observation Set

GROUP: 202235810PT 199
0320
0322

-1532.8770	0.0029	0.0007	0.0021	0.3504
80.4560	0.0068	-0.0007	0.0049	-0.1423
-773.4410	0.0046	-0.0000	0.0034	-0.0127

End of Observation Set

GROUP: 179035820PT 200
0317
0190

-9868.4200	0.0050	-0.0012	0.0044	-0.2671
1093.3520	0.0064	0.0015	0.0055	0.2738
-4160.1010	0.0073	-0.0005	0.0066	-0.0814

R. ID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
		End of Observation Set			
GROUP: 179135820PT 201					
0317					
0191	-9536.9600	0.0056	-0.0044	0.0051	-0.8517
	1939.7570	0.0072	-0.0007	0.0064	-0.1074
	-2780.5830	0.0078	0.0006	0.0072	0.0837
		End of Observation Set			
GROUP: 172135820PT 202					
0317					
0321	-5056.4380	0.0041	-0.0025	0.0033	-0.7551
	70.6560	0.0053	0.0004	0.0042	0.1068
	-2819.8230	0.0062	0.0010	0.0052	0.1957
		End of Observation Set			
GROUP: 172835820PT 203					
0317					
0328	-2089.6750	0.0038	-0.0014	0.0031	-0.4428
	-1145.9300	0.0050	0.0036	0.0040	0.9034
	-2814.7120	0.0060	-0.0087	0.0053	-1.6592
		End of Observation Set			
GROUP: 909135820PT 204					
0190					
0191	331.4600	0.0032	-0.0032	0.0023	-1.3569
	846.4050	0.0041	-0.0022	0.0029	-0.7566
	1379.5150	0.0045	0.0041	0.0034	1.2139
		End of Observation Set			
GROUP: 902135820PT 205					
0190					
0321	4811.9810	0.0034	-0.0003	0.0026	-0.1340
	-1022.6970	0.0044	-0.0001	0.0033	-0.0219
	1340.2830	0.0051	-0.0034	0.0039	-0.8929
		End of Observation Set			
GROUP: 902835820PT 206					
0190					
0328	7778.7450	0.0039	-0.0002	0.0032	-0.0671
	-2239.2810	0.0051	0.0011	0.0041	0.2639
	1345.3890	0.0060	-0.0082	0.0053	-1.5502
		End of Observation Set			
GROUP: 912135820PT 207					
0191					

[illegible]	4480.5190	0.0041	0.0048	0.0034	1.4350
	[illegible]	0.0053	0.0041	0.0043	0.9660
	-39.2290	0.0065	-0.0106	0.0055	-1.9275

========== End of Observation Set ==========

GROUP: 912835820PT 208
191
0328

	7447.2840	0.0047	0.0040	0.0041	0.9789
	-3085.6870	0.0061	0.0043	0.0052	0.8200
	-34.1260	0.0072	-0.0123	0.0065	-1.9086

========== End of Observation Set ==========

GROUP: 212835820PT 209
321
0328

	2966.7630	0.0034	0.0011	0.0025	0.4504
	-1216.5860	0.0044	0.0032	0.0033	0.9699
	5.1110	0.0052	-0.0097	0.0040	-2.4408

========== End of Observation Set ==========

GROUP: 282635830PT 210
0328
0[illegible]

	-1796.2870	0.0034	0.0016	0.0028	0.5791
	-220.4820	0.0075	0.0072	0.0064	1.1296
	-1345.7520	0.0043	-0.0046	0.0036	-1.2674

========== End of Observation Set ==========

GROUP: 282735830PT 211
0328
0327

	-172.3900	0.0033	0.0013	0.0026	0.4798
	-402.3230	0.0071	0.0072	0.0058	1.2321
	-665.7040	0.0042	-0.0048	0.0034	-1.3915

========== End of Observation Set ==========

GROUP: 283035830PT 212
0328
0330

	2982.1860	0.0036	0.0008	0.0030	0.2792
	-1207.8680	0.0079	0.0060	0.0066	0.9159
	18.4620	0.0044	-0.0039	0.0036	-1.0753

========== End of Observation Set ==========

GROUP: 283135830PT 213
0328
0331

	4636.9420	0.0041	-0.0007	0.0035	-0.2078
	-1400.5400	0.0091	0.0065	0.0081	0.8030
	700.3980	0.0049	-0.0039	0.0043	-0.8917

========== End of Observation Set ==========

GROUP: 262735830PT 214

RESID:

0326
0327

1623.8980	0.0022	-0.0014	0.0014	-0.9517
-181.8390	0.0048	-0.0020	0.0032	-0.6415
680.0460	0.0027	0.0018	0.0018	1.0118

End of Observation Set

GROUP: 263035830PT 215
0326
0330

4778.4730	0.0031	-0.0008	0.0024	-0.3297
-987.3860	0.0068	-0.0012	0.0054	-0.2203
1364.2130	0.0037	0.0017	0.0030	0.5705

End of Observation Set

GROUP: 263135830PT 216
0326
0331

6433.2280	0.0031	-0.0014	0.0025	-0.5462
-1180.0590	0.0068	0.0002	0.0055	0.0446
2046.1500	0.0037	0.0007	0.0030	0.2486

End of Observation Set

GROUP: 273035830PT 217
0327
0330

3154.5760	0.0030	-0.0004	0.0023	-0.1889
-805.5460	0.0067	-0.0002	0.0052	-0.0305
684.1670	0.0037	-0.0002	0.0029	-0.0523

End of Observation Set

GROUP: 273135830PT 218
0327
0331

4809.3310	0.0031	-0.0010	0.0025	-0.4044
-998.2200	0.0069	0.0023	0.0056	0.4085
1366.1030	0.0038	-0.0001	0.0030	-0.0335

End of Observation Set

GROUP: 303135830PT 219
0330
0331

1654.7550	0.0029	-0.0006	0.0021	-0.2627
-192.6740	0.0063	0.0024	0.0047	0.5163
681.9370	0.0034	-0.0009	0.0025	-0.3741

End of Observation Set

GROUP: 171335840PT 220
0317
0313

6116.1440	0.0068	0.0072	0.0055	1.3034
-2112.9900	0.0093	0.0020	0.0075	0.2598
546.2150	0.0050	-0.0027	0.0038	-0.7108

End of Observation Set

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

F[illegible]:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 171235840PT 221					
0317					
0312	7615.6240	0.0055	0.0102	0.0047	2.1799
	-2722.5790	0.0081	0.0049	0.0068	0.7159
	550.2840	0.0054	0.0004	0.0045	0.0903
		End of Observation Set			
GROUP: 171535840PT 222					
0317					
0315	3001.0480	0.0047	0.0037	0.0031	1.2083
	-1211.3730	0.0065	-0.0003	0.0042	-0.0790
	23.0040	0.0042	-0.0005	0.0028	-0.1686
		End of Observation Set			
GROUP: 131235840PT 223					
0013					
0312	-246.2800	0.0062	-0.0025	0.0047	-0.5216
	-2256.5330	0.0088	0.0041	0.0065	0.6328
	-3312.1800	0.0063	0.0038	0.0049	0.7725
		End of Observation Set			
[illegible]UP: 131335840PT 224					
[illegible]3					
0313	-1745.7540	0.0086	-0.0115	0.0071	-1.6241
	-1646.9400	0.0108	-0.0028	0.0085	-0.3324
	-3316.2570	0.0072	0.0087	0.0057	1.5102
		End of Observation Set			
GROUP: 131535840PT 225					
0313					
0315	-3115.1000	0.0074	0.0005	0.0059	0.0925
	901.6120	0.0095	0.0027	0.0075	0.3615
	-523.2080	0.0053	-0.0008	0.0040	-0.1926
		End of Observation Set			
GROUP: 121335840PT 226					
0312					
0313	-1499.4830	0.0060	-0.0000	0.0046	-0.0032
	609.5840	0.0080	0.0021	0.0061	0.3433
	-4.0700	0.0050	-0.0021	0.0038	-0.5544
		End of Observation Set			
GROUP: 121535840PT 227					
0312					
0315	-4614.5770	0.0058	-0.0055	0.0045	-1.2190
	1511.2030	0.0082	-0.0022	0.0063	-0.3476

R. .D:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	-527.2820	0.0054	0.0011	0.0042	0.2655
========== End of Observation Set ==========					
GROUP: 130836010PT 228					
0013					
0308	6075.6630	0.0551	-0.0232	0.0549	-0.4223
	-4291.0730	0.0861	0.0220	0.0857	0.2567
	-2547.6420	0.0269	0.0213	0.0264	0.8059
========== End of Observation Set ==========					
GROUP: 130336010PT 229					
0013					
0803	4447.4330	0.0527	-0.0153	0.0525	-0.2913
	-3595.7510	0.0814	-0.0049	0.0811	-0.0606
	-2503.6570	0.0274	0.0379	0.0269	1.4064
========== End of Observation Set ==========					
GROUP: 080336010PT 230					
0308					
0803	-1628.2200	0.0025	-0.0021	0.0016	-1.3525
	695.3010	0.0087	-0.0059	0.0066	-0.8930
	43.9960	0.0056	0.0056	0.0044	1.2662
========== End of Observation Set ==========					
GROUP: 030936020PT 231					
0803					
0309	-172.8600	0.0017	-0.0005	0.0011	-0.4770
	-407.5090	0.0028	-0.0007	0.0017	-0.4185
	-672.1030	0.0022	0.0008	0.0014	0.5817
========== End of Observation Set ==========					
GROUP: 031036020PT 232					
0803					
0310	-345.5060	0.0021	-0.0006	0.0016	-0.3547
	-814.5890	0.0038	-0.0005	0.0029	-0.1721
	-1344.3460	0.0029	0.0014	0.0022	0.6314
========== End of Observation Set ==========					
GROUP: 033636020PT 233					
0803					
0336	-644.3780	0.0022	-0.0010	0.0018	-0.5909
	-1706.2090	0.0039	-0.0007	0.0030	-0.2301
	-2764.2440	0.0029	0.0010	0.0023	0.4444
========== End of Observation Set ==========					
GROUP: 091036020PT 234					

E. ID:

0309
0310 -172.6460 0.0020 -0.0000 0.0014 -0.0217
-407.0800 0.0037 0.0002 0.0027 0.0861
-672.2420 0.0027 -0.0005 0.0020 -0.2306
End of Observation Set

GROUP: 093636020PT 235
0309
0336 -471.5180 0.0017 -0.0005 0.0011 -0.4515
-1298.6990 0.0030 -0.0010 0.0020 -0.4904
-2092.1420 0.0023 0.0012 0.0015 0.7888
End of Observation Set

GROUP: 103636020PT 236
0310
0336 -298.8720 0.0019 -0.0005 0.0013 -0.3594
-891.6200 0.0035 -0.0002 0.0025 -0.0802
-1419.8990 0.0026 0.0007 0.0018 0.3633
End of Observation Set

GROUP: 363436030PT 237
0[illegible]
-4501.7520 0.0039 0.0049 0.0032 1.5288
1819.3650 0.0058 0.0051 0.0048 1.0655
-25.3320 0.0039 0.0000 0.0032 0.0116
End of Observation Set

