RBF CONSULTING
A Baker Company

SURVEY REPORT MANUAL FOR
LOWER SALT RIVER DELINEATION STUDY
CONTRACT FCD2012C015
ASSIGNMENT No. 1

SITUATED IN OR NEAR
SECTIONS 3-4, TOWNSHIP 1 SOUTH, RANGE 1 EAST,
SECTIONS 22-28 & 33-36, TOWNSHIP 1 NORTH, RANGE 1 EAST,
SECTIONS 13-16 & 19-33, TOWNSHIP 1 NORTH, RANGE 2 EAST,
& SECTIONS 14-24 & 30, TOWNSHIP 1 NORTH, RANGE 3 EAST,
MARICOPA COUNTY, ARIZONA

PREPARED FOR
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
MARCH 2013

S.A. Nelson

REGISTERED LAND SURVEYOR
CERTIFICATE NO
21782
SCOTT A.
NELSON
Date Signed 6-20-13
ARIZONA U.S.A.

EXPIRES 9-30-15

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MARCH 2013

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SURVEYOR'S SUMMARY AND CERTIFICATION

BACKGROUND

This project involved the production of 2 foot contour interval floodplain mapping over approximately 14.5 square miles of the Lower Salt River Corridor from approximately the 24th Street Bridge on I-10 westerly to approximately 91st Avenue, all located in Phoenix, Arizona.

RBF Consulting performed a field survey to establish 28 aerial control panels prior to aerial photo acquisition, a field survey of 3 Airborne GPS Base Stations during the aerial photo acquisition and a field survey of 15 cross sections of the river bottom at approximately 1 mile intervals throughout the project for aerial mapping quality control checks.

The post processing of the Airborne GPS Base Stations and Aircraft Onboard GPS data was compiled by A Team Professional Associates, Inc. while the Digital Terrain Model (DTM) and mapping was compiled from aerial imagery by AeroTech Mapping, Inc., both subconsultants to RBF Consulting. The DTM and mapping meets the American Society of Photogrammetry and Remote Sensing (ASPRS) standards for mapping at a two-foot contour interval.

Maricopa County Flood Control District provided 9 blind aerial control panels and random DTM observations for aerial mapping quality control checks.

PROJECT DATUM

The survey is based on the Maricopa County Geodetic Densification and Cadastral Survey (GDACS) (which is based on the North American Datum of 1983 (1992 epoch) Arizona Central Zone). The following GDACS control points were held as primary control for this project:

Name	NGS PID	Northing (ft)	Easting (ft)	Ellipse Hgt. (ft)
1BB1	AJ3821	882898.922	596287.574	896.97
1BC1	AJ3666	885252.336	614851.421	929.91
1BF1	AJ3668	879158.133	660049.338	994.52
MDOT	AJ3667	883372.028	637238.617	950.46

The vertical datum for the project is the North American Vertical Datum of 1988 (NAVD88). The following National Geodetic Survey (NGS) benchmarks and GDACS control points were held as primary vertical control for this project (elevations for the GDACS control points were obtained from Maricopa County Department of Transportation Approved Primary Control list, updated 3-13-2013). Geoid model GEOID09 (CONUS) was used in the data processing.

Name	NGS PID	NAVD 88 Elev. (ft)
B 519	DV2291	1110.93
C 519	DV2292	1099.69
D 519	DV2293	1099.89
D 521	DV2337	1039.43
W 519	DV2311	975.24
1BB1	AJ3821	996.13
1BC1	AJ3666	1028.80
1BF1	AJ3668	1092.37
MDOT	AJ3667	1048.82

SURVEY SUMMARY

RBF Consulting used accepted standard Global Positioning Systems (GPS) fast static and real-time kinematic (RTK) field surveying procedures to establish the aerial control panels and to survey the cross sections of the river bottom.

Aerial Control Panel Survey

The first task of this project was to establish the aerial control panels needed to perform aerial mapping for the project. This was accomplished by collecting static observations on two GDACS control points (1BC1, 1BF1 or MDOT) with two Trimble 5700 receivers collecting at a 5 second epoch rate while using two Trimble R8 receivers to collect a minimum of 8 minute fast static sessions at a 5 second epoch rate on the 28 aerial control panels and 5 NGS benchmarks. Fixed height tripods/fixed height poles were used for every occupation to eliminate antenna height errors. Two fast static sessions were collected on all points with a minimum of a 3 hour time separation between each session to ensure redundant measurements to all points. All of the GPS data collected for the aerial control panels was post-processed and ran through network adjustments in MicroSurvey Star*Net-Pro. A minimally constrained network adjustment was first performed holding only GDACS control point 1BC1. The results of the remaining primary control was then checked against published GDACS/NGS values for quality control. Once it was determined the results showed good agreement with the published values, a fully constrained network adjustment holding the primary control noted in the

Project Datum section above was performed yielding the final coordinate values for the aerial control panels.
(See Section 2 of this Survey Report Manual for more information)

Cross Sections Survey

The second task of this project was to survey 15 cross sections of the river bottom at approximately 1 mile intervals throughout the project for aerial mapping quality control checks. This was accomplished using GPS RTK survey methods by having a Trimble 5700 receiver base station set on a GDACS control point (or an aerial control panel if the radio connection between the base station and rover became unreliable) and a Trimble R8 receiver as a rover unit. Fixed height tripods/fixed height poles were used for every occupation to eliminate antenna height errors. Additionally check shots were taken prior to and after completion of each cross section on aerial control panels. All of the GPS data collected for the cross sections was processed in Trimble Business Center. Cross section data was checked against a preliminary Digital Terrain Model prepared by AeroTech and the data checked within the American Society of Photogrammetry and Remote Sensing (ASPRS) standards for mapping at a two-foot contour interval
(See Section 3 of this Survey Report Manual for more information)

Airborne GPS Survey

The third task of this project was to provide three ground base stations on GDACS control points (1BC1, 1BF1 and MDOT) for airborne GPS post-processing purposes. These three setups utilized fixed height tripods and two Trimble 5700 receivers along with one Trimble R8 receiver, all collecting data at 10hz. Coordination regarding the date of flight and requirements for the airborne collection was performed with AeroTech Mapping, Inc. and A Team Professional Associates, Inc. The ground base station data was delivered to A Team Professional Associates, Inc. for post-processing with the aircraft onboard GPS data.
(See Section 4 of this Survey Report Manual for more information)

Surveyors Certification

I, Scott A. Nelson, an Arizona Registered Land Surveyor, hereby certify that this survey was performed under my direct supervision, and that the report and values/coordinates shown herein are true and accurate to the best of my knowledge and belief.

Scott A. Nelson
AZ RLS #21782

SECTION 2

AERIAL CONTROL PANEL SURVEY

SECTION 2.1

FINAL COORDINATES OF AERIAL CONTROL PANEL POINTS

MARCH 2013 LOWER SALT RIVER MAPPING
REPORT NAME: FINAL COORDINATES AERIAL CONTROL PANEL POINTS

Point Name	Description	NAD 83(1992) AZ SPCS (0202)		NAVD 88	NAD 83(1992)		GRS (80)	Combined	Convergence
		Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Latitude	Longitude	Ellipsoid Height(IFT)	Scale Factor	Angle
CONTROL									
1BB1	AJ3821 GDACS MONUMENT	882898.922	596287.574	996.13	N33°25'35.61904"	W112°15'23.78006"	896.90	0.99986940	-0°11'14"
1BC1	AJ3666 GDACS MONUMENT	885252.336	614851.421	1028.80	N33°25'59.45056"	W112°11'44.80846"	929.91	0.99986381	-0°09'14"
1BF1	AJ3668 GDACS MONUMENT	879158.133	660049.338	1092.37	N33°25'00.03497"	W112°02'51.35510"	994.50	0.99985425	-0°04'20"
MDOT	AJ3667 GDACS MONUMENT	883372.028	637238.617	1048.82	N33°25'41.36285"	W112°07'20.58289"	950.48	0.99985903	-0°06'48"
B 519	DV2291 NGS BENCHMARK	875648.250	667192.315	1110.93	N33°24'25.38835"	W112°01'27.03654"	1013.18	0.99985276	-0°03'33"
C 519	DV2292 NGS BENCHMARK	878676.162	665525.731	1099.69	N33°24'55.32975"	W112°01'46.73619"	1001.89	0.99985343	-0°03'44"
D 519	DV2293 NGS BENCHMARK	879536.146	665460.102	1099.89	N33°25'03.83792"	W112°01'47.52154"	1002.09	0.99985342	-0°03'44"
D 521	DV 2337 NGS BENCHMARK	854199.375	622932.391	1039.43	N33°20'52.41099"	W112°10'08.56031"	941.09	0.99986177	-0°08'19"
W 519	DV2311 NGS BENCHMARK	875637.789	586135.615	975.24	N33°24'23.43277"	W112°17'23.26118"	875.99	0.99987293	-0°12'20"
AERIAL CONTROL PANEL POINTS									
PP1100	SET PK NAIL	875675.137	672654.459	1119.93	N33°24'25.70555"	W112°00'22.59927"	1022.24	0.99985195	-0°02'58"
PP1101	SET ALUM CAP ON REBAR	880790.668	672353.378	1110.47	N33°25'16.31727"	W112°00'26.20372"	1012.76	0.99985242	-0°03'00"
PP1102	SET ALUM CAP ON REBAR	876323.842	665436.244	1103.94	N33°24'32.05438"	W112°01'47.76178"	1006.16	0.99985323	-0°03'45"
PP1103	SET ALUM CAP ON REBAR	881906.874	665352.284	1098.78	N33°25'27.29327"	W112°01'48.82417"	1000.97	0.99985348	-0°03'45"
PP1104	SET PK NAIL	877605.931	657532.390	1085.70	N33°24'44.64481"	W112°03'21.02656"	987.80	0.99985480	-0°04'36"
PP1105	SET ALUM CAP ON REBAR	881891.434	657698.207	1081.65	N33°25'27.04869"	W112°03'19.13767"	983.71	0.99985498	-0°04'35"
PP1106	SET PK NAIL	883254.270	645948.087	1063.12	N33°25'40.35635"	W112°05'37.80943"	964.96	0.99985718	-0°05'51"
PP1107	SET PK NAIL	875115.942	645290.104	1059.12	N33°24'19.82296"	W112°05'45.40808"	961.04	0.99985745	-0°05'55"
PP1108	SET PK NAIL	877497.855	650687.342	1072.06	N33°24'43.47759"	W112°04'41.78118"	974.05	0.99985618	-0°05'20"
PP1109	SET PK NAIL	871201.401	628537.999	1024.57	N33°23'40.76249"	W112°09'02.92611"	926.18	0.99986153	-0°07'44"
PP1110	SET PK NAIL	871308.045	631961.113	1028.17	N33°23'41.89201"	W112°08'22.55193"	929.85	0.99986081	-0°07'22"
PP1111	SET ALUM CAP ON REBAR	881414.796	627889.474	1030.97	N33°25'21.80111"	W112°09'10.84931"	932.43	0.99986134	-0°07'49"
PP1112	SET ALUM CAP ON REBAR	881718.790	637349.290	1047.28	N33°25'25.00760"	W112°07'19.23844"	948.97	0.99985909	-0°06'47"
PP1113	SET PK NAIL	875458.086	637206.383	1042.92	N33°24'23.06023"	W112°07'20.77854"	944.67	0.99985932	-0°06'48"
PP1114	SET PK NAIL	877767.523	628310.401	1027.16	N33°24'45.72384"	W112°09'05.78555"	928.67	0.99986145	-0°07'46"
PP1115	COP BCF	869684.065	623929.775	1014.47	N33°23'25.64381"	W112°09'57.23888"	915.99	0.99986280	-0°08'14"

Point Name	Description	NAD 83(1992) AZ SPCS (0202)		NAVD 88	NAD 83(1992)		GRS (80)	Combined	Convergence
		Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Latitude	Longitude	Ellipsoid Height(IFT)	Scale Factor	Angle
AERIAL CONTROL PANEL POINTS									
PP1116	COP BCF	872004.448	622182.003	1013.27	N33°23'48.56023"	W112°10'17.92049"	914.71	0.99986317	-0°08'25"
PP1117	SET ALUM CAP ON REBAR	877561.487	620261.360	1016.98	N33°24'43.49537"	W112°10'40.74028"	918.29	0.99986334	-0°08'38"
PP1118	SET ALUM CAP ON REBAR	875565.169	612340.887	1003.60	N33°24'23.53694"	W112°12'14.11842"	904.77	0.99986551	-0°09'29"
PP1119	SET ALUM CAP ON REBAR	868903.069	614691.727	999.60	N33°23'17.68440"	W112°11'46.17472"	900.92	0.99986523	-0°09'14"
PP1120	SET PK NAIL	864935.474	613977.886	998.00	N33°22'38.40925"	W112°11'54.46744"	899.35	0.99986544	-0°09'18"
PP1121	SET ALUM CAP ON REBAR	866290.527	607406.568	988.26	N33°22'51.63373"	W112°13'12.00928"	889.44	0.99986726	-0°10'01"
PP1122	SET PK NAIL	876896.600	607022.066	997.40	N33°24'36.56060"	W112°13'16.91002"	898.43	0.99986691	-0°10'04"
PP1123	SET PK NAIL	874885.473	602250.709	988.62	N33°24'16.52051"	W112°14'13.12648"	889.59	0.99986838	-0°10'35"
PP1124	SET ALUM CAP ON REBAR	872807.892	595184.564	966.45	N33°23'55.74177"	W112°15'36.40207"	867.34	0.99987108	-0°11'21"
PP1125	SET ALUM CAP ON REBAR	868370.476	594928.466	960.85	N33°23'11.82913"	W112°15'39.24987"	861.81	0.99987141	-0°11'22"
PP1126	SET PK NAIL	862372.298	596690.129	970.11	N33°22'12.53949"	W112°15'18.24265"	871.16	0.99987054	-0°11'10"
PP1127	SET ALUM CAP ON REBAR	870847.545	609862.898	987.26	N33°23'36.79146"	W112°12'43.19310"	888.44	0.99986680	-0°09'45"

SECTION 2.2

FCDMC HIS COORDINATES FORMAT
AERIAL CONTROL PANEL POINTS

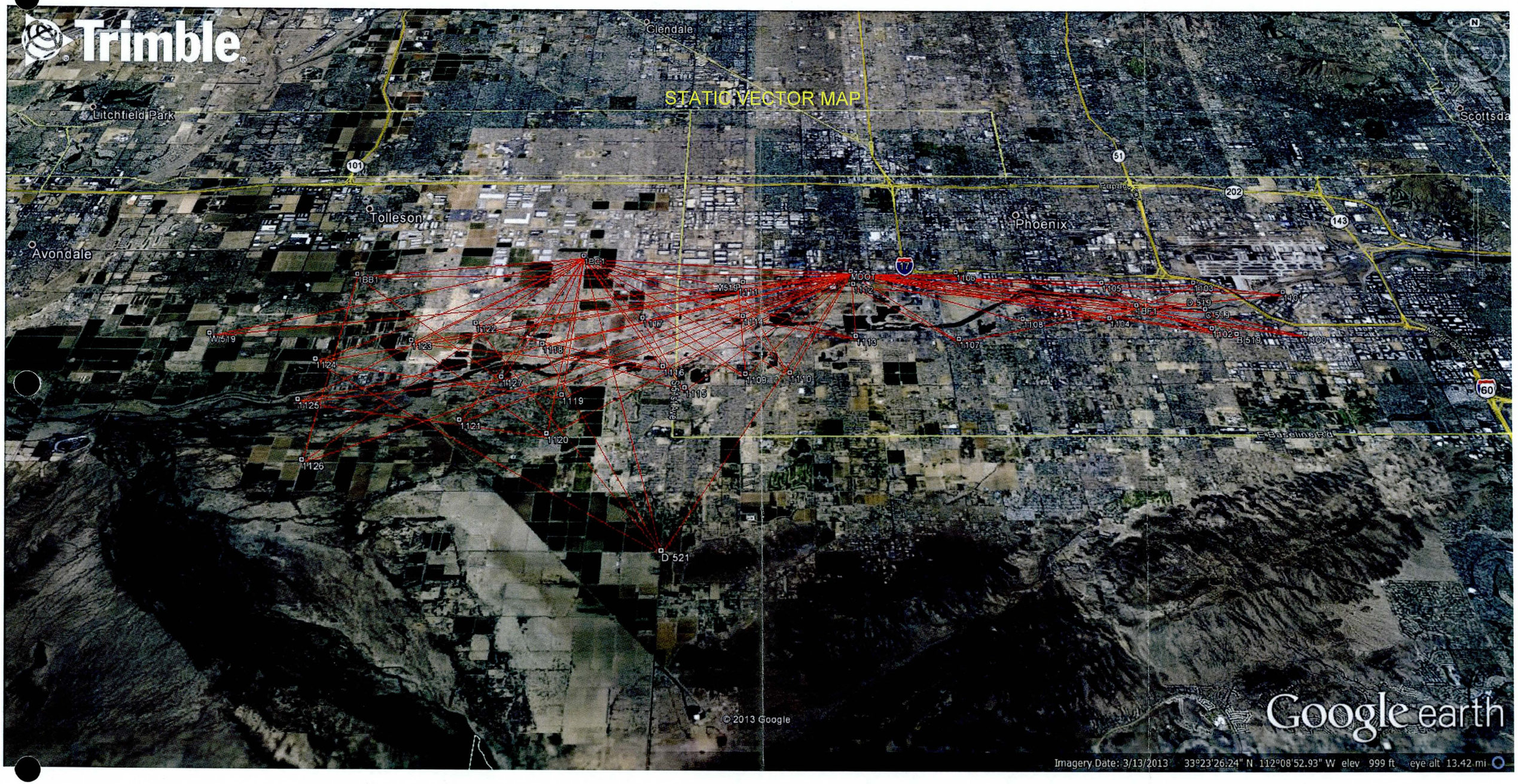
MARCH 2013 LOWER SALT RIVER MAPPING
REPORT NAME: HIS DATA SETS

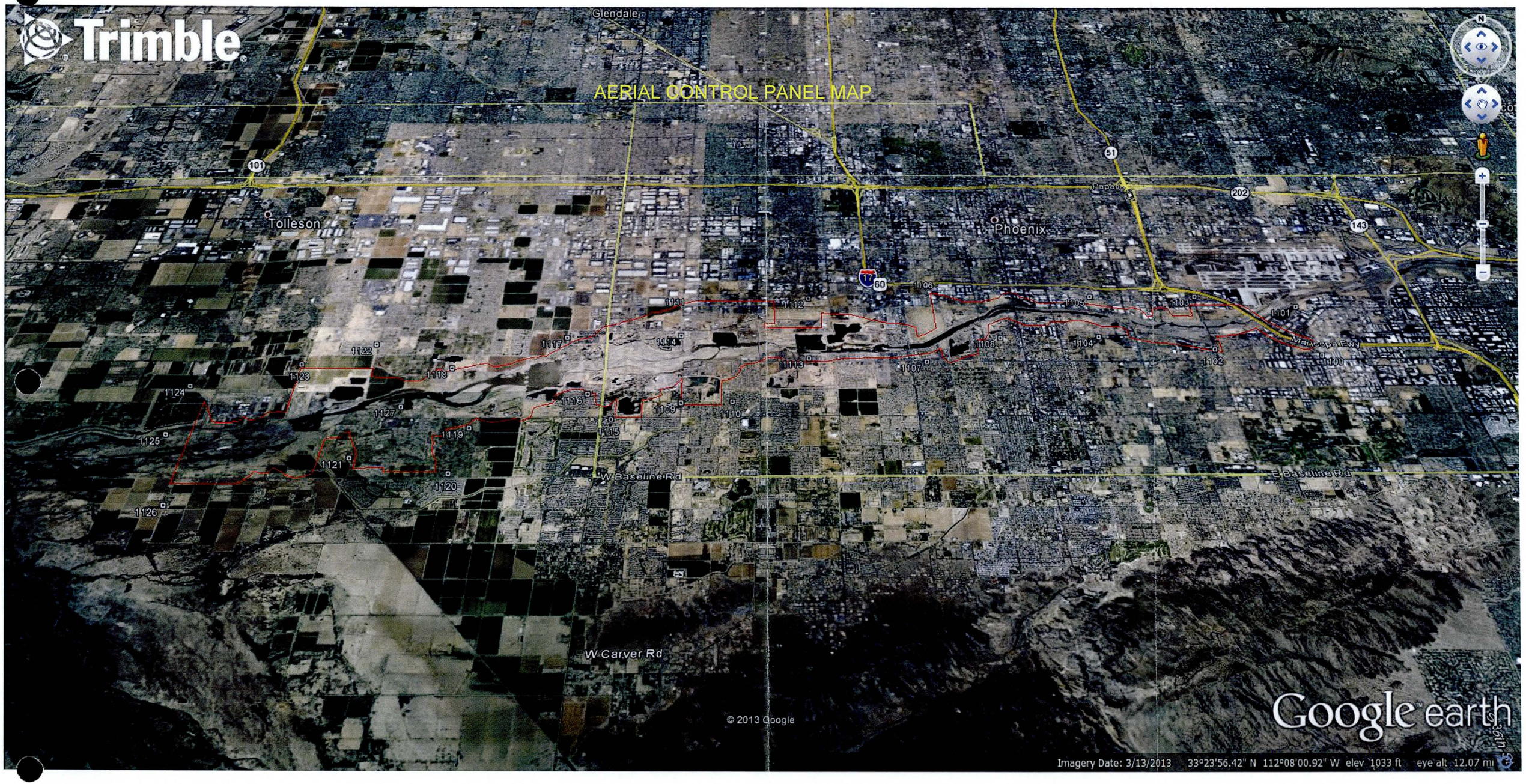
TYP_LID	HOR_LID	VER_LID	XNAD27	YNAD27	XNAD83	YNAD83	NGVD29	NAVD88	MNT_LID	PNTNUM	DESC
6	20	21	0.000	0.000	672654.459	875675.137	0.000	1119.93	32	PP1100	SET PK NAIL
6	20	21	0.000	0.000	672353.378	880790.668	0.000	1110.47	32	PP1101	SET ALUM CAP ON REBAR
6	20	21	0.000	0.000	665436.244	876323.842	0.000	1103.94	32	PP1102	SET ALUM CAP ON REBAR
6	20	21	0.000	0.000	665352.284	881906.874	0.000	1098.78	32	PP1103	SET ALUM CAP ON REBAR
6	20	21	0.000	0.000	657532.390	877605.931	0.000	1085.70	32	PP1104	SET PK NAIL
6	20	21	0.000	0.000	657698.207	881891.434	0.000	1081.65	32	PP1105	SET ALUM CAP ON REBAR
6	20	21	0.000	0.000	645948.087	883254.270	0.000	1063.12	32	PP1106	SET PK NAIL
6	20	21	0.000	0.000	645290.104	875115.942	0.000	1059.12	32	PP1107	SET PK NAIL
6	20	21	0.000	0.000	650687.342	877497.855	0.000	1072.06	32	PP1108	SET PK NAIL
6	20	21	0.000	0.000	628537.999	871201.401	0.000	1024.57	32	PP1109	SET PK NAIL
6	20	21	0.000	0.000	631961.113	871308.045	0.000	1028.17	32	PP1110	SET PK NAIL
6	20	21	0.000	0.000	627889.474	881414.796	0.000	1030.97	32	PP1111	SET ALUM CAP ON REBAR
6	20	21	0.000	0.000	637349.290	881718.790	0.000	1047.28	32	PP1112	SET ALUM CAP ON REBAR
6	20	21	0.000	0.000	637206.383	875458.086	0.000	1042.92	32	PP1113	SET PK NAIL
6	20	21	0.000	0.000	628310.401	877767.523	0.000	1027.16	32	PP1114	SET PK NAIL
6	20	21	0.000	0.000	623929.775	869684.065	0.000	1014.47	32	PP1115	COP BCF
6	20	21	0.000	0.000	622182.003	872004.448	0.000	1013.27	32	PP1116	COP BCF
6	20	21	0.000	0.000	620261.360	877561.487	0.000	1016.98	32	PP1117	SET ALUM CAP ON REBAR
6	20	21	0.000	0.000	612340.887	875565.169	0.000	1003.60	32	PP1118	SET ALUM CAP ON REBAR
6	20	21	0.000	0.000	614691.727	868903.069	0.000	999.60	32	PP1119	SET ALUM CAP ON REBAR
6	20	21	0.000	0.000	613977.886	864935.474	0.000	998.00	32	PP1120	SET PK NAIL
6	20	21	0.000	0.000	607406.568	866290.527	0.000	988.26	32	PP1121	SET ALUM CAP ON REBAR
6	20	21	0.000	0.000	607022.066	876896.600	0.000	997.40	32	PP1122	SET PK NAIL
6	20	21	0.000	0.000	602250.709	874885.473	0.000	988.62	32	PP1123	SET PK NAIL
6	20	21	0.000	0.000	595184.564	872807.892	0.000	966.45	32	PP1124	SET ALUM CAP ON REBAR
6	20	21	0.000	0.000	594928.466	868370.476	0.000	960.85	32	PP1125	SET ALUM CAP ON REBAR
6	20	21	0.000	0.000	596690.129	862372.298	0.000	970.11	32	PP1126	SET PK NAIL
6	20	21	0.000	0.000	609862.898	870847.545	0.000	987.26	32	PP1127	SET ALUM CAP ON REBAR

SECTION 2.3

MAP OF STATIC VECTORS

MAP OF AERIAL CONTROL PANELS


Trimble
STATIC VECTOR MAP
Glendale
Litchfield Park
Tolleson
Avondale
Phoenix
Scottsda
101
51
202
143
17
60
E Baseline Rd
1BC1
1BB1
W519
1124
1125
1126
1122
1123
1108
1127
1119
1121
1120
1117
1116
1115
1118
1109
1110
1111
1112
1113
1107
1106
1105
1104
1103
1102
1101
1100
1BF1
D 519
C 519
B 519
D 521
© 2013 Google
Google earth
Imagery Date: 3/13/2013 33°23'26.24" N 112°08'52.93" W elev 999 ft eye alt 13.42 mi


Trimble
AERIAL CONTROL PANEL MAP
Glendale
Tolleson
Phoenix
Papago
Maricopa Fwy
W Baseline Rd
E Baseline Rd
W Carver Rd
101
51
202
143
17
60
1101
1102
1103
1104
1105
1106
1107
1108
1109
1110
1111
1112
1113
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1115
1116
1117
1118
1119
1120
1121
1122
1123
1124
1125
1126
1127
© 2013 Google
Google earth
Imagery Date: 3/13/2013 33°23'56.42" N 112°08'00.92" W elev 1033 ft eye alt 12.07 mi

SECTION 2.4

OCCUPATION FIELD SHEETS

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RBF Consulting

STATION RECOVERY

Job No.	Date
131765	3/26/13

Job Name: SALT RIVER MAPPING

Observer: M. BUCHANAN

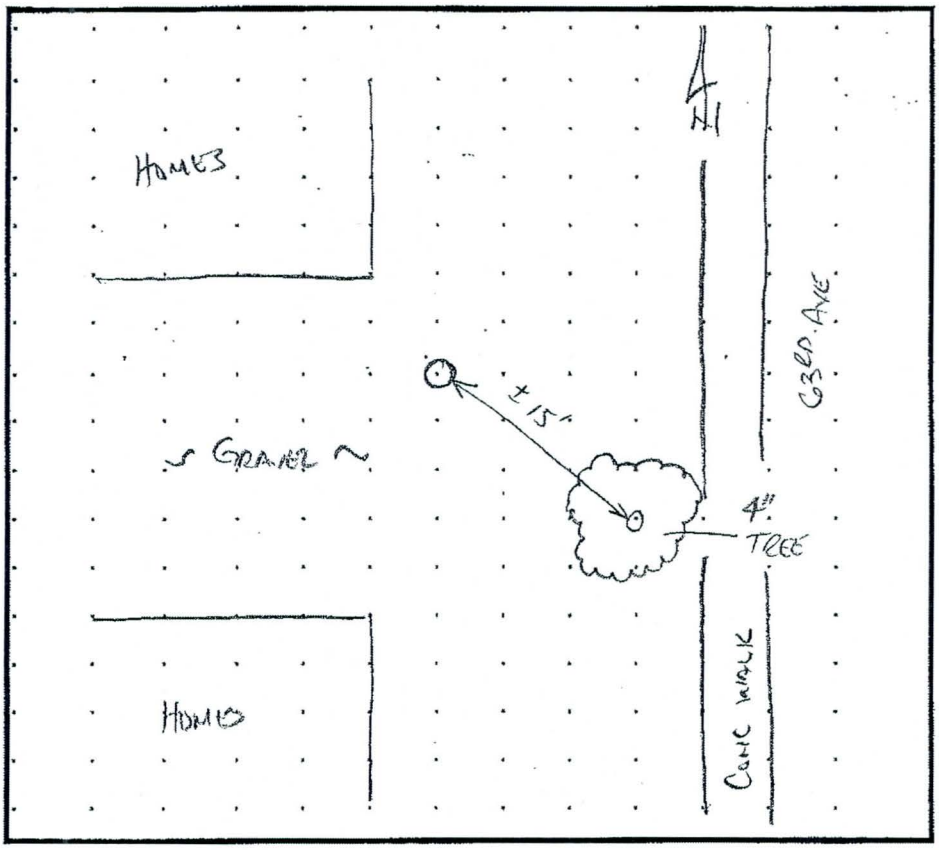
Station Name:	Number:
1BC1	

Stamping:

Center Mark:

Description:
GDACS CP.
ALUMINUM CAP ON
ROD IN HANDHOLE

Target offset distance:



Obstructions to visability: (Trees, Buildings, Radio Trans, ect.)

Clear to within 15 ▯

SERIAL # 0220240618

State: AZ ~~California~~ County: MARICOPA ~~Orange~~ City: TOLLESON ~~Mission Viejo~~

General Location: SN 0220240618

Access Instructions & permitting req.

Unrestricted access ▯

Required to reach: 2WD ▯ 4WD ▯ On foot ▯

HI ≈ 1.5M START 7:12 AM
END 3:52 PM

Photo No.

Book _____ Page 2 of 6

MULTIPLE OBSERVATION GPS LOG SHEET

Job No.	Date	Day	Job Name
131765	3/26/13		SALT RIVER

Observer	Equip. No.	Antenna Type	Antenna Meas. Technique
H. BUCHANAN	5226491237	R8-3	BOTTOM OF MOUNT Edge of GP | Base | Phase Center | Other

Station No.	Name	Start Time	Stop Time	H.I.(m)	Description
File Name / Monument Location / Target Offset / Notes					
1126	91ST AVE SOUTH OF BASELINE	8:52AM	9:00 AM	6.55'	PK IN PAINTED AT
1121	75TH AVE & CARTER RD	9:10 AM	9:19 AM	6.55'	BRIDGE SPIKE IN PAPER AT
1127	NORTH OF BASELINE EAST OF 75TH AVE	9:28 AM	9:36 AM	6.55'	BRIDGE SPIKE IN PAPER AT
1119	END OF 64TH AVE NORTH OF VINEYARD RD	9:47 AM	9:55 AM	6.55'	BRIDGE SPIKE IN PAPER AT
1120	BASELINE RD EAST OF 67TH AVE	10:03 AM	10:11 AM	6.55'	PK NAIL IN PAINTED AT
D 521	51ST AVE SOUTH OF ELLIOT RD	10:25 AM	10:34 AM	6.55'	AL ROD IN HH.
1116	BONIKER ST AND RIVER WALK DR	10:44 AM	10:53 AM	6.55'	COP. BC FLUSH IN PAINTED AT
1115	50TH AVE AND NANCY LN	11:31 AM	11:39 AM	6.55'	C.O.P. BC FLUSH IN PAINTED AT
1109	43RD AVE NORTH OF SOUTHERN	11:45 AM	11:54 AM	6.55'	PK NAIL IN PAINTED AT
1110	PECAN RD EAST OF 38TH AVE	11:58 AM	12:06 PM	6.55'	PK NAIL IN PAINTED AT

Book _____ Page 3 of 6

MULTIPLE OBSERVATION GPS LOG SHEET

Job No.	Date	Day	Job Name
131265	3/26/13		SALT RIVER

Observer	Equip. No.	Antenna Type	Antenna Meas. Technique
M. BUCHANAN	5226491237	R8-3	BOTTOM OF MOUNT Edge of GP | Base | Phase Center | Other

Station No.	Name	Start Time	Stop Time	H.I.(m)	Description
File Name / Monument Location / Target Offset / Notes					
1126	91ST AVE SOUTH OF BASELINE	12:21 pm	12:29 pm	6.55'	PK NAIL IN PAINTED AT
1121	75TH AVE & CARTER RD	12:37 pm	12:45 pm	6.55'	BRIDGE SPIKE IN PAPER AT
1127	NORTH OF BASELINE EAST OF 75TH AVE	12:52 pm	1:01 pm	6.55'	BRIDGE SPIKE IN PAPER AT
1119	END OF 64TH AVE NORTH OF VINEYARD RD	1:11 pm	1:20 pm	6.55'	BRIDGE SPIKE IN PAPER AT
1120	BASELINE RD EAST OF 67TH AVE	1:27 pm	1:35 pm	6.55'	PK NAIL IN PAINTED AT
D 521	51ST AVE SOUTH OF ELLIOT RD	1:45 pm	1:53 pm	6.55'	BM AL.ROD IN HH
1116	BONKER ST AND RIVERWALK DR	2:03 pm	2:12 pm	6.55'	COP BC FLUSH IN PAINTED AT
1115	50TH AVE AND NANCY LN	2:32 pm	2:40 pm	6.55'	COP BC FLUSH IN PAINTED AT
1109	43RD AVE NORTH OF SOUTHERN	2:45 pm	2:53 pm	6.55'	PK NAIL IN PAINTED AT
1110	PECAN RD EAST OF 38TH AVE	2:58 pm	3:06 pm	6.55'	PK NAIL IN PAINTED AT
1113	BROADWAY RD EAST OF 35TH AVE	3:14 pm	3:22 pm	6.55'	PK NAIL IN PAINTED AT

RBF Consulting

STATION RECOVERY

Job No.	Date
131765	3/27/13

Job Name: SALT RIVER

Observer: M. BUCHANAN

Station Name:	Number:
IBF1	

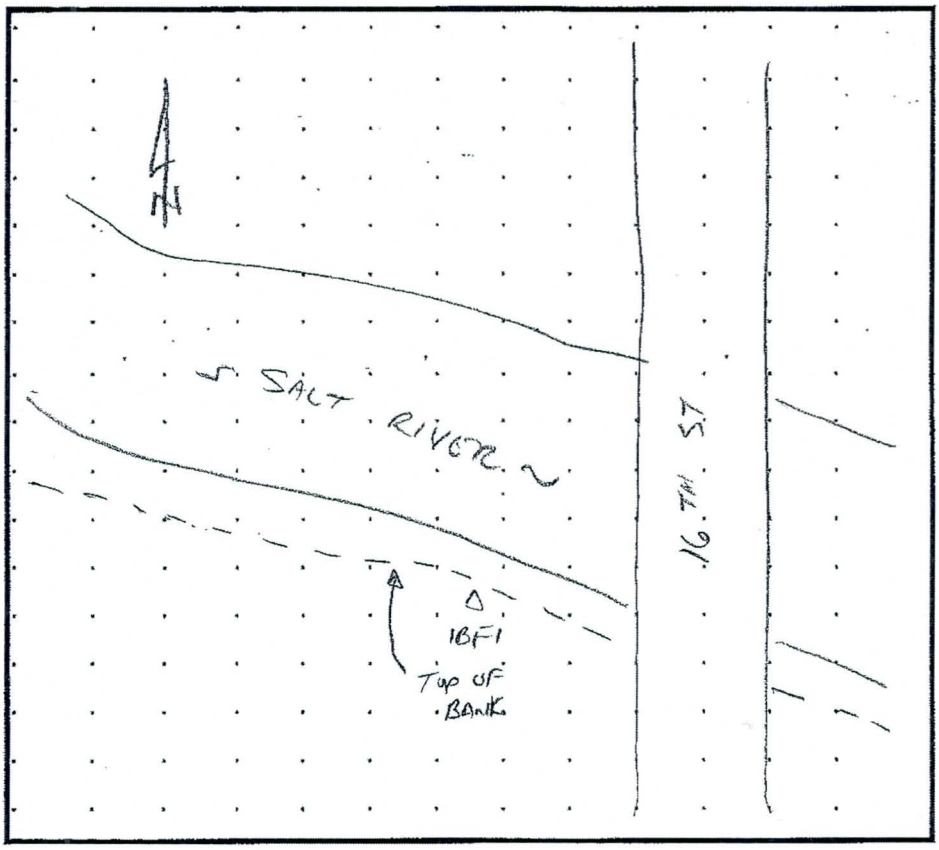
Stamping:

Center Mark:

Description:

GDACS CP
ALUMINUM CAP ON
ROD IN HH

Target offset distance:



Obstructions to visability:
(Trees, Buildings, Radio Trans, ect.)

Clear to within 15 ▯

State: AZ ~~California~~ County: MARICOPA ~~Orange~~ City: PHOENIX ~~Mission Viejo~~

General Location:

SERIAL # 0220240618

Access Instructions & permitting req.

Unrestricted access ▯

Required to reach: 2WD ▯ 4WD ▯ On foot ▯

HI = 1.5M START 7:31 AM
END 1:34 PM

Photo No.

