

Aerotriangulation Results and Final Coordinate Listing

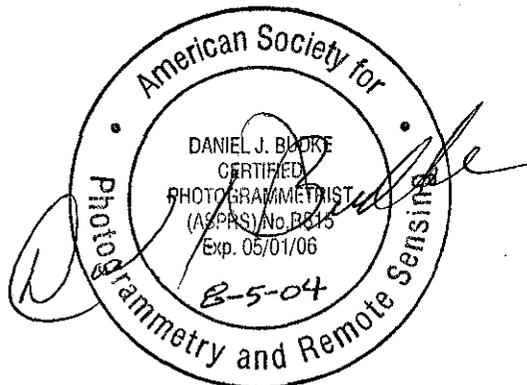
Hassayampa River Ext.
and Jackrabbit Creek
Maricopa County Arizona
Contract FCD 2003C049
WCEA file X4-430-056

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Flood Control District of MC Library
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2801 W. Durango
Phoenix, AZ 85009

For 1:8000, B/W, Aerial Photography
Flown 4-21-04 CFL=153.004mm
The aerial camera used was a Zeiss RMK Top 15
Calibrated 10-31-2003

The Root Mean Square Error (RMSE) of the targeted ground control points,
including the "blind" targets, is as follows:

X (easting)= 0.351'
Y (northing)= 0.253'
Z (elevation)= 0.250'



**WILSON
& COMPANY**

GEOMETRIC COMPUTER SERVICES

SUN, JUN 06, 2004

ALBANY - SIMULTANEOUS BLOCK ADJUSTMENT
JOB JACK RABBIT, WASH (X4-430-056), STRIP 1-5, 78 PHOTOS BLO

ESTIMATED SDUW	.0050		
EST STD ERRORS	.0050	.0050	
	.0150	.0150	.0250
	.0200	.0200	.0300
	.2500	.1000	

WEIGHTS	.100E+01	.100E+01	
	.111E+00	.111E+00	.400E-01
	.625E-01	.625E-01	.278E-01
	.400E-03	.250E-02	

EARTH CURVATURE CORRECTION AT 1300.F

CAMERA #241 CFL: 153.004

PHOTO SCALE 1"=666'

ORIENTATION PARAMETERS

78 PHOTOS
0 MODELS

301 POINTS AND 955 IMAGES FOUND IN IMAGE FILE

78 UNITS
301 POINTS
955 IMAGES
78 HORIZONTAL CONTROL POINTS
78 VERTICAL CONTROL POINTS
23 UNIT BANDWIDTH AT POINT 28

1371 UNKNOWNNS
2144 EQUATIONS

773. DEGREES OF FREEDOM

ITERATION 1

STD. DEV. OF UNIT WT. IS .0059

GEOMETRIC COMPUTER SERVICES

SUN, JUN 06, 2004

ALBANY - SIMULTANEOUS BLOCK ADJUSTMENT

JOB JACK RABBIT, WASH (X4-430-056), STRIP 1-5, 78 PHOTOS BLO

POINT NO.	UNIT NO.	VX	IMAGE RESIDUALS VY	VZ
STD. DEVS. OF IMAGES		.0030	.0038	.0000
	MEAN	.0000	.0049	.0000
			.0000	.0000