GROUP: 360136030PT 238
0336
0801 -3757.0910 0.0042 0.0044 0.0033 1.3549
1517.2060 0.0059 0.0018 0.0046 0.3773
-22.4760 0.0037 -0.0009 0.0028 -0.3367
End of Observation Set

GROUP: 360236030PT 239
0336
0802 -2245.9700 0.0033 0.0026 0.0023 1.1306
903.5740 0.0046 0.0038 0.0031 1.2222
-19.6100 0.0032 -0.0003 0.0022 -0.1437
End of Observation Set

GROUP: 340136030PT 240
0334
0801 744.6640 0.0037 -0.0035 0.0027 -1.3086
-302.1600 0.0049 -0.0023 0.0035 -0.6688
2.8550 0.0036 0.0000 0.0026 0.0100
End of Observation Set

K GRID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 340236030PT 241					
0334					
0802	2255.7830	0.0037	-0.0033	0.0028	-1.1962
	-915.7890	0.0051	-0.0033	0.0038	-0.8669
	5.7210	0.0037	0.0007	0.0028	0.2341
========== End of Observation Set ==========					
GROUP: 010236030PT 242					
0801					
0802	1511.1190	0.0033	0.0001	0.0022	0.0639
	-613.6290	0.0045	-0.0009	0.0029	-0.3208
	2.8670	0.0033	-0.0004	0.0023	-0.1654
========== End of Observation Set ==========					
GROUP: 341236040PT 243					
0334					
0312	452.4280	0.0039	-0.0021	0.0028	-0.7336
	1226.0700	0.0083	-0.0034	0.0062	-0.5407
	1981.0190	0.0051	-0.0012	0.0038	-0.3079
========== End of Observation Set ==========					
(UP: 343136040PT 244					
0334					
0331	-4615.9470	0.0038	0.0036	0.0027	1.3410
	1402.1840	0.0081	-0.0032	0.0060	-0.5239
	-683.5940	0.0048	0.0009	0.0035	0.2493
========== End of Observation Set ==========					
GROUP: 343236040PT 245					
0334					
0332	-4483.6600	0.0054	0.0044	0.0045	0.9793
	1810.4380	0.0117	0.0002	0.0099	0.0237
	-33.3790	0.0069	-0.0026	0.0057	-0.4547
========== End of Observation Set ==========					
GROUP: 123136040PT 246					
0312					
0331	-5068.3700	0.0048	0.0007	0.0041	0.1705
	176.1240	0.0088	-0.0098	0.0075	-1.3015
	-2664.6190	0.0071	0.0080	0.0063	1.2755
========== End of Observation Set ==========					
GROUP: 123236040PT 247					
0312					
0332	-4936.0810	0.0061	-0.0005	0.0053	-0.1000
	584.3790	0.0115	-0.0074	0.0099	-0.7444

F 10:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	-2014.4060	0.0088	0.0066	0.0078	0.8402
========== End of Observation Set ==========					
GROUP: 313236040PT 248					
0331					
0332	132.2890	0.0028	-0.0012	0.0014	-0.8460
	408.2560	0.0052	0.0014	0.0026	0.5456
	650.2120	0.0040	-0.0004	0.0022	-0.1967
========== End of Observation Set ==========					
GROUP: 878936050PT 249					
0187					
0189	4070.6230	0.0037	-0.0016	0.0025	-0.6464
	-1783.0690	0.0050	-0.0004	0.0031	-0.1308
	-188.8820	0.0039	0.0034	0.0028	1.2430
========== End of Observation Set ==========					
GROUP: 872536050PT 250					
0187					
0[illegible]	7593.3910	0.0058	-0.0062	0.0049	-1.2537
	-2626.2220	0.0076	-0.0045	0.0062	-0.7220
	660.5750	0.0056	0.0094	0.0048	1.9771
========== End of Observation Set ==========					
GROUP: 872636050PT 251					
0187					
0326	9280.0460	0.0053	-0.0018	0.0046	-0.3945
	-2841.0250	0.0072	-0.0001	0.0058	-0.0221
	1332.9270	0.0055	0.0040	0.0048	0.8303
========== End of Observation Set ==========					
GROUP: 892536050PT 252					
0189					
0325	3522.7630	0.0033	0.0004	0.0021	0.2160
	-843.1570	0.0054	-0.0001	0.0036	-0.0151
	849.4630	0.0033	-0.0000	0.0021	-0.0231
========== End of Observation Set ==========					
GROUP: 892636050PT 253					
0189					
0326	5209.4250	0.0040	-0.0022	0.0031	-0.7156
	-1057.9550	0.0063	-0.0007	0.0048	-0.1494
	1521.8060	0.0040	0.0036	0.0030	1.2060
========== End of Observation Set ==========					
[illegible]UP: 252636050PT 254					

R. ID:

0325
0326

1686.6610	0.0036	-0.0016	0.0024	-0.6841
-214.7970	0.0055	-0.0017	0.0038	-0.4416
672.3430	0.0035	0.0036	0.0023	1.5638

End of Observation Set

GROUP: 878536060PT 255
0187
0185

-1293.0250	0.0055	0.0078	0.0039	1.9662
1007.3220	0.0097	0.0135	0.0070	1.9226
640.7000	0.0030	-0.0047	0.0020	-2.3402

End of Observation Set

GROUP: 878636060PT 256
0187
0186

181.4590	0.0081	0.0002	0.0065	0.0345
400.1860	0.0142	0.0014	0.0115	0.1210
637.0270	0.0044	-0.0006	0.0035	-0.1705

End of Observation Set

GROUP: 879036060PT 257
0187
0190

3297.6020	0.0102	-0.0172	0.0098	-1.7608
-381.2430	0.0181	-0.0274	0.0173	-1.5886
1333.3020	0.0056	0.0048	0.0051	0.9454

End of Observation Set

GROUP: 858636060PT 258
0185
0186

1474.4840	0.0061	-0.0075	0.0040	-1.8683
-607.1350	0.0106	-0.0131	0.0069	-1.9071
-3.6720	0.0035	0.0031	0.0023	1.3847

End of Observation Set

GROUP: 859036060PT 259
0185
0190

4590.6240	0.0089	-0.0220	0.0079	-2.7698
-1388.5700	0.0152	-0.0359	0.0136	-2.6415
692.6030	0.0050	0.0085	0.0043	1.9873

End of Observation Set

GROUP: 869036060PT 260
0186
0190

3116.1400	0.0085	-0.0144	0.0070	-2.0709
-781.4340	0.0146	-0.0238	0.0120	-1.9925
696.2750	0.0048	0.0054	0.0038	1.4224

End of Observation Set

FIXED:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 394036110PT 261					
0339					
0340	232.0230	0.0019	0.0000	0.0011	0.0228
	411.2970	0.0058	0.0001	0.0038	0.0194
	707.1700	0.0036	0.0003	0.0024	0.1095
End of Observation Set					
GROUP: 390236110PT 262					
0339					
0702	2797.3370	0.0027	-0.0028	0.0021	-1.3688
	-1560.3340	0.0080	0.0142	0.0067	2.1248
	-596.3500	0.0050	-0.0083	0.0042	-1.9827
End of Observation Set					
GROUP: 400236110PT 263					
0340					
0702	2565.3140	0.0025	-0.0029	0.0019	-1.4925
	-1971.6300	0.0076	0.0131	0.0063	2.0941
	-1303.5210	0.0046	-0.0076	0.0037	-2.0385
End of Observation Set					
GROUP: 393636120PT 264					
0339					
0336	-4617.8340	0.0024	0.0016	0.0020	0.8184
	1409.1990	0.0047	-0.0010	0.0037	-0.2643
	-663.7550	0.0034	0.0006	0.0028	0.2279
End of Observation Set					
GROUP: 390436120PT 265					
0339					
0804	-1314.5040	0.0022	-0.0006	0.0017	-0.3651
	1055.2610	0.0044	-0.0017	0.0034	-0.4880
	725.2490	0.0033	0.0013	0.0025	0.5193
End of Observation Set					
GROUP: 390536120PT 266					
0339					
0805	-1478.1870	0.0020	0.0001	0.0015	0.0616
	638.8640	0.0038	-0.0003	0.0027	-0.1258
	50.1810	0.0028	-0.0002	0.0020	-0.1035
End of Observation Set					
GROUP: 360436120PT 267					
0336					
0804	3303.3290	0.0018	-0.0012	0.0013	-0.9343
	-353.9390	0.0038	0.0003	0.0027	0.1208

R. .D:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	1389.0050	0.0028	-0.0003	0.0020	-0.1629

End of Observation Set

GROUP: 360536120PT 268

0336					
0805	3139.6480	0.0017	-0.0025	0.0012	-2.0908
	-770.3330	0.0034	-0.0014	0.0025	-0.5454
	713.9350	0.0025	0.0002	0.0019	0.0821

End of Observation Set

GROUP: 040536120PT 269

0804					
0805	-163.6810	0.0016	-0.0013	0.0011	-1.2126
	-416.3950	0.0033	-0.0007	0.0022	-0.3047
	-675.0700	0.0025	0.0005	0.0016	0.2924

End of Observation Set

GROUP: 052136150PT 270

0805					
0021	2223.4740	0.0033	-0.0085	0.0023	-3.6754
	-1475.7740	0.0053	-0.0041	0.0035	-1.1696
	-682.9140	0.0033	0.0052	0.0022	2.4133

End of Observation Set

GROUP: 050736150PT 271

0805					
0707	-1172.6220	0.0050	-0.0053	0.0043	-1.2122
	-2178.2030	0.0078	-0.0051	0.0066	-0.7730
	-3676.5430	0.0048	0.0033	0.0041	0.8164

End of Observation Set

GROUP: 050836150PT 272

0805					
0708	-2341.5990	0.0052	-0.0061	0.0047	-1.3005
	-1476.7830	0.0090	-0.0119	0.0080	-1.5001
	-3378.2160	0.0056	-0.0002	0.0049	-0.0386

End of Observation Set

GROUP: 210736150PT 273

0021					
0707	-3396.0940	0.0046	0.0012	0.0038	0.3297
	-702.4260	0.0076	-0.0040	0.0061	-0.6602
	-2993.6310	0.0045	0.0001	0.0036	0.0230

End of Observation Set

GROUP: 210836150PT 274

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

GROUP:

0021
0708 -4565.0720 0.0048 0.0014 0.0040 0.3563
-1.0090 0.0086 -0.0079 0.0071 -1.1012
-2695.3040 0.0053 -0.0034 0.0044 -0.7756
End of Observation Set

GROUP: 07083613OPT 275
0707
0708 -1168.9780 0.0033 0.0002 0.0022 0.0929
701.4170 0.0058 -0.0038 0.0039 -0.9752
298.3270 0.0036 -0.0035 0.0024 -1.4634
End of Observation Set

GROUP: 07033613OPT 276
0707
0703 4783.4400 0.0042 -0.0026 0.0036 -0.7277
-1687.9920 0.0053 -0.0028 0.0043 -0.6491
318.4590 0.0055 0.0067 0.0047 1.4336
End of Observation Set