Book _____ Page 5 of 6

MULTIPLE OBSERVATION GPS LOG SHEET

Job No.	Date	Day	Job Name
131765	3/27/13		SALT RIVER

Observer	Equip. No.	Antenna Type	Antenna Meas. Technique
M. BUCHANAN	5226491237	R8-3	BOTTOM OF MOUNT Edge of GP | Base | Phase Center | Other

Station No.	Name	Start Time	Stop Time	H.I.(m)	Description
File Name / Monument Location / Target Offset / Notes					
1101	35TH ST. SOUTH OF POND	8:03 AM	8:11 AM	6.55'	BRIDGE SPIKE IN PAPER AT
1100	BROADWAY RD EAST OF 32ND ST	8:19 AM	8:28 AM	6.55'	PK NAIL IN PAINTED AT.
B 519	27TH ST AND BROADWAY RD	8:39 AM	8:47 AM	6.55'	BM AL ROD IN HH
1102	24TH ST AND WOOD ST	8:52 AM	9:00 AM	6.55'	BRIDGE SPIKE IN PAPER AT
1104	12TH ST AND NORTH OF JONES AVE	9:08 AM	9:16 AM	6.55'	PK NAIL IN PAINTED AT
1108	WEST RD, EAST OF 6TH AVE	9:24 AM	9:32 AM	6.55'	PK NAIL IN PAINTED AT
1107	CORONA AVE WEST OF 17TH AVE	9:39 AM	9:47 AM	6.55'	PK NAIL IN PAINTED AT

MULTIPLE OBSERVATION GPS LOG SHEET

Job No.	Date	Day	Job Name
131765	3/27/13		SALT RIVER

Observer	Equip. No.	Antenna Type	Antenna Meas. Technique
M. BUCHANAN	5226491237	R8-3	BOTTOM OF MOUNT Edge of GP | Base | Phase Center | Other

Station No.	Name	Start Time	Stop Time	H.I.(m)	Description
File Name / Monument Location / Target Offset / Notes					
1101	35TH ST SOUTH OF POND	11:31 AM	11:40 AM	6.55'	BRIDGE SPIKE IN PAPER AT
1100	BROADWAY RD EAST OF 32ND ST	11:47 AM	11:56 AM	6.55'	PK NAIL IN PAINTED AT.
B519	27TH ST AND BROADWAY RD	12:03 PM	12:11 PM	6.55'	BM AL ROD IN HH
1102	24TH ST AND WOOD ST	12:16 PM	12:24 PM	6.55'	BRIDGE SPIKE IN PAPER AT
1104	12TH ST AND NORTH OF JONES AVE	12:32 PM	12:40 PM	6.55'	PK NAIL IN PAINTED AT
1108	WEST RD, EAST OF 6TH AVE	12:49 PM	12:58 PM	6.55'	PK NAIL IN PAINTED AT
1107	CORONA AVE WEST OF 17TH AVE	1:05 PM	1:13 PM	6.55'	PK NAIL IN PAINTED AT

RBF Consulting

STATION RECOVERY

Job No. 131765

Date 3/26/13 3/27/13

Job Name: Salt River Mapping

Observer: R. Carrell

Station Name: MDOT

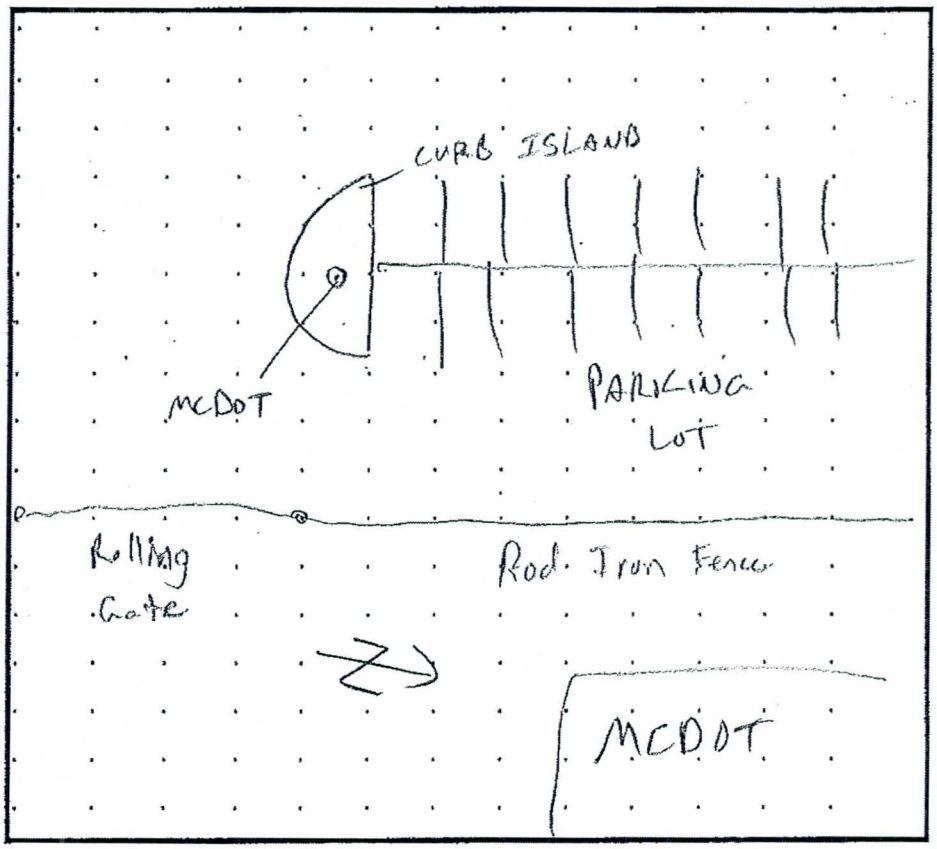
Number:

Stamping:

Center Mark:

Description: GDACS CP Alum. Cap on Rod in Handhole

Target offset distance:



Obstructions to visability: (Trees, Buildings, Radio Trans, ect.)

Clear to within 15 ☐

State: AZ California

County: Maricopa Orange

City: Tollison Mission Viejo

General Location: Serial # 0220267896

Access Instructions & permitting req.

Unrestricted access ☐

Required to reach: 2WD ☐ 4WD ☐ On foot ☐

HI = 1.5M	START	7:58 AM	3/26/13
	END	3:53 pm	3/26/13
	START	6:52 AM	3/27/13
	END	1:33 PM	3/27/13

Photo No.

MULTIPLE OBSERVATION GPS LOG SHEET

5700 Receiver S/N 0220267896

Job No.	Date	Day	Job Name
131765	3-26-13	Tue	Salt River

Observer	Equip. No.	Antenna Type	Antenna Meas. Technique
R. Carrell	4529153617	RB	Bottom of Mount Edge of GP | Base | Phase Center | Other

Station No.	Name	Start Time	Stop Time	H.I.(m)	Description
File Name / Monument Location / Target Offset / Notes					
1113	35TH AVE & Broadway IN CONC. PAD	8:21 AM	8:29 AM	6.54'	PK PAINTED AT
1881	91ST AVE + LOWER BUCKEYE IN HH	8:49 AM	8:57 AM	6.54'	3/4 IN BAR
W519	107TH + BROADWAY	9:10 AM	9:18 AM	6.54'	3 IN BC IN TOWER FOOTING
1125	91ST SOUTH INTO RIVER WASH	9:28 AM	9:36 AM	6.54	Bridge Spike AT
1124	91ST AVE + BROADWAY S 1300ft +/-	9:45 AM	9:53 AM	6.54'	Bridge Spike AT
1123	83RD AVE + BROADWAY	10:02 AM	10:10 AM	6.54'	PK NAIL AT
1122	Getty Dr + 75th AVE	10:18 AM	10:26 AM	6.54'	PK NAIL AT
1118	67TH AVE + SE BROADWAY COR.	10:33 AM	10:41 AM	6.54'	Bridge Spike AT
1117	55TH AVE + JONES N of Broadway	11:34 AM	11:42 AM	6.54'	Bridge Spike AT
1114	43RD AND ELWOOD ST S OF BROADWAY	12:05 pm	12:13 pm	6.54'	PK Nail AT
1111	NW COR OF 43RD AVE + BROADWAY	11:52 AM	12:00 pm	6.54'	Bridge Spike AT
M519	43RD + Lower Buckeye N of L.B. East side	12:25 pm	12:33 pm	6.54'	STEEL SHAFT POINT IN HH

ALL FACING NORTH HEN SHOT

MULTIPLE OBSERVATION GPS LOG SHEET

5700 Receiver S/N 0220267896

Job No.	Date	Day	Job Name
131765	3-26-13	Tue	Salt River

Observer	Equip. No.	Antenna Type	Antenna Meas. Technique
R. Carrell	4529153617	RB	Bottom of Mount Edge of GP | Base | Phase Center | Other

Station No.	Name	Start Time	Stop Time	H.I.(m)	Description
File Name / Monument Location / Target Offset / Notes					
1BB1	91 ST AVE + LOWER BUCKEYE	12:48 pm	12:56 pm	6.54'	3/4 IN ROD
W519	107TH + Broadway	1:08 pm	1:16 pm	6.54'	3 IN BC IN TOWER FOOTING
1125	91ST SOUTH INTO RIVER WASH	1:26 pm	1:34 pm	6.54'	Bridge spike AT
1124	91ST AVE + Broadway 1300ft +/- S then W,	1:41 pm	1:49 pm	6.54'	Bridge Spike AT
1123	83RD AVE + BROADWAY	1:56 pm	2:04 pm	6.54'	PK NAIL AT
1122	Getty Dr + 75th Ave	2:09 pm	2:17 pm	6.54'	PK NAIL AT
1118	67th Ave + Broadway SE COR	2:25 pm	2:33 pm	6.54'	Bridge Spike AT
1117	55TH AVE + JONES N of Broadway AVE	2:39 pm	2:47 pm	6.54'	Bridge Spike AT
1114	43RD + ELWOOD AVE S of Broadway	3:08 pm	3:16 pm	6.54'	PK Nail AT
1111	NW COR OF 48RD + BROADWAY	2:55 pm	3:03 pm	6.54'	Bridge Spike AT
M519	43RD + Lower Buckeye N of L.B. East side	3:26 pm	3:34 pm	6.54'	STEEL ROD POINT IN HH

ALL FACING SOUTH WHEN SHOT

MULTIPLE OBSERVATION GPS LOG SHEET

5700 Receiver S/N 022 0267896

Job No.	Date	Day	Job Name
131765	3-27-13	Wed	Salt River

Observer	Equip. No.	Antenna Type	Antenna Meas. Technique
R. Carrell	4529153617	R8	Bottom of Mount Edge of GP | Base | Phase Center | Other

Pacing	Station No.	Name	Start Time	Stop Time	H.I.(m)	Description
S	1103	NE CORNER OF 24ST + UNIVERSITY	7:58 am	8:06 AM	6.54'	Bridge Spike AT
N	C519	S END OF BRIDGE ON 24TH ST. E side	8:16 AM	8:24 AM	6.54'	3 IN BC in S SIDE Bridge Abutment
S	D519	N END OF BRIDGE ON 24TH ST. E. SIDE	8:32 AM	8:40 AM	6.54'	3 IN BC IN BRIDGE ABUTMENT N SIDE
S	1105	DIRT lot W of 16th ST. ON UNIVERSITY	8:48 AM	8:56 AM	6.54'	BRIDGE SPIKE AT
S	1106	WATKINS + 16TH AVE	9:09 AM	9:17 AM	6.54'	PK NAIL AT
S	1112	INSIDE ACDOT 27th AVE + L. Buckeye	9:47 AM	9:55 AM	6.54'	Bridge Spike AT
N	1103	NE CORNER OF 24TH ST + UNIVERSITY	11:29 AM	11:37 AM	6:54'	Bridge Spike AT
N	C519	S. END OF BRIDGE ON 24TH ST E. side	11:43 AM	11:51 AM	6.54'	3in BC in Bridge ABUTMENT N SIDE
S	D519	N. END OF BRIDGE ON 24TH ST. E. side	12:00 PM	12:08 PM	6.54'	3IN BC IN BRIDGE ABUTMENT S SIDE
N	1105	Dirt lot W. of 16th St. on University	12:18 pm	12:26 PM	6.54'	BRIDGE SPIKE AT
N	1106	WATKINS + 16th AVE.	12:40 pm	12:48 PM	6.54'	PK NAIL AT
	1112	INSIDE ACDOT 27th AVE + L. Buckeye	1:05 pm	1:13 pm	6.54'	BRIDGE SPIKE AT

SECTION 2.5

MICROSURVEY STAR*NET-PRO UNCONSTRAINED NETWORK ADJUSTMENT REPORT

MicroSurvey STAR*NET-PRO Version 7.0.0.42
Run Date: Fri Mar 29 2013 12:58:50

Summary of Files Used and Option Settings

Project Folder and Data Files

Project Name	131765_U
Project Folder	C:\DOCUMENTS AND SETTINGS\...\131765_U
Data File List	1. 131765_u.dat
	2. 131765.gps

Project Option Settings

STAR*NET Run Mode	: Adjust with Error Propagation
Type of Adjustment	: 3D
Project Units	: FeetInt; DMS
Coordinate System	: Mercator NAD83; AZ Central
0202	
Geoid Height Model	: G2009U05.GHT
Longitude Sign Convention	: Positive West
Input/Output Coordinate Order	: North-East
Angle Data Station Order	: At-From-To
Distance/Vertical Data Type	: Slope/Zenith
Convergence Limit; Max Iterations	: 0.010000; 10
Default Coefficient of Refraction	: 0.070000
Create Coordinate File	: Yes
Create Geodetic Position File	: No
Create Ground Scale Coordinate File	: No
Create Dump File	: Yes
GPS Vector Standard Error Factors	: None
GPS Vector Centering (Meters)	: 0.00400
GPS Vector Transformations	: None

Summary of Unadjusted Input Observations

Number of Entered Stations (FeetInt) = 13
(Elevations Marked with (*) are Ellipsoid Heights)

Fixed Stations Description	Latitude	Longitude	Elev
1BC1	33-25-59.450560	112-11-44.808460	1028.8000

Free Stations Description	Latitude	Longitude	Elev
MDOT	33-25-41.362850	112-07-20.582890	1048.8200
1BF1	33-25-00.034970	112-02-51.355100	1092.3700
1BB1	33-25-35.619040	112-15-23.780060	996.1300
B_519	33-24-25.400000	112-01-27.100000	1110.9300
C519	33-24-55.400000	112-01-46.700000	1099.6900
D519	33-25-03.900000	112-01-47.600000	1099.8900
D_521	33-20-52.400000	112-10-08.600000	1039.4300
M519	33-25-26.800000	112-09-06.100000	1032.1700
W519_4	33-24-23.400000	112-17-23.300000	975.2400
W519_8	33-24-23.400000	112-17-23.300000	975.2400
SRP1	33-27-02.247870	112-13-40.000180	977.4300*
COSA	33-34-07.378060	111-52-55.734710	1286.7000*

Number of GPS Vector Observations (FeetInt) = 177

From HI To HT	DeltaX DeltaY DeltaZ	StdErrX StdErrY StdErrZ	CorrelXY CorrelXZ CorrelYZ
(V1001 PostProcessed 26-MAR-2013 14:58:34.0 131765 vector processing.asc)			
1BC1 0.000	20354.0853	0.0201	0.2065
MDOT 0.000	-9395.5994	0.0251	-0.1627
	-1514.5358	0.0223	-0.3529
(V1002 PostProcessed 26-MAR-2013 22:14:29.0 131765 vector processing.asc)			
1BC1 0.000	18699.0308	0.0270	0.3595
1113 0.000	-13422.9770	0.0411	-0.2748
	-8124.3802	0.0283	-0.4837
(V1003 PostProcessed 26-MAR-2013 15:21:24.0 131765 vector processing.asc)			
1BC1 0.000	18698.9728	0.0254	0.3462
1113 0.000	-13423.0833	0.0314	-0.2644
	-8124.3005	0.0301	-0.3995

```
(V1004 PostProcessed 26-MAR-2013 19:48:34.0 131765 vector processing.asc)
1BC1                      -17671.8215          0.0305          0.5593
0.000
1BB1                        5817.3081          0.0435         -0.2704
0.000
                           -2028.5856          0.0264         -0.3510

(V1005 PostProcessed 26-MAR-2013 15:49:14.0 131765 vector processing.asc)
1BC1                      -17671.8514          0.0239          0.2840
0.000
1BB1                        5817.2182          0.0296         -0.2182
0.000
                           -2028.5604          0.0273         -0.2945

(V1006 PostProcessed 26-MAR-2013 15:51:49.0 131765 vector processing.asc)
1BC1                      -21508.8776          0.0267          0.3854
0.000
1126                       -4798.5499          0.0373         -0.3206
0.000
                          -19180.7838          0.0325         -0.4033

(V1007 PostProcessed 26-MAR-2013 19:21:39.0 131765 vector processing.asc)
1BC1                      -21508.8720          0.0262          0.3536
0.000
1126                       -4798.6145          0.0342         -0.1194
0.000
                          -19180.7579          0.0264         -0.1992

(V1008 PostProcessed 26-MAR-2013 20:08:24.0 131765 vector processing.asc)
1BC1                      -28560.8652          0.0335          0.5697
0.000
W519_8                      5953.7162          0.0449         -0.2864
0.000
                           -8130.6841          0.0288         -0.4054

(V1009 PostProcessed 26-MAR-2013 16:09:49.0 131765 vector processing.asc)
1BC1                      -28561.0515          0.0381          0.5216
0.000
W519_4                      5953.5253          0.0420         -0.2485
0.000
                           -8130.7451          0.0322         -0.2641

(V1010 PostProcessed 26-MAR-2013 16:10:39.0 131765 vector processing.asc)
1BC1                      -10782.4580          0.0249          0.2967
0.000
1121                       -6851.9416          0.0346         -0.2198
0.000
                          -15870.7136          0.0279         -0.2075

(V1011 PostProcessed 26-MAR-2013 19:37:04.0 131765 vector processing.asc)
1BC1                      -10782.4721          0.0261          0.3649
0.000
1121                       -6852.0246          0.0337         -0.1613
0.000
```

```
                          -15870.6421          0.0256         -0.2044

(V1012 PostProcessed 26-MAR-2013 19:52:54.0 131765 vector processing.asc)
1BC1                       -7570.2221          0.0324          0.6214
0.000
1127                       -5449.6237          0.0442         -0.3672
0.000
                          -12059.8757          0.0275         -0.4188

(V1013 PostProcessed 26-MAR-2013 16:28:09.0 131765 vector processing.asc)
1BC1                       -7570.2520          0.0234          0.2359
0.000
1127                       -5449.6781          0.0287         -0.1338
0.000
                          -12059.8593          0.0241         -0.0956

(V1014 PostProcessed 26-MAR-2013 20:26:14.0 131765 vector processing.asc)
1BC1                      -21905.7759          0.0286          0.4173
0.000
1125                       -1064.9455          0.0386         -0.1966
0.000
                          -14181.3104          0.0306         -0.4090

(V1015 PostProcessed 26-MAR-2013 16:28:29.0 131765 vector processing.asc)
1BC1                      -21905.8068          0.0249          0.2394
0.000
1125                       -1065.0161          0.0298         -0.1554
0.000
                          -14181.3054          0.0261         -0.1172

(V1016 PostProcessed 26-MAR-2013 20:41:04.0 131765 vector processing.asc)
1BC1                      -20758.5951          0.0268          0.3406
0.000
1124                        1100.2349          0.0336         -0.1514
0.000
                          -10472.2388          0.0315         -0.3839

(V1017 PostProcessed 26-MAR-2013 16:45:34.0 131765 vector processing.asc)
1BC1                      -20758.6312          0.0265          0.3380
0.000
1124                        1100.1450          0.0340         -0.1416
0.000
                          -10472.2238          0.0252         -0.0905

(V1018 PostProcessed 26-MAR-2013 20:11:14.0 131765 vector processing.asc)
1BC1                       -3499.5463          0.0279          0.4720
0.000
1119                       -8270.5023          0.0370         -0.2281
0.000
                          -13665.6030          0.0259         -0.3483

(V1019 PostProcessed 26-MAR-2013 16:47:09.0 131765 vector processing.asc)
1BC1                       -3499.6135          0.0255          0.3487
0.000
```

```
1119                        -8270.5607          0.0330         -0.1302
0.000
                           -13665.5928          0.0238         -0.0869

(V1020 PostProcessed 26-MAR-2013 17:02:19.0 131765 vector processing.asc)
1BC1                       -13793.0873          0.0308          0.5422
0.000
1123                         -520.0249          0.0423         -0.2527
0.000
                            -8706.5492          0.0267         -0.2401

(V1021 PostProcessed 26-MAR-2013 20:56:04.0 131765 vector processing.asc)
1BC1                       -13793.0951          0.0238          0.2265
0.000
1123                         -520.0617          0.0272         -0.1011
0.000
                            -8706.4767          0.0280         -0.3013

(V1022 PostProcessed 26-MAR-2013 17:03:14.0 131765 vector processing.asc)
1BC1                        -4975.4948          0.0331          0.5726
0.000
1120                       -10026.1657          0.0462         -0.2725
0.000
                           -16981.5253          0.0286         -0.2750

(V1023 PostProcessed 26-MAR-2013 20:27:34.0 131765 vector processing.asc)
1BC1                        -4975.4764          0.0257          0.3207
0.000
1120                       -10026.2152          0.0310         -0.1264
0.000
                           -16981.4675          0.0267         -0.2872

(V1024 PostProcessed 26-MAR-2013 21:08:54.0 131765 vector processing.asc)
1BC1                        -8962.2142          0.0228          0.2323
0.000
1122                        -1297.4281          0.0300         -0.1660
0.000
                            -7010.6234          0.0334         -0.5128

(V1025 PostProcessed 26-MAR-2013 17:18:14.0 131765 vector processing.asc)
1BC1                        -8962.2503          0.0252          0.3703
0.000
1122                        -1297.4810          0.0285         -0.1987
0.000
                            -7010.6293          0.0242         -0.2484

(V1026 PostProcessed 26-MAR-2013 17:25:54.0 131765 vector processing.asc)
1BC1                         1104.7877          0.0380          0.6650
0.000
D_521                      -18906.4816          0.0465         -0.4580
0.000
                           -25907.4564          0.0342         -0.5245

(V1027 PostProcessed 26-MAR-2013 20:45:44.0 131765 vector processing.asc)
```

```
1BC1                        1104.7897        0.0253         0.3674
0.000
D_521                     -18906.5515        0.0300        -0.1799
0.000
                          -25907.3796        0.0297        -0.3226

(V1028 PostProcessed 26-MAR-2013 21:24:59.0 131765 vector processing.asc)
1BC1                       -4309.9885        0.0246         0.3629
0.000
1118                       -3985.8327        0.0401        -0.3309
0.000
                           -8106.0988        0.0443        -0.7229

(V1029 PostProcessed 26-MAR-2013 17:33:39.0 131765 vector processing.asc)
1BC1                       -4310.0430        0.0250         0.3699
0.000
1118                       -3985.8871        0.0273        -0.2915
0.000
                           -8106.0784        0.0257        -0.3985

(V1030 PostProcessed 26-MAR-2013 17:44:49.0 131765 vector processing.asc)
1BC1                        4074.0112        0.0312         0.5985
0.000
1116                       -9516.1470        0.0394        -0.4672
0.000
                          -11052.2490        0.0337        -0.5858

(V1031 PostProcessed 26-MAR-2013 21:03:54.0 131765 vector processing.asc)
1BC1                        4074.0013        0.0235         0.2210
0.000
1116                       -9516.2090        0.0272        -0.1318
0.000
                          -11052.1677        0.0295        -0.3741

(V1032 PostProcessed 26-MAR-2013 21:32:39.0 131765 vector processing.asc)
1BC1                        5216.5341        0.0274         0.4377
0.000
1115                      -11359.5591        0.0464        -0.4085
0.000
                          -12985.5384        0.0478        -0.7576

(V1033 PostProcessed 26-MAR-2013 18:31:24.0 131765 vector processing.asc)
1BC1                        5216.4846        0.0248         0.3365
0.000
1115                      -11359.6293        0.0323        -0.2783
0.000
                          -12985.5052        0.0346        -0.5822

(V1034 PostProcessed 26-MAR-2013 21:38:59.0 131765 vector processing.asc)
1BC1                        3435.1864        0.0240         0.3572
0.000
1117                       -5957.6293        0.0322        -0.3279
0.000
                           -6414.5627        0.0309        -0.5591
```

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(V1035 PostProcessed 26-MAR-2013 18:34:14.0 131765 vector processing.asc)
1BC1                        3435.1864          0.0225          0.2614
0.000
1117                       -5957.6680          0.0275         -0.1618
0.000
                           -6414.5384          0.0305         -0.3913

(V1036 PostProcessed 26-MAR-2013 21:45:24.0 131765 vector processing.asc)
1BC1                        9795.7585          0.0315          0.5543
0.000
1109                      -12325.4222          0.0446         -0.5132
0.000
                          -11703.9911          0.0393         -0.6906

(V1037 PostProcessed 26-MAR-2013 18:44:59.0 131765 vector processing.asc)
1BC1                        9795.7244          0.0245          0.2907
0.000
1109                      -12325.4688          0.0296         -0.1956
0.000
                          -11703.9682          0.0281         -0.4311

(V1038 PostProcessed 26-MAR-2013 21:55:24.0 131765 vector processing.asc)
1BC1                       11292.0686          0.0280          0.4772
0.000
1111                       -6868.5269          0.0378         -0.4384
0.000
                           -3174.8340          0.0318         -0.5957

(V1039 PostProcessed 26-MAR-2013 18:52:34.0 131765 vector processing.asc)
1BC1                       11292.0679          0.0230          0.2339
0.000
1111                       -6868.5837          0.0265         -0.0793
0.000
                           -3174.8156          0.0261         -0.2371

(V1040 PostProcessed 26-MAR-2013 21:58:14.0 131765 vector processing.asc)
1BC1                       12989.0902          0.0306          0.4944
0.000
1110                      -13560.5069          0.0431         -0.4504
0.000
                          -11606.6506          0.0342         -0.6179

(V1041 PostProcessed 26-MAR-2013 18:58:04.0 131765 vector processing.asc)
1BC1                       12989.0620          0.0250          0.2927
0.000
1110                      -13560.5771          0.0300         -0.1012
0.000
                          -11606.6056          0.0281         -0.2697

(V1042 PostProcessed 26-MAR-2013 22:08:34.0 131765 vector processing.asc)
1BC1                       10933.4892          0.0261          0.3713
0.000
```

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1114                        -8887.6903          0.0365          -0.3097
0.000
                            -6220.8061          0.0275          -0.4842

(V1043 PostProcessed 26-MAR-2013 19:05:24.0 131765 vector processing.asc)
1BC1                        10933.4862          0.0241           0.2846
0.000
1114                        -8887.7385          0.0297          -0.1146
0.000
                            -6220.7956          0.0262          -0.2047

(V1044 PostProcessed 26-MAR-2013 22:26:29.0 131765 vector processing.asc)
1BC1                        11780.0276          0.0238           0.2810
0.000
M519                        -6765.2677          0.0337          -0.1811
0.000
                            -2749.1716          0.0241          -0.3560

(V1045 PostProcessed 26-MAR-2013 19:25:04.0 131765 vector processing.asc)
1BC1                        11779.9833          0.0239           0.3106
0.000
M519                        -6765.3760          0.0301          -0.1027
0.000
                            -2749.1237          0.0236          -0.1645

(V1046 PostProcessed 27-MAR-2013 14:31:59.0 131765 vector processing.asc)
MDOT                        20267.4019          0.0206           0.2779
0.000
1BF1                       -10746.3783          0.0262          -0.2146
0.000
                            -3462.4347          0.0229          -0.3865

(V1047 PostProcessed 27-MAR-2013 14:52:14.0 131765 vector processing.asc)
MDOT                        25748.0154          0.0243           0.3513
0.000
1103                       -11333.6204          0.0307          -0.2491
0.000
                            -1159.1286          0.0284          -0.3864

(V1048 PostProcessed 27-MAR-2013 18:29:29.0 131765 vector processing.asc)
MDOT                        25747.9879          0.0254           0.3042
0.000
1103                       -11333.7119          0.0314          -0.1511
0.000
                            -1159.0417          0.0343          -0.3809

(V1049 PostProcessed 27-MAR-2013 15:03:34.0 131765 vector processing.asc)
MDOT                        32007.6388          0.0451           0.6036
0.000
1101                       -14534.8323          0.0659          -0.6058
0.000
                            -2078.7047          0.0602          -0.6464

(V1050 PostProcessed 27-MAR-2013 18:43:14.0 131765 vector processing.asc)
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```
MDOT                        25244.2795          0.0274          0.3886
0.000
C519                       -13050.3825          0.0363         -0.1457
0.000
                            -3855.3379          0.0358         -0.3811

(V1051 PostProcessed 27-MAR-2013 18:47:54.0 131765 vector processing.asc)
MDOT                        31232.2290          0.0300          0.4666
0.000
1100                       -17268.7910          0.0410         -0.3010
0.000
                            -6343.8392          0.0538         -0.4660

(V1052 PostProcessed 27-MAR-2013 15:19:54.0 131765 vector processing.asc)
MDOT                        31232.2392          0.0261          0.3687
0.000
1100                       -17268.8301          0.0321         -0.3036
0.000
                            -6343.8015          0.0325         -0.4463

(V1053 PostProcessed 27-MAR-2013 19:00:19.0 131765 vector processing.asc)
MDOT                        25360.1808          0.0297          0.4603
0.000
D519                       -12586.4573          0.0473         -0.1656
0.000
                            -3137.3878          0.0332         -0.3782

(V1054 PostProcessed 27-MAR-2013 15:30:59.0 131765 vector processing.asc)
MDOT                        25360.1342          0.0289          0.3778
0.000
D519                       -12586.5646          0.0372         -0.2741
0.000
                            -3137.3173          0.0351         -0.4024

(V1055 PostProcessed 27-MAR-2013 15:39:34.0 131765 vector processing.asc)
MDOT                        26163.8533          0.0289          0.4802
0.000
B_519                      -15230.3474          0.0401         -0.4022
0.000
                            -6375.6053          0.0352         -0.5043

(V1056 PostProcessed 27-MAR-2013 19:03:29.0 131765 vector processing.asc)
MDOT                        26163.8392          0.0258          0.2996
0.000
B_519                      -15230.4304          0.0308         -0.1166
0.000
                            -6375.5433          0.0293         -0.2181

(V1057 PostProcessed 27-MAR-2013 19:18:14.0 131765 vector processing.asc)
MDOT                        18652.6788          0.0279          0.4612
0.000
1105                        -8459.9177          0.0393         -0.1537
0.000
                            -1189.2661          0.0268         -0.2384
```

```
(V1058 PostProcessed 27-MAR-2013 15:48:14.0 131765 vector processing.asc)
MDOT                        18652.6496          0.0239          0.2579
0.000
1105                        -8459.9902          0.0290         -0.1994
0.000
                            -1189.2067          0.0272         -0.2572

(V1059 PostProcessed 27-MAR-2013 15:52:39.0 131765 vector processing.asc)
MDOT                        24676.4167          0.0255          0.3440
0.000
1102                       -14221.9925          0.0351         -0.2801
0.000
                            -5816.9596          0.0302         -0.3429

(V1060 PostProcessed 27-MAR-2013 19:16:04.0 131765 vector processing.asc)
MDOT                        24676.3786          0.0292          0.3453
0.000
1102                       -14222.0968          0.0377         -0.1115
0.000
                            -5816.9232          0.0302         -0.2029

(V1061 PostProcessed 27-MAR-2013 16:08:24.0 131765 vector processing.asc)
MDOT                        17616.5525          0.0252          0.2864
0.000
1104                       -10590.9268          0.0356         -0.1891
0.000
                            -4764.7008          0.0291         -0.2190

(V1062 PostProcessed 27-MAR-2013 19:32:04.0 131765 vector processing.asc)
MDOT                        17616.5151          0.0264          0.3566
0.000
1104                       -10590.9721          0.0341         -0.1135
0.000
                            -4764.6969          0.0271         -0.2120

(V1063 PostProcessed 27-MAR-2013 16:09:14.0 131765 vector processing.asc)
MDOT                         8044.8087          0.0225          0.2441
0.000
1106                        -3341.4508          0.0290         -0.1544
0.000
                              -76.8934          0.0239         -0.1496

(V1064 PostProcessed 27-MAR-2013 19:49:19.0 131765 vector processing.asc)
MDOT                        11252.1056          0.0310          0.6019
0.000
1108                        -8068.5062          0.0443         -0.3338
0.000
                            -4870.7713          0.0262         -0.4174

(V1065 PostProcessed 27-MAR-2013 16:24:09.0 131765 vector processing.asc)
MDOT                        11252.0801          0.0233          0.2308
0.000
```

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1108                        -8068.5604          0.0287          -0.1291
0.000
                            -4870.7628          0.0239          -0.0929

(V1066 PostProcessed 27-MAR-2013 20:05:09.0 131765 vector processing.asc)
MDOT                         5762.8806          0.0259           0.4317
0.000
1107                        -7250.1381          0.0334          -0.2009
0.000
                            -6873.9364          0.0240          -0.3049

(V1067 PostProcessed 27-MAR-2013 16:39:29.0 131765 vector processing.asc)
MDOT                         5762.8533          0.0235           0.2923
0.000
1107                        -7250.1768          0.0295          -0.1016
0.000
                            -6873.9016          0.0223          -0.0635

(V1068 PostProcessed 27-MAR-2013 20:05:24.0 131765 vector processing.asc)
MDOT                         -236.8907          0.0207           0.2001
0.000
1112                         -885.3478          0.0234          -0.0774
0.000
                            -1380.6129          0.0201          -0.1365

(V1069 PostProcessed 27-MAR-2013 16:47:14.0 131765 vector processing.asc)
MDOT                         -236.9272          0.0206           0.1805
0.000
1112                         -885.3776          0.0233          -0.0534
0.000
                            -1380.6115          0.0198          -0.0433

(V1070 PostProcessed 26-MAR-2013 22:14:29.0 131765 vector processing.asc)
MDOT                        -1655.0843          0.0227           0.2551
0.000
1113                        -4027.4524          0.0308          -0.1763
0.000
                            -6609.7963          0.0234          -0.3490

(V1071 PostProcessed 26-MAR-2013 15:21:24.0 131765 vector processing.asc)
MDOT                        -1655.1073          0.0236           0.3339
0.000
1113                        -4027.4806          0.0296          -0.2595
0.000
                            -6609.7740          0.0276          -0.3929

(V1072 PostProcessed 26-MAR-2013 19:48:34.0 131765 vector processing.asc)
MDOT                       -38025.9347          0.0358           0.6382
0.000
1BB1                        15212.9344          0.0522          -0.3315
0.000
                             -514.0194          0.0294          -0.4134

(V1073 PostProcessed 26-MAR-2013 15:49:14.0 131765 vector processing.asc)
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```
MDOT                        -38025.9820          0.0255          0.3142
0.000
1BB1                         15212.7828          0.0312         -0.2085
0.000
                              -513.9724          0.0280         -0.2816

(V1074 PostProcessed 26-MAR-2013 15:51:49.0 131765 vector processing.asc)
MDOT                        -41862.9738          0.0315          0.4606
0.000
1126                          4597.0630          0.0466         -0.3917
0.000
                            -17666.2444          0.0402         -0.4560

(V1075 PostProcessed 26-MAR-2013 19:21:39.0 131765 vector processing.asc)
MDOT                        -41862.9728          0.0289          0.3769
0.000
1126                          4596.9820          0.0362         -0.1840
0.000
                            -17666.1952          0.0284         -0.3030

(V1076 PostProcessed 26-MAR-2013 20:08:24.0 131765 vector processing.asc)
MDOT                        -48915.0610          0.0348          0.5818
0.000
W519_8                       15349.2106          0.0451         -0.1903
0.000
                             -6616.1437          0.0288         -0.3555

(V1077 PostProcessed 26-MAR-2013 16:09:49.0 131765 vector processing.asc)
MDOT                        -48915.1713          0.0421          0.6005
0.000
W519_4                       15349.0689          0.0392         -0.2275
0.000
                             -6616.2037          0.0289         -0.2161

(V1078 PostProcessed 26-MAR-2013 16:10:39.0 131765 vector processing.asc)
MDOT                        -31136.5650          0.0262          0.3231
0.000
1121                          2543.6266          0.0374         -0.2436
0.000
                            -14356.1713          0.0297         -0.2232

(V1079 PostProcessed 26-MAR-2013 19:37:04.0 131765 vector processing.asc)
MDOT                        -31136.5827          0.0272          0.3837
0.000
1121                          2543.5538          0.0359         -0.1738
0.000
                            -14356.1079          0.0268         -0.2188

(V1080 PostProcessed 26-MAR-2013 19:52:54.0 131765 vector processing.asc)
MDOT                        -27924.2986          0.0384          0.6866
0.000
1127                          3946.0049          0.0539         -0.4299
0.000
                            -10545.3540          0.0317         -0.4759
```

```
(V1081 PostProcessed 26-MAR-2013 16:28:09.0 131765 vector processing.asc)
MDOT                      -27924.3379          0.0249          0.3674
0.000
1127                        3945.9029          0.0328         -0.1639
0.000
                          -10545.3169          0.0264         -0.1426

(V1082 PostProcessed 26-MAR-2013 20:26:14.0 131765 vector processing.asc)
MDOT                      -42259.9045          0.0291          0.4255
0.000
1125                        8330.6033          0.0395         -0.2004
0.000
                          -12666.7385          0.0311         -0.4160

(V1083 PostProcessed 26-MAR-2013 16:28:29.0 131765 vector processing.asc)
MDOT                      -42259.9252          0.0252          0.2469
0.000
1125                        8330.5453          0.0304         -0.1600
0.000
                          -12666.7523          0.0265         -0.1212

(V1084 PostProcessed 26-MAR-2013 20:41:04.0 131765 vector processing.asc)
MDOT                      -41112.7205          0.0277          0.3566
0.000
1124                       10495.8320          0.0351         -0.1582
0.000
                           -8957.6808          0.0328         -0.4002

(V1085 PostProcessed 26-MAR-2013 16:45:34.0 131765 vector processing.asc)
MDOT                      -41112.7559          0.0342          0.3252
0.000
1124                       10495.6975          0.0421         -0.2010
0.000
                           -8957.6302          0.0348         -0.1402