ALBANY - SIMULTANEOUS BLOCK ADJUSTMENT

JOB JACK RABBIT, WASH (X4-430-056), STRIP 1-5, 78 PHOTOS BLO

POINT NO.	POINT NAME	NO. OF IMAGES	INTERSECTION RESIDUALS			LEAST SQUARES RESIDUALS		
			DX	DY	DZ	VX	VY	VZ
CONTROL POINTS								
10		2	-.041	.050	.142	-.058	.052	.014
11		2	-.060	.069	-.012	-.048	.059	.002
12		3	.340	.203	-.142	.283	.220	-.034
22		3	.402	.158	-.193	.294	.145	-.038
25		3	.245	.266	-.023	.223	.241	-.008
28		6	.051	.084	.017	.050	.081	.011
29		2	-.068	1.039	.143	-.015	.903	.015
31		2	.028	.080	.088	.045	.067	.008
34		4	-.067	.009	.351	-.075	.018	.087
35		2	.299	.186	-.491	.077	.260	-.036
37		3	.132	-.098	-.007	.121	-.090	-.006
38		2	-.017	.186	-.020	-.020	.159	.001
106		2	.174	.043	.406	.155	-.011	.034
107		3	-.018	.504	-.069	-.038	.449	-.011
109		2	-.125	-.078	-.274	-.122	-.038	-.022
200		6	.012	.244	.010	.012	.232	.005
500		2	-.339	-.175	-.873	-.117	-.316	-.081
501		4	-.024	-.248	-.071	-.029	-.233	-.031
502		2	.765	-.180	-.444	.491	-.113	.001
503		6	-.117	-.183	.128	-.106	-.182	.076
504		3	-.561	-.071	-.244	-.462	-.109	-.040
505		6	-.041	-.224	.063	-.038	-.214	.037
506		3	.543	.254	.097	.520	.224	.047
507		3	-.622	-.105	.006	-.559	-.097	.029
508		6	-.051	-.171	-.138	-.049	-.154	-.081
509		3	.711	.148	-.023	.635	.147	.020
510		2	-.436	.060	-.192	-.327	.033	.000
511		5	-.104	.060	.119	-.101	.055	.061
512		3	.734	.555	-.154	.656	.526	-.039
513		3	-.689	.237	.061	-.631	.217	.047
514		6	-.159	.127	.126	-.148	.120	.074
515		3	.495	-.171	-.069	.425	-.150	.005
516		2	-.112	-.134	-.263	-.028	-.112	-.022
517		4	-.033	-.260	-.065	-.033	-.248	-.034
518		2	.216	-.055	-.180	.120	-.087	-.012
519		6	.182	-.127	-.058	.171	-.121	-.035
520		3	-.498	-.313	-.009	-.447	-.287	.015
521		5	.142	.139	.106	.141	.136	.061
522		2	.632	.218	-.477	.352	.191	-.013
523		3	-.164	-.354	-.146	-.108	-.324	-.030
524		5	-.122	-.012	-.089	-.121	-.013	-.049
525		2	.600	.297	-.124	.469	.264	.020
526		3	-.666	-.009	-.061	-.582	-.013	.014
527		6	-.007	-.103	.049	-.004	-.098	.031
528		3	.314	.724	.043	.296	.659	.022
529		3	-.564	-.530	-.098	-.475	-.489	.001

530	6	.115	.045	-.146	.107	.037	-.087
531	3	.380	.276	.078	.362	.256	.043
532	2	-.392	-.172	-.556	-.177	-.118	-.026
533	4	.253	-.181	.430	.258	-.159	.186
534	2	-.089	-.195	-.499	.048	-.192	-.048
535	4	-.155	-.453	.127	-.143	-.416	.045
536	5	.361	.029	-.122	.341	.029	-.065
537	6	-.228	-.109	-.014	-.219	-.098	-.010
538	5	.177	-.078	-.022	.166	-.071	-.010
539	2	.599	.206	-.433	.372	.201	-.015
540	2	-.760	-.190	-.588	-.449	-.145	-.023
541	4	-.285	-.054	.291	-.272	-.049	.093
542	5	.129	.118	-.089	.121	.109	-.047
543	2	-.112	.078	-.623	-.250	.122	-.065
544	5	-.199	.003	.003	-.190	-.001	.004
545	3	-.466	-.181	-.040	-.403	-.149	.015
546	4	.187	-.148	-.155	.175	-.131	-.061
547	2	.185	.118	-.334	.075	.153	-.023
900	2	.144	-.075	.118	.132	-.071	.012
901	3	-.471	-.105	.064	-.440	-.090	.028
902	3	.296	.022	-.144	.286	.019	-.044
903	3	-.473	-.011	-.181	-.439	-.015	-.051
904	2	-.101	-.220	.313	-.140	-.181	.025
905	3	-.123	-.078	.043	-.108	-.068	.009
906	2	.316	.151	.518	.368	.140	.056
907	2	-.238	-.372	.246	-.200	-.337	.019
908	5	-.005	-.347	-.099	-.005	-.327	-.052
909	2	.295	.128	.170	.224	.101	.003
910	3	-.382	.245	-.167	-.373	.217	-.046
911	2	-.466	-.416	.160	-.410	-.379	.021
912	3	.424	-.046	.018	.385	-.042	.020
913	4	-.030	-.368	-.152	.004	-.304	-.025
RMSE		.351	.253	.250			
MEAN		.003	-.001	-.062			