GROUP: 07043613OPT 277
0707
4276.2030 0.0047 -0.0011 0.0039 -0.2813
-2445.4600 0.0058 -0.0006 0.0047 -0.1233
-1027.4470 0.0055 0.0023 0.0044 0.5108
End of Observation Set

GROUP: 07053613OPT 278
0707
0705 1796.0890 0.0034 0.0000 0.0025 0.0134
-1477.4080 0.0043 -0.0006 0.0031 -0.2105
-1008.5960 0.0043 0.0024 0.0031 0.7670
End of Observation Set

GROUP: 03043613OPT 279
0703
0704 -507.2360 0.0029 0.0005 0.0018 0.2797
-757.4660 0.0037 0.0002 0.0023 0.1034
-1345.9100 0.0038 -0.0005 0.0024 -0.1935
End of Observation Set

GROUP: 03053613OPT 280
0703
0705 -2987.3510 0.0028 0.0026 0.0018 1.4458
210.5830 0.0035 0.0032 0.0023 1.4006
-1327.0540 0.0041 -0.0054 0.0029 -1.8517
End of Observation Set

R. ID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 040536130PT 281					
0704					
0705	-2480.1130	0.0041	0.0001	0.0032	0.0374
	968.0520	0.0052	-0.0001	0.0041	-0.0166
	18.8500	0.0051	0.0011	0.0040	0.2776
========== End of Observation Set ==========					
GROUP: 083436140PT 282					
0708					
0334	-5299.7880	0.0047	0.0005	0.0041	0.1197
	4066.5030	0.0101	-0.0036	0.0090	-0.4036
	2638.9540	0.0061	-0.0049	0.0054	-0.9198
========== End of Observation Set ==========					
GROUP: 081136140PT 283					
0708					
0711	-5651.2980	0.0047	-0.0042	0.0039	-1.0898
	888.7670	0.0101	-0.0104	0.0084	-1.2306
	-1898.1630	0.0066	0.0032	0.0056	0.5660
========== End of Observation Set ==========					
GROUP: 081236140PT 284					
0708					
0712	-6086.2340	0.0042	-0.0015	0.0034	-0.4386
	2452.0910	0.0089	-0.0048	0.0072	-0.6674
	-30.0530	0.0057	-0.0013	0.0046	-0.2783
========== End of Observation Set ==========					
GROUP: 341136140PT 285					
0334					
0711	-351.5170	0.0033	0.0023	0.0024	0.9610
	-3177.7480	0.0068	0.0053	0.0048	1.0979
	-4537.1070	0.0041	-0.0019	0.0028	-0.6711
========== End of Observation Set ==========					
GROUP: 341236140PT 286					
0334					
0712	-786.4490	0.0028	0.0010	0.0018	0.5630
	-1614.4160	0.0061	0.0028	0.0040	0.7051
	-2669.0030	0.0036	-0.0004	0.0023	-0.1554
========== End of Observation Set ==========					
GROUP: 111236140PT 287					
0711					
0712	-434.9330	0.0031	-0.0002	0.0020	-0.1240
	1563.3300	0.0063	-0.0004	0.0041	-0.1059

RESULTS:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	1868.1050	0.0040	0.0005	0.0026	0.1978
========== End of Observation Set ==========					
GROUP: 051905200PT 288					
0519					
0520	338.2490	0.0035	0.0020	0.0017	1.1635
	832.3490	0.0054	-0.0009	0.0025	-0.3547
	1344.7060	0.0048	0.0010	0.0023	0.4391
========== End of Observation Set ==========					
GROUP: 051905220PT 289					
0519					
0522	3429.1930	0.0052	0.0051	0.0040	1.2821
	82.1870	0.0081	-0.0022	0.0062	-0.3529
	2042.5540	0.0069	0.0033	0.0053	0.6180
========== End of Observation Set ==========					
GROUP: 052005220PT 290					
0520					
0522	3090.9430	0.0051	0.0042	0.0036	1.1634
	-750.1610	0.0082	-0.0023	0.0058	-0.3990
	697.8480	0.0071	0.0022	0.0050	0.4482
========== End of Observation Set ==========					
GROUP: 052205230PT 291					
0522					
0523	317.6990	0.0036	-0.0054	0.0023	-2.3853
	856.4080	0.0058	0.0010	0.0034	0.3047
	1383.1780	0.0050	-0.0019	0.0033	-0.5697
========== End of Observation Set ==========					
GROUP: 051903440PT 292					
0519					
0344	-2465.7290	0.0057	-0.0015	0.0041	-0.3696
	520.2420	0.0105	-0.0000	0.0076	-0.0054
	-682.9830	0.0064	-0.0003	0.0044	-0.0660
========== End of Observation Set ==========					
GROUP: 051909010PT 293					
0519					
0901	-4550.1780	0.0065	-0.0034	0.0053	-0.6487
	1830.5760	0.0115	-0.0003	0.0093	-0.0312
	-29.6230	0.0080	-0.0000	0.0064	-0.0003
========== End of Observation Set ==========					
GROUP: 034209010PT 294					

RESID:

0342
0901

1671.0630	0.0040	0.0017	0.0023	0.7437
-145.0750	0.0073	0.0011	0.0043	0.2527
739.5940	0.0053	-0.0006	0.0032	-0.1763

End of Observation Set

GROUP: 034409010PT 295
0344
0901

-2084.4500	0.0056	-0.0009	0.0040	-0.2246
1310.3360	0.0101	-0.0022	0.0071	-0.3160
653.3590	0.0066	0.0013	0.0047	0.2719

End of Observation Set

GROUP: 034207020PT 296
0342
0702

-1831.2900	0.0043	-0.0013	0.0037	-0.3427
-158.4530	0.0060	-0.0036	0.0048	-0.7441
-1267.5940	0.0082	0.0016	0.0077	0.2106

End of Observation Set

GROUP: 034209020PT 297
0342
0902

177.7610	0.0037	-0.0049	0.0029	-1.6940
432.8580	0.0054	-0.0039	0.0040	-0.9655
702.0760	0.0074	0.0067	0.0062	1.0698

End of Observation Set

GROUP: 070209030PT 298
0702
0903

-231.1660	0.0056	-0.0027	0.0051	-0.5214
1515.4790	0.0078	0.0028	0.0068	0.4173
1995.5680	0.0106	0.0075	0.0099	0.7566

End of Observation Set

GROUP: 090209030PT 299
0902
0903

-2240.2120	0.0046	-0.0041	0.0040	-1.0172
924.1710	0.0065	0.0002	0.0055	0.0274
25.8940	0.0089	0.0064	0.0080	0.8095

End of Observation Set

GROUP: 030603070PT 300
0306
0307

-2013.6500	0.0037	-0.0026	0.0028	-0.9457
795.8140	0.0108	0.0011	0.0085	0.1292
-40.9530	0.0045	0.0019	0.0034	0.5579

End of Observation Set

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

R[illegible]:

TATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
ROUP: 030603080PT 301					
306					
0308	-2997.5800	0.0038	-0.0026	0.0031	-0.8628
	721.2790	0.0114	0.0032	0.0097	0.3282
	-707.5550	0.0048	0.0005	0.0039	0.1370
End of Observation Set					
ROUP: 030603400PT 302					
306					
0340	-420.3260	0.0035	-0.0024	0.0028	-0.8470
	-1287.5360	0.0103	0.0026	0.0090	0.2936
	-2056.8720	0.0043	0.0008	0.0035	0.2287
End of Observation Set					
ROUP: 030703080PT 303					
0307					
0308	-983.9270	0.0037	-0.0030	0.0028	-1.0729
	-74.5300	0.0113	-0.0029	0.0088	-0.3315
	-666.6070	0.0047	0.0036	0.0036	1.0228
End of Observation Set					
[illegible]JP: 030703400PT 304					
0307					
0340	1593.3240	0.0033	0.0002	0.0023	0.0960
	-2083.3510	0.0089	0.0025	0.0062	0.4082
	-2015.9190	0.0039	-0.0011	0.0028	-0.3921
End of Observation Set					
ROUP: 030803400PT 305					
0308					
0340	2577.2520	0.0040	0.0023	0.0035	0.6526
	-2008.8220	0.0121	0.0065	0.0107	0.6027
	-1349.3130	0.0051	-0.0037	0.0043	-0.8604
End of Observation Set					
ROUP: 031736510PT 306					
0303					
0517	5048.5750	0.0033	-0.0014	0.0024	-0.5924
	-600.0420	0.0053	0.0040	0.0038	1.0598
	2026.4890	0.0056	-0.0015	0.0041	-0.3684
End of Observation Set					
GROUP: 032336510PT 307					
0303					
0523	8010.1850	0.0041	-0.0037	0.0035	-1.0530
	-1764.6310	0.0066	0.0081	0.0057	1.4170

R. ID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	2062.1370	0.0066	-0.0001	0.0058	-0.0250

End of Observation Set

GROUP: 030236510PT 308
0303
0902

-1780.2020	0.0025	0.0016	0.0018	0.8927
-294.7160	0.0046	0.0029	0.0033	0.8795
-1430.7270	0.0044	-0.0033	0.0031	-1.0720

End of Observation Set

GROUP: 172336510PT 309
0517
0523

2961.6090	0.0034	-0.0013	0.0024	-0.5235
-1164.5890	0.0053	0.0040	0.0036	1.1225
35.6520	0.0058	-0.0026	0.0042	-0.6183

End of Observation Set

GROUP: 030136520PT 310
0303
0301

1860.3760	0.0020	-0.0007	0.0014	-0.5021
194.6900	0.0046	-0.0031	0.0033	-0.9430
1330.1760	0.0030	0.0008	0.0021	0.3949

End of Observation Set

GROUP: 030236520PT 311
0303
0302

197.9010	0.0022	-0.0003	0.0017	-0.1785
382.4830	0.0054	-0.0040	0.0044	-0.9028
653.0820	0.0035	0.0026	0.0028	0.9352

End of Observation Set

GROUP: 031636520PT 312
0303
0516

5229.8970	0.0026	-0.0006	0.0022	-0.2877
-198.7350	0.0060	-0.0063	0.0051	-1.2223
2698.3350	0.0040	0.0028	0.0033	0.8366

End of Observation Set

GROUP: 010236520PT 313
0301
0302

-1662.4740	0.0019	-0.0006	0.0013	-0.4431
187.7930	0.0046	-0.0008	0.0033	-0.2454
-677.0920	0.0030	-0.0003	0.0021	-0.1225

End of Observation Set

GROUP: 011636520PT 314

R[illegible]:

[illegible]301
0516

3369.5210	0.0019	0.0001	0.0013	0.0796
-393.4260	0.0042	-0.0021	0.0028	-0.7638
1368.1600	0.0028	0.0009	0.0018	0.4978

End of Observation Set

GROUP: 021636520PT 315
0302
0516

5031.9960	0.0025	-0.0003	0.0020	-0.1589
-581.2200	0.0061	-0.0003	0.0050	-0.0585
2045.2530	0.0040	0.0002	0.0033	0.0537

End of Observation Set

GROUP: 020436530PT 316
0302
0304

-1646.4230	0.0024	-0.0003	0.0015	-0.2151
184.6700	0.0031	-0.0007	0.0020	-0.3450
-671.6930	0.0044	-0.0003	0.0029	-0.0951

End of Observation Set

GROUP: 020636530PT 317
0[illegible]

-6132.1300	0.0033	-0.0013	0.0027	-0.4711
1990.6490	0.0044	-0.0015	0.0035	-0.4448
-693.0930	0.0061	0.0029	0.0052	0.5575

End of Observation Set

GROUP: 020336530PT 318
0302
0903

-4218.3180	0.0031	0.0008	0.0025	0.3241
246.9790	0.0040	0.0000	0.0032	0.0123
-2057.9130	0.0054	-0.0014	0.0043	-0.3292

End of Observation Set

GROUP: 040636530PT 319
0304
0306

-4485.7060	0.0031	-0.0019	0.0024	-0.8190
1805.9790	0.0041	-0.0009	0.0031	-0.2757
-21.3990	0.0057	0.0021	0.0045	0.4783

End of Observation Set

GROUP: 040336530PT 320
0304
0903

-2571.8950	0.0028	0.0011	0.0020	0.5561
62.3100	0.0037	-0.0003	0.0027	-0.1016
-1386.2190	0.0051	-0.0021	0.0038	-0.5653

End of Observation Set

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

RESID.