(V1086 PostProcessed 26-MAR-2013 20:11:14.0 131765 vector processing.asc)
MDOT                      -23853.6381          0.0310          0.5271
0.000
1119                        1125.0732          0.0425         -0.2659
0.000
                          -12151.0682          0.0285         -0.3938

(V1087 PostProcessed 26-MAR-2013 16:47:09.0 131765 vector processing.asc)
MDOT                      -23853.7011          0.0273          0.3690
0.000
1119                        1124.9931          0.0333         -0.1585
0.000
                          -12151.0427          0.0254         -0.1247

(V1088 PostProcessed 26-MAR-2013 17:02:19.0 131765 vector processing.asc)
MDOT                      -34147.1995          0.0356          0.5994
0.000
```

```
1123                        8875.5446         0.0503        -0.2945
0.000
                           -7191.9918         0.0301        -0.2744

(V1089 PostProcessed 26-MAR-2013 20:56:04.0 131765 vector processing.asc)
MDOT                      -34147.2188         0.0260         0.2836
0.000
1123                        8875.4987         0.0306        -0.1270
0.000
                           -7191.9134         0.0309        -0.3445

(V1090 PostProcessed 26-MAR-2013 17:03:14.0 131765 vector processing.asc)
MDOT                      -25329.5804         0.0354         0.6009
0.000
1120                         -630.5741         0.0501        -0.2968
0.000
                          -15466.9833         0.0300        -0.2851

(V1091 PostProcessed 26-MAR-2013 20:27:34.0 131765 vector processing.asc)
MDOT                      -25329.5715         0.0269         0.3505
0.000
1120                         -630.6385         0.0330        -0.1404
0.000
                          -15466.9186         0.0279        -0.3065

(V1092 PostProcessed 26-MAR-2013 21:08:54.0 131765 vector processing.asc)
MDOT                      -29316.3343         0.0273         0.3303
0.000
1122                         8098.1457         0.0401        -0.2295
0.000
                           -5496.0545         0.0461        -0.6400

(V1093 PostProcessed 26-MAR-2013 17:18:14.0 131765 vector processing.asc)
MDOT                      -29316.3615         0.0287         0.3917
0.000
1122                         8098.0863         0.0304        -0.2796
0.000
                           -5496.0682         0.0285        -0.3956

(V1094 PostProcessed 26-MAR-2013 17:25:54.0 131765 vector processing.asc)
MDOT                      -19249.2844         0.0380         0.6658
0.000
D_521                        -9510.8704         0.0466        -0.4591
0.000
                          -24392.9278         0.0342        -0.5253

(V1095 PostProcessed 26-MAR-2013 20:45:44.0 131765 vector processing.asc)
MDOT                      -19249.2963         0.0253         0.3678
0.000
D_521                        -9510.9452         0.0300        -0.1803
0.000
                          -24392.8284         0.0298        -0.3230

(V1096 PostProcessed 26-MAR-2013 21:24:59.0 131765 vector processing.asc)
```

```
MDOT                        -24664.1145          0.0287          0.4440
0.000
1118                          5409.7726          0.0516         -0.4009
0.000
                            -6591.5768          0.0576         -0.7933

(V1097 PostProcessed 26-MAR-2013 17:33:39.0 131765 vector processing.asc)
MDOT                        -24664.1424          0.0294          0.4669
0.000
1118                          5409.6926          0.0333         -0.3824
0.000
                            -6591.5364          0.0316         -0.5332

(V1098 PostProcessed 26-MAR-2013 17:44:49.0 131765 vector processing.asc)
MDOT                        -16280.0850          0.0374          0.6804
0.000
1116                           -120.6053         0.0480         -0.5409
0.000
                            -9537.6788          0.0402         -0.6533

(V1099 PostProcessed 26-MAR-2013 21:03:54.0 131765 vector processing.asc)
MDOT                        -16280.0741          0.0246          0.2649
0.000
1116                           -120.6332         0.0294         -0.1769
0.000
                            -9537.6243          0.0290         -0.4364

(V1100 PostProcessed 26-MAR-2013 21:32:39.0 131765 vector processing.asc)
MDOT                        -15137.5551          0.0315          0.5011
0.000
1115                           -1963.9265        0.0562         -0.4684
0.000
                           -11471.0489          0.0572         -0.8010

(V1101 PostProcessed 26-MAR-2013 18:31:24.0 131765 vector processing.asc)
MDOT                        -15137.5837          0.0254          0.3724
0.000
1115                           -1964.0305        0.0344         -0.3017
0.000
                           -11470.9856          0.0372         -0.6066

(V1102 PostProcessed 26-MAR-2013 21:38:59.0 131765 vector processing.asc)
MDOT                        -16918.9373          0.0284          0.4672
0.000
1117                           3437.9278         0.0415         -0.4325
0.000
                            -4900.0059          0.0396         -0.6768

(V1103 PostProcessed 26-MAR-2013 18:34:14.0 131765 vector processing.asc)
MDOT                        -16918.9131          0.0245          0.3124
0.000
1117                           3437.8612         0.0304         -0.2423
0.000
                            -4899.9701          0.0311         -0.5106
```

```
(V1104 PostProcessed 26-MAR-2013 21:45:24.0 131765 vector processing.asc)
MDOT                        -10558.3625          0.0308          0.5442
0.000
1109                         -2929.8855          0.0433         -0.5029
0.000
                            -10189.4222          0.0381         -0.6788

(V1105 PostProcessed 26-MAR-2013 18:44:59.0 131765 vector processing.asc)
MDOT                        -10558.3730          0.0241          0.2883
0.000
1109                         -2929.9104          0.0289         -0.2047
0.000
                            -10189.4065          0.0281         -0.4308

(V1106 PostProcessed 26-MAR-2013 21:55:24.0 131765 vector processing.asc)
MDOT                         -9062.0299          0.0243          0.3778
0.000
1111                          2527.0200          0.0308         -0.3351
0.000
                             -1660.2736          0.0267         -0.4818

(V1107 PostProcessed 26-MAR-2013 18:52:34.0 131765 vector processing.asc)
MDOT                         -9062.0069          0.0221          0.2171
0.000
1111                          2527.0036          0.0258         -0.0636
0.000
                             -1660.2625          0.0245         -0.1992

(V1108 PostProcessed 26-MAR-2013 21:58:14.0 131765 vector processing.asc)
MDOT                         -7365.0190          0.0265          0.4175
0.000
1110                         -4164.9695          0.0355         -0.3686
0.000
                            -10092.0794          0.0291         -0.5337

(V1109 PostProcessed 26-MAR-2013 18:58:04.0 131765 vector processing.asc)
MDOT                         -7365.0243          0.0230          0.2527
0.000
1110                         -4164.9882          0.0278         -0.0722
0.000
                            -10092.0486          0.0251         -0.2061

(V1110 PostProcessed 26-MAR-2013 22:08:34.0 131765 vector processing.asc)
MDOT                         -9420.5994          0.0307          0.4330
0.000
1114                           507.9088          0.0464         -0.3669
0.000
                             -4706.2759          0.0327         -0.5624

(V1111 PostProcessed 26-MAR-2013 19:05:24.0 131765 vector processing.asc)
MDOT                         -9420.5909          0.0226          0.2465
0.000
```

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1114                          507.8573          0.0267          -0.1032
0.000
                            -4706.2428          0.0242          -0.1899

(V1112 PostProcessed 26-MAR-2013 22:26:29.0 131765 vector processing.asc)
MDOT                        -8574.0886          0.0230           0.2641
0.000
M519                         2630.2546          0.0329          -0.1666
0.000
                            -1234.5902          0.0234          -0.3421

(V1113 PostProcessed 26-MAR-2013 19:25:04.0 131765 vector processing.asc)
MDOT                        -8574.0764          0.0234           0.3097
0.000
M519                         2630.2398          0.0295          -0.0990
0.000
                            -1234.5778          0.0230          -0.1624

(V1114 PostProcessed 26-MAR-2013 22:14:29.0 131765 vector processing.asc)
1113                        -7765.5187          0.0264           0.3567
0.000
1114                         4535.3068          0.0387          -0.2772
0.000
                             1903.5535          0.0277          -0.4755

(V1115 PostProcessed 26-MAR-2013 15:51:49.0 131765 vector processing.asc)
1126                         3837.0449          0.0272           0.3998
0.000
1BB1                        10615.8150          0.0382          -0.3350
0.000
                            17152.1693          0.0335          -0.4223

(V1116 PostProcessed 26-MAR-2013 16:10:39.0 131765 vector processing.asc)
1121                       -17778.6355          0.0325           0.5210
0.000
W519_4                      12805.4022          0.0434          -0.2906
0.000
                             7739.9383          0.0300          -0.2829

(V1117 PostProcessed 26-MAR-2013 16:28:29.0 131765 vector processing.asc)
1127                       -14335.5220          0.0242           0.2705
0.000
1125                         4384.6998          0.0329          -0.1520
0.000
                            -2121.4547          0.0251          -0.0798

(V1118 PostProcessed 26-MAR-2013 19:52:54.0 131765 vector processing.asc)
1127                       -10101.6122          0.0414           0.7167
0.000
1BB1                        11266.9081          0.0586          -0.4554
0.000
                            10031.3156          0.0331          -0.4978

(V1119 PostProcessed 26-MAR-2013 20:27:34.0 131765 vector processing.asc)
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1125                        16930.3166          0.0279          0.4022
0.000
1120                        -8961.2100          0.0373         -0.1876
0.000
                            -2800.1818          0.0299         -0.3993

(V1120 PostProcessed 26-MAR-2013 20:45:44.0 131765 vector processing.asc)
1124                        21863.4255          0.0321          0.4087
0.000
D_521                      -20006.7208          0.0422         -0.1815
0.000
                           -15435.1808          0.0401         -0.4605

(V1121 PostProcessed 26-MAR-2013 16:47:09.0 131765 vector processing.asc)
1119                       -17259.0000          0.0304          0.4956
0.000
1124                         9370.7136          0.0440         -0.1858
0.000
                             3193.3684          0.0266         -0.1139

(V1122 PostProcessed 26-MAR-2013 20:11:14.0 131765 vector processing.asc)
1119                       -25061.3002          0.0362          0.5911
0.000
W519_8                      14224.2513          0.0495         -0.3064
0.000
                             5534.9226          0.0313         -0.4275

(V1123 PostProcessed 26-MAR-2013 17:03:14.0 131765 vector processing.asc)
1120                        -8817.5850          0.0310          0.5471
0.000
1123                         9506.1358          0.0425         -0.2571
0.000
                             8274.9649          0.0268         -0.2463

(V1124 PostProcessed 26-MAR-2013 17:25:54.0 131765 vector processing.asc)
D_521                      -10066.9931          0.0560          0.7508
0.000
1122                        17609.0741          0.0696         -0.5251
0.000
                            18896.7677          0.0479         -0.5801

(V1125 PostProcessed 26-MAR-2013 17:33:39.0 131765 vector processing.asc)
D_521                       -5414.8215          0.0549          0.7638
0.000
1118                        14920.6444          0.0689         -0.5760
0.000
                            17801.3566          0.0501         -0.6485

(V1126 PostProcessed 26-MAR-2013 21:03:54.0 131765 vector processing.asc)
1116                       -17867.1204          0.0378          0.4208
0.000
1123                         8996.1257          0.0539         -0.2286
0.000
                             2345.6900          0.0591         -0.6085
```

```
(V1127 PostProcessed 26-MAR-2013 21:08:54.0 131765 vector processing.asc)
1116                    -13036.2395         0.0276         0.3305
0.000
1122                     8218.7270         0.0379        -0.2127
0.000
                         4041.5853         0.0420        -0.5725

(V1128 PostProcessed 26-MAR-2013 18:34:14.0 131765 vector processing.asc)
1115                     -1781.3015         0.0243         0.3658
0.000
1117                     5401.9488         0.0329        -0.2540
0.000
                         6570.9524         0.0382        -0.5380

(V1129 PostProcessed 26-MAR-2013 21:38:59.0 131765 vector processing.asc)
1115                     -1781.3720         0.0268         0.3246
0.000
1117                     5401.8570         0.0382        -0.2863
0.000
                         6571.0331         0.0368        -0.6079

(V1130 PostProcessed 26-MAR-2013 21:32:39.0 131765 vector processing.asc)
1115                     -9526.5187         0.0321         0.5022
0.000
1118                     7373.7418         0.0590        -0.4583
0.000
                         4879.4531         0.0638        -0.8180

(V1131 PostProcessed 26-MAR-2013 18:52:34.0 131765 vector processing.asc)
1109                     1496.3428         0.0336         0.4675
0.000
1111                     5456.8675         0.0467        -0.1556
0.000
                         8529.1650         0.0440        -0.4119

(V1132 PostProcessed 26-MAR-2013 21:45:24.0 131765 vector processing.asc)
1109                     -6360.5794         0.0331         0.5799
0.000
1117                     6367.7789         0.0476        -0.5342
0.000
                         5289.4242         0.0428        -0.7175

(V1133 PostProcessed 26-MAR-2013 21:58:14.0 131765 vector processing.asc)
1110                     -1697.0144         0.0285         0.4859
0.000
1111                     6691.9852         0.0388        -0.4475
0.000
                         8431.8071         0.0322        -0.6018

(V1134 PostProcessed 26-MAR-2013 18:58:04.0 131765 vector processing.asc)
1110                     -1697.0135         0.0240         0.2603
0.000
```

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1111                        6691.9186        0.0279        -0.0871
0.000
                            8431.8248        0.0271        -0.2513

(V1135 PostProcessed 26-MAR-2013 19:05:24.0 131765 vector processing.asc)
1110                       -2055.5856        0.0245         0.3308
0.000
1114                        4672.8274        0.0313        -0.0897
0.000
                            5385.8179        0.0265        -0.2364

(V1136 PostProcessed 26-MAR-2013 19:25:04.0 131765 vector processing.asc)
M519                      -33288.8389        0.0335         0.5468
0.000
1126                        1966.8169        0.0498        -0.1994
0.000
                          -16431.6273        0.0316        -0.2857

(V1137 PostProcessed 27-MAR-2013 14:52:14.0 131765 vector processing.asc)
1BF1                        5480.6109        0.0210         0.2053
0.000
1103                        -587.2224        0.0241        -0.1424
0.000
                            2303.2848        0.0230        -0.2429

(V1138 PostProcessed 27-MAR-2013 18:29:29.0 131765 vector processing.asc)
1BF1                        5480.6086        0.0217         0.2281
0.000
1103                        -587.2628        0.0259        -0.1412
0.000
                            2303.3461        0.0286        -0.3561

(V1139 PostProcessed 27-MAR-2013 18:31:54.0 131765 vector processing.asc)
1BF1                       11740.2267        0.0241         0.3437
0.000
1101                       -3788.4528        0.0317        -0.2195
0.000
                            1383.7635        0.0363        -0.4891

(V1140 PostProcessed 27-MAR-2013 15:03:34.0 131765 vector processing.asc)
1BF1                       11740.1883        0.0234         0.3062
0.000
1101                       -3788.5180        0.0286        -0.2204
0.000
                            1383.8100        0.0271        -0.3512

(V1141 PostProcessed 27-MAR-2013 15:15:29.0 131765 vector processing.asc)
1BF1                        4976.8993        0.0224         0.3104
0.000
C519                       -2303.9577        0.0275        -0.2473
0.000
                            -392.9439        0.0258        -0.3795

(V1142 PostProcessed 27-MAR-2013 18:43:14.0 131765 vector processing.asc)
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```
1BF1                        4976.8865         0.0213         0.1871
0.000
C519                       -2303.9731         0.0243        -0.0658
0.000
                            -392.9291         0.0242        -0.2050

(V1143 PostProcessed 27-MAR-2013 18:47:54.0 131765 vector processing.asc)
1BF1                       10964.8255         0.0237         0.2988
0.000
1100                       -6522.3829         0.0295        -0.1044
0.000
                           -2881.3858         0.0283        -0.2795

(V1144 PostProcessed 27-MAR-2013 15:19:54.0 131765 vector processing.asc)
1BF1                       10964.8337         0.0233         0.3004
0.000
1100                       -6522.4101         0.0288        -0.2296
0.000
                           -2881.3655         0.0273        -0.3544

(V1145 PostProcessed 27-MAR-2013 19:00:19.0 131765 vector processing.asc)
1BF1                        5092.7792         0.0216         0.2235
0.000
D519                       -1840.0804         0.0257        -0.0577
0.000
                             325.0249         0.0225        -0.1566

(V1146 PostProcessed 27-MAR-2013 15:30:59.0 131765 vector processing.asc)
1BF1                        5092.7825         0.0216         0.2359
0.000
D519                       -1840.1024         0.0258        -0.1895
0.000
                             325.0272         0.0245        -0.2977

(V1147 PostProcessed 27-MAR-2013 15:39:34.0 131765 vector processing.asc)
1BF1                        5896.4692         0.0229         0.2980
0.000
B_519                      -4483.9229         0.0291        -0.2456
0.000
                           -2913.1726         0.0268        -0.3570

(V1148 PostProcessed 27-MAR-2013 19:03:29.0 131765 vector processing.asc)
1BF1                        5896.4642         0.0229         0.2629
0.000
B_519                      -4483.9760         0.0284        -0.0765
0.000
                           -2913.1276         0.0251        -0.1468

(V1149 PostProcessed 27-MAR-2013 19:18:14.0 131765 vector processing.asc)
1BF1                       -1614.6654         0.0209         0.2123
0.000
1105                        2286.4757         0.0245        -0.0574
0.000
                            2273.1503         0.0206        -0.1070
```

```
(V1150 PostProcessed 27-MAR-2013 15:48:14.0 131765 vector processing.asc)
1BF1                        -1614.7044          0.0203          0.1398
0.000
1105                         2286.4501          0.0230         -0.1072
0.000
                             2273.1795          0.0217         -0.1638

(V1151 PostProcessed 27-MAR-2013 15:52:39.0 131765 vector processing.asc)
1BF1                         4409.0236          0.0219          0.2271
0.000
1102                        -3475.5958          0.0271         -0.1770
0.000
                            -2354.5305          0.0244         -0.2415

(V1152 PostProcessed 27-MAR-2013 19:16:04.0 131765 vector processing.asc)
1BF1                         4409.0220          0.0220          0.2535
0.000
1102                        -3475.6509          0.0266         -0.0686
0.000
                            -2354.5285          0.0219         -0.1291

(V1153 PostProcessed 27-MAR-2013 19:32:04.0 131765 vector processing.asc)
1BF1                        -2650.8235          0.0211          0.2316
0.000
1104                          155.5030          0.0248         -0.0731
0.000
                            -1302.2818          0.0210         -0.1386

(V1154 PostProcessed 27-MAR-2013 19:39:49.0 131765 vector processing.asc)
1BF1                       -12222.5689          0.0272          0.4809
0.000
1106                         7404.9019          0.0380         -0.2137
0.000
                             3385.5325          0.0247         -0.2910

(V1155 PostProcessed 27-MAR-2013 16:09:14.0 131765 vector processing.asc)
1BF1                       -12222.6181          0.0231          0.2257
0.000
1106                         7404.8573          0.0279         -0.1488
0.000
                             3385.5604          0.0245         -0.1395

(V1156 PostProcessed 27-MAR-2013 19:49:19.0 131765 vector processing.asc)
1BF1                        -9015.2927          0.0264          0.4945
0.000
1108                         2677.8455          0.0344         -0.2285
0.000
                            -1408.3373          0.0228         -0.3014

(V1157 PostProcessed 27-MAR-2013 16:24:09.0 131765 vector processing.asc)
1BF1                        -9015.3251          0.0221          0.1918
0.000
```

```
1108                        2677.8271         0.0274        -0.1032
0.000
                           -1408.3255         0.0227        -0.0597

(V1158 PostProcessed 27-MAR-2013 20:05:09.0 131765 vector processing.asc)
1BF1                      -14504.4783         0.0278         0.4773
0.000
1107                        3496.2398         0.0367        -0.2306
0.000
                           -3411.5072         0.0254        -0.3409

(V1159 PostProcessed 27-MAR-2013 16:39:29.0 131765 vector processing.asc)
1BF1                      -14504.5433         0.0249         0.3305
0.000
1107                        3496.1808         0.0322        -0.1220
0.000
                           -3411.4934         0.0235        -0.0771

(V1160 PostProcessed 27-MAR-2013 20:05:24.0 131765 vector processing.asc)
1BF1                      -20504.2802         0.0307         0.5303
0.000
1112                        9861.0157         0.0419        -0.2675
0.000
                            2081.8235         0.0278        -0.3857

(V1161 PostProcessed 27-MAR-2013 16:47:14.0 131765 vector processing.asc)
1BF1                      -20504.3543         0.0273         0.3749
0.000
1112                        9860.9383         0.0330        -0.1657
0.000
                            2081.8245         0.0252        -0.1304

(V1162 PostProcessed 27-MAR-2013 18:31:54.0 131765 vector processing.asc)
1103                        6259.6096         0.0247         0.3662
0.000
1101                       -3201.2224         0.0331        -0.2407
0.000
                            -919.5305         0.0384        -0.5214

(V1163 PostProcessed 27-MAR-2013 15:03:34.0 131765 vector processing.asc)
1103                        6259.5951         0.0251         0.3588
0.000
1101                       -3201.2736         0.0318        -0.2580
0.000
                            -919.4852         0.0292        -0.4018

(V1164 PostProcessed 27-MAR-2013 15:19:54.0 131765 vector processing.asc)
C519                        5987.9724         0.0261         0.4499
0.000
1100                       -4218.3625         0.0355        -0.3710
0.000
                           -2488.4997         0.0326        -0.5186

(V1165 PostProcessed 27-MAR-2013 18:47:54.0 131765 vector processing.asc)
```

```
C519                        5987.9321         0.0237         0.2836
0.000
1100                       -4218.4265         0.0290        -0.1254
0.000
                           -2488.4685         0.0300        -0.2950

(V1166 PostProcessed 27-MAR-2013 19:03:29.0 131765 vector processing.asc)
D519                         803.6864         0.0221         0.2482
0.000
B_519                      -2643.8780         0.0270        -0.0692
0.000
                           -3238.1601         0.0239        -0.1378

(V1167 PostProcessed 27-MAR-2013 19:18:14.0 131765 vector processing.asc)
1102                       -6023.7037         0.0247         0.3808
0.000
1105                        5762.0965         0.0328        -0.1169
0.000
                            4627.6903         0.0241        -0.1949

(V1168 PostProcessed 27-MAR-2013 15:52:39.0 131765 vector processing.asc)
1102                       -6023.7349         0.0235         0.2558
0.000
1105                        5762.0367         0.0298        -0.1976
0.000
                            4627.7215         0.0266        -0.2572

(V1169 PostProcessed 27-MAR-2013 16:09:14.0 131765 vector processing.asc)
1104                       -9571.7484         0.0243         0.2880
0.000
1106                        7249.4938         0.0333        -0.1906
0.000
                            4687.7569         0.0269        -0.1904

(V1170 PostProcessed 27-MAR-2013 19:39:49.0 131765 vector processing.asc)
1104                       -9571.7844         0.0288         0.3714
0.000
1106                        7249.3579         0.0374        -0.1180
0.000
                            4687.8478         0.0297        -0.2173

(V1171 PostProcessed 27-MAR-2013 20:05:24.0 131765 vector processing.asc)
1107                       -5999.7766         0.0275         0.4710
0.000
1112                        6364.7851         0.0363        -0.2262
0.000
                            5493.3209         0.0252        -0.3362

(V1172 PostProcessed 27-MAR-2013 16:47:14.0 131765 vector processing.asc)
1107                       -5999.8209         0.0324         0.4375
0.000
1112                        6364.7241         0.0441        -0.1868
0.000
                            5493.3360         0.0294        -0.1200
```

```
(V2001 PostProcessed 26-MAR-2013 14:58:34.0 131765 cgps processing.asc)
MDOT                      -28084.1122          0.0204          0.2740
0.000
SRP1                       16287.7087          0.0265         -0.2180
0.000
                            6837.6227          0.0230         -0.3999

(V2002 PostProcessed 26-MAR-2013 14:58:34.0 131765 cgps processing.asc)
MDOT                       78381.3720          0.0203          0.2662
0.000
COSA                       -1525.7326          0.0263         -0.2135
0.000
                           42840.4839          0.0230         -0.3977

(V2003 PostProcessed 26-MAR-2013 14:11:59.0 131765 cgps processing.asc)
SRP1                        7730.0112          0.0193          0.1251
0.000
1BC1                       -6892.1470          0.0221         -0.0893
0.000
                           -5323.0554          0.0203         -0.2079

(V2004 PostProcessed 26-MAR-2013 14:11:59.0 131765 cgps processing.asc)
COSA                      -98735.4636          0.0198          0.1798
0.000
1BC1                       10921.3419          0.0239         -0.1330
0.000
                          -41325.9436          0.0213         -0.2910

(V2005 PostProcessed 25-MAR-2013 23:59:44.0 131765 cgps processing.asc)
COSA                     -106465.4813          0.0193          0.1033
0.000
SRP1                       17813.5144          0.0213         -0.0702
0.000
                          -36002.8996          0.0199         -0.1581
```

Adjustment Statistical Summary

Iterations	=	3
Number of Stations	=	41
Number of Observations	=	531
Number of Unknowns	=	120
Number of Redundant Obs	=	411

Observation	Count	Sum Squares of StdRes	Error Factor
GPS Deltas	531	287.648	0.837
Total	531	287.648	0.837

Warning: The Chi-Square Test at 5.00% Level Exceeded Lower Bound
Lower/Upper Bounds (0.932/1.068)

Adjusted Station Information

Coordinate Changes from Entered Provisionals (FeetInt)
(Elevations Marked with (*) are Ellipsoid Heights)

Station	dN	dE	dZ
1BC1	-0.0000	-0.0000	-0.0000
MDOT	-0.0101	-0.0510	-0.0045
1BF1	0.0719	-0.0732	0.0130
1BB1	0.0409	-0.0166	0.0551
B_519	-1.1466	5.3136	0.0358
C519	-7.0453	-3.1418	0.0410
D519	-6.2406	6.5786	0.0337
D_521	1.0974	3.3435	0.0096
M519	3.9571	10.4050	-0.1011
W519_4	3.1861	3.2232	0.1123
W519_8	3.3799	3.3072	-0.0638
SRP1	-0.0429	0.0639	0.0218*
COSA	0.0955	0.0392	0.1364*

Adjusted Coordinates (FeetInt)

Station	N	E	Elev	Description
1BC1	885252.3360	614851.4212	1028.8000	
MDOT	883372.0178	637238.5656	1048.8155	
1BF1	879158.2053	660049.2647	1092.3830	
1BB1	882898.9625	596287.5578	996.1851	
B_519	875648.2872	667192.2504	1110.9658	
C519	878676.2132	665525.6652	1099.7310	
D519	879536.1865	665460.0380	1099.9237	
D_521	854199.3696	622932.3645	1039.4396	
M519	881923.0750	628303.5318	1032.0689	
W519_4	875637.6750	586135.5357	975.3523	
W519_8	875637.8688	586135.6197	975.1762	
SRP1	891626.9083	605108.9680	1076.5817	
COSA	934454.8450	710514.0024	1383.9390	
1113	875458.0807	637206.3556	1042.9204	
1126	862372.3007	596690.1069	970.1133	
1121	866290.5271	607406.5427	988.2459	
1127	870847.5476	609862.8753	987.2642	
1125	868370.4725	594928.4411	960.8535	
1124	872807.8868	595184.5407	966.4521	
1119	868903.0617	614691.7022	999.6001	
1123	874885.4681	602250.6848	988.6182	
1120	864935.4690	613977.8613	998.0001	
1122	876896.5960	607022.0431	997.4026	
1118	875565.1649	612340.8635	1003.6021	
1116	872004.4429	622181.9790	1013.2690	
1115	869684.0601	623929.7510	1014.4692	
1117	877561.4822	620261.3360	1016.9729	
1109	871201.3961	628537.9731	1024.5700	
1111	881414.7906	627889.4477	1030.9700	
1110	871308.0400	631961.0856	1028.1647	

1114	877767.5178	628310.3756	1027.1581
1103	881906.9150	665352.2199	1098.7881
1101	880790.7189	672353.3093	1110.4822
1100	875675.1810	672654.3941	1119.9536
1105	881891.4737	657698.1429	1081.6527
1102	876323.8816	665436.1798	1103.9495
1104	877605.9632	657532.3279	1085.7090
1106	883254.3098	645948.0222	1063.1245
1108	877497.8884	650687.2796	1072.0662
1107	875115.9694	645290.0423	1059.1248
1112	881718.8137	637349.2298	1047.2869

Adjusted Positions and Ellipsoid Heights (FeetInt)

Station	Latitude	Longitude	Ellip Ht	Geoid	Ht
1BC1	33-25-59.450560	112-11-44.808460	929.9101	-	98.8899
MDOT	33-25-41.362749	112-07-20.583491	950.4780	-	98.3375
1BF1	33-25-00.035681	112-02-51.355965	994.5078	-	97.8752
1BB1	33-25-35.619444	112-15-23.780258	896.9517	-	99.2334
B_519	33-24-25.388709	112-01-27.037300	1013.2138	-	97.7520
C519	33-24-55.330258	112-01-46.736977	1001.9354	-	97.7957
D519	33-25-03.838325	112-01-47.522302	1002.1223	-	97.8014
D_521	33-20-52.410938	112-10-08.560615	941.0995	-	98.3402
M519	33-25-26.839385	112-09-05.977333	933.5285	-	98.5404
W519_4	33-24-23.431637	112-17-23.262111	876.1001	-	99.2522
W519_8	33-24-23.433558	112-17-23.261129	875.9239	-	99.2522
SRP1	33-27-02.247447	112-13-39.999425	977.4518	-	99.1299
COSA	33-34-07.379005	111-52-55.734246	1286.8364	-	97.1026
1113	33-24-23.060180	112-07-20.778862	944.6685	-	98.2518
1126	33-22-12.539519	112-15-18.242906	871.1682	-	98.9451
1121	33-22-51.633730	112-13-12.009583	889.4331	-	98.8128
1127	33-23-36.791486	112-12-43.193378	888.4383	-	98.8259
1125	33-23-11.829100	112-15-39.250158	861.8083	-	99.0452
1124	33-23-55.741721	112-15-36.402339	867.3421	-	99.1101

1119	33-23-17.684325	112-11-46.175005	900.9148	-
98.6853				
1123	33-24-16.520465	112-14-13.126756	889.5846	-
99.0336				
1120	33-22-38.409202	112-11-54.467727	899.3484	-
98.6517				
1122	33-24-36.560565	112-13-16.910290	898.4304	-
98.9723				
1118	33-24-23.536897	112-12-14.118692	904.7667	-
98.8354				
1116	33-23-48.560186	112-10-17.920774	914.7122	-
98.5568				
1115	33-23-25.643760	112-09-57.239161	915.9907	-
98.4785				
1117	33-24-43.495318	112-10-40.740559	918.2906	-
98.6823				
1109	33-23-40.762437	112-09-02.926413	926.1777	-
98.3923				
1111	33-25-21.801060	112-09-10.849625	932.4248	-
98.5452				
1110	33-23-41.891950	112-08-22.552245	929.8508	-
98.3139				
1114	33-24-45.723785	112-09-05.785848	928.6652	-
98.4929				
1103	33-25-27.293674	112-01-48.824936	1000.9737	-
97.8144				
1101	33-25-16.317765	112-00-26.204522	1012.7670	-
97.7152				
1100	33-24-25.705989	112-00-22.600028	1022.2605	-
97.6931				
1105	33-25-27.049081	112-03-19.138423	983.7205	-
97.9322				
1102	33-24-32.054773	112-01-47.762535	1006.1678	-
97.7817				
1104	33-24-44.645124	112-03-21.027295	987.8068	-
97.9022				
1106	33-25-40.356744	112-05-37.810200	964.9685	-
98.1560				
1108	33-24-43.477919	112-04-41.781919	974.0505	-
98.0157				
1107	33-24-19.823228	112-05-45.408806	961.0410	-
98.0838				
1112	33-25-25.007832	112-07-19.239151	948.9685	-
98.3185				
			Average:	-
98.4231				

Convergence Angles (DMS) and Grid Factors at Stations
(Grid Azimuth = Geodetic Azimuth - Convergence)
(Elevation Factor Includes a Geoid Height Correction at Each Station))

Station	Convergence Angle	------- Factors ------- Scale	x	Elevation	=	Combined

1BC1	-0-09-13.62	0.99990830	0.99995550	0.99986381
MDOT	-0-06-47.98	0.99990451	0.99995452	0.99985903
1BF1	-0-04-19.59	0.99990183	0.99995241	0.99985425
1BB1	-0-11-14.15	0.99991232	0.99995708	0.99986940
B_519	-0-03-33.10	0.99990123	0.99995152	0.99985276
C519	-0-03-43.99	0.99990136	0.99995206	0.99985342
D519	-0-03-44.44	0.99990137	0.99995205	0.99985342
D_521	-0-08-19.46	0.99990680	0.99995497	0.99986177
M519	-0-07-45.99	0.99990589	0.99995533	0.99986122
W519_4	-0-12-19.57	0.99991485	0.99995808	0.99987293
W519_8	-0-12-19.57	0.99991485	0.99995809	0.99987294
SRP1	-0-10-17.37	0.99991031	0.99995323	0.99986354
COSA	0-01-08.71	0.99990013	0.99993843	0.99983856
1113	-0-06-47.85	0.99990451	0.99995480	0.99985932
1126	-0-11-10.09	0.99991222	0.99995831	0.99987054
1121	-0-10-00.83	0.99990982	0.99995744	0.99986726
1127	-0-09-45.17	0.99990930	0.99995749	0.99986680
1125	-0-11-21.95	0.99991264	0.99995876	0.99987141
1124	-0-11-20.60	0.99991258	0.99995850	0.99987108
1119	-0-09-13.71	0.99990833	0.99995689	0.99986523
1123	-0-10-34.86	0.99991094	0.99995743	0.99986838
1120	-0-09-18.11	0.99990847	0.99995697	0.99986544
1122	-0-10-03.99	0.99990990	0.99995701	0.99986691
1118	-0-09-29.36	0.99990880	0.99995671	0.99986551
1116	-0-08-25.26	0.99990693	0.99995623	0.99986317
1115	-0-08-13.79	0.99990663	0.99995617	0.99986280
1117	-0-08-38.03	0.99990728	0.99995606	0.99986334
1109	-0-07-43.95	0.99990585	0.99995568	0.99986153
1111	-0-07-48.66	0.99990595	0.99995538	0.99986134
1110	-0-07-21.73	0.99990530	0.99995551	0.99986081
1114	-0-07-45.75	0.99990588	0.99995556	0.99986145
1103	-0-03-45.19	0.99990137	0.99995210	0.99985348
1101	-0-02-59.67	0.99990088	0.99995154	0.99985242
1100	-0-02-57.62	0.99990086	0.99995109	0.99985195
1105	-0-04-34.94	0.99990205	0.99995293	0.99985498
1102	-0-03-44.52	0.99990137	0.99995186	0.99985323
1104	-0-04-35.90	0.99990207	0.99995273	0.99985480
1106	-0-05-51.36	0.99990335	0.99995383	0.99985718
1108	-0-05-20.36	0.99990278	0.99995339	0.99985618
1107	-0-05-55.34	0.99990343	0.99995401	0.99985745
1112	-0-06-47.19	0.99990449	0.99995459	0.99985909
Project Averages:	-0-07-25.02	0.99990629	0.99995469	0.99986098

Adjusted Observations and Residuals

Adjusted GPS Vector Observations (FeetInt)

```
From                Component          Adj Value      Residual    StdErr
StdRes File:Line
To

(V1001 PostProcessed 26-MAR-2013 14:58:34.0 131765 vector processing.asc)
1BC1                Delta-N          -1820.4811        0.0020    0.0188
0.1     2:4
MDOT                Delta-E          22395.2202        0.0050    0.0190
0.3
                    Delta-U              8.5171       -0.0316    0.0284
1.1
                    Length           22469.0924

(V1002 PostProcessed 26-MAR-2013 22:14:29.0 131765 vector processing.asc)
1BC1                Delta-N          -9735.5897       -0.0050    0.0237
0.2     2:9
1113                Delta-E          22384.2346       -0.0012    0.0243
0.0
                    Delta-U              0.5259        0.0779    0.0455
1.7
                    Length           24409.7453

(V1003 PostProcessed 26-MAR-2013 15:21:24.0 131765 vector processing.asc)
1BC1                Delta-N          -9735.5897       -0.0052    0.0241
0.2     2:14
1113                Delta-E          22384.2346        0.0124    0.0223
0.6
                    Delta-U              0.5259       -0.0665    0.0381
1.7
                    Length           24409.7453

(V1004 PostProcessed 26-MAR-2013 19:48:34.0 131765 vector processing.asc)
1BC1                Delta-N          -2403.5047       -0.0164    0.0275
0.6     2:19
1BB1                Delta-E         -18559.9387       -0.0077    0.0234
0.3
                    Delta-U            -41.3191        0.0722    0.0470
1.5
                    Length           18714.9638

(V1005 PostProcessed 26-MAR-2013 15:49:14.0 131765 vector processing.asc)
1BC1                Delta-N          -2403.5047        0.0146    0.0237
0.6     2:24
1BB1                Delta-E         -18559.9387       -0.0140    0.0218
0.6
                    Delta-U            -41.3191       -0.0206    0.0340
0.6
                    Length           18714.9638
```

```
(V1006 PostProcessed 26-MAR-2013 15:51:49.0 131765 vector processing.asc)
1BC1                Delta-N        -22931.6645        0.0108   0.0264
0.4     2:29
1126                Delta-E        -18102.2660        0.0090   0.0232
0.4
                    Delta-U            -79.1743        0.0274   0.0438
0.6
                    Length           29215.7413

(V1007 PostProcessed 26-MAR-2013 19:21:39.0 131765 vector processing.asc)
1BC1                Delta-N        -22931.6645        0.0210   0.0266
0.8     2:34
1126                Delta-E        -18102.2660       -0.0206   0.0231
0.9
                    Delta-U            -79.1743       -0.0351   0.0363
1.0
                    Length           29215.7413