ALBANY - SIMULTANEOUS BLOCK ADJUSTMENT

JOB JACK RABBIT, WASH (X4-430-056), STRIP 1-5, 78 PHOTOS BLO

POINT	NAME	CODE	X	Y	Z
10		3	448286.595	951678.275	1362.370
11		3	451532.720	949280.486	1271.055
12		3	455355.200	950635.265	1363.897
22		3	445652.302	928358.994	1218.386
25		3	444713.777	923111.609	1204.198
28		3	444291.693	917825.148	1150.812
29		3	447779.377	917261.931	1126.118
31		3	443918.546	913258.009	1164.518
34		3	442459.843	908269.314	1092.796
35		3	445692.691	907723.474	1084.631
37		3	441478.983	903663.114	1098.265
38		3	444757.280	903252.480	1064.530
106		3	445618.657	919041.813	1149.624
107		3	445301.245	910478.868	1118.618
109		3	443710.397	902124.980	1055.751
200		3	451961.636	951147.109	1281.178
340		0	443204.129	908147.085	1104.923
500		3	460229.324	976161.122	1410.693
501		3	463733.315	974316.733	1405.824
502		3	466881.543	972702.177	1540.595
503		3	462714.263	972544.923	1396.052
504		3	457702.911	971245.553	1395.621
505		3	460929.653	969386.529	1377.943
506		3	464288.052	967644.788	1500.060
507		3	455338.681	966928.327	1378.095

508	3	458752.809	964923.038	1356.078
509	3	462233.536	963254.430	1466.386
510	3	453225.464	962537.758	1378.291
511	3	456557.818	960797.237	1333.341
512	3	458938.506	959402.593	1437.524
513	3	450415.838	957280.818	1405.409
514	3	453759.255	955560.457	1300.454
515	3	456977.656	953780.557	1367.775
516	3	432531.106	951479.492	1396.130
517	3	436173.034	952353.202	1377.080
518	3	440089.200	953093.330	1387.387
519	3	436599.320	950545.813	1366.290
520	3	433682.382	946110.568	1359.825
521	3	437396.715	946896.153	1339.331
522	3	441227.617	947557.639	1349.765
523	3	434574.313	941700.406	1320.917
524	3	438417.366	942346.227	1311.457
525	3	442113.570	942988.625	1322.990
526	3	435543.556	937838.527	1319.616
527	3	439178.663	938707.860	1282.366
528	3	442746.223	939447.321	1309.639
529	3	436680.908	931848.047	1267.859
530	3	440551.995	932661.443	1253.823
531	3	444323.699	933570.677	1265.101
532	3	438066.449	926242.484	1246.690
533	3	442002.486	927020.957	1211.654
534	3	435890.440	921181.603	1197.070
535	3	438804.376	921858.923	1208.710
536	3	442920.826	922829.361	1216.320