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 060336530PT 321					
0306					
0903	1913.8110	0.0027	0.0031	0.0020	1.5754
	-1743.6700	0.0035	0.0016	0.0025	0.6426
	-1364.8200	0.0047	-0.0043	0.0035	-1.2222
End of Observation Set					
GROUP: 081400210PT 322					
0508					
0514	-6152.8130	0.0025	-0.0017	0.0018	-0.9428
	1973.6120	0.0037	0.0007	0.0026	0.2499
	-689.0990	0.0026	-0.0002	0.0018	-0.0960
End of Observation Set					
GROUP: 082300210PT 323					
0508					
0523	-6690.2600	0.0036	0.0017	0.0029	0.5821
	778.2950	0.0049	0.0009	0.0039	0.2260
	-2688.2490	0.0032	-0.0006	0.0025	-0.2559
End of Observation Set					
GROUP: 082700210PT 324					
0[illegible]3					
0[illegible]7	-3325.9860	0.0027	0.0003	0.0018	0.1558
	379.1880	0.0039	0.0006	0.0025	0.2435
	-1343.9690	0.0028	0.0002	0.0018	0.1004
End of Observation Set					
GROUP: 142300210PT 325					
0514					
0523	-537.4470	0.0037	0.0034	0.0032	1.0829
	-1195.3170	0.0052	0.0002	0.0044	0.0520
	-1999.1500	0.0036	-0.0005	0.0029	-0.1580
End of Observation Set					
GROUP: 142700210PT 326					
0514					
0527	2826.8280	0.0033	0.0010	0.0024	0.4035
	-1594.4230	0.0047	-0.0010	0.0035	-0.2978
	-654.8690	0.0033	-0.0006	0.0024	-0.2660
End of Observation Set					
GROUP: 232700210PT 327					
0523					
0527	3364.2750	0.0044	-0.0024	0.0037	-0.6641
	-399.1070	0.0060	-0.0003	0.0050	-0.0534

R[illegible]:

TATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	1344.2800	0.0041	0.0008	0.0034	0.2410
		End of Observation Set			

GROUP: 080400220PT 328
508
0504

3477.4980	0.0023	0.0012	0.0017	0.7197
31.8160	0.0043	-0.0007	0.0032	-0.2233
2021.9640	0.0045	0.0006	0.0036	0.1738
	End of Observation Set			

GROUP: 080500220PT 329
508
0505

3315.1370	0.0031	0.0008	0.0024	0.3253
-374.4680	0.0052	-0.0005	0.0040	-0.1232
1345.0700	0.0058	-0.0011	0.0046	-0.2304
	End of Observation Set			

GROUP: 083100220PT 330
508
0[illegible]

2808.7470	0.0025	-0.0015	0.0019	-0.7704
-1129.4820	0.0043	-0.0019	0.0030	-0.6104
4.5950	0.0048	0.0004	0.0038	0.1052
	End of Observation Set			

GROUP: 040500220PT 331
0504
0505

-162.3620	0.0024	0.0005	0.0016	0.3317
-406.2860	0.0045	0.0022	0.0031	0.7152
-676.8940	0.0047	-0.0017	0.0033	-0.5117
	End of Observation Set			

GROUP: 043100220PT 332
0504
0531

-668.7510	0.0028	-0.0027	0.0022	-1.2064
-1161.2960	0.0051	-0.0031	0.0040	-0.7773
-2017.3710	0.0054	0.0018	0.0045	0.3955
	End of Observation Set			

GROUP: 053100220PT 333
0505
0531

-506.3940	0.0032	0.0018	0.0026	0.6875
-755.0180	0.0052	0.0026	0.0040	0.6627
-1340.4700	0.0058	-0.0036	0.0046	-0.7734
	End of Observation Set			

[illegible]UP: 312900230PT 334

RESID.

0531
0529

-770.9090	0.0022	-0.0023	0.0014	-1.6045
-198.8610	0.0060	0.0013	0.0041	0.3229
-710.2240	0.0025	0.0003	0.0014	0.2161

End of Observation Set

GROUP: 313000230PT 335
0531
0530

-183.5260	0.0026	-0.0010	0.0019	-0.5323
-892.7260	0.0070	-0.0034	0.0053	-0.6413
-1320.5180	0.0029	0.0006	0.0020	0.3222

End of Observation Set

GROUP: 293000230PT 336
0529
0530

587.3830	0.0025	0.0013	0.0018	0.7148
-693.8660	0.0068	-0.0037	0.0047	-0.7878
-610.2930	0.0027	-0.0007	0.0018	-0.3612

End of Observation Set

GROUP: 222500240PT 337
0522
0525

3176.1210	0.0069	0.0109	0.0050	2.1868
-788.0970	0.0097	0.0137	0.0070	1.9418
715.4060	0.0049	-0.0043	0.0035	-1.2513

End of Observation Set

GROUP: 252600240PT 338
0525
0526

176.8370	0.0051	0.0061	0.0028	2.1902
420.6630	0.0071	0.0074	0.0038	1.9639
669.7760	0.0036	-0.0024	0.0019	-1.2488

End of Observation Set

GROUP: 131400310PT 339
0513
0514

-164.7860	0.0027	0.0043	0.0020	2.1292
-409.4850	0.0041	-0.0051	0.0031	-1.6680
-672.3220	0.0041	0.0017	0.0031	0.5466

End of Observation Set

GROUP: 131500310PT 340
0513
0515

-1659.1300	0.0028	0.0018	0.0020	0.8990
186.5860	0.0043	-0.0012	0.0031	-0.4051
-681.4690	0.0041	0.0013	0.0029	0.4405

End of Observation Set

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

PL ..D:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 131600310PT 341					
0513					
0516	-3482.5120	0.0032	0.0018	0.0025	0.7176
	-38.9260	0.0050	0.0008	0.0039	0.2013
	-2035.2690	0.0048	-0.0008	0.0038	-0.2188
End of Observation Set					
GROUP: 141500310PT 342					
0514					
0515	-1494.3440	0.0028	-0.0026	0.0020	-1.2627
	596.0720	0.0043	0.0029	0.0031	0.9348
	-9.1460	0.0042	-0.0014	0.0031	-0.4569
End of Observation Set					
GROUP: 141600310PT 343					
0514					
0516	-3317.7260	0.0032	-0.0025	0.0026	-0.9748
	370.5600	0.0050	0.0049	0.0041	1.2128
	-1362.9470	0.0049	-0.0026	0.0040	-0.6350
End of Observation Set					
GROUP: 151600310PT 344					
0515					
0516	-1823.3810	0.0030	-0.0009	0.0022	-0.4149
	-225.5120	0.0047	0.0020	0.0035	0.5876
	-1353.8020	0.0046	-0.0001	0.0035	-0.0368
End of Observation Set					
GROUP: 130400320PT 345					
0513					
0504	9465.5370	0.0066	-0.0047	0.0062	-0.7604
	-2351.3010	0.0145	0.0135	0.0139	0.9717
	2038.7520	0.0096	-0.0085	0.0090	-0.9436
End of Observation Set					
GROUP: 130700320PT 346					
0513					
0507	6314.3650	0.0048	-0.0031	0.0039	-0.7879
	-1561.6500	0.0098	0.0034	0.0081	0.4255
	1360.7740	0.0067	-0.0018	0.0055	-0.3277
End of Observation Set					
GROUP: 131100320PT 347					
0513					
0511	2035.1650	0.0030	-0.0019	0.0018	-1.0753
	-524.2930	0.0064	0.0042	0.0039	1.0710

R. ID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	411.0440	0.0042	-0.0021	0.0025	-0.8399
		End of Observation Set			
GROUP: 040700320PT 348					
0504					
0507	-3151.1740	0.0041	0.0036	0.0030	1.2115
	789.6470	0.0088	-0.0061	0.0067	-0.9117
	-677.9740	0.0058	0.0027	0.0042	0.6401
		End of Observation Set			
GROUP: 041100320PT 349					
0504					
0511	-7430.3730	0.0055	0.0038	0.0048	0.7986
	1827.0080	0.0121	-0.0093	0.0107	-0.8673
	-1627.7070	0.0080	0.0054	0.0070	0.7772
		End of Observation Set			
GROUP: 071100320PT 350					
0507					
0511	-4279.2000	0.0036	0.0012	0.0023	0.5214
	1037.3600	0.0073	-0.0022	0.0047	-0.4727
	-949.7310	0.0050	0.0007	0.0033	0.2177
		End of Observation Set			
GROUP: 040100330PT 351					
0504					
0501	3153.5380	0.0033	-0.0001	0.0026	-0.0456
	-774.9190	0.0051	0.0007	0.0039	0.1774
	670.1390	0.0065	0.0021	0.0052	0.3965
		End of Observation Set			
GROUP: 040200330PT 352					
0504					
0502	1570.5150	0.0023	0.0005	0.0014	0.3767
	-127.4720	0.0037	0.0008	0.0022	0.3762
	750.0090	0.0046	-0.0005	0.0029	-0.1864
		End of Observation Set			
GROUP: 043300330PT 353					
0504					
0533	2779.2640	0.0035	0.0012	0.0030	0.3964
	-1603.9850	0.0063	0.0023	0.0053	0.4277
	-666.1560	0.0072	-0.0021	0.0065	-0.3232
		End of Observation Set			
GROUP: 010200330PT 354					

```
PLID:

0501
0502          -1583.0220      0.0028     -0.0003      0.0020     -0.1749
               647.4480      0.0044     -0.0009      0.0029     -0.2975
                79.8670      0.0054      0.0004      0.0036      0.1046
========================== End of Observation Set ==========================

GROUP: 01330033OPT 355
0501
0533           -374.2730      0.0028      0.0003      0.0019      0.1629
               -829.0660      0.0047      0.0016      0.0032      0.4808
              -1336.3000      0.0056      0.0008      0.0039      0.2065
========================== End of Observation Set ==========================

GROUP: 02330033OPT 356
0502
0533           1208.7490      0.0034      0.0007      0.0028      0.2377
              -1476.5120      0.0060      0.0004      0.0049      0.0878
              -1416.1660      0.0071     -0.0006      0.0059     -0.0963
========================== End of Observation Set ==========================

GROUP: 33190034OPT 357
05
              -6655.2960      0.0047      0.0036      0.0040      0.8957
                349.0120      0.0121      0.0082      0.0106      0.7705
              -3256.3010      0.0049     -0.0032      0.0040     -0.8054
========================== End of Observation Set ==========================

GROUP: 33300034OPT 358
0533
0530          -3631.5460      0.0048      0.0001      0.0042      0.0186
               -450.0520      0.0125      0.0062      0.0113      0.5509
              -2671.7280      0.0050     -0.0005      0.0042     -0.1144
========================== End of Observation Set ==========================

GROUP: 33320034OPT 359
0533
0532           -151.3630      0.0031      0.0000      0.0019      0.0214
               -380.7450      0.0083      0.0029      0.0053      0.5367
               -549.3920      0.0033     -0.0006      0.0020     -0.2857
========================== End of Observation Set ==========================

GROUP: 19300034OPT 360
0019
0530           3023.7450      0.0043      0.0015      0.0037      0.4024
               -799.0780      0.0122      0.0120      0.0106      1.1297
                584.5770      0.0049     -0.0012      0.0041     -0.3003
========================== End of Observation Set ==========================
```