(V1008 PostProcessed 26-MAR-2013 20:08:24.0 131765 vector processing.asc)
1BC1                Delta-N         -9692.7384       -0.0230   0.0281
0.8     2:39
W519_8              Delta-E        -28693.6344       -0.0239   0.0255
0.9
                    Delta-U            -75.8910        0.0352   0.0503
0.7
                    Length           30286.6240

(V1009 PostProcessed 26-MAR-2013 16:09:49.0 131765 vector processing.asc)
1BC1                Delta-N         -9692.9325       -0.0300   0.0318
0.9     2:44
W519_4              Delta-E        -28693.7181       -0.0073   0.0302
0.2
                    Delta-U            -75.7151        0.0385   0.0483
0.8
                    Length           30286.7650

(V1010 PostProcessed 26-MAR-2013 16:10:39.0 131765 vector processing.asc)
1BC1                Delta-N        -18984.2419        0.0069   0.0266
0.3     2:49
1121                Delta-E         -7394.9796        0.0054   0.0229
0.2
                    Delta-U            -50.4251        0.0476   0.0369
1.3
                    Length           20373.7504

(V1011 PostProcessed 26-MAR-2013 19:37:04.0 131765 vector processing.asc)
1BC1                Delta-N        -18984.2419       -0.0075   0.0257
0.3     2:54
1121                Delta-E         -7394.9796       -0.0129   0.0228
0.6
                    Delta-U            -50.4251       -0.0604   0.0359
1.7
                    Length           20373.7504
```

```
(V1012 PostProcessed 26-MAR-2013 19:52:54.0 131765 vector processing.asc)
1BC1                Delta-N         -14420.0469       -0.0186   0.0269
0.7     2:59
1127                Delta-E          -4950.5470       -0.0089   0.0236
0.4
                    Delta-U            -47.0434        0.0465   0.0498
0.9
                    Length           15246.2416

(V1013 PostProcessed 26-MAR-2013 16:28:09.0 131765 vector processing.asc)
1BC1                Delta-N         -14420.0469        0.0017   0.0244
0.1     2:64
1127                Delta-E          -4950.5470       -0.0018   0.0218
0.1
                    Delta-U            -47.0434       -0.0140   0.0297
0.5
                    Length           15246.2416

(V1014 PostProcessed 26-MAR-2013 20:26:14.0 131765 vector processing.asc)
1BC1                Delta-N         -16937.4540       -0.0228   0.0265
0.9     2:69
1125                Delta-E         -19880.2214       -0.0056   0.0243
0.2
                    Delta-U            -84.4150        0.0442   0.0442
1.0
                    Length           26117.1912

(V1015 PostProcessed 26-MAR-2013 16:28:29.0 131765 vector processing.asc)
1BC1                Delta-N         -16937.4540        0.0155   0.0257
0.6     2:74
1125                Delta-E         -19880.2214       -0.0037   0.0231
0.2
                    Delta-U            -84.4150       -0.0227   0.0316
0.7
                    Length           26117.1912

(V1016 PostProcessed 26-MAR-2013 20:41:04.0 131765 vector processing.asc)
1BC1                Delta-N         -12498.8023       -0.0101   0.0263
0.4     2:79
1124                Delta-E         -19635.9940       -0.0052   0.0238
0.2
                    Delta-U            -75.5175        0.0502   0.0398
1.3
                    Length           23276.5552

(V1017 PostProcessed 26-MAR-2013 16:45:34.0 131765 vector processing.asc)
1BC1                Delta-N         -12498.8023        0.0307   0.0272
1.1     2:84
1124                Delta-E         -19635.9940       -0.0057   0.0235
0.2
                    Delta-U            -75.5175       -0.0390   0.0346
1.1
                    Length           23276.5552
```

```
(V1018 PostProcessed 26-MAR-2013 20:11:14.0 131765 vector processing.asc)
1BC1                Delta-N         -16351.8478       -0.0266   0.0249
1.1     2:89
1119                Delta-E           -115.8786       -0.0234   0.0228
1.0
                    Delta-U            -35.4078        0.0484   0.0410
1.2
                    Length           16352.2968

(V1019 PostProcessed 26-MAR-2013 16:47:09.0 131765 vector processing.asc)
1BC1                Delta-N         -16351.8478        0.0087   0.0261
0.3     2:94
1119                Delta-E           -115.8786        0.0169   0.0226
0.7
                    Delta-U            -35.4078       -0.0235   0.0334
0.7
                    Length           16352.2968

(V1020 PostProcessed 26-MAR-2013 17:02:19.0 131765 vector processing.asc)
1BC1                Delta-N         -10402.0207        0.0117   0.0291
0.4     2:99
1123                Delta-E         -12574.5468       -0.0004   0.0240
0.0
                    Delta-U            -46.6945        0.0457   0.0450
1.0
                    Length           16319.4192

(V1021 PostProcessed 26-MAR-2013 20:56:04.0 131765 vector processing.asc)
1BC1                Delta-N         -10402.0207       -0.0284   0.0240
1.2     2:104
1123                Delta-E         -12574.5468       -0.0070   0.0221
0.3
                    Delta-U            -46.6945       -0.0251   0.0321
0.8
                    Length           16319.4192

(V1022 PostProcessed 26-MAR-2013 17:03:14.0 131765 vector processing.asc)
1BC1                Delta-N         -20321.8718        0.0136   0.0310
0.4     2:109
1120                Delta-E           -819.1766        0.0154   0.0251
0.6
                    Delta-U            -40.4813        0.0365   0.0496
0.7
                    Length           20338.4160

(V1023 PostProcessed 26-MAR-2013 20:27:34.0 131765 vector processing.asc)
1BC1                Delta-N         -20321.8718       -0.0131   0.0244
0.5     2:114
1120                Delta-E           -819.1766       -0.0203   0.0229
0.9
                    Delta-U            -40.4813       -0.0278   0.0349
0.8
                    Length           20338.4160
```

(V1024 PostProcessed 26-MAR-2013 21:08:54.0 131765 vector processing.asc)

1BC1		Delta-N	-8377.8396	-0.0181	0.0242
0.7	2:119				
1122		Delta-E	-7807.9744	-0.0073	0.0215
0.3					
		Delta-U	-34.6181	0.0283	0.0385
0.7					
		Length	11452.2425		

(V1025 PostProcessed 26-MAR-2013 17:18:14.0 131765 vector processing.asc)

1BC1		Delta-N	-8377.8396	0.0213	0.0227
0.9	2:124				
1122		Delta-E	-7807.9744	0.0062	0.0218
0.3					
		Delta-U	-34.6181	-0.0206	0.0323
0.6					
		Length	11452.2425		

(V1026 PostProcessed 26-MAR-2013 17:25:54.0 131765 vector processing.asc)

1BC1		Delta-N	-31035.4472	0.0172	0.0278
0.6	2:129				
D_521		Delta-E	8165.2880	0.0162	0.0269
0.6					
		Delta-U	-13.5004	0.0456	0.0573
0.8					
		Length	32091.6047		

(V1027 PostProcessed 26-MAR-2013 20:45:44.0 131765 vector processing.asc)

1BC1		Delta-N	-31035.4472	-0.0116	0.0254
0.5	2:134				
D_521		Delta-E	8165.2880	-0.0120	0.0220
0.5					
		Delta-U	-13.5004	-0.0501	0.0360
1.4					
		Length	32091.6047		

(V1028 PostProcessed 26-MAR-2013 21:24:59.0 131765 vector processing.asc)

1BC1		Delta-N	-9695.1790	-0.0078	0.0259
0.3	2:139				
1118		Delta-E	-2484.8920	-0.0188	0.0223
0.8					
		Delta-U	-27.5450	0.0392	0.0548
0.7					
		Length	10008.5935		

(V1029 PostProcessed 26-MAR-2013 17:33:39.0 131765 vector processing.asc)

1BC1		Delta-N	-9695.1790	0.0143	0.0208
0.7	2:144				
1118		Delta-E	-2484.8920	0.0110	0.0216
0.5					
		Delta-U	-27.5450	-0.0313	0.0337
0.9					
		Length	10008.5935		

```
(V1030 PostProcessed 26-MAR-2013 17:44:49.0 131765 vector processing.asc)
1BC1                Delta-N        -13229.9808        0.0163   0.0237
0.7     2:149
1116                Delta-E          7367.0739        0.0139   0.0233
0.6
                    Delta-U           -20.6908        0.0611   0.0505
1.2
                    Length          15142.8729

(V1031 PostProcessed 26-MAR-2013 21:03:54.0 131765 vector processing.asc)
1BC1                Delta-N        -13229.9808       -0.0179   0.0238
0.8     2:154
1116                Delta-E          7367.0739       -0.0004   0.0219
0.0
                    Delta-U           -20.6908       -0.0347   0.0334
1.0
                    Length          15142.8729

(V1032 PostProcessed 26-MAR-2013 21:32:39.0 131765 vector processing.asc)
1BC1                Delta-N        -15545.9866       -0.0150   0.0262
0.6     2:159
1115                Delta-E          9121.3016       -0.0092   0.0237
0.4
                    Delta-U           -21.7009        0.0341   0.0628
0.5
                    Length          18024.3256

(V1033 PostProcessed 26-MAR-2013 18:31:24.0 131765 vector processing.asc)
1BC1                Delta-N        -15545.9866        0.0035   0.0235
0.1     2:164
1115                Delta-E          9121.3016        0.0102   0.0220
0.5
                    Delta-U           -21.7009       -0.0540   0.0426
1.3
                    Length          18024.3256

(V1034 PostProcessed 26-MAR-2013 21:38:59.0 131765 vector processing.asc)
1BC1                Delta-N         -7677.3556       -0.0083   0.0214
0.4     2:169
1117                Delta-E          5431.2707        0.0080   0.0212
0.4
                    Delta-U           -13.7371        0.0464   0.0407
1.1
                    Length           9404.2905

(V1035 PostProcessed 26-MAR-2013 18:34:14.0 131765 vector processing.asc)
1BC1                Delta-N         -7677.3556       -0.0088   0.0241
0.4     2:174
1117                Delta-E          5431.2707       -0.0066   0.0207
0.3
                    Delta-U           -13.7371        0.0031   0.0344
0.1
                    Length           9404.2905
```

```
(V1036 PostProcessed 26-MAR-2013 21:45:24.0 131765 vector processing.asc)
1BC1                Delta-N         -14016.0957       -0.0058   0.0235
0.2     2:179
1109                Delta-E          13726.0780       -0.0060   0.0243
0.2
                    Delta-U            -12.9405        0.0523   0.0582
0.9
                    Length           19617.7553

(V1037 PostProcessed 26-MAR-2013 18:44:59.0 131765 vector processing.asc)
1BC1                Delta-N         -14016.0957        0.0059   0.0223
0.3     2:184
1109                Delta-E          13726.0780        0.0080   0.0222
0.4
                    Delta-U            -12.9405       -0.0071   0.0357
0.2
                    Length           19617.7553

(V1038 PostProcessed 26-MAR-2013 21:55:24.0 131765 vector processing.asc)
1BC1                Delta-N          -3803.0651       -0.0074   0.0217
0.3     2:189
1111                Delta-E          13050.0705        0.0210   0.0228
0.9
                    Delta-U             -1.8972        0.0491   0.0472
1.0
                    Length           13592.9264

(V1039 PostProcessed 26-MAR-2013 18:52:34.0 131765 vector processing.asc)
1BC1                Delta-N          -3803.0651        0.0063   0.0235
0.3     2:194
1111                Delta-E          13050.0705        0.0001   0.0213
0.0
                    Delta-U             -1.8972       -0.0051   0.0301
0.2
                    Length           13592.9264

(V1040 PostProcessed 26-MAR-2013 21:58:14.0 131765 vector processing.asc)
1BC1                Delta-N         -13900.2586        0.0026   0.0232
0.1     2:199
1110                Delta-E          17149.3689        0.0031   0.0247
0.1
                    Delta-U            -11.7127        0.0492   0.0531
0.9
                    Length           22075.2844

(V1041 PostProcessed 26-MAR-2013 18:58:04.0 131765 vector processing.asc)
1BC1                Delta-N         -13900.2586        0.0068   0.0253
0.3     2:204
1110                Delta-E          17149.3689        0.0027   0.0226
0.1
                    Delta-U            -11.7127       -0.0387   0.0341
1.1
                    Length           22075.2844
```

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(V1042 PostProcessed 26-MAR-2013 22:08:34.0 131765 vector processing.asc)
1BC1                Delta-N          -7449.7001       -0.0066   0.0221
0.3     2:209
1114                Delta-E          13480.8393        0.0132   0.0229
0.6
                    Delta-U             -6.9135        0.0222   0.0419
0.5
                    Length           15402.3085

(V1043 PostProcessed 26-MAR-2013 19:05:24.0 131765 vector processing.asc)
1BC1                Delta-N          -7449.7001        0.0098   0.0248
0.4     2:214
1114                Delta-E          13480.8393       -0.0022   0.0219
0.1
                    Delta-U             -6.9135       -0.0218   0.0324
0.7
                    Length           15402.3085

(V1044 PostProcessed 26-MAR-2013 22:26:29.0 131765 vector processing.asc)
1BC1                Delta-N          -3293.6009       -0.0105   0.0222
0.5     2:219
M519                Delta-E          13462.8471        0.0055   0.0222
0.3
                    Delta-U             -0.9680        0.0758   0.0361
2.1
                    Length           13859.8723

(V1045 PostProcessed 26-MAR-2013 19:25:04.0 131765 vector processing.asc)
1BC1                Delta-N          -3293.6009        0.0140   0.0240
0.6     2:224
M519                Delta-E          13462.8471        0.0057   0.0215
0.3
                    Delta-U             -0.9680       -0.0482   0.0316
1.5
                    Length           13859.8723

(V1046 PostProcessed 27-MAR-2013 14:31:59.0 131765 vector processing.asc)
MDOT                Delta-N          -4169.2940       -0.0028   0.0190
0.1     2:229
1BF1                Delta-E          22822.2789       -0.0067   0.0189
0.4
                    Delta-U             31.1808        0.0297   0.0303
1.0
                    Length           23200.0086

(V1047 PostProcessed 27-MAR-2013 14:52:14.0 131765 vector processing.asc)
MDOT                Delta-N          -1409.6994       -0.0014   0.0233
0.1     2:234
1103                Delta-E          28120.5657       -0.0066   0.0214
0.3
                    Delta-U             31.5735        0.0369   0.0366
1.0
                    Length           28155.8957
```

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(V1048 PostProcessed 27-MAR-2013 18:29:29.0 131765 vector processing.asc)
MDOT                Delta-N          -1409.6994       -0.0215   0.0276
0.8     2:239
1103                Delta-E          28120.5657       -0.0156   0.0229
0.7
                    Delta-U             31.5735       -0.0904   0.0391
2.3
                    Length           28155.8957

(V1049 PostProcessed 27-MAR-2013 15:03:34.0 131765 vector processing.asc)
MDOT                Delta-N          -2512.2099        0.0281   0.0370
0.8     2:244
1101                Delta-E          35124.8879       -0.0164   0.0333
0.5
                    Delta-U             32.6895        0.1024   0.0867
1.2
                    Length           35214.6279

(V1050 PostProcessed 27-MAR-2013 18:43:14.0 131765 vector processing.asc)
MDOT                Delta-N          -4640.5257       -0.0046   0.0297
0.2     2:249
C519                Delta-E          28300.4269       -0.0027   0.0237
0.1
                    Delta-U             31.8242       -0.0068   0.0437
0.2
                    Length           28678.3831

(V1051 PostProcessed 27-MAR-2013 18:47:54.0 131765 vector processing.asc)
MDOT                Delta-N          -7627.9012        0.0212   0.0397
0.5     2:254
1100                Delta-E          35436.1481       -0.0020   0.0247
0.1
                    Delta-U             40.4148        0.0234   0.0574
0.4
                    Length           36247.8566

(V1052 PostProcessed 27-MAR-2013 15:19:54.0 131765 vector processing.asc)
MDOT                Delta-N          -7627.9012        0.0075   0.0248
0.3     2:259
1100                Delta-E          35436.1481       -0.0261   0.0227
1.2
                    Delta-U             40.4148       -0.0244   0.0405
0.6
                    Length           36247.8566

(V1053 PostProcessed 27-MAR-2013 19:00:19.0 131765 vector processing.asc)
MDOT                Delta-N          -3780.5578       -0.0235   0.0310
0.8     2:264
D519                Delta-E          28233.0898       -0.0007   0.0249
0.0
                    Delta-U             32.2756        0.0368   0.0513
0.7
                    Length           28485.1017
```

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(V1054 PostProcessed 27-MAR-2013 15:30:59.0 131765 vector processing.asc)
MDOT                Delta-N          -3780.5578       -0.0180   0.0282
0.6     2:269
D519                Delta-E          28233.0898        0.0020   0.0251
0.1
                    Delta-U             32.2756       -0.0996   0.0450
2.2
                    Length           28485.1017

(V1055 PostProcessed 27-MAR-2013 15:39:34.0 131765 vector processing.asc)
MDOT                Delta-N          -7665.5981        0.0207   0.0262
0.8     2:274
B_519               Delta-E          29973.2549        0.0043   0.0236
0.2
                    Delta-U             39.8831        0.0462   0.0494
0.9
                    Length           30937.9862

(V1056 PostProcessed 27-MAR-2013 19:03:29.0 131765 vector processing.asc)
MDOT                Delta-N          -7665.5981        0.0143   0.0270
0.5     2:279
B_519               Delta-E          29973.2549       -0.0139   0.0232
0.6
                    Delta-U             39.8831       -0.0565   0.0348
1.6
                    Length           30937.9862

(V1057 PostProcessed 27-MAR-2013 19:18:14.0 131765 vector processing.asc)
MDOT                Delta-N          -1440.2822       -0.0001   0.0281
0.0     2:284
1105                Delta-E          20465.4043        0.0180   0.0231
0.8
                    Delta-U             23.1958        0.0321   0.0414
0.8
                    Length           20516.0358

(V1058 PostProcessed 27-MAR-2013 15:48:14.0 131765 vector processing.asc)
MDOT                Delta-N          -1440.2822       -0.0066   0.0241
0.3     2:289
1105                Delta-E          20465.4043        0.0177   0.0220
0.8
                    Delta-U             23.1958       -0.0658   0.0330
2.0
                    Length           20516.0358

(V1059 PostProcessed 27-MAR-2013 15:52:39.0 131765 vector processing.asc)
MDOT                Delta-N          -6993.3761       -0.0087   0.0258
0.3     2:294
1102                Delta-E          28215.5858        0.0018   0.0228
0.1
                    Delta-U             35.5146        0.0345   0.0401
0.9
                    Length           29069.3628
```

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(V1060 PostProcessed 27-MAR-2013 19:16:04.0 131765 vector processing.asc)
MDOT                Delta-N          -6993.3761        0.0220   0.0299
0.7     2:299
1102                Delta-E          28215.5858       -0.0022   0.0258
0.1
                    Delta-U             35.5146       -0.0781   0.0404
1.9
                    Length           29069.3628

(V1061 PostProcessed 27-MAR-2013 16:08:24.0 131765 vector processing.asc)
MDOT                Delta-N          -5726.7355        0.0048   0.0276
0.2     2:304
1104                Delta-E          20308.0452       -0.0015   0.0234
0.1
                    Delta-U             26.6985        0.0030   0.0380
0.1
                    Length           21100.0690

(V1062 PostProcessed 27-MAR-2013 19:32:04.0 131765 vector processing.asc)
MDOT                Delta-N          -5726.7355        0.0324   0.0268
1.2     2:309
1104                Delta-E          20308.0452        0.0161   0.0232
0.7
                    Delta-U             26.6985       -0.0459   0.0366
1.3
                    Length           21100.0690

(V1063 PostProcessed 27-MAR-2013 16:09:14.0 131765 vector processing.asc)
MDOT                Delta-N           -100.4953       -0.0212   0.0236
0.9     2:314
1106                Delta-E           8710.9103        0.0034   0.0211
0.2
                    Delta-U             12.6791        0.0450   0.0304
1.5
                    Length            8711.4992

(V1064 PostProcessed 27-MAR-2013 19:49:19.0 131765 vector processing.asc)
MDOT                Delta-N          -5848.3587       -0.0195   0.0264
0.7     2:319
1108                Delta-E          13462.2265       -0.0050   0.0230
0.2
                    Delta-U             18.4266        0.0572   0.0488
1.2
                    Length           14677.7104

(V1065 PostProcessed 27-MAR-2013 16:24:09.0 131765 vector processing.asc)
MDOT                Delta-N          -5848.3587        0.0063   0.0243
0.3     2:324
1108                Delta-E          13462.2265       -0.0017   0.0218
0.1
                    Delta-U             18.4266        0.0026   0.0295
0.1
                    Length           14677.7104
```

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(V1066 PostProcessed 27-MAR-2013 20:05:09.0 131765 vector processing.asc)
MDOT                Delta-N          -8241.2824       -0.0060   0.0234
0.3     2:329
1107                Delta-E           8068.9310        0.0025   0.0218
0.1
                    Delta-U              7.3802        0.0369   0.0366
1.0
                    Length           11533.7087

(V1067 PostProcessed 27-MAR-2013 16:39:29.0 131765 vector processing.asc)
MDOT                Delta-N          -8241.2824       -0.0096   0.0242
0.4     2:334
1107                Delta-E           8068.9310        0.0132   0.0214
0.6
                    Delta-U              7.3802       -0.0208   0.0296
0.7
                    Length           11533.7087

(V1068 PostProcessed 27-MAR-2013 20:05:24.0 131765 vector processing.asc)
MDOT                Delta-N          -1653.2151       -0.0181   0.0199
0.9     2:339
1112                Delta-E            113.9497       -0.0088   0.0195
0.5
                    Delta-U             -1.5754        0.0442   0.0246
1.8
                    Length            1657.1383

(V1069 PostProcessed 27-MAR-2013 16:47:14.0 131765 vector processing.asc)
MDOT                Delta-N          -1653.2151        0.0036   0.0207
0.2     2:344
1112                Delta-E            113.9497        0.0137   0.0195
0.7
                    Delta-U             -1.5754        0.0089   0.0235
0.4
                    Length            1657.1383

(V1070 PostProcessed 26-MAR-2013 22:14:29.0 131765 vector processing.asc)
MDOT                Delta-N          -7915.0995       -0.0028   0.0210
0.1     2:349
1113                Delta-E            -16.5634       -0.0068   0.0213
0.3
                    Delta-U             -7.3118        0.0157   0.0334
0.5
                    Length            7915.1203

(V1071 PostProcessed 26-MAR-2013 15:21:24.0 131765 vector processing.asc)
MDOT                Delta-N          -7915.0995       -0.0023   0.0224
0.1     2:354
1113                Delta-E            -16.5634        0.0038   0.0209
0.2
                    Delta-U             -7.3118       -0.0256   0.0355
0.7
                    Length            7915.1203
```

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(V1072 PostProcessed 26-MAR-2013 19:48:34.0 131765 vector processing.asc)
MDOT                Delta-N          -554.1262       -0.0518   0.0310
1.7     2:359
1BB1                Delta-E        -40955.4836        0.0231   0.0256
0.9
                    Delta-U           -93.5701        0.0990   0.0571
1.7
                    Length          40959.3390

(V1073 PostProcessed 26-MAR-2013 15:49:14.0 131765 vector processing.asc)
MDOT                Delta-N          -554.1262       -0.0038   0.0249
0.2     2:364
1BB1                Delta-E        -40955.4836        0.0098   0.0229
0.4
                    Delta-U           -93.5701       -0.0589   0.0356
1.7
                    Length          40959.3390

(V1074 PostProcessed 26-MAR-2013 15:51:49.0 131765 vector processing.asc)
MDOT                Delta-N        -21082.6071        0.0012   0.0313
0.0     2:369
1126                Delta-E        -40512.2592        0.0190   0.0262
0.7
                    Delta-U          -129.1435        0.0640   0.0558
1.1
                    Length          45669.8604

(V1075 PostProcessed 26-MAR-2013 19:21:39.0 131765 vector processing.asc)
MDOT                Delta-N        -21082.6071        0.0013   0.0266
0.0     2:374
1126                Delta-E        -40512.2592       -0.0125   0.0250
0.5
                    Delta-U          -129.1435       -0.0255   0.0403
0.6
                    Length          45669.8604

(V1076 PostProcessed 26-MAR-2013 20:08:24.0 131765 vector processing.asc)
MDOT                Delta-N         -7836.2098        0.0478   0.0299
1.6     2:379
W519_8              Delta-E        -51094.2786        0.0338   0.0263
1.3
                    Delta-U          -138.3394       -0.0517   0.0499
1.0
                    Length          51691.8817

(V1077 PostProcessed 26-MAR-2013 16:09:49.0 131765 vector processing.asc)
MDOT                Delta-N         -7836.4039       -0.0010   0.0311
0.0     2:384
W519_4              Delta-E        -51094.3627       -0.0015   0.0323
0.0
                    Delta-U          -138.1635        0.0131   0.0462
0.3
                    Length          51691.9937
```

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(V1078 PostProcessed 26-MAR-2013 16:10:39.0 131765 vector processing.asc)
MDOT                Delta-N         -17142.7391        0.0199   0.0283
0.7     2:389
1121                Delta-E         -29802.2263        0.0086   0.0238
0.4
                    Delta-U            -89.2920        0.0447   0.0400
1.1
                    Length           34381.0146

(V1079 PostProcessed 26-MAR-2013 19:37:04.0 131765 vector processing.asc)
MDOT                Delta-N         -17142.7391        0.0079   0.0269
0.3     2:394
1121                Delta-E         -29802.2263       -0.0024   0.0236
0.1
                    Delta-U            -89.2920       -0.0521   0.0383
1.4
                    Length           34381.0146

(V1080 PostProcessed 26-MAR-2013 19:52:54.0 131765 vector processing.asc)
MDOT                Delta-N         -12580.2699       -0.0256   0.0308
0.8     2:399
1127                Delta-E         -27354.5780       -0.0112   0.0262
0.4
                    Delta-U            -83.6954        0.1112   0.0613
1.8
                    Length           30108.8548

(V1081 PostProcessed 26-MAR-2013 16:28:09.0 131765 vector processing.asc)
MDOT                Delta-N         -12580.2699        0.0037   0.0267
0.1     2:404
1127                Delta-E         -27354.5780       -0.0132   0.0218
0.6
                    Delta-U            -83.6954       -0.0005   0.0347
0.0
                    Length           30108.8548

(V1082 PostProcessed 26-MAR-2013 20:26:14.0 131765 vector processing.asc)
MDOT                Delta-N         -15087.1439       -0.0201   0.0269
0.7     2:409
1125                Delta-E         -42285.9770        0.0104   0.0246
0.4
                    Delta-U           -136.8084        0.0033   0.0452
0.1
                    Length           44897.0431

(V1083 PostProcessed 26-MAR-2013 16:28:29.0 131765 vector processing.asc)
MDOT                Delta-N         -15087.1439        0.0253   0.0260
1.0     2:414
1125                Delta-E         -42285.9770        0.0077   0.0233
0.3
                    Delta-U           -136.8084       -0.0405   0.0323
1.3
                    Length           44897.0431
```

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(V1084 PostProcessed 26-MAR-2013 20:41:04.0 131765 vector processing.asc)
MDOT                Delta-N         -10648.6649       -0.0212   0.0271
0.8     2:419
1124                Delta-E         -42038.6265        0.0259   0.0243
1.1
                    Delta-U           -128.0374        0.0551   0.0418
1.3
                    Length           43366.5375

(V1085 PostProcessed 26-MAR-2013 16:45:34.0 131765 vector processing.asc)
MDOT                Delta-N         -10648.6649        0.0127   0.0346
0.4     2:424
1124                Delta-E         -42038.6265        0.0081   0.0304
0.3
                    Delta-U           -128.0374       -0.0878   0.0450
2.0
                    Length           43366.5375

(V1086 PostProcessed 26-MAR-2013 20:11:14.0 131765 vector processing.asc)
MDOT                Delta-N         -14515.4811       -0.0141   0.0271
0.5     2:429
1119                Delta-E         -22521.2894       -0.0314   0.0245
1.3
                    Delta-U            -66.7225        0.0599   0.0474
1.3
                    Length           26793.8821

(V1087 PostProcessed 26-MAR-2013 16:47:09.0 131765 vector processing.asc)
MDOT                Delta-N         -14515.4811        0.0184   0.0267
0.7     2:434
1119                Delta-E         -22521.2894       -0.0032   0.0237
0.1
                    Delta-U            -66.7225       -0.0359   0.0350
1.0
                    Length           26793.8821

(V1088 PostProcessed 26-MAR-2013 17:02:19.0 131765 vector processing.asc)
MDOT                Delta-N          -8556.8645        0.0125   0.0333
0.4     2:439
1123                Delta-E         -34975.7361        0.0082   0.0264
0.3
                    Delta-U            -91.8481        0.0338   0.0538
0.6
                    Length           36007.3670

(V1089 PostProcessed 26-MAR-2013 20:56:04.0 131765 vector processing.asc)
MDOT                Delta-N          -8556.8645       -0.0255   0.0259
1.0     2:444
1123                Delta-E         -34975.7361        0.0088   0.0235
0.4
                    Delta-U            -91.8481       -0.0510   0.0366
1.4
                    Length           36007.3670
```

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(V1090 PostProcessed 26-MAR-2013 17:03:14.0 131765 vector processing.asc)
MDOT                Delta-N         -18485.0082        0.0106   0.0330
0.3     2:449
1120                Delta-E         -23227.3834        0.0077   0.0262
0.3
                    Delta-U            -72.2012        0.0585   0.0537
1.1
                    Length           29685.2166

(V1091 PostProcessed 26-MAR-2013 20:27:34.0 131765 vector processing.asc)
MDOT                Delta-N         -18485.0082       -0.0124   0.0254
0.5     2:454
1120                Delta-E         -23227.3834       -0.0248   0.0236
1.0
                    Delta-U            -72.2012       -0.0241   0.0373
0.6
                    Length           29685.2166

(V1092 PostProcessed 26-MAR-2013 21:08:54.0 131765 vector processing.asc)
MDOT                Delta-N          -6536.0466       -0.0275   0.0300
0.9     2:459
1122                Delta-E         -30207.7518        0.0102   0.0248
0.4
                    Delta-U            -74.8526        0.0109   0.0544
0.2
                    Length           30906.8565

(V1093 PostProcessed 26-MAR-2013 17:18:14.0 131765 vector processing.asc)
MDOT                Delta-N          -6536.0466        0.0200   0.0233
0.9     2:464
1122                Delta-E         -30207.7518        0.0131   0.0245
0.5
                    Delta-U            -74.8526       -0.0360   0.0377
1.0
                    Length           30906.8565

(V1094 PostProcessed 26-MAR-2013 17:25:54.0 131765 vector processing.asc)
MDOT                Delta-N         -29204.9187        0.0125   0.0278
0.5     2:469
D_521               Delta-E         -14250.5164        0.0034   0.0270
0.1
                    Delta-U            -34.6797        0.0944   0.0574
1.6
                    Length           32496.2413

(V1095 PostProcessed 26-MAR-2013 20:45:44.0 131765 vector processing.asc)
MDOT                Delta-N         -29204.9187       -0.0298   0.0254
1.2     2:474
D_521               Delta-E         -14250.5164       -0.0138   0.0220
0.6
                    Delta-U            -34.6797       -0.0219   0.0360
0.6
                    Length           32496.2413
```

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(V1096 PostProcessed 26-MAR-2013 21:24:59.0 131765 vector processing.asc)
MDOT                Delta-N          -7857.1415        0.0071   0.0306
0.2     2:479
1118                Delta-E         -24885.6111        0.0160   0.0250
0.6
                    Delta-U            -61.9736        0.0701   0.0723
1.0
                    Length           26096.5928

(V1097 PostProcessed 26-MAR-2013 17:33:39.0 131765 vector processing.asc)
MDOT                Delta-N          -7857.1415        0.0201   0.0227
0.9     2:484
1118                Delta-E         -24885.6111        0.0116   0.0241
0.5
                    Delta-U            -61.9736       -0.0228   0.0433
0.5
                    Length           26096.5928

(V1098 PostProcessed 26-MAR-2013 17:44:49.0 131765 vector processing.asc)
MDOT                Delta-N         -11398.8942        0.0173   0.0262
0.7     2:489
1116                Delta-E         -15036.1554       -0.0030   0.0260
0.1
                    Delta-U            -44.2782        0.0257   0.0629
0.4
                    Length           18868.5644

(V1099 PostProcessed 26-MAR-2013 21:03:54.0 131765 vector processing.asc)
MDOT                Delta-N         -11398.8942       -0.0161   0.0228
0.7     2:494
1116                Delta-E         -15036.1554       -0.0235   0.0225
1.0
                    Delta-U            -44.2782       -0.0224   0.0359
0.6
                    Length           18868.5644

(V1100 PostProcessed 26-MAR-2013 21:32:39.0 131765 vector processing.asc)
MDOT                Delta-N         -13716.1375        0.0056   0.0291
0.2     2:499
1115                Delta-E         -13283.5627        0.0018   0.0261
0.1
                    Delta-U            -43.2106        0.1156   0.0768
1.5
                    Length           19094.1701

(V1101 PostProcessed 26-MAR-2013 18:31:24.0 131765 vector processing.asc)
MDOT                Delta-N         -13716.1375        0.0117   0.0247
0.5     2:504
1115                Delta-E         -13283.5627       -0.0109   0.0222
0.5
                    Delta-U            -43.2106       -0.0087   0.0459
0.2
                    Length           19094.1701
```

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(V1102 PostProcessed 26-MAR-2013 21:38:59.0 131765 vector processing.asc)
MDOT                Delta-N          -5844.9037        0.0018   0.0240
0.1     2:509
1117                Delta-E         -16968.0455        0.0225   0.0235
1.0
                    Delta-U            -39.8788        0.0216   0.0545
0.4
                    Length           17946.5612

(V1103 PostProcessed 26-MAR-2013 18:34:14.0 131765 vector processing.asc)
MDOT                Delta-N          -5844.9037        0.0009   0.0227
0.0     2:514
1117                Delta-E         -16968.0455       -0.0250   0.0220
1.1
                    Delta-U            -39.8788       -0.0420   0.0387
1.1
                    Length           17946.5612

(V1104 PostProcessed 26-MAR-2013 21:45:24.0 131765 vector processing.asc)
MDOT                Delta-N         -12189.4957        0.0040   0.0232
0.2     2:519
1109                Delta-E          -8677.7197       -0.0016   0.0240
0.1
                    Delta-U            -29.6608        0.0060   0.0563
0.1
                    Length           14962.8709

(V1105 PostProcessed 26-MAR-2013 18:44:59.0 131765 vector processing.asc)
MDOT                Delta-N         -12189.4957        0.0057   0.0221
0.3     2:524
1109                Delta-E          -8677.7197       -0.0013   0.0218
0.1
                    Delta-U            -29.6608       -0.0253   0.0352
0.7
                    Length           14962.8709

(V1106 PostProcessed 26-MAR-2013 21:55:24.0 131765 vector processing.asc)
MDOT                Delta-N          -1975.9897       -0.0004   0.0204
0.0     2:529
1111                Delta-E          -9346.5302        0.0082   0.0211
0.4
                    Delta-U            -20.2319        0.0225   0.0373
0.6
                    Length            9553.1446

(V1107 PostProcessed 26-MAR-2013 18:52:34.0 131765 vector processing.asc)
MDOT                Delta-N          -1975.9897       -0.0061   0.0228
0.3     2:534
1111                Delta-E          -9346.5302       -0.0192   0.0206
0.9
                    Delta-U            -20.2319        0.0109   0.0284
0.4
                    Length            9553.1446
```

```
(V1108 PostProcessed 26-MAR-2013 21:58:14.0 131765 vector processing.asc)
MDOT                Delta-N         -12076.0743        0.0077   0.0215
0.4     2:539
1110                Delta-E          -5254.3511       -0.0032   0.0225
0.1
                    Delta-U            -24.7834        0.0058   0.0429
0.1
                    Length           13169.6769

(V1109 PostProcessed 26-MAR-2013 18:58:04.0 131765 vector processing.asc)
MDOT                Delta-N         -12076.0743       -0.0074   0.0237
0.3     2:544
1110                Delta-E          -5254.3511       -0.0054   0.0212
0.3
                    Delta-U            -24.7834       -0.0273   0.0303
0.9
                    Length           13169.6769

(V1110 PostProcessed 26-MAR-2013 22:08:34.0 131765 vector processing.asc)
MDOT                Delta-N          -5622.9282       -0.0031   0.0250
0.1     2:549
1114                Delta-E          -8918.3301        0.0110   0.0261
0.4
                    Delta-U            -24.4694        0.0556   0.0535
1.0
                    Length           10542.9850

(V1111 PostProcessed 26-MAR-2013 19:05:24.0 131765 vector processing.asc)
MDOT                Delta-N          -5622.9282       -0.0062   0.0229
0.3     2:554
1114                Delta-E          -8918.3301       -0.0163   0.0209
0.8
                    Delta-U            -24.4694        0.0002   0.0292
0.0
                    Length           10542.9850

(V1112 PostProcessed 26-MAR-2013 22:26:29.0 131765 vector processing.asc)
MDOT                Delta-N          -1466.8168       -0.0048   0.0218
0.2     2:559
M519                Delta-E          -8933.3954       -0.0001   0.0217
0.0
                    Delta-U            -18.9059        0.0130   0.0349
0.4
                    Length            9053.0361

(V1113 PostProcessed 26-MAR-2013 19:25:04.0 131765 vector processing.asc)
MDOT                Delta-N          -1466.8168       -0.0102   0.0235
0.4     2:564
M519                Delta-E          -8933.3954       -0.0169   0.0210
0.8
                    Delta-U            -18.9059       -0.0015   0.0308
0.0
                    Length            9053.0361
```