537	3	439889.622	917938.571	1185.133
538	3	443507.737	918691.317	1158.025
539	3	447318.923	919420.675	1133.972
540	3	437679.107	913992.659	1167.094
541	3	440556.215	914853.823	1166.116
542	3	444304.460	914701.384	1165.425
543	3	448078.590	914166.394	1115.370
544	3	441007.439	912480.605	1135.150
545	3	439683.588	907209.514	1133.129
546	3	450823.546	949920.674	1274.100
547	3	454106.191	948329.105	1328.400
900	3	461554.724	974940.605	1407.411
901	3	456641.804	969236.084	1376.891
902	3	460781.937	966464.072	1453.929
903	3	453250.724	958996.921	1314.888
904	3	453912.593	953301.698	1293.162
905	3	434667.756	951014.342	1386.033
906	3	439544.819	949851.398	1369.741
907	3	436559.604	940413.921	1304.990
908	3	438729.010	937887.424	1281.428
909	3	440760.905	936101.570	1282.128
910	3	440734.052	925718.992	1206.310
911	3	437938.361	918289.265	1189.613
912	3	443149.082	916695.890	1147.808
913	3	441509.322	906725.948	1112.871
1011	0	441985.956	900645.832	1059.036
1013	0	443813.753	901559.594	1051.891
1015	0	445708.539	902374.542	1063.606
1021	0	441054.051	902784.003	1091.464

1023	0	442876.276	903681.098	1086.786
1025	0	445133.219	904620.897	1068.135
1031	0	440085.990	905357.748	1118.794
1033	0	442155.166	906116.352	1082.542
1035	0	443968.607	906970.724	1108.669
1041	0	439181.269	907799.986	1135.631
1043	0	441407.282	908553.782	1097.013
1045	0	443408.645	909177.276	1128.503
1051	0	438436.643	909980.278	1137.328
1053	0	440534.080	910755.936	1123.885
1055	0	442443.827	911556.202	1117.627
1061	0	437720.589	912146.760	1144.623
1063	0	439696.031	912904.880	1146.062
1065	0	441854.256	913616.485	1198.170
1071	0	436848.156	914536.204	1157.764
1073	0	438836.449	915268.445	1175.976
1075	0	440871.440	915903.161	1174.101
1081	0	436197.971	916747.603	1186.778
1083	0	438135.022	917482.121	1187.687
1091	0	435464.225	919187.919	1201.540
1093	0	437655.354	919742.413	1190.207
1095	0	439512.281	920474.683	1227.247
1101	0	434698.881	921318.299	1206.637
1103	0	436855.022	922056.633	1206.950
1105	0	438756.514	922701.315	1216.061
2011	0	441853.023	907088.317	1091.079
2013	0	443907.308	907515.161	1110.227
2015	0	445972.708	908001.082	1087.004
2021	0	441187.811	909300.685	1105.171

2023	0	443298.535	909977.995	1149.810
2031	0	440731.255	911590.329	1144.958
2033	0	442920.242	912196.366	1126.459
2035	0	445106.986	912633.727	1120.891
2041	0	439984.006	913895.613	1159.479
2043	0	442273.809	914392.971	1181.566
2051	0	439480.710	916190.955	1176.773
2053	0	441821.832	916774.144	1158.253
2055	0	443699.910	917321.222	1150.524
2061	0	439340.415	918497.937	1200.299
2063	0	441047.393	918930.855	1187.533
2065	0	443395.160	919508.448	1160.910
2071	0	438401.036	920822.377	1203.678
2073	0	440361.950	921162.748	1211.091
2075	0	442733.574	921526.862	1179.747
2081	0	437923.004	923023.836	1226.914
2083	0	440368.823	923545.988	1233.750
2085	0	442462.599	923809.624	1217.770
2091	0	437667.114	925286.938	1230.366
2093	0	439638.210	925522.780	1233.531
2095	0	441797.147	925973.976	1204.726
2101	0	437003.113	927175.868	1240.207
2103	0	439133.135	927517.947	1235.623
2105	0	441186.262	927906.579	1218.545
2111	0	436711.196	929134.861	1255.798
2113	0	438891.457	929277.641	1245.104
2115	0	440947.262	929747.503	1228.196
2121	0	436301.627	931094.669	1267.654
2123	0	438407.285	931719.945	1262.158