RECID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
GROUP: 193200340PT 361					
0019					
0532	6503.9320	0.0045	-0.0026	0.0036	-0.7159
	-729.7590	0.0122	-0.0033	0.0098	-0.3396
	2706.9090	0.0048	0.0027	0.0038	0.7097
End of Observation Set					
GROUP: 303200340PT 362					
0530					
0532	3480.1810	0.0044	0.0020	0.0036	0.5492
	69.3070	0.0120	-0.0033	0.0098	-0.3418
	2122.3370	0.0048	-0.0011	0.0037	-0.2926
End of Observation Set					
GROUP: 420200910PT 363					
0342					
0702	-1831.2990	0.0038	0.0077	0.0031	2.4765
	-158.4640	0.0114	0.0074	0.0108	0.6918
	-1267.5850	0.0044	-0.0074	0.0033	-2.2322
End of Observation Set					
GROUP: 919200920PT 364					
0..1					
0192	311.7840	0.0076	0.0005	0.0071	0.0736
	799.5570	0.0126	0.0083	0.0118	0.7067
	1314.8620	0.0046	0.0019	0.0036	0.5236
End of Observation Set					
GROUP: 192600930PT 365					
0019					
0526	-3256.4390	0.0054	-0.0099	0.0044	-2.2528
	777.6290	0.0151	-0.0078	0.0131	-0.5982
	-785.7460	0.0080	-0.0067	0.0068	-0.9876
End of Observation Set					
GROUP: 192900930PT 366					
0019					
0529	2436.3610	0.0037	0.0012	0.0030	0.3980
	-105.1960	0.0102	-0.0003	0.0084	-0.0314
	1194.8710	0.0055	-0.0016	0.0048	-0.3288
End of Observation Set					
GROUP: 020301410PT 367					
0702					
0703	-664.7160	0.0033	0.0051	0.0021	2.4536
	-1667.0240	0.0073	0.0045	0.0051	0.8834

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

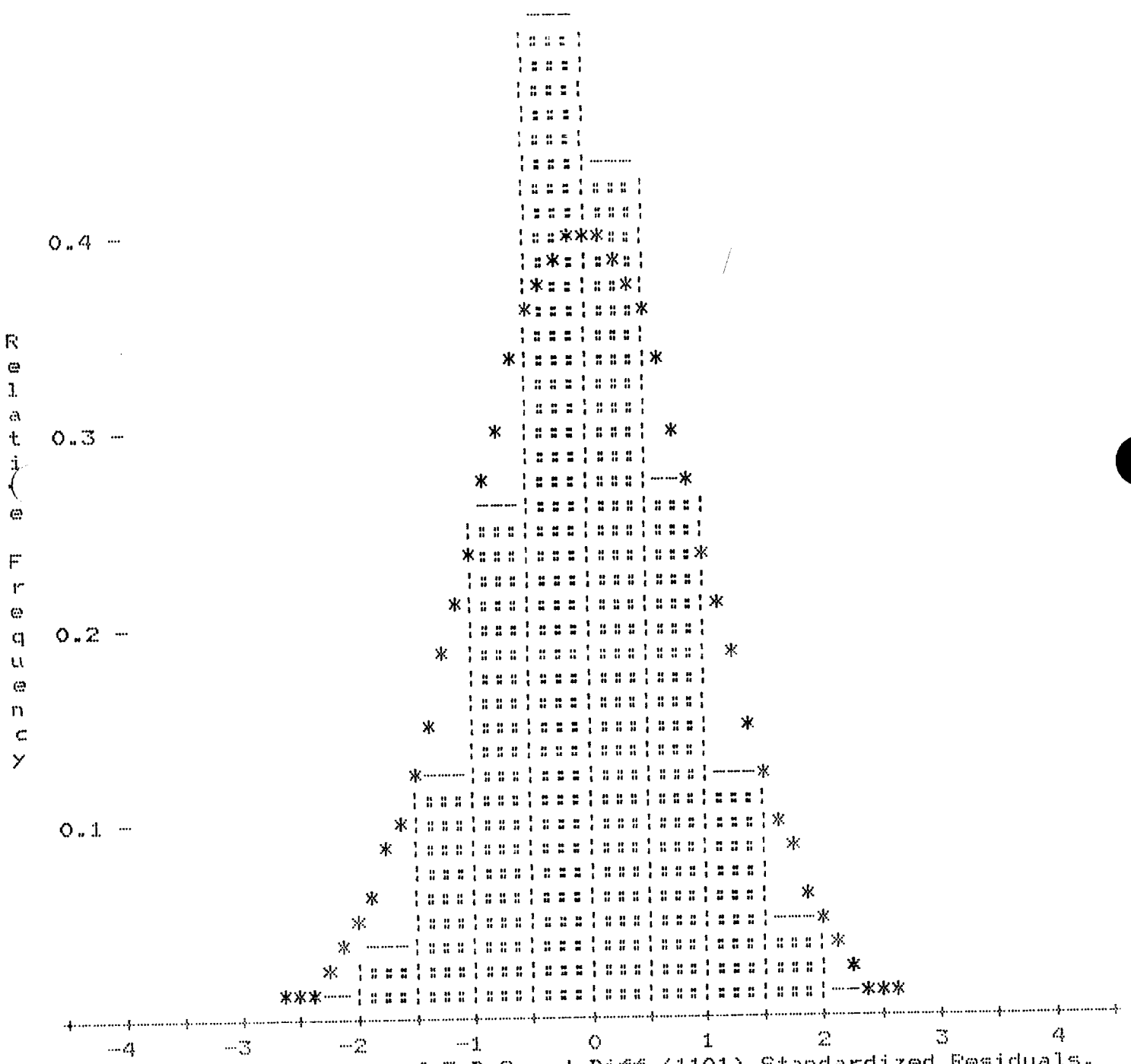
A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

F. ID:

STATION	3-D COORD DIFFS	STD.DEV.	RESIDUAL	STD.DEV.	STAN.RES.
	-2711.5270	0.0037	-0.0078	0.0021	-3.7124

End of Observation Set

R. ID:



Histogram of 3-D Coord Diff (1101) Standardized Residuals.

RESID:

S T A T I S T I C S S U M M A R Y

Residual Critical Value Type	Tau Max
Residual Critical Value	4.2137
Convergence Criterion	0.001000
Final Iteration Counter Value	3
Confidence Level Used	95.0000
Number of Flagged Residuals	2
Estimated Variance Factor	1.0000
Number of Degrees of Freedom	693

Chi-Square Test on the Variance Factor:

9.0253e-001 < 1.0000 < 1.1143e+000 ?

THE TEST PASSES.

RESID successfully completed.

ELLIPSE:

NOTE: All confidence regions were computed using the following factors:

Variance factor used	=	1.00000
Estimated variance factor	=	1.00000
1-D expansion factor	=	1.960
2-D expansion factor	=	2.448
3-D expansion factor	=	2.795

Note that, for relative confidence regions, precisions are computed from the ratio of the major semi-axis and the spatial distance between the two stations.

Error ellipses for which all covariance matrix elements were not computed by INVERT, are marked with an asterisk (*).

A [illegible]378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

LLIPSE:

2-D AND 1-D STATION CONFIDENCE REGIONS (95.000 %):

IDENT.	MAJOR SEMI-AXIS	MINOR SEMI-AXIS	AZ(MAJ)	VERTICAL
[illegible]001	0.0199	0.0144	164.66	0.0266
[illegible]015	0.0243	0.0148	29.91	0.0269
0007	0.0600	0.0426	104.82	0.0671
[illegible]009	0.0981	0.0581	115.22	0.0697
[illegible]019	0.0142	0.0109	144.41	0.0234
0021	0.0103	0.0078	153.98	0.0171
0005	0.0220	0.0169	10.66	0.0355
[illegible]301	0.0122	0.0094	145.14	0.0204
[illegible]513	0.0128	0.0102	143.16	0.0213
0705	0.0117	0.0087	149.52	0.0188
[illegible]326	0.0101	0.0073	149.27	0.0158
[illegible]711	0.0106	0.0076	145.76	0.0187
0192	0.0111	0.0083	149.59	0.0177
[illegible]129	0.0161	0.0125	165.24	0.0272
[illegible]141	0.0184	0.0139	164.32	0.0305
[illegible]161	0.0149	0.0113	155.76	0.0245
[illegible]	0.0161	0.0107	145.00	0.0237
[illegible]	0.0162	0.0126	165.24	0.0277
[illegible]0	0.0161	0.0125	165.22	0.0274
0153	0.0160	0.0123	166.44	0.0270
[illegible]136	0.0179	0.0137	165.20	0.0294
[illegible]137	0.0177	0.0137	165.26	0.0298
0140	0.0182	0.0139	164.65	0.0304
[illegible]132	0.0170	0.0130	159.81	0.0282
[illegible]133	0.0179	0.0130	163.06	0.0289
[illegible]123	0.0168	0.0131	160.17	0.0281
0124	0.0166	0.0129	159.68	0.0279
[illegible]142	0.0180	0.0139	164.20	0.0304
[illegible]119	0.0142	0.0096	147.48	0.0214
0164	0.0144	0.0107	159.34	0.0231
[illegible]116	0.0126	0.0094	151.66	0.0201
[illegible]120	0.0135	0.0095	151.88	0.0207
[illegible]160	0.0149	0.0114	157.64	0.0247
[illegible]125	0.0158	0.0112	159.78	0.0247
[illegible]126	0.0151	0.0111	159.60	0.0240
[illegible]151	0.0172	0.0132	155.84	0.0292
0152	0.0163	0.0126	165.13	0.0283
[illegible]144	0.0189	0.0145	159.14	0.0332
[illegible]162	0.0155	0.0117	156.28	0.0254
0163	0.0153	0.0111	152.46	0.0244
[illegible]145	0.0192	0.0146	157.95	0.0339
[illegible]107	0.0115	0.0083	152.15	0.0174
[illegible]	0.0125	0.0095	151.84	0.0202
[illegible]	0.0181	0.0141	165.04	0.0310