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(V1114 PostProcessed 26-MAR-2013 22:14:29.0 131765 vector processing.asc)
1113                Delta-N          2292.1600        0.0006   0.0230
0.0     2:569
1114                Delta-E         -8901.7679        0.0007   0.0236
0.0
                    Delta-U           -18.0207       -0.0216   0.0434
0.5
                    Length           9192.1594

(V1115 PostProcessed 26-MAR-2013 15:51:49.0 131765 vector processing.asc)
1126                Delta-N         20527.9252        0.0211   0.0267
0.8     2:574
1BB1                Delta-E          -469.3432       -0.0226   0.0235
1.0
                    Delta-U            15.6728        0.0240   0.0453
0.5
                    Length          20533.2959

(V1116 PostProcessed 26-MAR-2013 16:10:39.0 131765 vector processing.asc)
1121                Delta-N          9286.3280        0.0299   0.0301
1.0     2:579
W519_4              Delta-E        -21300.9098        0.0018   0.0257
0.1
                    Delta-U           -26.2310       -0.0557   0.0477
1.2
                    Length          23237.1542

(V1117 PostProcessed 26-MAR-2013 16:28:29.0 131765 vector processing.asc)
1127                Delta-N         -2519.7582       -0.0051   0.0265
0.2     2:584
1125                Delta-E        -14929.2900       -0.0180   0.0225
0.8
                    Delta-U           -32.1023        0.0355   0.0330
1.1
                    Length          15140.4727

(V1118 PostProcessed 26-MAR-2013 19:52:54.0 131765 vector processing.asc)
1127                Delta-N         12014.4230       -0.0044   0.0326
0.1     2:589
1BB1                Delta-E        -13611.2639        0.0041   0.0272
0.1
                    Delta-U             0.6297       -0.0107   0.0667
0.2
                    Length          18155.2434

(V1119 PostProcessed 26-MAR-2013 20:27:34.0 131765 vector processing.asc)
1125                Delta-N         -3372.4585       -0.0038   0.0260
0.1     2:594
1120                Delta-E         19063.1936       -0.0080   0.0239
0.3
                    Delta-U            28.5933       -0.0069   0.0427
0.2
                    Length          19359.2263
```

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(V1120 PostProcessed 26-MAR-2013 20:45:44.0 131765 vector processing.asc)
1124                Delta-N         -18519.4179       -0.0101   0.0316
0.3     2:599
D_521               Delta-E          27812.7898       -0.0197   0.0274
0.7
                    Delta-U             47.0688       -0.0147   0.0516
0.3
                    Length           33414.4031

(V1121 PostProcessed 26-MAR-2013 16:47:09.0 131765 vector processing.asc)
1119                Delta-N           3852.9417        0.0148   0.0318
0.5     2:604
1124                Delta-E         -19520.1297       -0.0360   0.0246
1.5
                    Delta-U            -43.0236       -0.0034   0.0442
0.1
                    Length           19896.7956

(V1122 PostProcessed 26-MAR-2013 20:11:14.0 131765 vector processing.asc)
1119                Delta-N           6658.9715       -0.0200   0.0303
0.7     2:609
W519_8              Delta-E         -28577.7804       -0.0055   0.0271
0.2
                    Delta-U            -45.5477        0.0161   0.0556
0.3
                    Length           29343.3725

(V1123 PostProcessed 26-MAR-2013 17:03:14.0 131765 vector processing.asc)
1120                Delta-N           9919.5375        0.0083   0.0292
0.3     2:614
1123                Delta-E         -11755.6264       -0.0247   0.0240
1.0
                    Delta-U            -15.4221        0.0139   0.0454
0.3
                    Length           15381.5543

(V1124 PostProcessed 26-MAR-2013 17:25:54.0 131765 vector processing.asc)
D_521               Delta-N          22661.6476        0.0068   0.0384
0.2     2:619
1122                Delta-E         -15967.4274       -0.0239   0.0365
0.7
                    Delta-U            -61.0702        0.0375   0.0864
0.4
                    Length           27722.0623

(V1125 PostProcessed 26-MAR-2013 17:33:39.0 131765 vector processing.asc)
D_521               Delta-N          21342.9548       -0.0125   0.0356
0.4     2:624
1118                Delta-E         -10644.6870        0.0051   0.0353
0.1
                    Delta-U            -49.9613       -0.0236   0.0881
0.3
                    Length           23850.2322
```

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(V1126 PostProcessed 26-MAR-2013 21:03:54.0 131765 vector processing.asc)
1116                Delta-N           2832.5667        0.0063   0.0401
0.2     2:629
1123                Delta-E         -19940.9535        0.0074   0.0322
0.2
                    Delta-U            -34.8113       -0.0142   0.0720
0.2
                    Length           20141.1586

(V1127 PostProcessed 26-MAR-2013 21:08:54.0 131765 vector processing.asc)
1116                Delta-N           4855.6499       -0.0020   0.0291
0.1     2:634
1122                Delta-E         -15173.9159       -0.0050   0.0248
0.2
                    Delta-U            -22.3430       -0.0087   0.0500
0.2
                    Length           15931.9038

(V1128 PostProcessed 26-MAR-2013 18:34:14.0 131765 vector processing.asc)
1115                Delta-N           7869.6935        0.0068   0.0270
0.3     2:639
1117                Delta-E          -3687.7729       -0.0184   0.0214
0.9
                    Delta-U              0.4901        0.0543   0.0441
1.2
                    Length            8690.9002

(V1129 PostProcessed 26-MAR-2013 21:38:59.0 131765 vector processing.asc)
1115                Delta-N           7869.6935        0.0009   0.0245
0.0     2:644
1117                Delta-E          -3687.7729        0.0122   0.0243
0.5
                    Delta-U              0.4901       -0.0834   0.0484
1.7
                    Length            8690.9002

(V1130 PostProcessed 26-MAR-2013 21:32:39.0 131765 vector processing.asc)
1115                Delta-N           5854.1324       -0.0128   0.0323
0.4     2:649
1118                Delta-E         -11604.5083       -0.0075   0.0267
0.3
                    Delta-U            -15.2602        0.0108   0.0826
0.1
                    Length           12997.5272

(V1131 PostProcessed 26-MAR-2013 18:52:34.0 131765 vector processing.asc)
1109                Delta-N          10213.3268       -0.0008   0.0363
0.0     2:654
1111                Delta-E           -671.5983       -0.0140   0.0277
0.5
                    Delta-U              3.7348       -0.0188   0.0562
0.3
                    Length           10235.3848
```

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(V1132 PostProcessed 26-MAR-2013 21:45:24.0 131765 vector processing.asc)
1109                Delta-N          6342.3207        0.0098   0.0245
0.4     2:659
1117                Delta-E         -8292.0633        0.0154   0.0250
0.6
                    Delta-U           -10.4929       -0.0168   0.0630
0.3
                    Length          10439.5141

(V1133 PostProcessed 26-MAR-2013 21:58:14.0 131765 vector processing.asc)
1110                Delta-N         10099.4088       -0.0063   0.0219
0.3     2:664
1111                Delta-E         -4093.8494        0.0132   0.0231
0.6
                    Delta-U            -0.2720        0.0115   0.0483
0.2
                    Length          10897.5988

(V1134 PostProcessed 26-MAR-2013 18:58:04.0 131765 vector processing.asc)
1110                Delta-N         10099.4088        0.0127   0.0244
0.5     2:669
1111                Delta-E         -4093.8494       -0.0128   0.0220
0.6
                    Delta-U            -0.2720       -0.0495   0.0318
1.6
                    Length          10897.5988

(V1135 PostProcessed 26-MAR-2013 19:05:24.0 131765 vector processing.asc)
1110                Delta-N          6452.5393        0.0042   0.0252
0.2     2:674
1114                Delta-E         -3665.0468       -0.0000   0.0218
0.0
                    Delta-U            -2.5046        0.0008   0.0342
0.0
                    Length           7420.7707

(V1136 PostProcessed 26-MAR-2013 19:25:04.0 131765 vector processing.asc)
M519                Delta-N        -19624.6853       -0.0304   0.0336
0.9     2:679
1126                Delta-E        -31573.3851       -0.0206   0.0260
0.8
                    Delta-U           -95.3905        0.0573   0.0529
1.1
                    Length          37175.4761

(V1137 PostProcessed 27-MAR-2013 14:52:14.0 131765 vector processing.asc)
1BF1                Delta-N          2755.7854        0.0097   0.0205
0.5     2:684
1103                Delta-E          5300.2661        0.0099   0.0197
0.5
                    Delta-U             5.6133        0.0334   0.0272
1.2
                    Length           5973.8769
```

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(V1138 PostProcessed 27-MAR-2013 18:29:29.0 131765 vector processing.asc)
1BF1                Delta-N          2755.7854       -0.0205   0.0232
0.9     2:689
1103                Delta-E          5300.2661       -0.0031   0.0202
0.2
                    Delta-U             5.6133       -0.0323   0.0318
1.0
                    Length           5973.8769

(V1139 PostProcessed 27-MAR-2013 18:31:54.0 131765 vector processing.asc)
1BF1                Delta-N          1648.2405        0.0044   0.0268
0.2     2:694
1101                Delta-E         12303.7884        0.0002   0.0214
0.0
                    Delta-U            14.5807        0.0522   0.0416
1.3
                    Length          12413.7069

(V1140 PostProcessed 27-MAR-2013 15:03:34.0 131765 vector processing.asc)
1BF1                Delta-N          1648.2405        0.0068   0.0226
0.3     2:699
1101                Delta-E         12303.7884        0.0112   0.0211
0.5
                    Delta-U            14.5807       -0.0360   0.0338
1.1
                    Length          12413.7069

(V1141 PostProcessed 27-MAR-2013 15:15:29.0 131765 vector processing.asc)
1BF1                Delta-N          -475.1693        0.0038   0.0211
0.2     2:704
C519                Delta-E          5477.8038        0.0015   0.0201
0.1
                    Delta-U             6.7059        0.0288   0.0328
0.9
                    Length           5498.3784

(V1142 PostProcessed 27-MAR-2013 18:43:14.0 131765 vector processing.asc)
1BF1                Delta-N          -475.1693        0.0020   0.0221
0.1     2:709
C519                Delta-E          5477.8038        0.0076   0.0201
0.4
                    Delta-U             6.7059        0.0047   0.0272
0.2
                    Length           5498.3784

(V1143 PostProcessed 27-MAR-2013 18:47:54.0 131765 vector processing.asc)
1BF1                Delta-N         -3467.6717       -0.0065   0.0251
0.3     2:714
1100                Delta-E         12611.3615        0.0175   0.0215
0.8
                    Delta-U            23.6681        0.0060   0.0338
0.2
                    Length          13079.4398
```

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(V1144 PostProcessed 27-MAR-2013 15:19:54.0 131765 vector processing.asc)
1BF1                Delta-N          -3467.6717       -0.0113   0.0226
0.5     2:719
1100                Delta-E          12611.3615       -0.0004   0.0211
0.0
                    Delta-U             23.6681       -0.0237   0.0341
0.7
                    Length           13079.4398

(V1145 PostProcessed 27-MAR-2013 19:00:19.0 131765 vector processing.asc)
1BF1                Delta-N            384.8469       -0.0018   0.0220
0.1     2:724
D519                Delta-E           5411.0846        0.0051   0.0202
0.3
                    Delta-U              6.9121        0.0184   0.0272
0.7
                    Length            5424.7573

(V1146 PostProcessed 27-MAR-2013 15:30:59.0 131765 vector processing.asc)
1BF1                Delta-N            384.8469        0.0068   0.0211
0.3     2:729
D519                Delta-E           5411.0846       -0.0061   0.0201
0.3
                    Delta-U              6.9121        0.0011   0.0298
0.0
                    Length            5424.7573

(V1147 PostProcessed 27-MAR-2013 15:39:34.0 131765 vector processing.asc)
1BF1                Delta-N          -3501.4418       -0.0021   0.0223
0.1     2:734
B_519               Delta-E           7148.4463        0.0119   0.0207
0.6
                    Delta-U             17.1923        0.0590   0.0341
1.7
                    Length            7959.9419

(V1148 PostProcessed 27-MAR-2013 19:03:29.0 131765 vector processing.asc)
1BF1                Delta-N          -3501.4418       -0.0115   0.0246
0.5     2:739
B_519               Delta-E           7148.4463       -0.0034   0.0211
0.2
                    Delta-U             17.1923       -0.0084   0.0302
0.3
                    Length            7959.9419

(V1149 PostProcessed 27-MAR-2013 19:18:14.0 131765 vector processing.asc)
1BF1                Delta-N           2730.7036       -0.0016   0.0210
0.1     2:744
1105                Delta-E          -2354.9016       -0.0232   0.0196
1.2
                    Delta-U            -11.0985        0.0424   0.0253
1.7
                    Length            3605.8878
```

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(V1150 PostProcessed 27-MAR-2013 15:48:14.0 131765 vector processing.asc)
1BF1                Delta-N           2730.7036       -0.0049   0.0203
0.2     2:749
1105                Delta-E          -2354.9016        0.0034   0.0195
0.2
                    Delta-U            -11.0985       -0.0057   0.0248
0.2
                    Length            3605.8878

(V1151 PostProcessed 27-MAR-2013 15:52:39.0 131765 vector processing.asc)
1BF1                Delta-N          -2827.9573       -0.0125   0.0220
0.6     2:754
1102                Delta-E           5391.2670        0.0072   0.0205
0.4
                    Delta-U             10.7744        0.0250   0.0300
0.8
                    Length            6087.9568

(V1152 PostProcessed 27-MAR-2013 19:16:04.0 131765 vector processing.asc)
1BF1                Delta-N          -2827.9573        0.0143   0.0222
0.6     2:759
1102                Delta-E           5391.2670       -0.0120   0.0203
0.6
                    Delta-U             10.7744       -0.0193   0.0276
0.7
                    Length            6087.9568

(V1153 PostProcessed 27-MAR-2013 19:32:04.0 131765 vector processing.asc)
1BF1                Delta-N          -1555.6346       -0.0110   0.0210
0.5     2:764
1104                Delta-E          -2515.3466        0.0006   0.0196
0.0
                    Delta-U             -6.9101        0.0300   0.0260
1.2
                    Length            2957.5353

(V1154 PostProcessed 27-MAR-2013 19:39:49.0 131765 vector processing.asc)
1BF1                Delta-N           4078.9375       -0.0030   0.0256
0.1     2:769
1106                Delta-E         -14108.4108       -0.0220   0.0222
1.0
                    Delta-U            -34.6893        0.0081   0.0406
0.2
                    Length           14686.2585

(V1155 PostProcessed 27-MAR-2013 16:09:14.0 131765 vector processing.asc)
1BF1                Delta-N           4078.9375        0.0066   0.0238
0.3     2:774
1106                Delta-E         -14108.4108        0.0068   0.0216
0.3
                    Delta-U            -34.6893       -0.0572   0.0297
1.9
                    Length           14686.2585
```

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(V1156 PostProcessed 27-MAR-2013 19:49:19.0 131765 vector processing.asc)
1BF1                Delta-N          -1672.3385       -0.0034   0.0233
0.1     2:779
1108                Delta-E          -9361.2378       -0.0117   0.0213
0.5
                    Delta-U            -22.6160        0.0085   0.0374
0.2
                    Length            9509.4690

(V1157 PostProcessed 27-MAR-2013 16:24:09.0 131765 vector processing.asc)
1BF1                Delta-N          -1672.3385        0.0029   0.0234
0.1     2:784
1108                Delta-E          -9361.2378        0.0115   0.0210
0.5
                    Delta-U            -22.6160       -0.0224   0.0275
0.8
                    Length            9509.4690

(V1158 PostProcessed 27-MAR-2013 20:05:09.0 131765 vector processing.asc)
1BF1                Delta-N          -4061.3868       -0.0073   0.0247
0.3     2:789
1107                Delta-E         -14756.2374       -0.0307   0.0227
1.4
                    Delta-U            -39.0597        0.0235   0.0405
0.6
                    Length           15304.9969

(V1159 PostProcessed 27-MAR-2013 16:39:29.0 131765 vector processing.asc)
1BF1                Delta-N          -4061.3868        0.0248   0.0257
1.0     2:794
1107                Delta-E         -14756.2374        0.0073   0.0223
0.3
                    Delta-U            -39.0597       -0.0501   0.0324
1.5
                    Length           15304.9969

(V1160 PostProcessed 27-MAR-2013 20:05:24.0 131765 vector processing.asc)
1BF1                Delta-N           2532.3951       -0.0117   0.0268
0.4     2:799
1112                Delta-E         -22706.4650       -0.0192   0.0241
0.8
                    Delta-U            -57.9995        0.0061   0.0466
0.1
                    Length           22847.3180

(V1161 PostProcessed 27-MAR-2013 16:47:14.0 131765 vector processing.asc)
1BF1                Delta-N           2532.3951        0.0423   0.0264
1.6     2:804
1112                Delta-E         -22706.4650        0.0204   0.0236
0.9
                    Delta-U            -57.9995       -0.0776   0.0348
2.2
                    Length           22847.3180
```

```
(V1162 PostProcessed 27-MAR-2013 18:31:54.0 131765 vector processing.asc)
1103                Delta-N          -1108.7156       -0.0003   0.0275
0.0     2:809
1101                Delta-E           7003.3348       -0.0010   0.0217
0.0
                    Delta-U             10.5931        0.0280   0.0442
0.6
                    Length            7090.5614

(V1163 PostProcessed 27-MAR-2013 15:03:34.0 131765 vector processing.asc)
1103                Delta-N          -1108.7156       -0.0090   0.0237
0.4     2:814
1101                Delta-E           7003.3348       -0.0068   0.0220
0.3
                    Delta-U             10.5931       -0.0411   0.0381
1.1
                    Length            7090.5614

(V1164 PostProcessed 27-MAR-2013 15:19:54.0 131765 vector processing.asc)
C519                Delta-N          -2993.7326       -0.0037   0.0238
0.2     2:819
1100                Delta-E           7133.0366       -0.0034   0.0218
0.2
                    Delta-U             18.8958        0.0720   0.0443
1.6
                    Length            7735.8260

(V1165 PostProcessed 27-MAR-2013 18:47:54.0 131765 vector processing.asc)
C519                Delta-N          -2993.7326        0.0113   0.0257
0.4     2:824
1100                Delta-E           7133.0366        0.0100   0.0216
0.5
                    Delta-U             18.8958       -0.0073   0.0343
0.2
                    Length            7735.8260

(V1166 PostProcessed 27-MAR-2013 19:03:29.0 131765 vector processing.asc)
D519                Delta-N          -3886.5849       -0.0127   0.0235
0.5     2:829
B_519               Delta-E           1736.6966       -0.0032   0.0205
0.2
                    Delta-U             10.6573       -0.0085   0.0286
0.3
                    Length            4256.9673

(V1167 PostProcessed 27-MAR-2013 19:18:14.0 131765 vector processing.asc)
1102                Delta-N           5559.9728       -0.0068   0.0249
0.3     2:834
1105                Delta-E          -7745.2187       -0.0073   0.0215
0.3
                    Delta-U            -24.6204        0.0269   0.0344
0.8
                    Length            9534.2707
```

```
(V1168 PostProcessed 27-MAR-2013 15:52:39.0 131765 vector processing.asc)
1102                Delta-N           5559.9728        0.0041   0.0239
0.2     2:839
1105                Delta-E          -7745.2187       -0.0009   0.0218
0.0
                    Delta-U            -24.6204       -0.0463   0.0332
1.4
                    Length            9534.2707

(V1169 PostProcessed 27-MAR-2013 16:09:14.0 131765 vector processing.asc)
1104                Delta-N           5633.6517        0.0081   0.0261
0.3     2:844
1106                Delta-E         -11593.5138        0.0157   0.0224
0.7
                    Delta-U            -26.8076        0.0821   0.0352
2.3
                    Length           12889.8531

(V1170 PostProcessed 27-MAR-2013 19:39:49.0 131765 vector processing.asc)
1104                Delta-N           5633.6517        0.0090   0.0293
0.3     2:849
1106                Delta-E         -11593.5138       -0.0018   0.0252
0.1
                    Delta-U            -26.8076       -0.0843   0.0403
2.1
                    Length           12889.8531

(V1171 PostProcessed 27-MAR-2013 20:05:24.0 131765 vector processing.asc)
1107                Delta-N           6590.0838       -0.0061   0.0245
0.2     2:854
1112                Delta-E          -7953.3023       -0.0085   0.0225
0.4
                    Delta-U            -14.6238        0.0031   0.0400
0.1
                    Length           10328.8158

(V1172 PostProcessed 27-MAR-2013 16:47:14.0 131765 vector processing.asc)
1107                Delta-N           6590.0838        0.0216   0.0331
0.7     2:859
1112                Delta-E          -7953.3023        0.0096   0.0272
0.4
                    Delta-U            -14.6238       -0.0664   0.0450
1.5
                    Length           10328.8158

(V2001 PostProcessed 26-MAR-2013 14:58:34.0 131765 cgps processing.asc)
MDOT                Delta-N           8192.4419       -0.0019   0.0189
0.1     2:866
SRP1                Delta-E         -32150.3380       -0.0074   0.0188
0.4
                    Delta-U              0.6926       -0.0254   0.0306
0.8
                    Length           33177.7084
```

```
(V2002 PostProcessed 26-MAR-2013 14:58:34.0 131765 cgps processing.asc)
MDOT                Delta-N          51235.8894       -0.0057   0.0189
0.3     2:871
COSA                Delta-E          73185.6362        0.0073   0.0188
0.4
                    Delta-U            145.5654        0.0343   0.0304
1.1
                    Length           89337.9813

(V2003 PostProcessed 26-MAR-2013 14:11:59.0 131765 cgps processing.asc)
SRP1                Delta-N          -6346.2487       -0.0038   0.0187
0.2     2:876
1BC1                Delta-E           9762.8034        0.0027   0.0188
0.1
                    Delta-U            -50.7824        0.0055   0.0239
0.2
                    Length           11644.3026

(V2004 PostProcessed 26-MAR-2013 14:11:59.0 131765 cgps processing.asc)
COSA                Delta-N         -49177.2960       -0.0038   0.0188
0.2     2:881
1BC1                Delta-E         -95692.1850       -0.0029   0.0189
0.2
                    Delta-U           -633.4888        0.0004   0.0265
0.0
                    Length          107590.9012

(V2005 PostProcessed 25-MAR-2013 23:59:44.0 131765 cgps processing.asc)
COSA                Delta-N         -42798.6364       -0.0022   0.0188
0.1     2:886
SRP1                Delta-E        -105433.9643        0.0101   0.0188
0.5
                    Delta-U           -618.6444        0.0189   0.0227
0.8
                    Length          113791.1544
```

GPS Vector Residual Summary (FeetInt)
(Sorted by 3D Residual Length)

```
From        To              N       E       Up      2D      3D   Length
VectID File:Line
MDOT        1115        0.006   0.002   0.116   0.006   0.116    19094
1100    2:499
MDOT        1127       -0.026  -0.011   0.111   0.028   0.115    30109
1080    2:399
MDOT        1BB1       -0.052   0.023   0.099   0.057   0.114    40959
1072    2:359
MDOT        1101        0.028  -0.016   0.102   0.033   0.107    35215
1049    2:244
MDOT        D519       -0.018   0.002  -0.100   0.018   0.101    28485
1054    2:269
MDOT        D_521       0.013   0.003   0.094   0.013   0.095    32496
1094    2:469
```

MDOT	1103	-0.022	-0.016	-0.090	0.027	0.094	28156
1048	2:239						
1BF1	1112	0.042	0.020	-0.078	0.047	0.091	22847
1161	2:804						
MDOT	1124	0.013	0.008	-0.088	0.015	0.089	43367
1085	2:424						
1104	1106	0.009	-0.002	-0.084	0.009	0.085	12890
1170	2:849						
1115	1117	0.001	0.012	-0.083	0.012	0.084	8691
1129	2:644						
1104	1106	0.008	0.016	0.082	0.018	0.084	12890
1169	2:844						
MDOT	1102	0.022	-0.002	-0.078	0.022	0.081	29069
1060	2:299						
MDOT	W519_8	0.048	0.034	-0.052	0.059	0.078	51692
1076	2:379						
1BC1	1113	-0.005	-0.001	0.078	0.005	0.078	24410
1002	2:9						
1BC1	M519	-0.011	0.006	0.076	0.012	0.077	13860
1044	2:219						
1BC1	1BB1	-0.016	-0.008	0.072	0.018	0.074	18715
1004	2:19						
MDOT	1118	0.007	0.016	0.070	0.017	0.072	26097
1096	2:479						
C519	1100	-0.004	-0.003	0.072	0.005	0.072	7736
1164	2:819						
1107	1112	0.022	0.010	-0.066	0.024	0.070	10329
1172	2:859						
MDOT	1119	-0.014	-0.031	0.060	0.034	0.069	26794
1086	2:429						
MDOT	1105	-0.007	0.018	-0.066	0.019	0.068	20516
1058	2:289						
M519	1126	-0.030	-0.021	0.057	0.037	0.068	37175
1136	2:679						
1BC1	1113	-0.005	0.012	-0.066	0.013	0.068	24410
1003	2:14						
MDOT	1126	0.001	0.019	0.064	0.019	0.067	45670
1074	2:369						
1BC1	1116	0.016	0.014	0.061	0.021	0.065	15143
1030	2:149						
MDOT	1124	-0.021	0.026	0.055	0.033	0.064	43367
1084	2:419						
1121	W519_4	0.030	0.002	-0.056	0.030	0.063	23237
1116	2:579						
1BC1	1121	-0.007	-0.013	-0.060	0.015	0.062	20374
1011	2:54						
MDOT	1108	-0.020	-0.005	0.057	0.020	0.061	14678
1064	2:319						
1BF1	B_519	-0.002	0.012	0.059	0.012	0.060	7960
1147	2:734						
1BC1	1119	-0.027	-0.023	0.048	0.035	0.060	16352
1018	2:89						
MDOT	B_519	0.014	-0.014	-0.057	0.020	0.060	30938
1056	2:279						

MDOT	1120	0.011	0.008	0.058	0.013	0.060	29685
1090	2:449						
MDOT	1BB1	-0.004	0.010	-0.059	0.010	0.060	40959
1073	2:364						
MDOT	1104	0.032	0.016	-0.046	0.036	0.058	21100
1062	2:309						
1BF1	1106	0.007	0.007	-0.057	0.010	0.058	14686
1155	2:774						
1115	1117	0.007	-0.018	0.054	0.020	0.058	8691
1128	2:639						
MDOT	1123	-0.025	0.009	-0.051	0.027	0.058	36007
1089	2:444						
MDOT	1114	-0.003	0.011	0.056	0.011	0.057	10543
1110	2:549						
1BF1	1107	0.025	0.007	-0.050	0.026	0.056	15305
1159	2:794						
1BC1	1115	0.004	0.010	-0.054	0.011	0.055	18024
1033	2:164						
1BC1	1111	-0.007	0.021	0.049	0.022	0.054	13593
1038	2:189						
1BC1	1109	-0.006	-0.006	0.052	0.008	0.053	19618
1036	2:179						
1BC1	D_521	-0.012	-0.012	-0.050	0.017	0.053	32092
1027	2:134						
MDOT	1121	0.008	-0.002	-0.052	0.008	0.053	34381
1079	2:394						
1110	1111	0.013	-0.013	-0.049	0.018	0.053	10898
1134	2:669						
1BF1	1101	0.004	0.000	0.052	0.004	0.052	12414
1139	2:694						
1BC1	1124	-0.010	-0.005	0.050	0.011	0.051	23277
1016	2:79						
1BC1	D_521	0.017	0.016	0.046	0.024	0.051	32092
1026	2:129						
MDOT	B_519	0.021	0.004	0.046	0.021	0.051	30938
1055	2:274						
1BC1	1127	-0.019	-0.009	0.046	0.021	0.051	15246
1012	2:59						
1BC1	M519	0.014	0.006	-0.048	0.015	0.050	13860
1045	2:224						
1BC1	1125	-0.023	-0.006	0.044	0.023	0.050	26117
1014	2:69						
1BC1	1124	0.031	-0.006	-0.039	0.031	0.050	23277
1017	2:84						
MDOT	1106	-0.021	0.003	0.045	0.021	0.050	8711
1063	2:314						
MDOT	1121	0.020	0.009	0.045	0.022	0.050	34381
1078	2:389						
1BC1	1110	0.003	0.003	0.049	0.004	0.049	22075
1040	2:199						
1BC1	W519_4	-0.030	-0.007	0.038	0.031	0.049	30287
1009	2:44						
MDOT	1117	0.001	-0.025	-0.042	0.025	0.049	17947
1103	2:514						

MDOT	1112	-0.018	-0.009	0.044	0.020	0.049	1657
1068	2:339						
1BC1	1121	0.007	0.005	0.048	0.009	0.048	20374
1010	2:49						
MDOT	1125	0.025	0.008	-0.041	0.026	0.048	44897
1083	2:414						
1BC1	W519_8	-0.023	-0.024	0.035	0.033	0.048	30287
1008	2:39						
1BF1	1105	-0.002	-0.023	0.042	0.023	0.048	3606
1149	2:744						
1BC1	1117	-0.008	0.008	0.046	0.012	0.048	9404
1034	2:169						
1BC1	1123	0.012	-0.000	0.046	0.012	0.047	16319
1020	2:99						
1102	1105	0.004	-0.001	-0.046	0.004	0.046	9534
1168	2:839						
1BC1	1126	0.021	-0.021	-0.035	0.029	0.046	29216
1007	2:34						
D_521	1122	0.007	-0.024	0.037	0.025	0.045	27722
1124	2:619						
1BC1	1118	-0.008	-0.019	0.039	0.020	0.044	10009
1028	2:139						
MDOT	D519	-0.024	-0.001	0.037	0.024	0.044	28485
1053	2:264						
MDOT	1122	0.020	0.013	-0.036	0.024	0.043	30907
1093	2:464						
1103	1101	-0.009	-0.007	-0.041	0.011	0.043	7091
1163	2:814						
1BC1	1120	0.014	0.015	0.036	0.021	0.042	20338
1022	2:109						
MDOT	1119	0.018	-0.003	-0.036	0.019	0.040	26794
1087	2:434						
1127	1125	-0.005	-0.018	0.036	0.019	0.040	15140
1117	2:584						
MDOT	D_521	-0.030	-0.014	-0.022	0.033	0.039	32496
1095	2:474						
1BF1	1107	-0.007	-0.031	0.024	0.032	0.039	15305
1158	2:789						
1BC1	1110	0.007	0.003	-0.039	0.007	0.039	22075
1041	2:204						
1126	1BB1	0.021	-0.023	0.024	0.031	0.039	20533
1115	2:574						
1119	1124	0.015	-0.036	-0.003	0.039	0.039	19897
1121	2:604						
1BC1	1116	-0.018	-0.000	-0.035	0.018	0.039	15143
1031	2:154						
1BC1	1123	-0.028	-0.007	-0.025	0.029	0.039	16319
1021	2:104						
1BF1	1103	-0.020	-0.003	-0.032	0.021	0.038	5974
1138	2:689						
1BC1	1115	-0.015	-0.009	0.034	0.018	0.038	18024
1032	2:159						
1BF1	1101	0.007	0.011	-0.036	0.013	0.038	12414
1140	2:699						

MDOT	1103	-0.001	-0.007	0.037	0.007	0.037	28156	1047	2:234
MDOT	1107	-0.006	0.003	0.037	0.006	0.037	11534	1066	2:329
MDOT	1123	0.013	0.008	0.034	0.015	0.037	36007	1088	2:439
MDOT	1105	-0.000	0.018	0.032	0.018	0.037	20516	1057	2:284
1BC1	1120	-0.013	-0.020	-0.028	0.024	0.037	20338	1023	2:114
MDOT	1120	-0.012	-0.025	-0.024	0.028	0.037	29685	1091	2:454
MDOT	1100	0.008	-0.026	-0.024	0.027	0.037	36248	1052	2:259
MDOT	1116	-0.016	-0.023	-0.022	0.028	0.036	18869	1099	2:494
1BF1	1103	0.010	0.010	0.033	0.014	0.036	5974	1137	2:684
1BC1	1118	0.014	0.011	-0.031	0.018	0.036	10009	1029	2:144
MDOT	1102	-0.009	0.002	0.035	0.009	0.036	29069	1059	2:294
MDOT	COSA	-0.006	0.007	0.034	0.009	0.036	89338	2002	2:871
1BC1	1122	-0.018	-0.007	0.028	0.020	0.034	11452	1024	2:119
MDOT	1118	0.020	0.012	-0.023	0.023	0.033	26097	1097	2:484
1BC1	MDOT	0.002	0.005	-0.032	0.005	0.032	22469	1001	2:4
1BF1	1104	-0.011	0.001	0.030	0.011	0.032	2958	1153	2:764
MDOT	1100	0.021	-0.002	0.023	0.021	0.032	36248	1051	2:254
MDOT	1117	0.002	0.023	0.022	0.023	0.031	17947	1102	2:509
MDOT	1122	-0.027	0.010	0.011	0.029	0.031	30907	1092	2:459
MDOT	1116	0.017	-0.003	0.026	0.018	0.031	18869	1098	2:489
1BC1	1126	0.011	0.009	0.027	0.014	0.031	29216	1006	2:29
MDOT	1BF1	-0.003	-0.007	0.030	0.007	0.031	23200	1046	2:229
1BC1	1122	0.021	0.006	-0.021	0.022	0.030	11452	1025	2:124
1BC1	1119	0.009	0.017	-0.024	0.019	0.030	16352	1019	2:94
1120	1123	0.008	-0.025	0.014	0.026	0.030	15382	1123	2:614
1BF1	C519	0.004	0.001	0.029	0.004	0.029	5498	1141	2:704
1BC1	1BB1	0.015	-0.014	-0.021	0.020	0.029	18715	1005	2:24

1BF1	1102	-0.012	0.007	0.025	0.014	0.029	6088
1151	2:754						
MDOT	1110	-0.007	-0.005	-0.027	0.009	0.029	13170
1109	2:544						
1102	1105	-0.007	-0.007	0.027	0.010	0.029	9534
1167	2:834						
MDOT	1126	0.001	-0.012	-0.025	0.013	0.028	45670
1075	2:374						
1103	1101	-0.000	-0.001	0.028	0.001	0.028	7091
1162	2:809						
1BC1	1125	0.015	-0.004	-0.023	0.016	0.028	26117
1015	2:74						
D_521	1118	-0.013	0.005	-0.024	0.014	0.027	23850
1125	2:624						
1BF1	1102	0.014	-0.012	-0.019	0.019	0.027	6088
1152	2:759						
1BC1	1114	-0.007	0.013	0.022	0.015	0.027	15402
1042	2:209						
1124	D_521	-0.010	-0.020	-0.015	0.022	0.027	33414
1120	2:599						
MDOT	SRP1	-0.002	-0.007	-0.025	0.008	0.027	33178
2001	2:866						
MDOT	1107	-0.010	0.013	-0.021	0.016	0.026	11534
1067	2:334						
1BF1	1100	-0.011	-0.000	-0.024	0.011	0.026	13079
1144	2:719						
1119	W519_8	-0.020	-0.006	0.016	0.021	0.026	29343
1122	2:609						
MDOT	1113	-0.002	0.004	-0.026	0.004	0.026	7915
1071	2:354						
MDOT	1109	0.006	-0.001	-0.025	0.006	0.026	14963
1105	2:524						
1BF1	1108	0.003	0.012	-0.022	0.012	0.025	9509
1157	2:784						
1109	1117	0.010	0.015	-0.017	0.018	0.025	10440
1132	2:659						
1BC1	1114	0.010	-0.002	-0.022	0.010	0.024	15402
1043	2:214						
MDOT	1111	-0.000	0.008	0.022	0.008	0.024	9553
1106	2:529						
1BF1	1106	-0.003	-0.022	0.008	0.022	0.024	14686
1154	2:769						
1109	1111	-0.001	-0.014	-0.019	0.014	0.023	10235
1131	2:654						
1BF1	1112	-0.012	-0.019	0.006	0.023	0.023	22847
1160	2:799						
MDOT	1111	-0.006	-0.019	0.011	0.020	0.023	9553
1107	2:534						
MDOT	1125	-0.020	0.010	0.003	0.023	0.023	44897
1082	2:409						
1113	1114	0.001	0.001	-0.022	0.001	0.022	9192
1114	2:569						
COSA	SRP1	-0.002	0.010	0.019	0.010	0.022	113791
2005	2:886						

MDOT	M519	-0.010	-0.017	-0.001	0.020	0.020	9053
1113	2:564						
1BF1	1100	-0.007	0.017	0.006	0.019	0.020	13079
1143	2:714						
1BF1	D519	-0.002	0.005	0.018	0.005	0.019	5425
1145	2:724						
1110	1111	-0.006	0.013	0.011	0.015	0.019	10898
1133	2:664						
1115	1118	-0.013	-0.007	0.011	0.015	0.018	12998
1130	2:649						
MDOT	1115	0.012	-0.011	-0.009	0.016	0.018	19094
1101	2:504						
MDOT	1114	-0.006	-0.016	0.000	0.017	0.017	10543
1111	2:554						
MDOT	1113	-0.003	-0.007	0.016	0.007	0.017	7915
1070	2:349						
1116	1123	0.006	0.007	-0.014	0.010	0.017	20141
1126	2:629						
C519	1100	0.011	0.010	-0.007	0.015	0.017	7736
1165	2:824						
MDOT	1112	0.004	0.014	0.009	0.014	0.017	1657
1069	2:344						
D519	B_519	-0.013	-0.003	-0.009	0.013	0.016	4257
1166	2:829						
1BF1	1108	-0.003	-0.012	0.008	0.012	0.015	9509
1156	2:779						
1BF1	B_519	-0.011	-0.003	-0.008	0.012	0.015	7960
1148	2:739						
1BC1	1127	0.002	-0.002	-0.014	0.002	0.014	15246
1013	2:64						
MDOT	M519	-0.005	-0.000	0.013	0.005	0.014	9053
1112	2:559						
MDOT	1127	0.004	-0.013	-0.000	0.014	0.014	30109
1081	2:404						
MDOT	W519_4	-0.001	-0.001	0.013	0.002	0.013	51692
1077	2:384						
1127	1BB1	-0.004	0.004	-0.011	0.006	0.012	18155
1118	2:589						
1BC1	1109	0.006	0.008	-0.007	0.010	0.012	19618
1037	2:184						
1BC1	1117	-0.009	-0.007	0.003	0.011	0.011	9404
1035	2:174						
1125	1120	-0.004	-0.008	-0.007	0.009	0.011	19359
1119	2:594						
1107	1112	-0.006	-0.008	0.003	0.010	0.011	10329
1171	2:854						
1116	1122	-0.002	-0.005	-0.009	0.005	0.010	15932
1127	2:634						
MDOT	1110	0.008	-0.003	0.006	0.008	0.010	13170
1108	2:539						
1BF1	D519	0.007	-0.006	0.001	0.009	0.009	5425
1146	2:729						
1BF1	C519	0.002	0.008	0.005	0.008	0.009	5498
1142	2:709						