2125	0	440463.550	931769.318	1239.387
2131	0	435870.136	933213.590	1281.288
2133	0	438006.090	933395.332	1274.192
2135	0	439924.103	933796.303	1252.873
2141	0	435467.595	935154.058	1370.813
2143	0	437445.954	935447.000	1289.440
2145	0	439517.066	935868.844	1267.029
2151	0	434817.479	937162.172	1375.881
2153	0	437090.531	937439.696	1305.736
2161	0	434628.980	939067.962	1332.378
2163	0	436630.778	939673.931	1298.223
2165	0	438615.241	939886.099	1292.998
2171	0	434162.953	941210.324	1331.283
2173	0	436164.234	941641.372	1325.955
2175	0	438106.550	942108.260	1308.096
2181	0	433496.654	943278.311	1344.235
2183	0	435236.682	943853.275	1341.326
2185	0	437473.177	944090.296	1320.028
2191	0	432956.482	945387.507	1359.157
2193	0	435231.305	945851.478	1355.048
2195	0	437162.836	946231.914	1335.050
2201	0	432460.370	947693.000	1375.289
2203	0	434551.537	948000.522	1368.011
2205	0	436389.916	948501.545	1368.851
2211	0	431994.282	949895.103	1389.177
2213	0	434017.592	950464.973	1385.216
2215	0	436053.954	950789.758	1371.394
2221	0	431365.659	952259.431	1404.512
2223	0	433450.354	952642.605	1399.676

2225	0	435479.278	953080.749	1382.288
3013	0	446989.300	913415.237	1115.789
3015	0	449132.235	914055.319	1159.675
3021	0	444292.321	915304.499	1173.522
3023	0	446374.740	915721.184	1130.897
3025	0	448345.465	916419.618	1123.432
3031	0	443432.410	917781.219	1155.223
3033	0	445623.947	918290.954	1151.777
3035	0	447880.562	918832.436	1132.671
3041	0	442955.092	920292.493	1169.181
3043	0	444932.924	920690.620	1171.810
3045	0	447217.414	921202.448	1142.782
3051	0	442187.539	922881.109	1193.742
3053	0	444378.300	923287.467	1209.620
3055	0	446827.455	923819.532	1156.935
3061	0	441878.147	925188.282	1200.276
3063	0	443944.832	925823.907	1215.357
3065	0	446017.702	926203.907	1205.421
3071	0	441042.657	927832.763	1219.042
3073	0	443455.061	928445.118	1243.393
3075	0	445393.604	928867.480	1224.096
3081	0	440516.528	930645.386	1235.850
3083	0	442933.793	930775.386	1268.003
3085	0	444950.619	931238.331	1225.150
3091	0	440015.219	932663.770	1248.024
3093	0	442405.361	933046.903	1271.226
3101	0	439567.338	935018.252	1262.772
3103	0	441861.534	935231.242	1267.358
3105	0	443980.374	935639.279	1263.097

3111	0	439065.596	937085.331	1274.341
3113	0	441228.841	937429.160	1292.890
3115	0	443379.866	937741.961	1293.430
3121	0	438574.877	939316.188	1289.920
3123	0	440761.415	939621.791	1306.387
3125	0	442910.331	940027.280	1318.232
3131	0	438149.228	941598.246	1304.548
3133	0	440405.738	941912.192	1320.655
3135	0	442463.507	942176.153	1320.046
3143	0	439734.720	944213.542	1333.634
3145	0	442016.962	944675.332	1333.022
3153	0	439599.111	946337.830	1347.027
3155	0	441529.167	946681.018	1347.143
3163	0	439141.791	948725.713	1363.097
3165	0	440993.279	949011.719	1357.831
3171	0	436090.974	950433.419	1373.911
3173	0	438556.581	950976.633	1388.027
3175	0	440381.724	951187.470	1374.715
3183	0	437905.980	953016.579	1384.836
3185	0	439635.471	953369.565	1385.558
4011	0	446375.803	951413.245	1325.680
4013	0	448474.137	950251.552	1365.065
4015	0	450243.286	949308.605	1297.855
4021	0	447451.943	953427.387	1360.736
4023	0	449471.160	952378.239	1332.609
4025	0	451506.332	951340.963	1280.848
4031	0	448651.862	955379.114	1378.473
4033	0	450625.074	954637.602	1355.856
4035	0	452603.190	953752.472	1292.291