A 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

ELLIPSE:

2-D AND 1-D STATION CONFIDENCE REGIONS (95.000 %):

IDENT.	MAJOR SEMI-AXIS	MINOR SEMI-AXIS	AZ(MAJ)	VERTICAL
0112	0.0120	0.0089	151.42	0.0189
0111	0.0120	0.0087	151.78	0.0186
0115	0.0130	0.0090	153.15	0.0195
0117	0.0142	0.0095	146.97	0.0213
0169	0.0159	0.0122	165.82	0.0260
0173	0.0142	0.0098	154.94	0.0215
0108	0.0117	0.0087	150.59	0.0184
0147	0.0181	0.0144	169.68	0.0318
0702	0.0109	0.0086	140.90	0.0183
0902	0.0123	0.0093	147.38	0.0200
0178	0.0131	0.0095	157.65	0.0207
0176	0.0138	0.0095	156.69	0.0214
0519	0.0134	0.0109	141.04	0.0232
0342	0.0120	0.0091	143.10	0.0197
0903	0.0121	0.0091	146.32	0.0196
0168	0.0177	0.0113	140.41	0.0257
0134	0.0184	0.0142	170.06	0.0298
0526	0.0142	0.0116	153.66	0.0242
[illegible]9	0.0140	0.0106	142.43	0.0230
0102	0.0118	0.0089	148.24	0.0193
0104	0.0119	0.0089	148.37	0.0194
0193	0.0119	0.0090	147.74	0.0197
0522	0.0134	0.0110	141.25	0.0224
0180	0.0120	0.0083	153.80	0.0179
0181	0.0119	0.0083	153.39	0.0177
0184	0.0118	0.0083	153.29	0.0175
0191	0.0108	0.0079	151.37	0.0162
0127	0.0170	0.0132	156.87	0.0283
0130	0.0169	0.0131	157.38	0.0283
0156	0.0175	0.0133	177.97	0.0314
0523	0.0126	0.0099	143.36	0.0208
0517	0.0130	0.0103	143.23	0.0215
0344	0.0138	0.0112	142.10	0.0254
0185	0.0120	0.0091	170.91	0.0207
0318	0.0108	0.0081	146.54	0.0171
0320	0.0111	0.0084	145.88	0.0181
0322	0.0109	0.0082	146.19	0.0174
0317	0.0101	0.0074	148.55	0.0149
0190	0.0107	0.0078	151.74	0.0161
0321	0.0110	0.0078	152.08	0.0164
0328	0.0101	0.0073	149.50	0.0154
0327	0.0103	0.0073	148.43	0.0163
0330	0.0103	0.0074	148.22	0.0166
[illegible]31	0.0098	0.0071	149.62	0.0152

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A [redacted]378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

[redacted]LLIPSE:

2-D AND 1-D STATION CONFIDENCE REGIONS (95.000 %):

[redacted]DENT.	MAJOR SEMI-AXIS	MINOR SEMI-AXIS	AZ(MAJ)	VERTICAL
[redacted]313	0.0098	0.0077	146.34	0.0154
[redacted]312	0.0092	0.0066	148.28	0.0132
0315	0.0110	0.0082	145.72	0.0165
[redacted]308	0.0112	0.0088	134.27	0.0191
[redacted]803	0.0102	0.0081	146.70	0.0167
[redacted]309	0.0102	0.0080	147.51	0.0167
0310	0.0103	0.0081	147.07	0.0169
[redacted]336	0.0099	0.0075	149.24	0.0161
[redacted]334	0.0096	0.0070	148.68	0.0155
0801	0.0101	0.0079	149.28	0.0171
[redacted]802	0.0101	0.0079	149.36	0.0169
[redacted]332	0.0107	0.0076	147.82	0.0173
0187	0.0111	0.0082	154.47	0.0176
0189	0.0119	0.0083	146.68	0.0176
[redacted]325	0.0119	0.0083	145.89	0.0177
[redacted]186	0.0130	0.0094	179.07	0.0232
0[redacted]	0.0102	0.0080	147.94	0.0168
[redacted]	0.0108	0.0087	137.45	0.0184
[redacted]4	0.0102	0.0079	148.50	0.0168
0805	0.0100	0.0077	149.23	0.0164
[redacted]707	0.0111	0.0081	145.82	0.0176
[redacted]708	0.0105	0.0076	146.95	0.0174
0703	0.0115	0.0085	147.38	0.0185
0704	0.0120	0.0089	148.34	0.0193
[redacted]712	0.0105	0.0076	146.12	0.0183
[redacted]520	0.0145	0.0124	137.14	0.0246
0901	0.0134	0.0108	143.65	0.0238
[redacted]306	0.0114	0.0088	141.14	0.0192
[redacted]307	0.0123	0.0090	136.67	0.0213
0303	0.0122	0.0094	144.81	0.0201
[redacted]302	0.0120	0.0092	145.92	0.0197
[redacted]516	0.0123	0.0095	144.82	0.0205
[redacted]304	0.0124	0.0092	147.61	0.0201
0508	0.0127	0.0101	143.98	0.0213
[redacted]514	0.0126	0.0100	143.72	0.0209
[redacted]527	0.0129	0.0103	143.78	0.0217
0504	0.0131	0.0103	145.38	0.0219
[redacted]505	0.0136	0.0105	147.15	0.0227
[redacted]531	0.0133	0.0104	145.64	0.0220
0530	0.0145	0.0107	139.97	0.0231
[redacted]525	0.0148	0.0128	161.99	0.0264
[redacted]515	0.0130	0.0103	142.99	0.0215
[redacted]7	0.0139	0.0111	142.94	0.0243
[redacted]1	0.0137	0.0109	142.52	0.0238

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

ELLIPSE:

2-D AND 1-D RELATIVE STATION CONFIDENCE REGIONS (95.000 %):

FROM	TO	MAJ.SEMI	MIN.SEMI	AZ(MAJ)	VERTICAL	SPATIAL DIST.	PRECISION
0001	0009	0.0980	0.0579	115.11	0.0694	16703.4312	5.870 PPM
0001	0711	0.0195	0.0137	164.40	0.0290	21838.4920	0.891 PPM
0001	0005	0.0259	0.0198	3.20	0.0399	40676.4255	0.637 PPM
0001	0015	0.0288	0.0221	16.67	0.0360	32543.8396	0.886 PPM
0001	0161	0.0212	0.0153	166.52	0.0316	28836.0134	0.736 PPM
0001	0007	0.0604	0.0435	105.54	0.0679	53147.6867	1.136 PPM
0001	0326	0.0183	0.0123	169.78	0.0250	9646.0351	1.893 PPM
0001	0013	0.0199	0.0144	164.66	0.0266	22356.3069	0.892 PPM
0001	0129	0.0220	0.0161	170.11	0.0336	37893.3015	0.581 PPM
0001	0021	0.0198	0.0141	163.97	0.0283	31694.0026	0.624 PPM
0013	0009	0.0981	0.0581	115.22	0.0697	26119.8683	3.757 PPM
0013	0313	0.0098	0.0077	146.34	0.0154	4093.6073	2.405 PPM
0013	0308	0.0112	0.0088	134.27	0.0191	7862.3717	1.428 PPM
0013	0803	0.0102	0.0081	146.70	0.0167	6243.1637	1.636 PPM
0013	0312	0.0092	0.0066	148.28	0.0132	4015.3567	2.294 PPM
0013	0015	0.0243	0.0148	29.91	0.0269	11225.8257	2.162 PPM
0013	0007	0.0600	0.0426	104.82	0.0671	73310.2194	0.819 PPM
0013	0326	0.0101	0.0073	149.27	0.0158	14254.5018	0.711 PPM
0013	0192	0.0111	0.0083	149.59	0.0177	18183.3093	0.612 PPM
0013	0021	0.0103	0.0078	153.98	0.0171	12977.5279	0.796 PPM
0015	0705	0.0252	0.0182	27.05	0.0313	20831.5262	1.211 PPM
0015	0301	0.0252	0.0186	27.93	0.0321	15522.9722	1.626 PPM
0015	0513	0.0254	0.0190	28.19	0.0326	19367.1631	1.314 PPM
0015	0019	0.0257	0.0198	26.31	0.0338	26276.9501	0.979 PPM
0015	0021	0.0249	0.0174	28.25	0.0303	16373.9311	1.521 PPM
0007	0009	0.1101	0.0680	113.07	0.0892	49103.4948	2.243 PPM
0007	0141	0.0594	0.0418	103.20	0.0680	19708.9561	3.012 PPM
0007	0172	0.0599	0.0420	104.50	0.0666	38654.9525	1.550 PPM
0007	0005	0.0590	0.0416	103.63	0.0667	17855.0138	3.305 PPM
0007	0161	0.0593	0.0417	103.64	0.0666	27093.5311	2.190 PPM
0007	0129	0.0592	0.0416	103.20	0.0666	16987.0331	3.483 PPM
0019	0532	0.0099	0.0042	129.53	0.0137	7082.4446	1.399 PPM
0019	0526	0.0090	0.0063	175.87	0.0158	3438.9768	2.624 PPM
0019	0529	0.0063	0.0042	142.92	0.0117	2715.6288	2.333 PPM
0019	0530	0.0078	0.0039	131.70	0.0116	3181.7099	2.458 PPM
0019	0705	0.0125	0.0087	141.88	0.0196	24096.7933	0.517 PPM
0019	0533	0.0076	0.0040	133.02	0.0115	7417.4288	1.022 PPM
0019	0301	0.0087	0.0065	142.88	0.0149	13144.9198	0.662 PPM
0019	0513	0.0081	0.0057	144.30	0.0133	6913.4654	1.165 PPM
0019	0021	0.0119	0.0087	139.49	0.0190	21406.9168	0.556 PPM
0021	0711	0.0080	0.0052	136.30	0.0143	11236.6497	0.715 PPM
0021	0705	0.0080	0.0054	144.87	0.0114	4830.0632	1.659 PPM
0021	0301	0.0094	0.0068	137.72	0.0152	9064.6208	1.036 PPM
0021	0805	0.0064	0.0039	135.56	0.0084	2754.6477	2.310 PPM

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A [redacted]378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

[redacted]LLIPSE:

2-D AND 1-D RELATIVE STATION CONFIDENCE REGIONS (95.000 %):