MDOT	C519	-0.005	-0.003	-0.007	0.005	0.009	28678
1050	2:249						
1BF1	1105	-0.005	0.003	-0.006	0.006	0.008	3606
1150	2:749						
1BC1	1111	0.006	0.000	-0.005	0.006	0.008	13593
1039	2:194						
MDOT	1109	0.004	-0.002	0.006	0.004	0.007	14963
1104	2:519						
SRP1	1BC1	-0.004	0.003	0.006	0.005	0.007	11644
2003	2:876						
MDOT	1108	0.006	-0.002	0.003	0.007	0.007	14678
1065	2:324						
MDOT	1104	0.005	-0.001	0.003	0.005	0.006	21100
1061	2:304						
COSA	1BC1	-0.004	-0.003	0.000	0.005	0.005	107591
2004	2:881						
1110	1114	0.004	-0.000	0.001	0.004	0.004	7421
1135	2:674						

Adjusted Bearings (DMS) and Horizontal Distances (FeetInt)

(Relative Confidence of Bearing is in Seconds)

From	To	Grid Bearing	Grid Dist Grnd Dist	95% RelConfidence Brg	 Dist	 PPM
1100	1BF1	N74-33-12.83W	13077.4900	0.44	0.0245	
1.8757						
			13079.4104			
1100	C519	N67-10-12.06W	7734.6602	0.83	0.0277	
3.5851						
			7735.7993			
1100	MDOT	N77-44-19.36W	36242.5468	0.17	0.0253	
0.6994						
			36247.7855			
1101	1103	N80-56-29.29W	7089.5097	0.93	0.0281	
3.9581						
			7090.5516			
1101	1BF1	S82-26-31.49W	12411.8739	0.51	0.0274	
2.2037						
			12413.6935			
1101	MDOT	N85-47-44.61W	35209.4920	0.19	0.0290	
0.8227						
			35214.5728			
1102	1105	N54-15-52.63W	9532.8536	0.61	0.0274	
2.8716						
			9534.2442			
1102	1BF1	N62-14-56.09W	6087.0556	0.88	0.0246	
4.0417						
			6087.9456			
1102	MDOT	N75-57-58.25W	29065.1281	0.19	0.0249	
0.8577						
			29069.3095			
1103	1BF1	S62-36-02.49W	5973.0008	0.87	0.0245	
4.1081						
			5973.8734			
1103	MDOT	N87-01-00.52W	28151.8042	0.20	0.0245	
0.8711						
			28155.8504			
1104	1106	N64-00-24.41W	12887.9774	0.53	0.0308	
2.3904						
			12889.8329			
1104	1BF1	N58-20-13.51E	2957.0976	2.09	0.0285	
9.6409						
			2957.5277			
1104	MDOT	N74-08-18.93W	21097.0182	0.30	0.0276	
1.3089						
			21100.0360			
1105	1BF1	S40-42-06.08E	3605.3474	1.38	0.0243	
6.7529						
			3605.8717			
1105	MDOT	N85-51-39.75W	20513.0766	0.26	0.0239	
1.1665						
			20516.0088			

1106	1BF1	S73-48-09.24E	14684.1109	0.42	0.0273	1.8578
			14686.2288			
1106	MDOT	N89-13-32.51W	8710.2519	0.73	0.0276	3.1696
			8711.4871			
1107	1112	N50-15-22.42W	10327.3450	0.61	0.0287	2.7814
			10328.8088			
1107	1BF1	N74-41-00.59E	15302.7552	0.37	0.0254	1.6616
			15304.9603			
1107	MDOT	N44-16-52.62W	11532.0688	0.47	0.0256	2.2185
			11533.7039			
1108	1BF1	N79-56-36.05E	9508.0711	0.65	0.0275	2.8886
			9509.4470			
1108	MDOT	N66-24-18.92W	14675.6024	0.42	0.0279	1.9006
			14677.6915			
1109	1111	N03-37-59.75W	10233.9637	0.62	0.0321	3.1413
			10235.3829			
1109	1117	N52-27-35.78W	10438.0753	0.62	0.0299	2.8598
			10439.5112			
1109	1BC1	N44-14-50.45W	19615.0609	0.27	0.0244	1.2449
			19617.7550			
1109	MDOT	N35-33-37.44E	14960.7602	0.34	0.0258	1.7219
			14962.8511			
1110	1111	N21-56-33.69W	10896.0839	0.50	0.0265	2.4352
			10897.5985			
1110	1114	N29-28-25.96W	7419.7397	0.84	0.0300	4.0476
			7420.7706			
1110	1BC1	N50-49-12.46W	22072.2451	0.22	0.0227	1.0292
			22075.2844			
1110	MDOT	N23-37-38.44E	13167.8152	0.35	0.0238	1.8080
			13169.6608			
1111	1BC1	N73-35-56.43W	13591.0592	0.36	0.0223	1.6411
			13592.9262			
1111	MDOT	N78-10-33.45E	9551.7927	0.50	0.0226	2.3645
			9553.1275			
1112	1BF1	S83-33-50.87E	22843.9992	0.24	0.0246	1.0767
			22847.2726			

1112	MDOT	N03-49-46.63W	1656.9039	2.99	0.0257
15.4854					
			1657.1376		
1113	1114	N75-26-49.23W	9190.8629	0.71	0.0310
3.3783					
			9192.1455		
1113	1BC1	N66-20-26.06W	24406.3625	0.22	0.0256
1.0478					
			24409.7409		
1113	MDOT	N00-13-59.50E	7914.0027	0.66	0.0258
3.2546					
			7915.1181		
1114	1BC1	N60-55-14.19W	15400.1933	0.33	0.0241
1.5632					
			15402.3085		
1114	MDOT	N57-52-56.07E	10541.4894	0.48	0.0245
2.3267					
			10542.9624		
1115	1117	N24-58-14.86W	8689.7093	0.66	0.0280
3.2200					
			8690.8999		
1115	1118	N63-05-35.56W	12995.7573	0.55	0.0307
2.3647					
			12997.5223		
1115	1BC1	N30-14-51.89W	18021.8558	0.29	0.0244
1.3517					
			18024.3203		
1115	MDOT	N44-11-43.40E	19091.4833	0.26	0.0260
1.3605					
			19094.1390		
1116	1122	N72-06-53.88W	15929.7463	0.45	0.0311
1.9533					
			15931.8955		
1116	1123	N81-46-29.96W	20138.4407	0.38	0.0330
1.6367					
			20141.1430		
1116	1BC1	N28-57-26.66W	15140.7974	0.36	0.0256
1.6903					
			15142.8652		
1116	MDOT	N52-56-51.20E	18865.9100	0.28	0.0270
1.4312					
			18868.5305		
1117	1BC1	N35-07-24.21W	9403.0000	0.52	0.0229
2.4374					
			9404.2833		
1117	MDOT	N71-06-22.50E	17944.0422	0.27	0.0232
1.2934					
			17946.5323		
1118	1BC1	N14-31-45.46E	10007.2065	0.51	0.0265
2.6470					
			10008.5619		
1118	D_521	S26-22-07.10E	23846.9516	0.30	0.0337
1.4151					
			23850.2045		

1118	MDOT	N72-35-26.92E	26092.9593	0.20	0.0259	0.9938
			26096.5527			
1119	1124	N78-40-49.75W	19894.1451	0.39	0.0325	1.6360
			19896.7673			
1119	1BC1	N00-33-34.97E	16350.0544	0.32	0.0288	1.7625
			16352.2711			
1119	MDOT	N57-18-38.05E	26790.1426	0.21	0.0274	1.0219
			26793.8363			
1119	W519_8	N76-43-46.49W	29339.5207	0.33	0.0394	1.3429
			29343.3618			
1120	1123	N49-41-12.64W	15379.5043	0.48	0.0329	2.1421
			15381.5512			
1120	1125	N79-46-41.64W	19356.6439	0.38	0.0314	1.6207
			19359.1899			
1120	1BC1	N02-27-43.26E	20335.6384	0.26	0.0287	1.4093
			20338.3930			
1120	MDOT	N51-35-58.14E	29681.0832	0.19	0.0277	0.9332
			29685.1725			
1121	1BC1	N21-26-10.35E	20370.9698	0.29	0.0305	1.4981
			20373.7102			
1121	MDOT	N60-12-18.07E	34376.2552	0.18	0.0281	0.8162
			34380.9604			
1121	W519_4	N66-16-40.10W	23234.1324	0.43	0.0425	1.8307
			23237.1503			
1122	1BC1	N43-08-14.35E	11450.6573	0.45	0.0270	2.3541
			11452.1992			
1122	D_521	S35-01-46.99E	27718.2685	0.27	0.0335	1.2071
			27722.0295			
1122	MDOT	N77-54-15.92E	30902.5779	0.18	0.0258	0.8362
			30906.8126			
1123	1BC1	N50-33-18.77E	16317.1844	0.34	0.0278	1.7024
			16319.3694			
1123	MDOT	N76-21-56.99E	36002.4073	0.16	0.0265	0.7348
			36007.3155			
1124	1BC1	N57-40-33.38E	23273.3862	0.25	0.0280	1.2035
			23276.4711			

1124	D_521	S56-09-10.86E	33409.8584	0.23	0.0329	0.9853
			33414.3217			
1124	MDOT	N75-53-55.89E	43360.6029	0.14	0.0272	0.6268
			43366.4578			
1125	1127	N80-34-56.88E	15138.4685	0.48	0.0308	2.0318
			15140.4493			
1125	1BC1	N49-43-24.65E	26113.6449	0.21	0.0263	1.0074
			26117.1024			
1125	MDOT	N70-28-38.81E	44890.9011	0.12	0.0254	0.5666
			44896.9555			
1126	1BB1	N01-07-24.55W	20530.6086	0.32	0.0356	1.7321
			20533.2798			
1126	1BC1	N38-26-28.42E	29211.8015	0.19	0.0277	0.9485
			29215.6822			
1126	M519	N58-15-57.60E	37170.4373	0.20	0.0338	0.9090
			37175.4238			
1126	MDOT	N62-37-14.62E	45663.6138	0.13	0.0265	0.5802
			45669.7915			
1127	1BB1	N48-24-11.18W	18152.8469	0.39	0.0329	1.8145
			18155.2414			
1127	1BC1	N19-06-05.63E	15244.1306	0.33	0.0279	1.8279
			15246.1852			
1127	MDOT	N65-24-56.69E	30104.6637	0.19	0.0254	0.8454
			30108.7908			
1BB1	1BC1	N82-46-30.19E	18712.4395	0.30	0.0250	1.3342
			18714.9347			
1BB1	MDOT	N89-20-17.39E	40953.7401	0.14	0.0250	0.6103
			40959.3040			
1BC1	COSA	N62-46-54.14E	107574.2364	0.06	0.0289	0.2684
			107590.3092			
1BC1	D_521	S14-35-11.80E	32087.1993	0.17	0.0269	0.8392
			32091.6027			
1BC1	M519	S76-05-57.11E	13857.9673	0.40	0.0253	1.8266
			13859.8718			
1BC1	MDOT	S85-11-56.18E	22465.9705	0.11	0.0113	0.5025
			22469.0830			

1BC1	SRP1	N56-48-10.53W	11642.6186	0.51	0.0287	2.4650
			11644.2055			
1BC1	W519_4	S71-29-18.27W	30282.7308	0.29	0.0448	1.4809
			30286.7172			
1BC1	W519_8	S71-29-19.34W	30282.5896	0.27	0.0411	1.3570
			30286.5758			
1BF1	B_519	S63-49-53.17E	7958.7543	0.72	0.0258	3.2370
			7959.9199			
1BF1	C519	S84-58-12.76E	5497.5703	1.07	0.0254	4.6239
			5498.3734			
1BF1	D519	N86-00-14.30E	5423.9596	1.06	0.0252	4.6542
			5424.7519			
1BF1	MDOT	N79-32-01.54W	23196.6421	0.15	0.0149	0.6418
			23199.9668			
B_519	D519	N24-00-53.48W	4256.3271	1.52	0.0334	7.8448
			4256.9529			
B_519	MDOT	N75-32-27.31W	30933.4648	0.19	0.0259	0.8376
			30937.9226			
C519	MDOT	N80-34-28.41W	28674.2146	0.22	0.0269	0.9382
			28678.3369			
COSA	MDOT	S55-07-05.96W	89323.8203	0.07	0.0289	0.3233
			89337.3481			
COSA	SRP1	S67-53-13.99W	113773.6940	0.06	0.0326	0.2868
			113790.7338			
D519	MDOT	N82-15-35.47W	28480.9604	0.21	0.0260	0.9118
			28485.0549			
D_521	MDOT	N26-07-23.62E	32491.7035	0.16	0.0285	0.8756
			32496.2400			
M519	MDOT	N80-47-19.89E	9051.7548	0.62	0.0253	2.7992
			9053.0202			
MDOT	SRP1	N75-35-27.41W	33173.0955	0.18	0.0287	0.8657
			33177.6975			
MDOT	W519_4	S81-23-37.37W	51685.0049	0.18	0.0437	0.8453
			51691.9402			
MDOT	W519_8	S81-23-38.08W	51684.8928	0.17	0.0396	0.7671
			51691.8279			

Error Propagation

Station Coordinate Standard Deviations (FeetInt)

Station	N	E	Elev
1BC1	0.000000	0.000000	0.000000
MDOT	0.004868	0.004626	0.007661
1BF1	0.008271	0.007640	0.012289
1BB1	0.011235	0.010143	0.018093
B_519	0.012821	0.011498	0.018433
C519	0.013416	0.011970	0.019561
D519	0.012840	0.011593	0.018408
D_521	0.011342	0.010307	0.019190
M519	0.011114	0.010321	0.016324
W519_4	0.018434	0.017381	0.027835
W519_8	0.017486	0.015645	0.030508
SRP1	0.011776	0.011746	0.016267
COSA	0.011783	0.011762	0.016840
1113	0.010606	0.010437	0.017743
1126	0.011864	0.010437	0.018529
1121	0.012792	0.011167	0.018210
1127	0.011480	0.009994	0.016980
1125	0.011252	0.010164	0.015977
1124	0.012143	0.010771	0.017415
1119	0.011767	0.010399	0.017418
1123	0.011753	0.010505	0.017456
1120	0.011680	0.010395	0.017837
1122	0.010932	0.010238	0.017484
1118	0.010699	0.010270	0.020652
1116	0.011009	0.010255	0.018753
1115	0.010558	0.009629	0.021125
1117	0.009767	0.009201	0.017710
1109	0.010340	0.010161	0.019507
1111	0.009626	0.009188	0.015033
1110	0.009719	0.009317	0.015392
1114	0.010231	0.009820	0.015938
1103	0.012205	0.011050	0.018007
1101	0.014284	0.012711	0.022661
1100	0.012973	0.011338	0.019474
1105	0.011791	0.010813	0.016387
1102	0.012234	0.011108	0.017341
1104	0.013529	0.012076	0.018529
1106	0.013567	0.012187	0.018799
1108	0.013361	0.012162	0.019068
1107	0.012183	0.011072	0.017438
1112	0.011577	0.010815	0.015653

Station Coordinate Error Ellipses (FeetInt)

Confidence Region = 95

Station	Semi-Major Axis	Semi-Minor Axis	Azimuth of Major Axis	Elev

1BC1	0.000001	0.000001	0-00
0.000001			
MDOT	0.011984	0.011250	18-05
0.015016			
1BF1	0.020276	0.018665	8-14
0.024086			
1BB1	0.027547	0.024776	7-35
0.035461			
B_519	0.031395	0.028129	3-44
0.036129			
C519	0.032957	0.029165	10-31
0.038338			
D519	0.031488	0.028310	8-05
0.036079			
D_521	0.028376	0.024538	24-19
0.037612			
M519	0.027214	0.025253	4-05
0.031994			
W519_4	0.047328	0.040075	34-34
0.054555			
W519_8	0.044801	0.035936	29-39
0.059794			
SRP1	0.028877	0.028699	33-07
0.031883			
COSA	0.028907	0.028725	36-40
0.033006			
1113	0.025968	0.025539	7-37
0.034775			
1126	0.029041	0.025546	179-25
0.036317			
1121	0.031357	0.027280	173-39
0.035692			
1127	0.028112	0.024448	3-32
0.033281			
1125	0.027571	0.024846	6-04
0.031314			
1124	0.029856	0.026214	11-22
0.034132			
1119	0.028964	0.025269	12-28
0.034138			
1123	0.028957	0.025500	13-57
0.034212			
1120	0.028822	0.025182	15-06
0.034961			
1122	0.027204	0.024575	24-51
0.034268			
1118	0.026585	0.024718	27-55
0.040477			
1116	0.027440	0.024562	25-03
0.036755			
1115	0.026245	0.023122	21-37
0.041404			
1117	0.024105	0.022309	19-44
0.034711			

1109	0.025786	0.024377	35-55
0.038233			
1111	0.023747	0.022294	21-13
0.029463			
1110	0.023987	0.022598	22-25
0.030167			
1114	0.025096	0.023982	12-37
0.031237			
1103	0.029954	0.026961	9-33
0.035294			
1101	0.034986	0.031089	4-29
0.044415			
1100	0.031806	0.027694	6-40
0.038169			
1105	0.028870	0.026459	3-21
0.032119			
1102	0.029946	0.027189	0-22
0.033987			
1104	0.033117	0.029559	0-36
0.036317			
1106	0.033222	0.029817	176-26
0.036845			
1108	0.032723	0.029749	4-34
0.037372			
1107	0.029908	0.027005	10-17
0.034177			
1112	0.028425	0.026379	12-04
0.030680			

Relative Error Ellipses (FeetInt)
Confidence Region = 95

Stations		Semi-Major	Semi-Minor	Azimuth of	Vertical
From	To	Axis	Axis	Major Axis	
1100	1BF1	0.028124	0.024428	6-16	0.033182
1100	C519	0.031404	0.027432	7-28	0.037505
1100	MDOT	0.029474	0.025292	5-50	0.035092
1101	1103	0.032126	0.028059	7-43	0.040446
1101	1BF1	0.030939	0.027152	5-18	0.039070
1101	MDOT	0.032884	0.028965	3-34	0.041800
1102	1105	0.029151	0.026356	179-18	0.031590
1102	1BF1	0.026407	0.023995	178-14	0.028502
1102	MDOT	0.027476	0.024717	178-23	0.030490

1103	1BF1	0.026254	0.023505	9-38	0.029971
1103	MDOT	0.027459	0.024494	8-37	0.031940
1104	1106	0.033978	0.029757	176-54	0.036617
1104	1BF1	0.030842	0.027508	0-49	0.032703
1104	MDOT	0.030899	0.027304	179-16	0.033067
1105	1BF1	0.025190	0.023240	0-59	0.026152
1105	MDOT	0.026289	0.023922	1-20	0.028392
1106	1BF1	0.030101	0.026879	176-04	0.032668
1106	MDOT	0.031026	0.027568	174-46	0.033646
1107	1112	0.031174	0.027930	10-46	0.035105
1107	1BF1	0.027876	0.024873	9-28	0.031645
1107	MDOT	0.027408	0.024543	9-25	0.030702
1108	1BF1	0.030187	0.027307	3-10	0.033549
1108	MDOT	0.030466	0.027521	3-16	0.034223
1109	1111	0.032693	0.030138	24-22	0.044936
1109	1117	0.031495	0.029824	30-26	0.048545
1109	1BC1	0.025786	0.024377	35-55	0.038233
1109	MDOT	0.025762	0.024361	35-51	0.038189
1110	1111	0.027273	0.025804	23-38	0.034382
1110	1114	0.031102	0.028980	16-16	0.037728
1110	1BC1	0.023987	0.022598	22-25	0.030167
1110	MDOT	0.023809	0.022448	21-55	0.029722
1111	1BC1	0.023747	0.022294	21-13	0.029463
1111	MDOT	0.023592	0.022162	20-45	0.029043
1112	1BF1	0.026860	0.024579	11-21	0.029257
1112	MDOT	0.025779	0.023855	10-59	0.026754
1113	1114	0.031536	0.031048	11-29	0.042021

1113	1BC1	0.025968	0.025539	7-37
0.034775				
1113	MDOT	0.025761	0.025344	5-56
0.034269				
1114	1BC1	0.025096	0.023982	12-37
0.031237				
1114	MDOT	0.025074	0.023970	12-48
0.031082				
1115	1117	0.029578	0.026218	19-29
0.044366				
1115	1118	0.034371	0.030719	23-42
0.055320				
1115	1BC1	0.026245	0.023122	21-37
0.041404				
1115	MDOT	0.026405	0.023268	21-49
0.041771				
1116	1122	0.035086	0.031068	23-57
0.046079				
1116	1123	0.037449	0.032764	19-39
0.047681				
1116	1BC1	0.027440	0.024562	25-03
0.036755				
1116	MDOT	0.027572	0.024697	25-51
0.037145				
1117	1BC1	0.024105	0.022309	19-44
0.034711				
1117	MDOT	0.024206	0.022467	21-22
0.035221				
1118	1BC1	0.026585	0.024718	27-55
0.040477				
1118	D_521	0.036224	0.032273	26-49
0.052928				
1118	MDOT	0.026853	0.024923	28-22
0.041082				
1119	1124	0.037784	0.032530	8-11
0.043541				
1119	1BC1	0.028964	0.025269	12-28
0.034138				
1119	MDOT	0.029128	0.025407	13-02
0.034430				
1119	W519_8	0.047561	0.038795	27-46
0.063198				
1120	1123	0.036680	0.031844	12-41
0.044238				
1120	1125	0.035403	0.031349	14-18
0.042381				
1120	1BC1	0.028822	0.025182	15-06
0.034961				
1120	MDOT	0.028941	0.025275	15-06
0.035202				
1121	1BC1	0.031357	0.027280	173-39
0.035692				
1121	MDOT	0.031438	0.027363	173-51
0.035859				

1121	W519_4	0.048872	0.042534	24-10	0.058102
1122	1BC1	0.027204	0.024575	24-51	0.034268
1122	D_521	0.036811	0.032325	25-36	0.048728
1122	MDOT	0.027469	0.024801	25-49	0.034905
1123	1BC1	0.028957	0.025500	13-57	0.034212
1123	MDOT	0.029161	0.025661	14-03	0.034640
1124	1BC1	0.029856	0.026214	11-22	0.034132
1124	D_521	0.037633	0.032555	18-53	0.046706
1124	MDOT	0.030107	0.026452	11-39	0.034590
1125	1127	0.035057	0.030659	178-54	0.039288
1125	1BC1	0.027571	0.024846	6-04	0.031314
1125	MDOT	0.027652	0.024897	6-10	0.031498
1126	1BB1	0.035562	0.031566	178-53	0.045761
1126	1BC1	0.029041	0.025546	179-25	0.036317
1126	M519	0.036617	0.032345	2-56	0.044791
1126	MDOT	0.029199	0.025736	179-45	0.036709
1127	1BB1	0.036026	0.031494	8-08	0.046007
1127	1BC1	0.028112	0.024448	3-32	0.033281
1127	MDOT	0.028327	0.024550	3-45	0.033725
1BB1	1BC1	0.027547	0.024776	7-35	0.035461
1BB1	MDOT	0.027733	0.024926	8-10	0.035772
1BC1	COSA	0.028907	0.028725	36-40	0.033006
1BC1	D_521	0.028376	0.024538	24-19	0.037612
1BC1	M519	0.027214	0.025253	4-05	0.031994
1BC1	MDOT	0.011984	0.011250	18-05	0.015016
1BC1	SRP1	0.028877	0.028699	33-07	0.031883
1BC1	W519_4	0.047328	0.040075	34-34	0.054555

1BC1	W519_8	0.044801	0.035936	29-39
0.059794				
1BF1	B_519	0.028289	0.025209	1-44
0.031322				
1BF1	C519	0.028571	0.025392	10-13
0.032443				
1BF1	D519	0.027855	0.025143	6-50
0.030453				
1BF1	MDOT	0.016376	0.014871	4-43
0.018832				
B_519	D519	0.034244	0.030365	4-40
0.036576				
B_519	MDOT	0.029037	0.025759	2-25
0.032861				
C519	MDOT	0.030707	0.026902	9-56
0.035275				
COSA	MDOT	0.028908	0.028726	33-16
0.033576				
COSA	SRP1	0.032644	0.032485	53-32
0.034269				
D519	MDOT	0.029128	0.025968	7-07
0.032806				
D_521	MDOT	0.028454	0.024612	24-23
0.037734				
M519	MDOT	0.027183	0.025232	3-58
0.031942				
MDOT	SRP1	0.028890	0.028706	30-00
0.032624				
MDOT	W519_4	0.047387	0.040027	35-02
0.054440				
MDOT	W519_8	0.044936	0.035945	29-45
0.059818				

Elapsed Time = 00:00:00

□24
47
01 00000001 Top of File
01 00000005 Summary of Files Used and Option Settings
02 00000008 Project Folder and Data Files
02 00000015 Project Option Settings
01 00000036 Summary of Unadjusted Input Observations
02 00000039 Entered Stations
03 00000042 Fixed Positions
03 00000045 Free Positions
02 00000059 GPS Vector Observations
01 00000950 Adjustment Statistical Summary
01 00000970 Adjusted Station Information
02 00000973 Coordinate Changes from Entered Provisionals
02 00000991 Adjusted Coordinates
02 00001036 Adjusted Positions and Ellipsoid Heights
02 00001082 Convergence Angles and Grid Factors at Stations
01 00001131 Adjusted Observations and Residuals

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02 00001134 Adjusted GPS Vector Observations
02 00002201 GPS Vector Residual Summary
01 00002383 Adjusted Bearings and Horizontal Distances
01 00002602 Error Propagation
02 00002605 Station Coordinate Standard Deviations
02 00002650 Station Coordinate Error Ellipses
02 00002697 Relative Error Ellipses
01 00002808 End of File
0002B437
STAR*NET
00041C90
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SECTION 2.6

MICROSURVEY STAR*NET-PRO CONSTRAINED NETWORK ADJUSTMENT REPORT

MicroSurvey STAR*NET-PRO Version 7.0.0.42
Run Date: Fri Mar 29 2013 13:02:13

Summary of Files Used and Option Settings

Project Folder and Data Files

Project Name	131765_C
Project Folder	C:\DOCUMENTS AND SETTINGS\...\131765_C
Data File List	1. 131765.gps
	2. 131765_c.dat

Project Option Settings

STAR*NET Run Mode	: Adjust with Error Propagation
Type of Adjustment	: 3D
Project Units	: FeetInt; DMS
Coordinate System	: Mercator NAD83; AZ Central
0202	
Geoid Height Model	: G2009U05.GHT
Longitude Sign Convention	: Positive West
Input/Output Coordinate Order	: North-East
Angle Data Station Order	: At-From-To
Distance/Vertical Data Type	: Slope/Zenith
Convergence Limit; Max Iterations	: 0.010000; 10
Default Coefficient of Refraction	: 0.070000
Create Coordinate File	: Yes
Create Geodetic Position File	: No
Create Ground Scale Coordinate File	: No
Create Dump File	: Yes
GPS Vector Standard Error Factors	: None
GPS Vector Centering (Meters)	: 0.00400
GPS Vector Transformations	: None

Summary of Unadjusted Input Observations

Number of Entered Stations (FeetInt) = 12
(Elevations Marked with (*) are Ellipsoid Heights)

Fixed Stations Description	Latitude	Longitude	Elev
1BC1	33-25-59.450560	112-11-44.808460	1028.8000
MDOT	33-25-41.362850	112-07-20.582890	1048.8200
1BB1	33-25-35.619040	112-15-23.780060	996.1300
1BF1	33-25-00.034970	112-02-51.355100	1092.3700

Partially Fixed Description	Latitude	Longitude	Elev
	N-StdErr	E-StdErr	StdErr
W519	33-24-23.400000	112-17-23.300000	975.2400
	FREE	FREE	FIXED
D_521	33-20-52.400000	112-10-08.600000	1039.4300
	FREE	FREE	FIXED
C519	33-24-55.400000	112-01-46.700000	1099.6900
	FREE	FREE	FIXED
D519	33-25-03.900000	112-01-47.600000	1099.8900
	FREE	FREE	FIXED
B_519	33-24-25.400000	112-01-27.100000	1110.9300
	FREE	FREE	FIXED

Free Stations Description	Latitude	Longitude	Elev
M519	33-25-26.800000	112-09-06.100000	1032.1700
SRP1	33-27-02.247870	112-13-40.000180	977.4300*
COSA	33-34-07.378060	111-52-55.734710	1286.7000*

Number of GPS Vector Observations (FeetInt) = 175

From HI To HT	DeltaX DeltaY DeltaZ	StdErrX StdErrY StdErrZ	CorrelXY CorrelXZ CorrelYZ
(V1001 PostProcessed 26-MAR-2013 14:58:34.0 131765 vector processing.asc)			
1BC1	20354.0853	0.0201	0.2065
0.000			
MDOT	-9395.5994	0.0251	-0.1627
0.000			
	-1514.5358	0.0223	-0.3529
(V1002 PostProcessed 26-MAR-2013 22:14:29.0 131765 vector processing.asc)			
1BC1	18699.0308	0.0270	0.3595
0.000			
1113	-13422.9770	0.0411	-0.2748
0.000			
	-8124.3802	0.0283	-0.4837

```
(V1003 PostProcessed 26-MAR-2013 15:21:24.0 131765 vector processing.asc)
1BC1                      18698.9728        0.0254        0.3462
0.000
1113                     -13423.0833        0.0314       -0.2644
0.000
                          -8124.3005        0.0301       -0.3995

(V1004 PostProcessed 26-MAR-2013 19:48:34.0 131765 vector processing.asc)
1BC1                     -17671.8215        0.0305        0.5593
0.000
1BB1                       5817.3081        0.0435       -0.2704
0.000
                          -2028.5856        0.0264       -0.3510

(V1005 PostProcessed 26-MAR-2013 15:49:14.0 131765 vector processing.asc)
1BC1                     -17671.8514        0.0239        0.2840
0.000
1BB1                       5817.2182        0.0296       -0.2182
0.000
                          -2028.5604        0.0273       -0.2945

(V1006 PostProcessed 26-MAR-2013 15:51:49.0 131765 vector processing.asc)
1BC1                     -21508.8776        0.0267        0.3854
0.000
1126                      -4798.5499        0.0373       -0.3206
0.000
                         -19180.7838        0.0325       -0.4033

(V1007 PostProcessed 26-MAR-2013 19:21:39.0 131765 vector processing.asc)
1BC1                     -21508.8720        0.0262        0.3536
0.000
1126                      -4798.6145        0.0342       -0.1194
0.000
                         -19180.7579        0.0264       -0.1992

(V1008 PostProcessed 26-MAR-2013 20:08:24.0 131765 vector processing.asc)
1BC1                     -28560.8652        0.0335        0.5697
0.000
W519                       5953.7162        0.0449       -0.2864
0.000
                          -8130.6841        0.0288       -0.4054

(V1009 PostProcessed 26-MAR-2013 16:09:49.0 131765 vector processing.asc)
1BC1                     -28561.0515        0.0381        0.5216
0.000
W519                       5953.5253        0.0420       -0.2485
0.000
                          -8130.7451        0.0322       -0.2641

(V1010 PostProcessed 26-MAR-2013 16:10:39.0 131765 vector processing.asc)
1BC1                     -10782.4580        0.0249        0.2967
0.000
```

```
1121                        -6851.9416          0.0346         -0.2198
0.000
                           -15870.7136          0.0279         -0.2075

(V1011 PostProcessed 26-MAR-2013 19:37:04.0 131765 vector processing.asc)
1BC1                       -10782.4721          0.0261          0.3649
0.000
1121                        -6852.0246          0.0337         -0.1613
0.000
                           -15870.6421          0.0256         -0.2044

(V1012 PostProcessed 26-MAR-2013 19:52:54.0 131765 vector processing.asc)
1BC1                        -7570.2221          0.0324          0.6214
0.000
1127                        -5449.6237          0.0442         -0.3672
0.000
                           -12059.8757          0.0275         -0.4188

(V1013 PostProcessed 26-MAR-2013 16:28:09.0 131765 vector processing.asc)
1BC1                        -7570.2520          0.0234          0.2359
0.000
1127                        -5449.6781          0.0287         -0.1338
0.000
                           -12059.8593          0.0241         -0.0956

(V1014 PostProcessed 26-MAR-2013 20:26:14.0 131765 vector processing.asc)
1BC1                       -21905.7759          0.0286          0.4173
0.000
1125                        -1064.9455          0.0386         -0.1966
0.000
                           -14181.3104          0.0306         -0.4090

(V1015 PostProcessed 26-MAR-2013 16:28:29.0 131765 vector processing.asc)
1BC1                       -21905.8068          0.0249          0.2394
0.000
1125                        -1065.0161          0.0298         -0.1554
0.000
                           -14181.3054          0.0261         -0.1172

(V1016 PostProcessed 26-MAR-2013 20:41:04.0 131765 vector processing.asc)
1BC1                       -20758.5951          0.0268          0.3406
0.000
1124                         1100.2349          0.0336         -0.1514
0.000
                           -10472.2388          0.0315         -0.3839

(V1017 PostProcessed 26-MAR-2013 16:45:34.0 131765 vector processing.asc)
1BC1                       -20758.6312          0.0265          0.3380
0.000
1124                         1100.1450          0.0340         -0.1416
0.000
                           -10472.2238          0.0252         -0.0905

(V1018 PostProcessed 26-MAR-2013 20:11:14.0 131765 vector processing.asc)
```

```
1BC1                        -3499.5463          0.0279          0.4720
0.000
1119                        -8270.5023          0.0370         -0.2281
0.000
                           -13665.6030          0.0259         -0.3483

(V1019 PostProcessed 26-MAR-2013 16:47:09.0 131765 vector processing.asc)
1BC1                        -3499.6135          0.0255          0.3487
0.000
1119                        -8270.5607          0.0330         -0.1302
0.000
                           -13665.5928          0.0238         -0.0869

(V1020 PostProcessed 26-MAR-2013 17:02:19.0 131765 vector processing.asc)
1BC1                       -13793.0873          0.0308          0.5422
0.000
1123                         -520.0249          0.0423         -0.2527
0.000
                            -8706.5492          0.0267         -0.2401

(V1021 PostProcessed 26-MAR-2013 20:56:04.0 131765 vector processing.asc)
1BC1                       -13793.0951          0.0238          0.2265
0.000
1123                         -520.0617          0.0272         -0.1011
0.000
                            -8706.4767          0.0280         -0.3013

(V1022 PostProcessed 26-MAR-2013 17:03:14.0 131765 vector processing.asc)
1BC1                        -4975.4948          0.0331          0.5726
0.000
1120                       -10026.1657          0.0462         -0.2725
0.000
                           -16981.5253          0.0286         -0.2750

(V1023 PostProcessed 26-MAR-2013 20:27:34.0 131765 vector processing.asc)
1BC1                        -4975.4764          0.0257          0.3207
0.000
1120                       -10026.2152          0.0310         -0.1264
0.000
                           -16981.4675          0.0267         -0.2872

(V1024 PostProcessed 26-MAR-2013 21:08:54.0 131765 vector processing.asc)
1BC1                        -8962.2142          0.0228          0.2323
0.000
1122                        -1297.4281          0.0300         -0.1660
0.000
                            -7010.6234          0.0334         -0.5128

(V1025 PostProcessed 26-MAR-2013 17:18:14.0 131765 vector processing.asc)
1BC1                        -8962.2503          0.0252          0.3703
0.000
1122                        -1297.4810          0.0285         -0.1987
0.000
                            -7010.6293          0.0242         -0.2484
```

```
(V1026 PostProcessed 26-MAR-2013 17:25:54.0 131765 vector processing.asc)
1BC1                        1104.7877         0.0380         0.6650
0.000
D_521                     -18906.4816         0.0465        -0.4580
0.000
                          -25907.4564         0.0342        -0.5245

(V1027 PostProcessed 26-MAR-2013 20:45:44.0 131765 vector processing.asc)
1BC1                        1104.7897         0.0253         0.3674
0.000
D_521                     -18906.5515         0.0300        -0.1799
0.000
                          -25907.3796         0.0297        -0.3226

(V1028 PostProcessed 26-MAR-2013 21:24:59.0 131765 vector processing.asc)
1BC1                       -4309.9885         0.0246         0.3629
0.000
1118                       -3985.8327         0.0401        -0.3309
0.000
                           -8106.0988         0.0443        -0.7229

(V1029 PostProcessed 26-MAR-2013 17:33:39.0 131765 vector processing.asc)
1BC1                       -4310.0430         0.0250         0.3699
0.000
1118                       -3985.8871         0.0273        -0.2915
0.000
                           -8106.0784         0.0257        -0.3985

(V1030 PostProcessed 26-MAR-2013 17:44:49.0 131765 vector processing.asc)
1BC1                        4074.0112         0.0312         0.5985
0.000
1116                       -9516.1470         0.0394        -0.4672
0.000
                          -11052.2490         0.0337        -0.5858

(V1031 PostProcessed 26-MAR-2013 21:03:54.0 131765 vector processing.asc)
1BC1                        4074.0013         0.0235         0.2210
0.000
1116                       -9516.2090         0.0272        -0.1318
0.000
                          -11052.1677         0.0295        -0.3741

(V1032 PostProcessed 26-MAR-2013 21:32:39.0 131765 vector processing.asc)
1BC1                        5216.5341         0.0274         0.4377
0.000
1115                      -11359.5591         0.0464        -0.4085
0.000
                          -12985.5384         0.0478        -0.7576

(V1033 PostProcessed 26-MAR-2013 18:31:24.0 131765 vector processing.asc)
1BC1                        5216.4846         0.0248         0.3365
0.000
```

```
1115                        -11359.6293          0.0323         -0.2783
0.000
                            -12985.5052          0.0346         -0.5822

(V1034 PostProcessed 26-MAR-2013 21:38:59.0 131765 vector processing.asc)
1BC1                          3435.1864          0.0240          0.3572
0.000
1117                         -5957.6293          0.0322         -0.3279
0.000
                             -6414.5627          0.0309         -0.5591

(V1035 PostProcessed 26-MAR-2013 18:34:14.0 131765 vector processing.asc)
1BC1                          3435.1864          0.0225          0.2614
0.000
1117                         -5957.6680          0.0275         -0.1618
0.000
                             -6414.5384          0.0305         -0.3913

(V1036 PostProcessed 26-MAR-2013 21:45:24.0 131765 vector processing.asc)
1BC1                          9795.7585          0.0315          0.5543
0.000
1109                        -12325.4222          0.0446         -0.5132
0.000
                            -11703.9911          0.0393         -0.6906

(V1037 PostProcessed 26-MAR-2013 18:44:59.0 131765 vector processing.asc)
1BC1                          9795.7244          0.0245          0.2907
0.000
1109                        -12325.4688          0.0296         -0.1956
0.000
                            -11703.9682          0.0281         -0.4311

(V1038 PostProcessed 26-MAR-2013 21:55:24.0 131765 vector processing.asc)
1BC1                         11292.0686          0.0280          0.4772
0.000
1111                         -6868.5269          0.0378         -0.4384
0.000
                             -3174.8340          0.0318         -0.5957

(V1039 PostProcessed 26-MAR-2013 18:52:34.0 131765 vector processing.asc)
1BC1                         11292.0679          0.0230          0.2339
0.000
1111                         -6868.5837          0.0265         -0.0793
0.000
                             -3174.8156          0.0261         -0.2371

(V1040 PostProcessed 26-MAR-2013 21:58:14.0 131765 vector processing.asc)
1BC1                         12989.0902          0.0306          0.4944
0.000
1110                        -13560.5069          0.0431         -0.4504
0.000
                            -11606.6506          0.0342         -0.6179

(V1041 PostProcessed 26-MAR-2013 18:58:04.0 131765 vector processing.asc)
```