4041	0	449656.103	957782.630	1412.516
4043	0	451545.399	956833.030	1369.579
4045	0	453510.582	955937.714	1300.764
4051	0	450798.494	959885.127	1403.853
4053	0	452898.478	959008.428	1317.630
4055	0	454737.405	957852.397	1312.296
4061	0	452064.724	961936.116	1397.910
4063	0	454019.183	961054.205	1322.988
4065	0	455960.346	960056.312	1325.267
4071	0	453169.636	964042.835	1408.816
4073	0	455156.040	963134.231	1335.629
4075	0	456974.804	962144.517	1337.359
4081	0	453935.846	966111.641	1389.081
4083	0	456038.677	965072.073	1345.295
4085	0	457912.800	964174.749	1349.510
4091	0	454989.178	967701.305	1386.072
4093	0	456968.111	966745.073	1354.879
4095	0	458704.808	965862.193	1359.927
4101	0	455782.975	969491.890	1409.037
4103	0	457919.651	968613.064	1366.751
4105	0	460024.616	967585.395	1369.141
4111	0	456928.409	971326.735	1404.022
4113	0	458819.209	970279.068	1376.319
4115	0	460500.435	969390.387	1377.878
4121	0	457795.291	973100.944	1398.444
4123	0	459541.289	972059.002	1386.891
4125	0	461435.305	971255.702	1388.279
4131	0	458826.543	975109.625	1411.851
4133	0	460731.745	974214.532	1401.362

4135	0	462843.788	973147.229	1399.727
4141	0	459790.968	977162.302	1427.654
4143	0	461774.359	976372.152	1415.342
4145	0	463675.885	975349.060	1413.798
5011	0	450102.392	949197.613	1295.527
5013	0	451936.870	948359.892	1266.539
5015	0	453989.300	947378.438	1325.588
5021	0	451198.204	951275.849	1280.419
5023	0	453335.792	950134.968	1326.663
5025	0	455117.468	949278.724	1323.341
5031	0	452175.043	953197.582	1287.502
5033	0	454159.559	952231.285	1294.686
5035	0	456362.034	951160.860	1367.775
5041	0	453190.835	955403.590	1298.979
5043	0	455265.479	954130.721	1373.741
5045	0	457320.344	953101.181	1394.623
5051	0	454195.748	957333.913	1305.730
5053	0	456217.111	956380.991	1352.254
5055	0	458119.731	955142.008	1411.476
5061	0	455340.850	959145.934	1320.995
5063	0	457361.842	958079.622	1411.098
5065	0	459251.390	957224.654	1421.509
5071	0	456334.450	961273.634	1331.479
5073	0	458272.969	960290.602	1413.084
5075	0	460187.003	959231.344	1430.120
5081	0	457281.183	963180.839	1344.722
5083	0	459417.404	962263.213	1434.236
5085	0	461109.889	961411.227	1451.971
5091	0	458472.595	965488.123	1359.184

5093	0	460493.663	964279.890	1468.238
5101	0	459430.770	967792.653	1369.316
5103	0	461691.860	966380.308	1481.842
5105	0	463292.883	965585.628	1486.273
5111	0	460482.066	969615.813	1378.459
5113	0	462544.052	968503.315	1471.849
5123	0	463626.393	970420.413	1478.389
5125	0	465226.923	969700.195	1511.567
5131	0	462066.705	973576.322	1401.893
5133	0	464245.156	972631.642	1396.346
5135	0	466194.613	971528.631	1529.629
5141	0	463116.666	975089.365	1410.548
5143	0	465183.367	974136.449	1403.470
5145	0	467267.073	973194.798	1546.326