[redacted]ROM	TO	MAJ.SEMI	MIN.SEMI	AZ(MAJ)	VERTICAL	SPATIAL DIST.	PRECISION
[redacted]021	0707	0.0072	0.0043	136.15	0.0094	4581.3404	1.578 PPM
[redacted]021	0708	0.0072	0.0043	135.67	0.0100	5301.3727	1.357 PPM
0021	0192	0.0106	0.0077	142.47	0.0194	28370.3693	0.373 PPM
[redacted]021	0513	0.0102	0.0078	135.08	0.0163	16690.2856	0.613 PPM
[redacted]005	0141	0.0186	0.0130	21.43	0.0303	9319.5203	1.998 PPM
[redacted]005	0172	0.0198	0.0156	14.23	0.0320	24977.8287	0.793 PPM
0005	0161	0.0188	0.0126	22.06	0.0300	11888.3377	1.583 PPM
[redacted]005	0129	0.0176	0.0108	27.33	0.0273	5102.9749	3.457 PPM
[redacted]301	0303	0.0033	0.0028	126.30	0.0072	2295.2711	1.452 PPM
0301	0302	0.0034	0.0028	130.21	0.0073	1804.8661	1.875 PPM
[redacted]301	0516	0.0033	0.0028	126.08	0.0072	3657.9123	0.904 PPM
[redacted]513	0515	0.0048	0.0043	113.72	0.0075	1803.3077	2.678 PPM
0513	0507	0.0060	0.0053	134.04	0.0130	6645.4200	0.910 PPM
[redacted]513	0511	0.0053	0.0045	131.84	0.0115	2141.4301	2.482 PPM
[redacted]513	0514	0.0042	0.0037	121.97	0.0068	804.2697	5.240 PPM
[redacted]513	0516	0.0048	0.0043	117.30	0.0077	4033.8215	1.197 PPM
[redacted]	0504	0.0052	0.0044	144.63	0.0097	9964.0017	0.517 PPM
[redacted]	0704	0.0054	0.0041	162.94	0.0088	2662.4124	2.028 PPM
[redacted]5	0703	0.0048	0.0034	164.46	0.0075	3275.6195	1.462 PPM
0705	0707	0.0051	0.0039	162.60	0.0081	2534.9425	2.015 PPM
[redacted]326	0189	0.0068	0.0042	138.39	0.0087	5529.3093	1.236 PPM
[redacted]326	0325	0.0069	0.0042	137.13	0.0087	1828.3895	3.763 PPM
0326	0327	0.0036	0.0021	134.28	0.0080	1769.9072	2.023 PPM
0326	0330	0.0040	0.0024	134.19	0.0091	5066.5384	0.784 PPM
[redacted]326	0187	0.0058	0.0043	155.06	0.0093	9796.2926	0.596 PPM
[redacted]326	0331	0.0039	0.0023	134.14	0.0088	6853.1508	0.565 PPM
0326	0328	0.0040	0.0025	136.43	0.0087	2255.2851	1.774 PPM
[redacted]711	0712	0.0050	0.0031	135.92	0.0111	2474.4665	2.012 PPM
[redacted]711	0708	0.0060	0.0038	136.60	0.0127	6027.4469	0.994 PPM
0711	0334	0.0048	0.0030	134.61	0.0111	5550.4026	0.867 PPM
[redacted]192	0102	0.0048	0.0040	135.98	0.0098	4825.9974	0.998 PPM
[redacted]192	0104	0.0052	0.0043	138.94	0.0105	9596.7356	0.540 PPM
[redacted]192	0193	0.0051	0.0042	133.50	0.0104	1789.1211	2.865 PPM
[redacted]192	0318	0.0058	0.0046	136.35	0.0115	8038.2836	0.725 PPM
[redacted]192	0320	0.0061	0.0047	132.84	0.0120	4738.3757	1.282 PPM
[redacted]192	0322	0.0057	0.0043	132.48	0.0109	3359.1366	1.692 PPM
0192	0191	0.0052	0.0041	173.70	0.0103	1570.1533	3.309 PPM
[redacted]129	0133	0.0084	0.0041	158.06	0.0103	6891.4879	1.219 PPM
[redacted]129	0123	0.0088	0.0048	133.55	0.0148	6903.8794	1.280 PPM
0129	0127	0.0069	0.0030	128.38	0.0086	3337.0142	2.055 PPM
[redacted]129	0130	0.0066	0.0029	128.61	0.0082	2533.0908	2.602 PPM
[redacted]129	0153	0.0034	0.0030	136.38	0.0073	2431.8815	1.386 PPM
[redacted]	0124	0.0059	0.0026	128.88	0.0076	5083.0990	1.156 PPM
[redacted]	0132	0.0062	0.0031	137.61	0.0078	5453.8079	1.146 PPM

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

ELLIPSE:

2-D AND 1-D RELATIVE STATION CONFIDENCE REGIONS (95.000 %):

FROM	TO	MAJ.SEMI	MIN.SEMI	AZ(MAJ)	VERTICAL	SPATIAL DIST.	PRECISION
0129	0150	0.0038	0.0032	131.58	0.0084	5136.6713	0.738 PPM
0129	0148	0.0038	0.0034	136.68	0.0083	7773.8775	0.491 PPM
0141	0140	0.0059	0.0027	160.91	0.0073	1830.4519	3.196 PPM
0141	0142	0.0065	0.0031	160.11	0.0083	1836.2653	3.548 PPM
0141	0137	0.0059	0.0028	160.41	0.0075	4208.5889	1.412 PPM
0161	0162	0.0063	0.0045	18.47	0.0110	1213.3454	5.208 PPM
0161	0160	0.0050	0.0047	53.97	0.0114	2248.4644	2.210 PPM
0161	0163	0.0062	0.0045	15.71	0.0108	2225.2958	2.806 PPM
0161	0164	0.0051	0.0050	71.39	0.0115	3213.3869	1.590 PPM
0172	0168	0.0124	0.0047	127.47	0.0155	4895.3249	2.541 PPM
0172	0163	0.0113	0.0060	130.39	0.0160	11313.5319	1.000 PPM
0172	0173	0.0085	0.0031	127.32	0.0106	803.3812	10.552 PPM
0148	0147	0.0086	0.0070	10.98	0.0164	2915.7882	2.957 PPM
0148	0153	0.0037	0.0033	131.25	0.0080	5673.7854	0.644 PPM
0148	0150	0.0038	0.0033	128.46	0.0084	2666.4972	1.437 PPM
0148	0146	0.0086	0.0067	167.09	0.0153	5090.7048	1.696 PPM
0148	0137	0.0079	0.0061	166.44	0.0131	5935.3954	1.331 PPM
0150	0151	0.0080	0.0029	128.25	0.0112	1794.3280	4.449 PPM
0150	0152	0.0071	0.0032	129.66	0.0106	3399.4369	2.080 PPM
0150	0153	0.0035	0.0030	129.67	0.0078	3017.7390	1.169 PPM
0153	0126	0.0090	0.0061	12.76	0.0162	4853.9076	1.856 PPM
0153	0164	0.0087	0.0061	14.01	0.0161	9901.5893	0.882 PPM
0136	0134	0.0074	0.0032	31.44	0.0081	1746.2496	4.209 PPM
0136	0133	0.0068	0.0034	29.12	0.0084	2675.3202	2.543 PPM
0136	0137	0.0051	0.0046	149.24	0.0106	2539.3756	1.991 PPM
0137	0140	0.0052	0.0025	161.15	0.0066	2584.8540	2.001 PPM
0137	0147	0.0086	0.0071	0.45	0.0163	5066.2496	1.704 PPM
0137	0146	0.0074	0.0046	151.49	0.0123	6787.9418	1.093 PPM
0137	0142	0.0058	0.0030	158.91	0.0076	4989.2343	1.156 PPM
0140	0142	0.0060	0.0029	160.31	0.0076	2435.3327	2.457 PPM
0132	0133	0.0098	0.0035	155.67	0.0093	1613.8879	6.058 PPM
0132	0127	0.0078	0.0035	130.26	0.0096	8730.5265	0.890 PPM
0132	0130	0.0073	0.0033	130.19	0.0091	2987.7499	2.447 PPM
0132	0124	0.0071	0.0033	131.36	0.0089	10501.4305	0.677 PPM
0133	0134	0.0078	0.0035	31.63	0.0087	1330.8226	5.828 PPM
0123	0124	0.0092	0.0046	132.54	0.0152	1833.9415	4.998 PPM
0123	0119	0.0124	0.0101	169.04	0.0221	7279.4203	1.699 PPM
0123	0164	0.0101	0.0084	168.41	0.0186	3980.7409	2.538 PPM
0124	0127	0.0064	0.0027	127.49	0.0078	1774.8251	3.580 PPM
0124	0130	0.0065	0.0028	127.52	0.0081	7616.0425	0.860 PPM
0142	0144	0.0077	0.0039	133.21	0.0155	2396.2048	3.226 PPM
0142	0145	0.0084	0.0042	133.37	0.0170	2835.0376	2.980 PPM
0142	0146	0.0060	0.0037	133.87	0.0121	2511.9896	2.386 PPM
0119	0117	0.0073	0.0029	129.38	0.0106	2540.7643	2.866 PPM

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

ELLIPSE:

2-D AND 1-D RELATIVE STATION CONFIDENCE REGIONS (95.000 %):