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1BC1                        12989.0620          0.0250          0.2927
0.000
1110                       -13560.5771          0.0300         -0.1012
0.000
                           -11606.6056          0.0281         -0.2697

(V1042 PostProcessed 26-MAR-2013 22:08:34.0 131765 vector processing.asc)
1BC1                        10933.4892          0.0261          0.3713
0.000
1114                        -8887.6903          0.0365         -0.3097
0.000
                            -6220.8061          0.0275         -0.4842

(V1043 PostProcessed 26-MAR-2013 19:05:24.0 131765 vector processing.asc)
1BC1                        10933.4862          0.0241          0.2846
0.000
1114                        -8887.7385          0.0297         -0.1146
0.000
                            -6220.7956          0.0262         -0.2047

(V1044 PostProcessed 26-MAR-2013 22:26:29.0 131765 vector processing.asc)
1BC1                        11780.0276          0.0238          0.2810
0.000
M519                        -6765.2677          0.0337         -0.1811
0.000
                            -2749.1716          0.0241         -0.3560

(V1045 PostProcessed 26-MAR-2013 19:25:04.0 131765 vector processing.asc)
1BC1                        11779.9833          0.0239          0.3106
0.000
M519                        -6765.3760          0.0301         -0.1027
0.000
                            -2749.1237          0.0236         -0.1645

(V1046 PostProcessed 27-MAR-2013 14:31:59.0 131765 vector processing.asc)
MDOT                        20267.4019          0.0206          0.2779
0.000
1BF1                       -10746.3783          0.0262         -0.2146
0.000
                            -3462.4347          0.0229         -0.3865

(V1047 PostProcessed 27-MAR-2013 14:52:14.0 131765 vector processing.asc)
MDOT                        25748.0154          0.0243          0.3513
0.000
1103                       -11333.6204          0.0307         -0.2491
0.000
                            -1159.1286          0.0284         -0.3864

(V1048 PostProcessed 27-MAR-2013 18:29:29.0 131765 vector processing.asc)
MDOT                        25747.9879          0.0254          0.3042
0.000
1103                       -11333.7119          0.0314         -0.1511
0.000
                            -1159.0417          0.0343         -0.3809
```

```
(V1049 PostProcessed 27-MAR-2013 15:03:34.0 131765 vector processing.asc)
MDOT                        32007.6388          0.0451          0.6036
0.000
1101                       -14534.8323          0.0659         -0.6058
0.000
                            -2078.7047          0.0602         -0.6464

(V1050 PostProcessed 27-MAR-2013 18:43:14.0 131765 vector processing.asc)
MDOT                        25244.2795          0.0274          0.3886
0.000
C519                       -13050.3825          0.0363         -0.1457
0.000
                            -3855.3379          0.0358         -0.3811

(V1051 PostProcessed 27-MAR-2013 18:47:54.0 131765 vector processing.asc)
MDOT                        31232.2290          0.0300          0.4666
0.000
1100                       -17268.7910          0.0410         -0.3010
0.000
                            -6343.8392          0.0538         -0.4660

(V1052 PostProcessed 27-MAR-2013 15:19:54.0 131765 vector processing.asc)
MDOT                        31232.2392          0.0261          0.3687
0.000
1100                       -17268.8301          0.0321         -0.3036
0.000
                            -6343.8015          0.0325         -0.4463

(V1053 PostProcessed 27-MAR-2013 19:00:19.0 131765 vector processing.asc)
MDOT                        25360.1808          0.0297          0.4603
0.000
D519                       -12586.4573          0.0473         -0.1656
0.000
                            -3137.3878          0.0332         -0.3782

(V1054 PostProcessed 27-MAR-2013 15:30:59.0 131765 vector processing.asc)
MDOT                        25360.1342          0.0289          0.3778
0.000
D519                       -12586.5646          0.0372         -0.2741
0.000
                            -3137.3173          0.0351         -0.4024

(V1055 PostProcessed 27-MAR-2013 15:39:34.0 131765 vector processing.asc)
MDOT                        26163.8533          0.0289          0.4802
0.000
B_519                      -15230.3474          0.0401         -0.4022
0.000
                            -6375.6053          0.0352         -0.5043

(V1056 PostProcessed 27-MAR-2013 19:03:29.0 131765 vector processing.asc)
MDOT                        26163.8392          0.0258          0.2996
0.000
```

```
B_519                      -15230.4304        0.0308        -0.1166
0.000
                            -6375.5433        0.0293        -0.2181

(V1057 PostProcessed 27-MAR-2013 19:18:14.0 131765 vector processing.asc)
MDOT                        18652.6788        0.0279         0.4612
0.000
1105                        -8459.9177        0.0393        -0.1537
0.000
                            -1189.2661        0.0268        -0.2384

(V1058 PostProcessed 27-MAR-2013 15:48:14.0 131765 vector processing.asc)
MDOT                        18652.6496        0.0239         0.2579
0.000
1105                        -8459.9902        0.0290        -0.1994
0.000
                            -1189.2067        0.0272        -0.2572

(V1059 PostProcessed 27-MAR-2013 15:52:39.0 131765 vector processing.asc)
MDOT                        24676.4167        0.0255         0.3440
0.000
1102                       -14221.9925        0.0351        -0.2801
0.000
                            -5816.9596        0.0302        -0.3429

(V1060 PostProcessed 27-MAR-2013 19:16:04.0 131765 vector processing.asc)
MDOT                        24676.3786        0.0292         0.3453
0.000
1102                       -14222.0968        0.0377        -0.1115
0.000
                            -5816.9232        0.0302        -0.2029

(V1061 PostProcessed 27-MAR-2013 16:08:24.0 131765 vector processing.asc)
MDOT                        17616.5525        0.0252         0.2864
0.000
1104                       -10590.9268        0.0356        -0.1891
0.000
                            -4764.7008        0.0291        -0.2190

(V1062 PostProcessed 27-MAR-2013 19:32:04.0 131765 vector processing.asc)
MDOT                        17616.5151        0.0264         0.3566
0.000
1104                       -10590.9721        0.0341        -0.1135
0.000
                            -4764.6969        0.0271        -0.2120

(V1063 PostProcessed 27-MAR-2013 16:09:14.0 131765 vector processing.asc)
MDOT                         8044.8087        0.0225         0.2441
0.000
1106                        -3341.4508        0.0290        -0.1544
0.000
                              -76.8934        0.0239        -0.1496

(V1064 PostProcessed 27-MAR-2013 19:49:19.0 131765 vector processing.asc)
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```
MDOT                        11252.1056          0.0310          0.6019
0.000
1108                        -8068.5062          0.0443         -0.3338
0.000
                            -4870.7713          0.0262         -0.4174

(V1065 PostProcessed 27-MAR-2013 16:24:09.0 131765 vector processing.asc)
MDOT                        11252.0801          0.0233          0.2308
0.000
1108                        -8068.5604          0.0287         -0.1291
0.000
                            -4870.7628          0.0239         -0.0929

(V1066 PostProcessed 27-MAR-2013 20:05:09.0 131765 vector processing.asc)
MDOT                         5762.8806          0.0259          0.4317
0.000
1107                        -7250.1381          0.0334         -0.2009
0.000
                            -6873.9364          0.0240         -0.3049

(V1067 PostProcessed 27-MAR-2013 16:39:29.0 131765 vector processing.asc)
MDOT                         5762.8533          0.0235          0.2923
0.000
1107                        -7250.1768          0.0295         -0.1016
0.000
                            -6873.9016          0.0223         -0.0635

(V1068 PostProcessed 27-MAR-2013 20:05:24.0 131765 vector processing.asc)
MDOT                         -236.8907          0.0207          0.2001
0.000
1112                         -885.3478          0.0234         -0.0774
0.000
                            -1380.6129          0.0201         -0.1365

(V1069 PostProcessed 27-MAR-2013 16:47:14.0 131765 vector processing.asc)
MDOT                         -236.9272          0.0206          0.1805
0.000
1112                         -885.3776          0.0233         -0.0534
0.000
                            -1380.6115          0.0198         -0.0433

(V1070 PostProcessed 26-MAR-2013 22:14:29.0 131765 vector processing.asc)
MDOT                        -1655.0843          0.0227          0.2551
0.000
1113                        -4027.4524          0.0308         -0.1763
0.000
                            -6609.7963          0.0234         -0.3490

(V1071 PostProcessed 26-MAR-2013 15:21:24.0 131765 vector processing.asc)
MDOT                        -1655.1073          0.0236          0.3339
0.000
1113                        -4027.4806          0.0296         -0.2595
0.000
                            -6609.7740          0.0276         -0.3929
```

```
(V1072 PostProcessed 26-MAR-2013 19:48:34.0 131765 vector processing.asc)
MDOT                      -38025.9347          0.0358          0.6382
0.000
1BB1                       15212.9344          0.0522         -0.3315
0.000
                            -514.0194          0.0294         -0.4134

(V1073 PostProcessed 26-MAR-2013 15:49:14.0 131765 vector processing.asc)
MDOT                      -38025.9820          0.0255          0.3142
0.000
1BB1                       15212.7828          0.0312         -0.2085
0.000
                            -513.9724          0.0280         -0.2816

(V1074 PostProcessed 26-MAR-2013 15:51:49.0 131765 vector processing.asc)
MDOT                      -41862.9738          0.0315          0.4606
0.000
1126                        4597.0630          0.0466         -0.3917
0.000
                          -17666.2444          0.0402         -0.4560

(V1075 PostProcessed 26-MAR-2013 19:21:39.0 131765 vector processing.asc)
MDOT                      -41862.9728          0.0289          0.3769
0.000
1126                        4596.9820          0.0362         -0.1840
0.000
                          -17666.1952          0.0284         -0.3030

(V1076 PostProcessed 26-MAR-2013 20:08:24.0 131765 vector processing.asc)
MDOT                      -48915.0610          0.0348          0.5818
0.000
W519                       15349.2106          0.0451         -0.1903
0.000
                           -6616.1437          0.0288         -0.3555

(V1077 PostProcessed 26-MAR-2013 16:09:49.0 131765 vector processing.asc)
MDOT                      -48915.1713          0.0421          0.6005
0.000
W519                       15349.0689          0.0392         -0.2275
0.000
                           -6616.2037          0.0289         -0.2161

(V1078 PostProcessed 26-MAR-2013 16:10:39.0 131765 vector processing.asc)
MDOT                      -31136.5650          0.0262          0.3231
0.000
1121                        2543.6266          0.0374         -0.2436
0.000
                          -14356.1713          0.0297         -0.2232

(V1079 PostProcessed 26-MAR-2013 19:37:04.0 131765 vector processing.asc)
MDOT                      -31136.5827          0.0272          0.3837
0.000
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```
1121                        2543.5538         0.0359        -0.1738
0.000
                          -14356.1079         0.0268        -0.2188

(V1080 PostProcessed 26-MAR-2013 19:52:54.0 131765 vector processing.asc)
MDOT                      -27924.2986         0.0384         0.6866
0.000
1127                        3946.0049         0.0539        -0.4299
0.000
                          -10545.3540         0.0317        -0.4759

(V1081 PostProcessed 26-MAR-2013 16:28:09.0 131765 vector processing.asc)
MDOT                      -27924.3379         0.0249         0.3674
0.000
1127                        3945.9029         0.0328        -0.1639
0.000
                          -10545.3169         0.0264        -0.1426

(V1082 PostProcessed 26-MAR-2013 20:26:14.0 131765 vector processing.asc)
MDOT                      -42259.9045         0.0291         0.4255
0.000
1125                        8330.6033         0.0395        -0.2004
0.000
                          -12666.7385         0.0311        -0.4160

(V1083 PostProcessed 26-MAR-2013 16:28:29.0 131765 vector processing.asc)
MDOT                      -42259.9252         0.0252         0.2469
0.000
1125                        8330.5453         0.0304        -0.1600
0.000
                          -12666.7523         0.0265        -0.1212

(V1084 PostProcessed 26-MAR-2013 20:41:04.0 131765 vector processing.asc)
MDOT                      -41112.7205         0.0277         0.3566
0.000
1124                       10495.8320         0.0351        -0.1582
0.000
                           -8957.6808         0.0328        -0.4002

(V1085 PostProcessed 26-MAR-2013 16:45:34.0 131765 vector processing.asc)
MDOT                      -41112.7559         0.0342         0.3252
0.000
1124                       10495.6975         0.0421        -0.2010
0.000
                           -8957.6302         0.0348        -0.1402

(V1086 PostProcessed 26-MAR-2013 20:11:14.0 131765 vector processing.asc)
MDOT                      -23853.6381         0.0310         0.5271
0.000
1119                        1125.0732         0.0425        -0.2659
0.000
                          -12151.0682         0.0285        -0.3938

(V1087 PostProcessed 26-MAR-2013 16:47:09.0 131765 vector processing.asc)
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```
MDOT                        -23853.7011          0.0273          0.3690
0.000
1119                          1124.9931          0.0333         -0.1585
0.000
                            -12151.0427          0.0254         -0.1247

(V1088 PostProcessed 26-MAR-2013 17:02:19.0 131765 vector processing.asc)
MDOT                        -34147.1995          0.0356          0.5994
0.000
1123                          8875.5446          0.0503         -0.2945
0.000
                             -7191.9918          0.0301         -0.2744

(V1089 PostProcessed 26-MAR-2013 20:56:04.0 131765 vector processing.asc)
MDOT                        -34147.2188          0.0260          0.2836
0.000
1123                          8875.4987          0.0306         -0.1270
0.000
                             -7191.9134          0.0309         -0.3445

(V1090 PostProcessed 26-MAR-2013 17:03:14.0 131765 vector processing.asc)
MDOT                        -25329.5804          0.0354          0.6009
0.000
1120                           -630.5741         0.0501         -0.2968
0.000
                            -15466.9833          0.0300         -0.2851

(V1091 PostProcessed 26-MAR-2013 20:27:34.0 131765 vector processing.asc)
MDOT                        -25329.5715          0.0269          0.3505
0.000
1120                           -630.6385         0.0330         -0.1404
0.000
                            -15466.9186          0.0279         -0.3065

(V1092 PostProcessed 26-MAR-2013 21:08:54.0 131765 vector processing.asc)
MDOT                        -29316.3343          0.0273          0.3303
0.000
1122                          8098.1457          0.0401         -0.2295
0.000
                             -5496.0545          0.0461         -0.6400

(V1093 PostProcessed 26-MAR-2013 17:18:14.0 131765 vector processing.asc)
MDOT                        -29316.3615          0.0287          0.3917
0.000
1122                          8098.0863          0.0304         -0.2796
0.000
                             -5496.0682          0.0285         -0.3956

(V1094 PostProcessed 26-MAR-2013 17:25:54.0 131765 vector processing.asc)
MDOT                        -19249.2844          0.0380          0.6658
0.000
D_521                        -9510.8704          0.0466         -0.4591
0.000
                            -24392.9278          0.0342         -0.5253
```

(V1095 PostProcessed 26-MAR-2013 20:45:44.0 131765 vector processing.asc)

MDOT	-19249.2963	0.0253	0.3678
0.000			
D_521	-9510.9452	0.0300	-0.1803
0.000			
	-24392.8284	0.0298	-0.3230

(V1096 PostProcessed 26-MAR-2013 21:24:59.0 131765 vector processing.asc)

MDOT	-24664.1145	0.0287	0.4440
0.000			
1118	5409.7726	0.0516	-0.4009
0.000			
	-6591.5768	0.0576	-0.7933

(V1097 PostProcessed 26-MAR-2013 17:33:39.0 131765 vector processing.asc)

MDOT	-24664.1424	0.0294	0.4669
0.000			
1118	5409.6926	0.0333	-0.3824
0.000			
	-6591.5364	0.0316	-0.5332

(V1098 PostProcessed 26-MAR-2013 17:44:49.0 131765 vector processing.asc)

MDOT	-16280.0850	0.0374	0.6804
0.000			
1116	-120.6053	0.0480	-0.5409
0.000			
	-9537.6788	0.0402	-0.6533

(V1099 PostProcessed 26-MAR-2013 21:03:54.0 131765 vector processing.asc)

MDOT	-16280.0741	0.0246	0.2649
0.000			
1116	-120.6332	0.0294	-0.1769
0.000			
	-9537.6243	0.0290	-0.4364

(V1100 PostProcessed 26-MAR-2013 21:32:39.0 131765 vector processing.asc)

MDOT	-15137.5551	0.0315	0.5011
0.000			
1115	-1963.9265	0.0562	-0.4684
0.000			
	-11471.0489	0.0572	-0.8010

(V1101 PostProcessed 26-MAR-2013 18:31:24.0 131765 vector processing.asc)

MDOT	-15137.5837	0.0254	0.3724
0.000			
1115	-1964.0305	0.0344	-0.3017
0.000			
	-11470.9856	0.0372	-0.6066

(V1102 PostProcessed 26-MAR-2013 21:38:59.0 131765 vector processing.asc)

MDOT	-16918.9373	0.0284	0.4672
0.000			

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1117                        3437.9278          0.0415         -0.4325
0.000
                           -4900.0059          0.0396         -0.6768

(V1103 PostProcessed 26-MAR-2013 18:34:14.0 131765 vector processing.asc)
MDOT                      -16918.9131          0.0245          0.3124
0.000
1117                        3437.8612          0.0304         -0.2423
0.000
                           -4899.9701          0.0311         -0.5106

(V1104 PostProcessed 26-MAR-2013 21:45:24.0 131765 vector processing.asc)
MDOT                      -10558.3625          0.0308          0.5442
0.000
1109                       -2929.8855          0.0433         -0.5029
0.000
                          -10189.4222          0.0381         -0.6788

(V1105 PostProcessed 26-MAR-2013 18:44:59.0 131765 vector processing.asc)
MDOT                      -10558.3730          0.0241          0.2883
0.000
1109                       -2929.9104          0.0289         -0.2047
0.000
                          -10189.4065          0.0281         -0.4308

(V1106 PostProcessed 26-MAR-2013 21:55:24.0 131765 vector processing.asc)
MDOT                       -9062.0299          0.0243          0.3778
0.000
1111                        2527.0200          0.0308         -0.3351
0.000
                           -1660.2736          0.0267         -0.4818

(V1107 PostProcessed 26-MAR-2013 18:52:34.0 131765 vector processing.asc)
MDOT                       -9062.0069          0.0221          0.2171
0.000
1111                        2527.0036          0.0258         -0.0636
0.000
                           -1660.2625          0.0245         -0.1992

(V1108 PostProcessed 26-MAR-2013 21:58:14.0 131765 vector processing.asc)
MDOT                       -7365.0190          0.0265          0.4175
0.000
1110                       -4164.9695          0.0355         -0.3686
0.000
                          -10092.0794          0.0291         -0.5337

(V1109 PostProcessed 26-MAR-2013 18:58:04.0 131765 vector processing.asc)
MDOT                       -7365.0243          0.0230          0.2527
0.000
1110                       -4164.9882          0.0278         -0.0722
0.000
                          -10092.0486          0.0251         -0.2061

(V1110 PostProcessed 26-MAR-2013 22:08:34.0 131765 vector processing.asc)
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```
MDOT                        -9420.5994          0.0307          0.4330
0.000
1114                          507.9088          0.0464         -0.3669
0.000
                            -4706.2759          0.0327         -0.5624

(V1111 PostProcessed 26-MAR-2013 19:05:24.0 131765 vector processing.asc)
MDOT                        -9420.5909          0.0226          0.2465
0.000
1114                          507.8573          0.0267         -0.1032
0.000
                            -4706.2428          0.0242         -0.1899

(V1112 PostProcessed 26-MAR-2013 22:26:29.0 131765 vector processing.asc)
MDOT                        -8574.0886          0.0230          0.2641
0.000
M519                         2630.2546          0.0329         -0.1666
0.000
                            -1234.5902          0.0234         -0.3421

(V1113 PostProcessed 26-MAR-2013 19:25:04.0 131765 vector processing.asc)
MDOT                        -8574.0764          0.0234          0.3097
0.000
M519                         2630.2398          0.0295         -0.0990
0.000
                            -1234.5778          0.0230         -0.1624

(V1114 PostProcessed 26-MAR-2013 22:14:29.0 131765 vector processing.asc)
1113                        -7765.5187          0.0264          0.3567
0.000
1114                         4535.3068          0.0387         -0.2772
0.000
                             1903.5535          0.0277         -0.4755

(V1115 PostProcessed 26-MAR-2013 15:51:49.0 131765 vector processing.asc)
1126                         3837.0449          0.0272          0.3998
0.000
1BB1                        10615.8150          0.0382         -0.3350
0.000
                            17152.1693          0.0335         -0.4223

(V1117 PostProcessed 26-MAR-2013 16:28:29.0 131765 vector processing.asc)
1127                       -14335.5220          0.0242          0.2705
0.000
1125                         4384.6998          0.0329         -0.1520
0.000
                            -2121.4547          0.0251         -0.0798

(V1118 PostProcessed 26-MAR-2013 19:52:54.0 131765 vector processing.asc)
1127                       -10101.6122          0.0414          0.7167
0.000
1BB1                        11266.9081          0.0586         -0.4554
0.000
                            10031.3156          0.0331         -0.4978
```

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(V1119 PostProcessed 26-MAR-2013 20:27:34.0 131765 vector processing.asc)
1125                        16930.3166          0.0279          0.4022
0.000
1120                        -8961.2100          0.0373         -0.1876
0.000
                            -2800.1818          0.0299         -0.3993

(V1120 PostProcessed 26-MAR-2013 20:45:44.0 131765 vector processing.asc)
1124                        21863.4255          0.0321          0.4087
0.000
D_521                      -20006.7208          0.0422         -0.1815
0.000
                           -15435.1808          0.0401         -0.4605

(V1121 PostProcessed 26-MAR-2013 16:47:09.0 131765 vector processing.asc)
1119                       -17259.0000          0.0304          0.4956
0.000
1124                         9370.7136          0.0440         -0.1858
0.000
                             3193.3684          0.0266         -0.1139

(V1123 PostProcessed 26-MAR-2013 17:03:14.0 131765 vector processing.asc)
1120                        -8817.5850          0.0310          0.5471
0.000
1123                         9506.1358          0.0425         -0.2571
0.000
                             8274.9649          0.0268         -0.2463

(V1124 PostProcessed 26-MAR-2013 17:25:54.0 131765 vector processing.asc)
D_521                      -10066.9931          0.0560          0.7508
0.000
1122                        17609.0741          0.0696         -0.5251
0.000
                            18896.7677          0.0479         -0.5801

(V1125 PostProcessed 26-MAR-2013 17:33:39.0 131765 vector processing.asc)
D_521                       -5414.8215          0.0549          0.7638
0.000
1118                        14920.6444          0.0689         -0.5760
0.000
                            17801.3566          0.0501         -0.6485

(V1126 PostProcessed 26-MAR-2013 21:03:54.0 131765 vector processing.asc)
1116                       -17867.1204          0.0378          0.4208
0.000
1123                         8996.1257          0.0539         -0.2286
0.000
                             2345.6900          0.0591         -0.6085

(V1127 PostProcessed 26-MAR-2013 21:08:54.0 131765 vector processing.asc)
1116                       -13036.2395          0.0276          0.3305
0.000
```

```
1122                        8218.7270         0.0379        -0.2127
0.000
                            4041.5853         0.0420        -0.5725

(V1128 PostProcessed 26-MAR-2013 18:34:14.0 131765 vector processing.asc)
1115                       -1781.3015         0.0243         0.3658
0.000
1117                        5401.9488         0.0329        -0.2540
0.000
                            6570.9524         0.0382        -0.5380

(V1129 PostProcessed 26-MAR-2013 21:38:59.0 131765 vector processing.asc)
1115                       -1781.3720         0.0268         0.3246
0.000
1117                        5401.8570         0.0382        -0.2863
0.000
                            6571.0331         0.0368        -0.6079

(V1130 PostProcessed 26-MAR-2013 21:32:39.0 131765 vector processing.asc)
1115                       -9526.5187         0.0321         0.5022
0.000
1118                        7373.7418         0.0590        -0.4583
0.000
                            4879.4531         0.0638        -0.8180

(V1131 PostProcessed 26-MAR-2013 18:52:34.0 131765 vector processing.asc)
1109                        1496.3428         0.0336         0.4675
0.000
1111                        5456.8675         0.0467        -0.1556
0.000
                            8529.1650         0.0440        -0.4119

(V1132 PostProcessed 26-MAR-2013 21:45:24.0 131765 vector processing.asc)
1109                       -6360.5794         0.0331         0.5799
0.000
1117                        6367.7789         0.0476        -0.5342
0.000
                            5289.4242         0.0428        -0.7175

(V1133 PostProcessed 26-MAR-2013 21:58:14.0 131765 vector processing.asc)
1110                       -1697.0144         0.0285         0.4859
0.000
1111                        6691.9852         0.0388        -0.4475
0.000
                            8431.8071         0.0322        -0.6018

(V1134 PostProcessed 26-MAR-2013 18:58:04.0 131765 vector processing.asc)
1110                       -1697.0135         0.0240         0.2603
0.000
1111                        6691.9186         0.0279        -0.0871
0.000
                            8431.8248         0.0271        -0.2513

(V1135 PostProcessed 26-MAR-2013 19:05:24.0 131765 vector processing.asc)
```

```
1110                        -2055.5856          0.0245          0.3308
0.000
1114                         4672.8274          0.0313         -0.0897
0.000
                             5385.8179          0.0265         -0.2364

(V1136 PostProcessed 26-MAR-2013 19:25:04.0 131765 vector processing.asc)
M519                       -33288.8389          0.0335          0.5468
0.000
1126                         1966.8169          0.0498         -0.1994
0.000
                           -16431.6273          0.0316         -0.2857

(V1137 PostProcessed 27-MAR-2013 14:52:14.0 131765 vector processing.asc)
1BF1                         5480.6109          0.0210          0.2053
0.000
1103                         -587.2224          0.0241         -0.1424
0.000
                             2303.2848          0.0230         -0.2429

(V1138 PostProcessed 27-MAR-2013 18:29:29.0 131765 vector processing.asc)
1BF1                         5480.6086          0.0217          0.2281
0.000
1103                         -587.2628          0.0259         -0.1412
0.000
                             2303.3461          0.0286         -0.3561

(V1139 PostProcessed 27-MAR-2013 18:31:54.0 131765 vector processing.asc)
1BF1                        11740.2267          0.0241          0.3437
0.000
1101                        -3788.4528          0.0317         -0.2195
0.000
                             1383.7635          0.0363         -0.4891

(V1140 PostProcessed 27-MAR-2013 15:03:34.0 131765 vector processing.asc)
1BF1                        11740.1883          0.0234          0.3062
0.000
1101                        -3788.5180          0.0286         -0.2204
0.000
                             1383.8100          0.0271         -0.3512

(V1141 PostProcessed 27-MAR-2013 15:15:29.0 131765 vector processing.asc)
1BF1                         4976.8993          0.0224          0.3104
0.000
C519                        -2303.9577          0.0275         -0.2473
0.000
                             -392.9439          0.0258         -0.3795

(V1142 PostProcessed 27-MAR-2013 18:43:14.0 131765 vector processing.asc)
1BF1                         4976.8865          0.0213          0.1871
0.000
C519                        -2303.9731          0.0243         -0.0658
0.000
                             -392.9291          0.0242         -0.2050
```

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(V1143 PostProcessed 27-MAR-2013 18:47:54.0 131765 vector processing.asc)
1BF1                        10964.8255          0.0237          0.2988
0.000
1100                        -6522.3829          0.0295         -0.1044
0.000
                            -2881.3858          0.0283         -0.2795

(V1144 PostProcessed 27-MAR-2013 15:19:54.0 131765 vector processing.asc)
1BF1                        10964.8337          0.0233          0.3004
0.000
1100                        -6522.4101          0.0288         -0.2296
0.000
                            -2881.3655          0.0273         -0.3544

(V1145 PostProcessed 27-MAR-2013 19:00:19.0 131765 vector processing.asc)
1BF1                         5092.7792          0.0216          0.2235
0.000
D519                        -1840.0804          0.0257         -0.0577
0.000
                              325.0249          0.0225         -0.1566

(V1146 PostProcessed 27-MAR-2013 15:30:59.0 131765 vector processing.asc)
1BF1                         5092.7825          0.0216          0.2359
0.000
D519                        -1840.1024          0.0258         -0.1895
0.000
                              325.0272          0.0245         -0.2977

(V1147 PostProcessed 27-MAR-2013 15:39:34.0 131765 vector processing.asc)
1BF1                         5896.4692          0.0229          0.2980
0.000
B_519                       -4483.9229          0.0291         -0.2456
0.000
                            -2913.1726          0.0268         -0.3570

(V1148 PostProcessed 27-MAR-2013 19:03:29.0 131765 vector processing.asc)
1BF1                         5896.4642          0.0229          0.2629
0.000
B_519                       -4483.9760          0.0284         -0.0765
0.000
                            -2913.1276          0.0251         -0.1468

(V1149 PostProcessed 27-MAR-2013 19:18:14.0 131765 vector processing.asc)
1BF1                        -1614.6654          0.0209          0.2123
0.000
1105                         2286.4757          0.0245         -0.0574
0.000
                             2273.1503          0.0206         -0.1070

(V1150 PostProcessed 27-MAR-2013 15:48:14.0 131765 vector processing.asc)
1BF1                        -1614.7044          0.0203          0.1398
0.000
```

```
1105                        2286.4501         0.0230        -0.1072
0.000
                            2273.1795         0.0217        -0.1638

(V1151 PostProcessed 27-MAR-2013 15:52:39.0 131765 vector processing.asc)
1BF1                        4409.0236         0.0219         0.2271
0.000
1102                       -3475.5958         0.0271        -0.1770
0.000
                           -2354.5305         0.0244        -0.2415

(V1152 PostProcessed 27-MAR-2013 19:16:04.0 131765 vector processing.asc)
1BF1                        4409.0220         0.0220         0.2535
0.000
1102                       -3475.6509         0.0266        -0.0686
0.000
                           -2354.5285         0.0219        -0.1291

(V1153 PostProcessed 27-MAR-2013 19:32:04.0 131765 vector processing.asc)
1BF1                       -2650.8235         0.0211         0.2316
0.000
1104                         155.5030         0.0248        -0.0731
0.000
                           -1302.2818         0.0210        -0.1386

(V1154 PostProcessed 27-MAR-2013 19:39:49.0 131765 vector processing.asc)
1BF1                      -12222.5689         0.0272         0.4809
0.000
1106                        7404.9019         0.0380        -0.2137
0.000
                            3385.5325         0.0247        -0.2910

(V1155 PostProcessed 27-MAR-2013 16:09:14.0 131765 vector processing.asc)
1BF1                      -12222.6181         0.0231         0.2257
0.000
1106                        7404.8573         0.0279        -0.1488
0.000
                            3385.5604         0.0245        -0.1395

(V1156 PostProcessed 27-MAR-2013 19:49:19.0 131765 vector processing.asc)
1BF1                       -9015.2927         0.0264         0.4945
0.000
1108                        2677.8455         0.0344        -0.2285
0.000
                           -1408.3373         0.0228        -0.3014

(V1157 PostProcessed 27-MAR-2013 16:24:09.0 131765 vector processing.asc)
1BF1                       -9015.3251         0.0221         0.1918
0.000
1108                        2677.8271         0.0274        -0.1032
0.000
                           -1408.3255         0.0227        -0.0597

(V1158 PostProcessed 27-MAR-2013 20:05:09.0 131765 vector processing.asc)
```

```
1BF1                        -14504.4783          0.0278          0.4773
0.000
1107                          3496.2398          0.0367         -0.2306
0.000
                             -3411.5072          0.0254         -0.3409

(V1159 PostProcessed 27-MAR-2013 16:39:29.0 131765 vector processing.asc)
1BF1                        -14504.5433          0.0249          0.3305
0.000
1107                          3496.1808          0.0322         -0.1220
0.000
                             -3411.4934          0.0235         -0.0771

(V1160 PostProcessed 27-MAR-2013 20:05:24.0 131765 vector processing.asc)
1BF1                        -20504.2802          0.0307          0.5303
0.000
1112                          9861.0157          0.0419         -0.2675
0.000
                              2081.8235          0.0278         -0.3857

(V1161 PostProcessed 27-MAR-2013 16:47:14.0 131765 vector processing.asc)
1BF1                        -20504.3543          0.0273          0.3749
0.000
1112                          9860.9383          0.0330         -0.1657
0.000
                              2081.8245          0.0252         -0.1304

(V1162 PostProcessed 27-MAR-2013 18:31:54.0 131765 vector processing.asc)
1103                          6259.6096          0.0247          0.3662
0.000
1101                         -3201.2224          0.0331         -0.2407
0.000
                              -919.5305          0.0384         -0.5214

(V1163 PostProcessed 27-MAR-2013 15:03:34.0 131765 vector processing.asc)
1103                          6259.5951          0.0251          0.3588
0.000
1101                         -3201.2736          0.0318         -0.2580
0.000
                              -919.4852          0.0292         -0.4018

(V1164 PostProcessed 27-MAR-2013 15:19:54.0 131765 vector processing.asc)
C519                          5987.9724          0.0261          0.4499
0.000
1100                         -4218.3625          0.0355         -0.3710
0.000
                             -2488.4997          0.0326         -0.5186

(V1165 PostProcessed 27-MAR-2013 18:47:54.0 131765 vector processing.asc)
C519                          5987.9321          0.0237          0.2836
0.000
1100                         -4218.4265          0.0290         -0.1254
0.000
                             -2488.4685          0.0300         -0.2950
```

```
(V1166 PostProcessed 27-MAR-2013 19:03:29.0 131765 vector processing.asc)
D519                          803.6864          0.0221          0.2482
0.000
B_519                       -2643.8780          0.0270         -0.0692
0.000
                            -3238.1601          0.0239         -0.1378

(V1167 PostProcessed 27-MAR-2013 19:18:14.0 131765 vector processing.asc)
1102                        -6023.7037          0.0247          0.3808
0.000
1105                         5762.0965          0.0328         -0.1169
0.000
                             4627.6903          0.0241         -0.1949

(V1168 PostProcessed 27-MAR-2013 15:52:39.0 131765 vector processing.asc)
1102                        -6023.7349          0.0235          0.2558
0.000
1105                         5762.0367          0.0298         -0.1976
0.000
                             4627.7215          0.0266         -0.2572

(V1169 PostProcessed 27-MAR-2013 16:09:14.0 131765 vector processing.asc)
1104                        -9571.7484          0.0243          0.2880
0.000
1106                         7249.4938          0.0333         -0.1906
0.000
                             4687.7569          0.0269         -0.1904

(V1170 PostProcessed 27-MAR-2013 19:39:49.0 131765 vector processing.asc)
1104                        -9571.7844          0.0288          0.3714
0.000
1106                         7249.3579          0.0374         -0.1180
0.000
                             4687.8478          0.0297         -0.2173

(V1171 PostProcessed 27-MAR-2013 20:05:24.0 131765 vector processing.asc)
1107                        -5999.7766          0.0275          0.4710
0.000
1112                         6364.7851          0.0363         -0.2262
0.000
                             5493.3209          0.0252         -0.3362

(V1172 PostProcessed 27-MAR-2013 16:47:14.0 131765 vector processing.asc)
1107                        -5999.8209          0.0324          0.4375
0.000
1112                         6364.7241          0.0441         -0.1868
0.000
                             5493.3360          0.0294         -0.1200

(V2001 PostProcessed 26-MAR-2013 14:58:34.0 131765 cgps processing.asc)
MDOT                       -28084.1122          0.0204          0.2740
0.000
```

```
SRP1                        16287.7087          0.0265         -0.2180
0.000
                             6837.6227          0.0230         -0.3999

(V2002 PostProcessed 26-MAR-2013 14:58:34.0 131765 cgps processing.asc)
MDOT                        78381.3720          0.0203          0.2662
0.000
COSA                        -1525.7326          0.0263         -0.2135
0.000
                            42840.4839          0.0230         -0.3977

(V2003 PostProcessed 26-MAR-2013 14:11:59.0 131765 cgps processing.asc)
SRP1                         7730.0112          0.0193          0.1251
0.000
1BC1                        -6892.1470          0.0221         -0.0893
0.000
                            -5323.0554          0.0203         -0.2079

(V2004 PostProcessed 26-MAR-2013 14:11:59.0 131765 cgps processing.asc)
COSA                       -98735.4636          0.0198          0.1798
0.000
1BC1                        10921.3419          0.0239         -0.1330
0.000
                           -41325.9436          0.0213         -0.2910

(V2005 PostProcessed 25-MAR-2013 23:59:44.0 131765 cgps processing.asc)
COSA                      -106465.4813          0.0193          0.1033
0.000
SRP1                        17813.5144          0.0213         -0.0702
0.000
                           -36002.8996          0.0199         -0.1581
```