FROM	TO	MAJ.SEMI	MIN.SEMI	AZ(MAJ)	VERTICAL	SPATIAL DIST.	PRECISION
0119	0115	0.0071	0.0031	129.79	0.0107	5841.4273	1.223 PPM
0119	0120	0.0085	0.0047	135.42	0.0127	1132.9430	7.498 PPM
0119	0164	0.0096	0.0075	158.50	0.0164	5167.0239	1.854 PPM
0164	0125	0.0070	0.0035	160.83	0.0096	4821.3678	1.446 PPM
0164	0169	0.0101	0.0078	12.13	0.0175	8066.7756	1.256 PPM
0164	0126	0.0055	0.0033	160.76	0.0079	5076.0684	1.083 PPM
0164	0160	0.0047	0.0047	5.87	0.0107	5054.8141	0.936 PPM
0164	0120	0.0084	0.0063	4.53	0.0152	4038.8551	2.087 PPM
0164	0173	0.0080	0.0064	168.05	0.0137	12863.0158	0.624 PPM
0116	0113	0.0044	0.0041	141.66	0.0094	4024.3382	1.101 PPM
0116	0120	0.0073	0.0040	158.00	0.0099	4858.5651	1.494 PPM
0116	0107	0.0052	0.0044	147.77	0.0102	9105.2411	0.569 PPM
0120	0117	0.0089	0.0046	133.67	0.0131	3605.5705	2.476 PPM
0120	0126	0.0094	0.0069	178.90	0.0166	8996.5592	1.050 PPM
0120	0115	0.0073	0.0044	137.28	0.0114	6871.7082	1.068 PPM
0160	0156	0.0112	0.0054	21.10	0.0211	3310.0872	3.370 PPM
01[illegible]	0152	0.0093	0.0058	16.24	0.0182	6436.3683	1.449 PPM
[illegible]	0126	0.0064	0.0031	160.95	0.0087	1578.7384	4.050 PPM
[illegible]	0152	0.0087	0.0033	128.26	0.0121	1605.1168	5.429 PPM
0152	0156	0.0113	0.0054	21.05	0.0215	3317.1831	3.407 PPM
0144	0145	0.0071	0.0033	133.32	0.0143	777.5774	9.161 PPM
0144	0146	0.0073	0.0035	133.17	0.0145	1926.6273	3.790 PPM
0162	0163	0.0057	0.0039	19.48	0.0098	1012.2170	5.634 PPM
0163	0168	0.0124	0.0054	128.35	0.0162	6451.6530	1.924 PPM
0145	0146	0.0080	0.0038	133.35	0.0160	1506.3758	5.303 PPM
0107	0113	0.0049	0.0046	145.14	0.0104	5326.9960	0.918 PPM
0107	0176	0.0087	0.0048	160.58	0.0135	3297.5050	2.651 PPM
0107	0112	0.0040	0.0035	149.97	0.0082	4838.3932	0.835 PPM
0107	0178	0.0081	0.0048	162.45	0.0129	3224.0020	2.502 PPM
0107	0180	0.0061	0.0031	160.42	0.0085	4939.4074	1.231 PPM
0107	0181	0.0057	0.0029	159.89	0.0078	4797.2500	1.188 PPM
0107	0184	0.0056	0.0028	159.89	0.0077	9632.3690	0.581 PPM
0107	0111	0.0040	0.0030	154.06	0.0073	4903.3884	0.815 PPM
0107	0115	0.0065	0.0037	156.39	0.0094	7204.1489	0.905 PPM
0107	0108	0.0039	0.0035	147.54	0.0082	2300.9805	1.703 PPM
0107	0173	0.0090	0.0054	157.73	0.0135	6260.3500	1.441 PPM
0107	0191	0.0051	0.0030	160.06	0.0077	14390.6607	0.357 PPM
0113	0112	0.0061	0.0055	147.12	0.0127	2414.8894	2.517 PPM
0146	0147	0.0082	0.0067	9.85	0.0157	2455.7112	3.323 PPM
0112	0111	0.0034	0.0031	147.23	0.0072	767.6012	4.458 PPM
0112	0108	0.0044	0.0040	144.00	0.0093	3603.8879	1.231 PPM
0111	0115	0.0064	0.0033	158.53	0.0088	2485.4778	2.562 PPM
0[illegible]	0108	0.0045	0.0039	149.70	0.0091	3332.2994	1.344 PPM
0[illegible]	0117	0.0066	0.0025	129.16	0.0097	3306.1818	2.007 PPM

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

A= 6378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

ELLIPSE:

2-D AND 1-D RELATIVE STATION CONFIDENCE REGIONS (95.000 %):

FROM	TO	MAJ.SEMI	MIN.SEMI	AZ(MAJ)	VERTICAL	SPATIAL DIST.	PRECISION
0331	0334	0.0058	0.0036	137.44	0.0122	4872.4064	1.190 PPM
0313	0315	0.0076	0.0067	134.92	0.0136	3284.8898	2.315 PPM
0313	0312	0.0072	0.0059	137.65	0.0121	1618.6603	4.443 PPM
0312	0315	0.0077	0.0057	138.24	0.0119	4884.2732	1.572 PPM
0312	0332	0.0071	0.0045	141.59	0.0134	5363.2263	1.333 PPM
0312	0334	0.0060	0.0038	137.80	0.0124	2373.2594	2.511 PPM
0308	0307	0.0076	0.0034	131.21	0.0142	1190.8121	6.406 PPM
0308	0803	0.0064	0.0042	96.93	0.0121	1771.0106	3.616 PPM
0308	0340	0.0062	0.0031	127.04	0.0115	3535.2843	1.761 PPM
0308	0306	0.0070	0.0033	129.94	0.0125	3163.2867	2.202 PPM
0803	0309	0.0030	0.0025	78.15	0.0050	804.7771	3.783 PPM
0803	0310	0.0034	0.0029	82.91	0.0058	1609.4077	2.122 PPM
0803	0336	0.0032	0.0027	81.43	0.0055	3311.7088	0.977 PPM
0309	0310	0.0033	0.0028	83.35	0.0056	804.6307	4.062 PPM
0309	0336	0.0030	0.0025	80.15	0.0051	2507.1906	1.200 PPM
0310	0336	0.0033	0.0027	83.69	0.0056	1703.0627	1.928 PPM
0336	0801	0.0040	0.0038	64.53	0.0088	4051.9284	0.999 PPM
0336	0802	0.0038	0.0037	63.66	0.0082	2420.9930	1.585 PPM
[illegible]6	0804	0.0031	0.0027	90.83	0.0060	3600.9139	0.857 [illegible]
0336	0339	0.0033	0.0028	89.62	0.0064	4873.4777	0.685 PPM
0336	0805	0.0028	0.0025	98.26	0.0055	3310.6634	0.855 PPM
0336	0334	0.0038	0.0035	132.60	0.0079	4855.5613	0.778 PPM
0334	0801	0.0040	0.0038	59.03	0.0086	803.6352	4.996 PPM
0334	0802	0.0040	0.0038	57.81	0.0084	2434.5944	1.623 PPM
0334	0332	0.0069	0.0043	138.63	0.0143	4835.4905	1.425 PPM
0334	0712	0.0046	0.0029	135.42	0.0104	3216.8943	1.436 PPM
0334	0708	0.0053	0.0034	136.00	0.0102	7182.4938	0.734 PPM
0801	0802	0.0040	0.0037	55.16	0.0084	1630.9601	2.432 PPM
0187	0189	0.0068	0.0043	141.26	0.0087	4448.0299	1.522 PPM
0187	0325	0.0072	0.0047	141.24	0.0097	8061.8193	0.895 PPM
0187	0186	0.0092	0.0030	19.12	0.0179	773.8734	11.915 PPM
0189	0325	0.0070	0.0040	135.91	0.0084	3720.5327	1.887 PPM
0339	0804	0.0034	0.0029	87.55	0.0065	1835.0702	1.852 PPM
0339	0340	0.0052	0.0031	94.77	0.0090	850.3468	6.173 PPM
0339	0805	0.0032	0.0027	89.12	0.0060	1611.1181	1.982 PPM
0340	0307	0.0069	0.0032	131.90	0.0130	3308.0140	2.079 PPM
0340	0306	0.0059	0.0030	129.22	0.0103	2462.7499	2.402 PPM
0804	0805	0.0029	0.0026	90.07	0.0057	809.8741	3.613 PPM
0805	0707	0.0067	0.0040	133.52	0.0089	4431.3191	1.504 PPM
0805	0708	0.0059	0.0038	133.55	0.0092	4367.6518	1.351 PPM
0707	0704	0.0055	0.0044	160.45	0.0092	5032.0794	1.098 PPM
0707	0703	0.0049	0.0038	159.09	0.0080	5082.5211	0.966 PPM
0707	0708	0.0069	0.0039	133.97	0.0090	1395.5237	4.940 PPM
[illegible]08	0712	0.0058	0.0036	136.89	0.0121	6561.6989	0.882 PPM

GREINER

SCALED, UNCONSTRAINED PROJECT ADJUSTMENT - SALT RIVER GPS - 1991

378137.000 B= 6356752.314 X0= 0.000 Y0= 0.000 Z0= 0.000

LLIPSE:

2-D AND 1-D RELATIVE STATION CONFIDENCE REGIONS (95.000 %):

ROM	TO	MAJ.SEMI	MIN.SEMI	AZ(MAJ)	VERTICAL	SPATIAL DIST.	PRECISION
703	0704	0.0048	0.0037	162.99	0.0079	1625.5821	2.929 PPM
306	0307	0.0074	0.0033	132.04	0.0137	2165.5936	3.434 PPM
0306	0304	0.0060	0.0031	161.68	0.0079	4835.6582	1.244 PPM
0306	0302	0.0055	0.0030	161.47	0.0075	6484.2953	0.851 PPM
303	0302	0.0035	0.0029	132.58	0.0072	782.2879	4.415 PPM
303	0516	0.0035	0.0030	124.55	0.0074	5888.3224	0.601 PPM
0302	0304	0.0056	0.0028	161.69	0.0072	1787.7316	3.108 PPM
302	0516	0.0037	0.0031	130.31	0.0078	5462.7702	0.671 PPM
516	0515	0.0050	0.0045	114.53	0.0079	2282.1824	2.200 PPM
0516	0514	0.0044	0.0039	119.68	0.0072	3605.8664	1.232 PPM
508	0527	0.0034	0.0033	53.13	0.0072	3607.2451	0.954 PPM
508	0505	0.0055	0.0030	157.78	0.0090	3597.1622	1.543 PPM
508	0531	0.0048	0.0027	156.58	0.0077	3027.3431	1.587 PPM
0508	0514	0.0030	0.0030	11.84	0.0063	6498.2408	0.458 PPM
508	0504	0.0044	0.0026	156.90	0.0074	4022.7297	1.090 PPM
514	0527	0.0036	0.0035	57.49	0.0075	3310.8918	1.088 PPM
0	0515	0.0047	0.0042	114.85	0.0074	1608.8694	2.928 PPM
	0505	0.0053	0.0028	157.51	0.0086	805.9873	6.532 PPM
4	0507	0.0062	0.0054	134.85	0.0134	3318.5920	1.871 PPM
0.0044	0.0026	156.90	0.0074	4022.7297	1.090 PPM		
514	0527	0.0036	0.0035	57.49	0.0075	3310.8918	1.088 PPM
514	0515	0.0047	0.0042	114.85	0.0074	1608.8694	2.928 PPM
504	0505	0.0053	0.0028	157.51	0.0086	805.9873	6.532 PPM
0504	0507	0.0062	0.0054	134.85	0.0134	3318.5920	1.871 PPM
504	0511	0.0062	0.0053	135.71	0.0130	7822.8973	0.796 PPM
504	0501	0.0065	0.0032	159.08	0.0090	3315.7787	1.974 PPM
0504	0502	0.0060	0.0029	159.75	0.0081	1745.0733	3.410 PPM
504	0531	0.0047	0.0027	154.61	0.0077	2421.9054	1.952 PPM
504	0533	0.0056	0.0031	153.46	0.0084	3277.3224	1.714 PPM
0505	0531	0.0056	0.0030	156.63	0.0091	1619.6761	3.471 PPM
531	0530	0.0070	0.0028	128.70	0.0087	1604.4981	4.339 PPM
530	0532	0.0100	0.0041	128.78	0.0132	4076.8598	2.455 PPM
530	0533	0.0078	0.0036	130.87	0.0106	4530.8719	1.715 PPM
0507	0511	0.0059	0.0052	131.44	0.0129	4504.4024	1.320 PPM
501	0502	0.0066	0.0031	159.73	0.0090	1712.1701	3.845 PPM
501	0533	0.0065	0.0032	158.74	0.0093	1616.5158	4.004 PPM
0502	0533	0.0066	0.0033	158.39	0.0094	2376.2765	2.772 PPM
533	0532	0.0093	0.0037	128.42	0.0118	685.3521	13.589 PPM

ELLIPSE successfully completed.

12:19:53 - Saturday, January 18, 1992