Adjustment Statistical Summary

Iterations	=	3
Number of Stations	=	40
Number of Observations	=	525
Number of Unknowns	=	103
Number of Redundant Obs	=	422

Observation	Count	Sum Squares of StdRes	Error Factor
GPS Deltas	525	662.905	1.253
Total	525	662.905	1.253

Warning: The Chi-Square Test at 5.00% Level Exceeded Upper Bound
Lower/Upper Bounds (0.933/1.067)

Adjusted Station Information

Coordinate Changes from Entered Provisionals (FeetInt)
(Elevations Marked with (*) are Ellipsoid Heights)

Station	dN	dE	dZ
1BC1	-0.0000	-0.0000	-0.0000
MDOT	-0.0000	-0.0000	-0.0000
1BB1	-0.0000	-0.0000	-0.0000
W519	3.3004	3.3027	-0.0000
D_521	1.1027	3.3697	-0.0000
M519	3.9614	10.4304	-0.0999
1BF1	-0.0000	-0.0000	-0.0000
C519	-7.0968	-3.0755	-0.0000
D519	-6.2813	6.6430	-0.0000
B_519	-1.1835	5.3781	-0.0000
SRP1	-0.0379	0.0894	0.0238*
COSA	0.1006	0.0648	0.1386*

Adjusted Coordinates (FeetInt)

Station	N	E	Elev	Description
1BC1	885252.3360	614851.4212	1028.8000	
MDOT	883372.0279	637238.6166	1048.8200	
1113	875458.0862	637206.3831	1042.9228	
1BB1	882898.9216	596287.5744	996.1300	
1126	862372.2976	596690.1287	970.1084	
W519	875637.7893	586135.6152	975.2400	
1121	866290.5269	607406.5681	988.2563	
1127	870847.5446	609862.8984	987.2614	
1125	868370.4760	594928.4657	960.8544	
1124	872807.8917	595184.5639	966.4527	
1119	868903.0693	614691.7266	999.6008	
1123	874885.4726	602250.7086	988.6204	
1120	864935.4735	613977.8858	998.0023	
1122	876896.5999	607022.0659	997.4042	
D_521	854199.3750	622932.3907	1039.4300	
1118	875565.1690	612340.8866	1003.6033	
1116	872004.4475	622182.0028	1013.2713	
1115	869684.0647	623929.7750	1014.4714	
1117	877561.4869	620261.3598	1016.9752	
1109	871201.4012	628537.9988	1024.5723	
1111	881414.7961	627889.4745	1030.9723	
1110	871308.0455	631961.1125	1028.1670	
1114	877767.5229	628310.4011	1027.1603	
M519	881923.0792	628303.5572	1032.0701	
1BF1	879158.1334	660049.3379	1092.3700	
1103	881906.8740	665352.2845	1098.7813	
1101	880790.6684	672353.3776	1110.4731	
C519	878676.1617	665525.7315	1099.6900	
1100	875675.1370	672654.4586	1119.9314	
D519	879536.1458	665460.1024	1099.8900	
B_519	875648.2503	667192.3149	1110.9300	

1105	881891.4345	657698.2067	1081.6461
1102	876323.8420	665436.2440	1103.9423
1104	877605.9314	657532.3902	1085.7041
1106	883254.2698	645948.0870	1063.1179
1108	877497.8551	650687.3424	1072.0608
1107	875115.9420	645290.1035	1059.1211
1112	881718.7903	637349.2901	1047.2843
SRP1	891626.9133	605108.9935	1076.5837
COSA	934454.8501	710514.0280	1383.9412

Adjusted Positions and Ellipsoid Heights (FeetInt)

Station	Latitude	Longitude	Ellip Ht	Geoid	Ht
1BC1	33-25-59.450560	112-11-44.808460	929.9101	-	98.8899
MDOT	33-25-41.362850	112-07-20.582890	950.4825	-	98.3375
1113	33-24-23.060235	112-07-20.778538	944.6710	-	98.2518
1BB1	33-25-35.619040	112-15-23.780060	896.8966	-	99.2334
1126	33-22-12.539489	112-15-18.242649	871.1633	-	98.9451
W519	33-24-23.432771	112-17-23.261178	875.9878	-	99.2522
1121	33-22-51.633729	112-13-12.009284	889.4435	-	98.8128
1127	33-23-36.791457	112-12-43.193105	888.4355	-	98.8259
1125	33-23-11.829135	112-15-39.249868	861.8092	-	99.0452
1124	33-23-55.741770	112-15-36.402065	867.3426	-	99.1101
1119	33-23-17.684400	112-11-46.174717	900.9155	-	98.6853
1123	33-24-16.520511	112-14-13.126476	889.5868	-	99.0336
1120	33-22-38.409248	112-11-54.467438	899.3506	-	98.6517
1122	33-24-36.560604	112-13-16.910022	898.4320	-	98.9723
D_521	33-20-52.410992	112-10-08.560306	941.0898	-	98.3402
1118	33-24-23.536938	112-12-14.118419	904.7679	-	98.8354
1116	33-23-48.560232	112-10-17.920493	914.7145	-	98.5568
1115	33-23-25.643806	112-09-57.238878	915.9929	-	98.4785
1117	33-24-43.495366	112-10-40.740278	918.2929	-	98.6823
1109	33-23-40.762488	112-09-02.926110	926.1800	-	98.3923

1111	33-25-21.801115	112-09-10.849310	932.4271	-
98.5452				
1110	33-23-41.892005	112-08-22.551927	929.8531	-
98.3139				
1114	33-24-45.723836	112-09-05.785547	928.6675	-
98.4929				
M519	33-25-26.839428	112-09-05.977033	933.5297	-
98.5404				
1BF1	33-25-00.034970	112-02-51.355100	994.4948	-
97.8752				
1103	33-25-27.293269	112-01-48.824173	1000.9669	-
97.8144				
1101	33-25-16.317266	112-00-26.203716	1012.7580	-
97.7152				
C519	33-24-55.329750	112-01-46.736195	1001.8943	-
97.7957				
1100	33-24-25.705555	112-00-22.599267	1022.2383	-
97.6931				
D519	33-25-03.837923	112-01-47.521542	1002.0886	-
97.8014				
B_519	33-24-25.388345	112-01-27.036539	1013.1780	-
97.7520				
1105	33-25-27.048694	112-03-19.137670	983.7138	-
97.9322				
1102	33-24-32.054382	112-01-47.761778	1006.1606	-
97.7817				
1104	33-24-44.644811	112-03-21.026560	987.8019	-
97.9022				
1106	33-25-40.356349	112-05-37.809434	964.9619	-
98.1560				
1108	33-24-43.477590	112-04-41.781178	974.0451	-
98.0157				
1107	33-24-19.822958	112-05-45.408083	961.0374	-
98.0838				
1112	33-25-25.007601	112-07-19.238439	948.9658	-
98.3185				
SRP1	33-27-02.247497	112-13-39.999123	977.4538	-
99.1299				
COSA	33-34-07.379055	111-52-55.733944	1286.8386	-
97.1026				
			Average:	-
98.4024				

Convergence Angles (DMS) and Grid Factors at Stations
(Grid Azimuth = Geodetic Azimuth - Convergence)
(Elevation Factor Includes a Geoid Height Correction at Each Station))

Station	Convergence Angle	------- Factors ------- Scale	x Elevation	= Combined
1BC1	-0-09-13.62	0.99990830	0.99995550	0.99986381
MDOT	-0-06-47.98	0.99990451	0.99995452	0.99985903
1113	-0-06-47.85	0.99990451	0.99995480	0.99985932
1BB1	-0-11-14.15	0.99991232	0.99995708	0.99986940

1126	-0-11-10.09	0.99991222	0.99995831	0.99987054
W519	-0-12-19.57	0.99991485	0.99995808	0.99987293
1121	-0-10-00.83	0.99990982	0.99995744	0.99986726
1127	-0-09-45.17	0.99990930	0.99995749	0.99986680
1125	-0-11-21.95	0.99991264	0.99995876	0.99987141
1124	-0-11-20.60	0.99991258	0.99995850	0.99987108
1119	-0-09-13.71	0.99990833	0.99995689	0.99986523
1123	-0-10-34.86	0.99991094	0.99995743	0.99986838
1120	-0-09-18.11	0.99990847	0.99995697	0.99986544
1122	-0-10-03.99	0.99990990	0.99995701	0.99986691
D_521	-0-08-19.46	0.99990680	0.99995497	0.99986177
1118	-0-09-29.36	0.99990880	0.99995671	0.99986551
1116	-0-08-25.26	0.99990693	0.99995623	0.99986317
1115	-0-08-13.79	0.99990663	0.99995617	0.99986280
1117	-0-08-38.03	0.99990728	0.99995606	0.99986334
1109	-0-07-43.95	0.99990585	0.99995568	0.99986153
1111	-0-07-48.66	0.99990595	0.99995538	0.99986134
1110	-0-07-21.73	0.99990530	0.99995551	0.99986081
1114	-0-07-45.75	0.99990588	0.99995556	0.99986145
M519	-0-07-45.99	0.99990589	0.99995533	0.99986122
1BF1	-0-04-19.59	0.99990183	0.99995241	0.99985425
1103	-0-03-45.19	0.99990137	0.99995210	0.99985348
1101	-0-02-59.67	0.99990088	0.99995154	0.99985242
C519	-0-03-43.99	0.99990136	0.99995206	0.99985343
1100	-0-02-57.62	0.99990086	0.99995109	0.99985195
D519	-0-03-44.44	0.99990137	0.99995205	0.99985342
B_519	-0-03-33.10	0.99990123	0.99995152	0.99985276
1105	-0-04-34.94	0.99990205	0.99995293	0.99985498
1102	-0-03-44.52	0.99990137	0.99995186	0.99985323
1104	-0-04-35.90	0.99990207	0.99995273	0.99985480
1106	-0-05-51.36	0.99990335	0.99995383	0.99985718
1108	-0-05-20.36	0.99990278	0.99995339	0.99985618
1107	-0-05-55.34	0.99990343	0.99995401	0.99985745
1112	-0-06-47.19	0.99990449	0.99995459	0.99985909
SRP1	-0-10-17.37	0.99991031	0.99995323	0.99986354
COSA	0-01-08.71	0.99990013	0.99993843	0.99983856
Project Averages:	-0-07-17.66	0.99990607	0.99995460	0.99986068

Adjusted Observations and Residuals

Adjusted GPS Vector Observations (FeetInt)

```
From                Component          Adj Value      Residual    StdErr
StdRes File:Line
To

(V1001 PostProcessed 26-MAR-2013 14:58:34.0 131765 vector processing.asc)
1BC1                Delta-N          -1820.4708        0.0122    0.0188
0.6     1:4
MDOT                Delta-E          22395.2712        0.0560    0.0190
2.9
                    Delta-U              8.5215       -0.0271    0.0284
1.0
                    Length           22469.1424

(V1002 PostProcessed 26-MAR-2013 22:14:29.0 131765 vector processing.asc)
1BC1                Delta-N          -9735.5841        0.0006    0.0237
0.0     1:9
1113                Delta-E          22384.2621        0.0263    0.0243
1.1
                    Delta-U              0.5283        0.0803    0.0455
1.8
                    Length           24409.7683

(V1003 PostProcessed 26-MAR-2013 15:21:24.0 131765 vector processing.asc)
1BC1                Delta-N          -9735.5841        0.0003    0.0241
0.0     1:14
1113                Delta-E          22384.2621        0.0399    0.0223
1.8
                    Delta-U              0.5283       -0.0641    0.0381
1.7
                    Length           24409.7683

(V1004 PostProcessed 26-MAR-2013 19:48:34.0 131765 vector processing.asc)
1BC1                Delta-N          -2403.5455       -0.0572    0.0275
2.1     1:19
1BB1                Delta-E         -18559.9220        0.0091    0.0234
0.4
                    Delta-U            -41.3742        0.0171    0.0470
0.4
                    Length           18714.9525

(V1005 PostProcessed 26-MAR-2013 15:49:14.0 131765 vector processing.asc)
1BC1                Delta-N          -2403.5455       -0.0263    0.0237
1.1     1:24
1BB1                Delta-E         -18559.9220        0.0027    0.0218
0.1
                    Delta-U            -41.3742       -0.0757    0.0340
2.2
                    Length           18714.9525
```

```
(V1006 PostProcessed 26-MAR-2013 15:51:49.0 131765 vector processing.asc)
1BC1                Delta-N         -22931.6676        0.0078   0.0264
0.3     1:29
1126                Delta-E         -18102.2442        0.0308   0.0232
1.3
                    Delta-U            -79.1791        0.0225   0.0438
0.5
                    Length           29215.7302

(V1007 PostProcessed 26-MAR-2013 19:21:39.0 131765 vector processing.asc)
1BC1                Delta-N         -22931.6676        0.0179   0.0266
0.7     1:34
1126                Delta-E         -18102.2442        0.0012   0.0231
0.1
                    Delta-U            -79.1791       -0.0399   0.0363
1.1
                    Length           29215.7302

(V1008 PostProcessed 26-MAR-2013 20:08:24.0 131765 vector processing.asc)
1BC1                Delta-N          -9692.8180       -0.1026   0.0281
3.6*    1:39
W519                Delta-E         -28693.6388       -0.0283   0.0255
1.1
                    Delta-U            -75.8272        0.0990   0.0503
2.0
                    Length           30286.6534

(V1009 PostProcessed 26-MAR-2013 16:09:49.0 131765 vector processing.asc)
1BC1                Delta-N          -9692.8180        0.0846   0.0318
2.7     1:44
W519                Delta-E         -28693.6388        0.0721   0.0302
2.4
                    Delta-U            -75.8272       -0.0737   0.0483
1.5
                    Length           30286.6534

(V1010 PostProcessed 26-MAR-2013 16:10:39.0 131765 vector processing.asc)
1BC1                Delta-N         -18984.2421        0.0067   0.0266
0.3     1:49
1121                Delta-E          -7394.9542        0.0307   0.0229
1.3
                    Delta-U            -50.4146        0.0581   0.0369
1.6
                    Length           20373.7414

(V1011 PostProcessed 26-MAR-2013 19:37:04.0 131765 vector processing.asc)
1BC1                Delta-N         -18984.2421       -0.0077   0.0257
0.3     1:54
1121                Delta-E          -7394.9542        0.0125   0.0228
0.5
                    Delta-U            -50.4146       -0.0499   0.0359
1.4
                    Length           20373.7414
```

```
(V1012 PostProcessed 26-MAR-2013 19:52:54.0 131765 vector processing.asc)
1BC1                Delta-N         -14420.0499       -0.0215   0.0269
0.8     1:59
1127                Delta-E          -4950.5239        0.0142   0.0236
0.6
                    Delta-U             -47.0461        0.0437   0.0498
0.9
                    Length           15246.2369

(V1013 PostProcessed 26-MAR-2013 16:28:09.0 131765 vector processing.asc)
1BC1                Delta-N         -14420.0499       -0.0012   0.0244
0.1     1:64
1127                Delta-E          -4950.5239        0.0213   0.0218
1.0
                    Delta-U             -47.0461       -0.0168   0.0297
0.6
                    Length           15246.2369

(V1014 PostProcessed 26-MAR-2013 20:26:14.0 131765 vector processing.asc)
1BC1                Delta-N         -16937.4505       -0.0193   0.0265
0.7     1:69
1125                Delta-E         -19880.1968        0.0190   0.0243
0.8
                    Delta-U             -84.4140        0.0452   0.0442
1.0
                    Length           26117.1702

(V1015 PostProcessed 26-MAR-2013 16:28:29.0 131765 vector processing.asc)
1BC1                Delta-N         -16937.4505        0.0190   0.0257
0.7     1:74
1125                Delta-E         -19880.1968        0.0209   0.0231
0.9
                    Delta-U             -84.4140       -0.0218   0.0316
0.7
                    Length           26117.1702

(V1016 PostProcessed 26-MAR-2013 20:41:04.0 131765 vector processing.asc)
1BC1                Delta-N         -12498.7973       -0.0051   0.0263
0.2     1:79
1124                Delta-E         -19635.9708        0.0181   0.0238
0.8
                    Delta-U             -75.5170        0.0507   0.0398
1.3
                    Length           23276.5329

(V1017 PostProcessed 26-MAR-2013 16:45:34.0 131765 vector processing.asc)
1BC1                Delta-N         -12498.7973        0.0357   0.0272
1.3     1:84
1124                Delta-E         -19635.9708        0.0175   0.0235
0.7
                    Delta-U             -75.5170       -0.0384   0.0346
1.1
                    Length           23276.5329
```

```
(V1018 PostProcessed 26-MAR-2013 20:11:14.0 131765 vector processing.asc)
1BC1                Delta-N         -16351.8402        -0.0190   0.0249
0.8     1:89
1119                Delta-E           -115.8542         0.0010   0.0228
0.0
                    Delta-U            -35.4070         0.0491   0.0410
1.2
                    Length           16352.2890

(V1019 PostProcessed 26-MAR-2013 16:47:09.0 131765 vector processing.asc)
1BC1                Delta-N         -16351.8402         0.0163   0.0261
0.6     1:94
1119                Delta-E           -115.8542         0.0412   0.0226
1.8
                    Delta-U            -35.4070        -0.0228   0.0334
0.7
                    Length           16352.2890

(V1020 PostProcessed 26-MAR-2013 17:02:19.0 131765 vector processing.asc)
1BC1                Delta-N         -10402.0162         0.0163   0.0291
0.6     1:99
1123                Delta-E         -12574.5230         0.0234   0.0240
1.0
                    Delta-U            -46.6922         0.0479   0.0450
1.1
                    Length           16319.3980

(V1021 PostProcessed 26-MAR-2013 20:56:04.0 131765 vector processing.asc)
1BC1                Delta-N         -10402.0162        -0.0238   0.0240
1.0     1:104
1123                Delta-E         -12574.5230         0.0168   0.0221
0.8
                    Delta-U            -46.6922        -0.0229   0.0321
0.7
                    Length           16319.3980

(V1022 PostProcessed 26-MAR-2013 17:03:14.0 131765 vector processing.asc)
1BC1                Delta-N         -20321.8672         0.0183   0.0310
0.6     1:109
1120                Delta-E           -819.1521         0.0399   0.0251
1.6
                    Delta-U            -40.4792         0.0387   0.0496
0.8
                    Length           20338.4104

(V1023 PostProcessed 26-MAR-2013 20:27:34.0 131765 vector processing.asc)
1BC1                Delta-N         -20321.8672        -0.0085   0.0244
0.3     1:114
1120                Delta-E           -819.1521         0.0042   0.0229
0.2
                    Delta-U            -40.4792        -0.0256   0.0349
0.7
                    Length           20338.4104
```

```
(V1024 PostProcessed 26-MAR-2013 21:08:54.0 131765 vector processing.asc)
1BC1                Delta-N          -8377.8356       -0.0142   0.0242
0.6     1:119
1122                Delta-E          -7807.9516        0.0155   0.0215
0.7
                    Delta-U            -34.6165        0.0299   0.0385
0.8
                    Length           11452.2241

(V1025 PostProcessed 26-MAR-2013 17:18:14.0 131765 vector processing.asc)
1BC1                Delta-N          -8377.8356        0.0252   0.0227
1.1     1:124
1122                Delta-E          -7807.9516        0.0289   0.0218
1.3.
                    Delta-U            -34.6165       -0.0190   0.0323
0.6
                    Length           11452.2241

(V1026 PostProcessed 26-MAR-2013 17:25:54.0 131765 vector processing.asc)
1BC1                Delta-N         -31035.4417        0.0227   0.0278
0.8     1:129
D_521               Delta-E           8165.3143        0.0424   0.0269
1.6
                    Delta-U            -13.5101        0.0359   0.0573
0.6
                    Length           32091.6061

(V1027 PostProcessed 26-MAR-2013 20:45:44.0 131765 vector processing.asc)
1BC1                Delta-N         -31035.4417       -0.0061   0.0254
0.2     1:134
D_521               Delta-E           8165.3143        0.0142   0.0220
0.6
                    Delta-U            -13.5101       -0.0597   0.0360
1.7
                    Length           32091.6061

(V1028 PostProcessed 26-MAR-2013 21:24:59.0 131765 vector processing.asc)
1BC1                Delta-N          -9695.1749       -0.0037   0.0259
0.1     1:139
1118                Delta-E          -2484.8689        0.0043   0.0223
0.2
                    Delta-U            -27.5438        0.0404   0.0548
0.7
                    Length           10008.5837

(V1029 PostProcessed 26-MAR-2013 17:33:39.0 131765 vector processing.asc)
1BC1                Delta-N          -9695.1749        0.0184   0.0208
0.9     1:144
1118                Delta-E          -2484.8689        0.0341   0.0216
1.6
                    Delta-U            -27.5438       -0.0301   0.0337
0.9
                    Length           10008.5837
```

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(V1030 PostProcessed 26-MAR-2013 17:44:49.0 131765 vector processing.asc)
1BC1                Delta-N         -13229.9762        0.0210   0.0237
0.9     1:149
1116                Delta-E           7367.0977        0.0377   0.0233
1.6
                    Delta-U            -20.6885        0.0635   0.0505
1.3
                    Length           15142.8804

(V1031 PostProcessed 26-MAR-2013 21:03:54.0 131765 vector processing.asc)
1BC1                Delta-N         -13229.9762       -0.0132   0.0238
0.6     1:154
1116                Delta-E           7367.0977        0.0234   0.0219
1.1
                    Delta-U            -20.6885       -0.0324   0.0334
1.0
                    Length           15142.8804

(V1032 PostProcessed 26-MAR-2013 21:32:39.0 131765 vector processing.asc)
1BC1                Delta-N         -15545.9820       -0.0103   0.0262
0.4     1:159
1115                Delta-E           9121.3256        0.0148   0.0237
0.6
                    Delta-U            -21.6987        0.0363   0.0628
0.6
                    Length           18024.3337

(V1033 PostProcessed 26-MAR-2013 18:31:24.0 131765 vector processing.asc)
1BC1                Delta-N         -15545.9820        0.0082   0.0235
0.3     1:164
1115                Delta-E           9121.3256        0.0342   0.0220
1.5
                    Delta-U            -21.6987       -0.0518   0.0426
1.2
                    Length           18024.3337

(V1034 PostProcessed 26-MAR-2013 21:38:59.0 131765 vector processing.asc)
1BC1                Delta-N          -7677.3508       -0.0035   0.0214
0.2     1:169
1117                Delta-E           5431.2945        0.0319   0.0212
1.5
                    Delta-U            -13.7348        0.0487   0.0407
1.2
                    Length            9404.3003

(V1035 PostProcessed 26-MAR-2013 18:34:14.0 131765 vector processing.asc)
1BC1                Delta-N          -7677.3508       -0.0040   0.0241
0.2     1:174
1117                Delta-E           5431.2945        0.0173   0.0207
0.8
                    Delta-U            -13.7348        0.0054   0.0344
0.2
                    Length            9404.3003
```

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(V1036 PostProcessed 26-MAR-2013 21:45:24.0 131765 vector processing.asc)
1BC1                Delta-N         -14016.0905       -0.0006   0.0235
0.0     1:179
1109                Delta-E          13726.1037        0.0197   0.0243
0.8
                    Delta-U            -12.9382        0.0546   0.0582
0.9
                    Length           19617.7696

(V1037 PostProcessed 26-MAR-2013 18:44:59.0 131765 vector processing.asc)
1BC1                Delta-N         -14016.0905        0.0111   0.0223
0.5     1:184
1109                Delta-E          13726.1037        0.0337   0.0222
1.5
                    Delta-U            -12.9382       -0.0048   0.0357
0.1
                    Length           19617.7696

(V1038 PostProcessed 26-MAR-2013 21:55:24.0 131765 vector processing.asc)
1BC1                Delta-N          -3803.0596       -0.0019   0.0217
0.1     1:189
1111                Delta-E          13050.0973        0.0477   0.0228
2.1
                    Delta-U             -1.8948        0.0514   0.0472
1.1
                    Length           13592.9505

(V1039 PostProcessed 26-MAR-2013 18:52:34.0 131765 vector processing.asc)
1BC1                Delta-N          -3803.0596        0.0119   0.0235
0.5     1:194
1111                Delta-E          13050.0973        0.0269   0.0213
1.3
                    Delta-U             -1.8948       -0.0027   0.0301
0.1
                    Length           13592.9505

(V1040 PostProcessed 26-MAR-2013 21:58:14.0 131765 vector processing.asc)
1BC1                Delta-N         -13900.2530        0.0082   0.0232
0.4     1:199
1110                Delta-E          17149.3959        0.0300   0.0247
1.2
                    Delta-U            -11.7105        0.0515   0.0531
1.0
                    Length           22075.3018

(V1041 PostProcessed 26-MAR-2013 18:58:04.0 131765 vector processing.asc)
1BC1                Delta-N         -13900.2530        0.0124   0.0253
0.5     1:204
1110                Delta-E          17149.3959        0.0296   0.0226
1.3
                    Delta-U            -11.7105       -0.0364   0.0341
1.1
                    Length           22075.3018
```

```
(V1042 PostProcessed 26-MAR-2013 22:08:34.0 131765 vector processing.asc)
1BC1                Delta-N          -7449.6950       -0.0015   0.0221
0.1     1:209
1114                Delta-E          13480.8649        0.0388   0.0229
1.7
                    Delta-U             -6.9113        0.0244   0.0419
0.6
                    Length           15402.3284

(V1043 PostProcessed 26-MAR-2013 19:05:24.0 131765 vector processing.asc)
1BC1                Delta-N          -7449.6950        0.0150   0.0248
0.6     1:214
1114                Delta-E          13480.8649        0.0233   0.0219
1.1
                    Delta-U             -6.9113       -0.0196   0.0324
0.6
                    Length           15402.3284

(V1044 PostProcessed 26-MAR-2013 22:26:29.0 131765 vector processing.asc)
1BC1                Delta-N          -3293.5966       -0.0062   0.0222
0.3     1:219
M519                Delta-E          13462.8725        0.0310   0.0222
1.4
                    Delta-U             -0.9668        0.0770   0.0361
2.1
                    Length           13859.8959

(V1045 PostProcessed 26-MAR-2013 19:25:04.0 131765 vector processing.asc)
1BC1                Delta-N          -3293.5966        0.0183   0.0240
0.8     1:224
M519                Delta-E          13462.8725        0.0311   0.0215
1.4
                    Delta-U             -0.9668       -0.0470   0.0316
1.5
                    Length           13859.8959

(V1046 PostProcessed 27-MAR-2013 14:31:59.0 131765 vector processing.asc)
MDOT                Delta-N          -4169.3760       -0.0847   0.0190
4.5*    1:229
1BF1                Delta-E          22822.3013        0.0157   0.0189
0.8
                    Delta-U             31.1632        0.0120   0.0303
0.4
                    Length           23200.0453

(V1047 PostProcessed 27-MAR-2013 14:52:14.0 131765 vector processing.asc)
MDOT                Delta-N          -1409.7504       -0.0524   0.0233
2.3     1:234
1103                Delta-E          28120.5794        0.0071   0.0214
0.3
                    Delta-U             31.5622        0.0255   0.0366
0.7
                    Length           28155.9120
```

```
(V1048 PostProcessed 27-MAR-2013 18:29:29.0 131765 vector processing.asc)
MDOT                Delta-N          -1409.7504       -0.0725   0.0276
2.6     1:239
1103                Delta-E          28120.5794       -0.0018   0.0229
0.1
                    Delta-U             31.5622       -0.1019   0.0391
2.6
                    Length           28155.9120

(V1049 PostProcessed 27-MAR-2013 15:03:34.0 131765 vector processing.asc)
MDOT                Delta-N          -2512.2705       -0.0325   0.0370
0.9     1:244
1101                Delta-E          35124.9053        0.0010   0.0333
0.0
                    Delta-U             32.6759        0.0888   0.0867
1.0
                    Length           35214.6496

(V1050 PostProcessed 27-MAR-2013 18:43:14.0 131765 vector processing.asc)
MDOT                Delta-N          -4640.5873       -0.0662   0.0297
2.2     1:249
C519                Delta-E          28300.4422        0.0127   0.0237
0.5
                    Delta-U             31.7786       -0.0524   0.0437
1.2
                    Length           28678.4081

(V1051 PostProcessed 27-MAR-2013 18:47:54.0 131765 vector processing.asc)
MDOT                Delta-N          -7627.9553       -0.0328   0.0397
0.8     1:254
1100                Delta-E          35436.1617        0.0116   0.0247
0.5
                    Delta-U             40.3881       -0.0034   0.0574
0.1
                    Length           36247.8812

(V1052 PostProcessed 27-MAR-2013 15:19:54.0 131765 vector processing.asc)
MDOT                Delta-N          -7627.9553       -0.0465   0.0248
1.9     1:259
1100                Delta-E          35436.1617       -0.0125   0.0227
0.6
                    Delta-U             40.3881       -0.0512   0.0405
1.3
                    Length           36247.8812

(V1053 PostProcessed 27-MAR-2013 19:00:19.0 131765 vector processing.asc)
MDOT                Delta-N          -3780.6086       -0.0743   0.0310
2.4     1:264
D519                Delta-E          28233.1033        0.0128   0.0249
0.5
                    Delta-U             32.2374       -0.0015   0.0513
0.0
                    Length           28485.1218
```

```
(V1054 PostProcessed 27-MAR-2013 15:30:59.0 131765 vector processing.asc)
MDOT                Delta-N          -3780.6086       -0.0688   0.0282
2.4     1:269
D519                Delta-E          28233.1033        0.0155   0.0251
0.6
                    Delta-U             32.2374       -0.1379   0.0450
3.1*
                    Length           28485.1218

(V1055 PostProcessed 27-MAR-2013 15:39:34.0 131765 vector processing.asc)
MDOT                Delta-N          -7665.6451       -0.0262   0.0262
1.0     1:274
B_519               Delta-E          29973.2684        0.0179   0.0236
0.8
                    Delta-U             39.8428        0.0058   0.0494
0.1
                    Length           30938.0109

(V1056 PostProcessed 27-MAR-2013 19:03:29.0 131765 vector processing.asc)
MDOT                Delta-N          -7665.6451       -0.0327   0.0270
1.2     1:279
B_519               Delta-E          29973.2684       -0.0003   0.0232
0.0
                    Delta-U             39.8428       -0.0969   0.0348
2.8
                    Length           30938.0109

(V1057 PostProcessed 27-MAR-2013 19:18:14.0 131765 vector processing.asc)
MDOT                Delta-N          -1440.3316       -0.0494   0.0281
1.8     1:284
1105                Delta-E          20465.4173        0.0309   0.0231
1.3
                    Delta-U             23.1846        0.0209   0.0414
0.5
                    Length           20516.0522

(V1058 PostProcessed 27-MAR-2013 15:48:14.0 131765 vector processing.asc)
MDOT                Delta-N          -1440.3316       -0.0559   0.0241
2.3     1:289
1105                Delta-E          20465.4173        0.0307   0.0220
1.4
                    Delta-U             23.1846       -0.0771   0.0330
2.3
                    Length           20516.0522

(V1059 PostProcessed 27-MAR-2013 15:52:39.0 131765 vector processing.asc)
MDOT                Delta-N          -6993.4259       -0.0584   0.0258
2.3     1:294
1102                Delta-E          28215.5991        0.0151   0.0228
0.7
                    Delta-U             35.5029        0.0228   0.0401
0.6
                    Length           29069.3876
```

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(V1060 PostProcessed 27-MAR-2013 19:16:04.0 131765 vector processing.asc)
MDOT                Delta-N          -6993.4259       -0.0277   0.0299
0.9     1:299
1102                Delta-E          28215.5991        0.0110   0.0258
0.4
                    Delta-U             35.5029       -0.0899   0.0404
2.2
                    Length           29069.3876

(V1061 PostProcessed 27-MAR-2013 16:08:24.0 131765 vector processing.asc)
MDOT                Delta-N          -5726.7773       -0.0370   0.0276
1.3     1:304
1104                Delta-E          20308.0565        0.0099   0.0234
0.4
                    Delta-U             26.6890       -0.0065   0.0380
0.2
                    Length           21100.0913

(V1062 PostProcessed 27-MAR-2013 19:32:04.0 131765 vector processing.asc)
MDOT                Delta-N          -5726.7773       -0.0094   0.0268
0.4     1:309
1104                Delta-E          20308.0565        0.0275   0.0232
1.2
                    Delta-U             26.6890       -0.0554   0.0366
1.5
                    Length           21100.0913

(V1063 PostProcessed 27-MAR-2013 16:09:14.0 131765 vector processing.asc)
MDOT                Delta-N           -100.5454       -0.0713   0.0236
3.0*    1:314
1106                Delta-E           8710.9242        0.0173   0.0211
0.8
                    Delta-U             12.6680        0.0339   0.0304
1.1
                    Length            8711.5137

(V1064 PostProcessed 27-MAR-2013 19:49:19.0 131765 vector processing.asc)
MDOT                Delta-N          -5848.4021       -0.0629   0.0264
2.4     1:319
1108                Delta-E          13462.2384        0.0069   0.0230
0.3
                    Delta-U             18.4166        0.0472   0.0488
1.0
                    Length           14677.7386

(V1065 PostProcessed 27-MAR-2013 16:24:09.0 131765 vector processing.asc)
MDOT                Delta-N          -5848.4021       -0.0371   0.0243
1.5     1:324
1108                Delta-E          13462.2384        0.0102   0.0218
0.5
                    Delta-U             18.4166       -0.0074   0.0295
0.2
                    Length           14677.7386
```

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(V1066 PostProcessed 27-MAR-2013 20:05:09.0 131765 vector processing.asc)
MDOT                Delta-N          -8241.3199       -0.0435   0.0234
1.9     1:329
1107                Delta-E           8068.9413        0.0129   0.0218
0.6
                    Delta-U              7.3721        0.0287   0.0366
0.8
                    Length           11533.7427

(V1067 PostProcessed 27-MAR-2013 16:39:29.0 131765 vector processing.asc)
MDOT                Delta-N          -8241.3199       -0.0471   0.0242
1.9     1:334
1107                Delta-E           8068.9413        0.0235   0.0214
1.1
                    Delta-U              7.3721       -0.0289   0.0296
1.0
                    Length           11533.7427

(V1068 PostProcessed 27-MAR-2013 20:05:24.0 131765 vector processing.asc)
MDOT                Delta-N          -1653.2486       -0.0515   0.0199
2.6     1:339
1112                Delta-E            113.9592        0.0006   0.0195
0.0
                    Delta-U             -1.5825        0.0370   0.0246
1.5
                    Length            1657.1723

(V1069 PostProcessed 27-MAR-2013 16:47:14.0 131765 vector processing.asc)
MDOT                Delta-N          -1653.2486       -0.0298   0.0207
1.4     1:344
1112                Delta-E            113.9592        0.0231   0.0195
1.2
                    Delta-U             -1.5825        0.0018   0.0235
0.1
                    Length            1657.1723

(V1070 PostProcessed 26-MAR-2013 22:14:29.0 131765 vector processing.asc)
MDOT                Delta-N          -7915.1042       -0.0075   0.0210
0.4     1:349
1113                Delta-E            -16.5869       -0.0303   0.0213
1.4
                    Delta-U             -7.3139        0.0136   0.0334
0.4
                    Length            7915.1250

(V1071 PostProcessed 26-MAR-2013 15:21:24.0 131765 vector processing.asc)
MDOT                Delta-N          -7915.1042       -0.0070   0.0224
0.3     1:354
1113                Delta-E            -16.5869       -0.0197   0.0209
0.9
                    Delta-U             -7.3139       -0.0277   0.0355
0.8
                    Length            7915.1250
```

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(V1072 PostProcessed 26-MAR-2013 19:48:34.0 131765 vector processing.asc)
MDOT                Delta-N          -554.1772       -0.1028   0.0310
3.3*    1:359
1BB1                Delta-E        -40955.5178       -0.0111   0.0256
0.4
                    Delta-U           -93.6298        0.0394   0.0571
0.7
                    Length          40959.3739

(V1073 PostProcessed 26-MAR-2013 15:49:14.0 131765 vector processing.asc)
MDOT                Delta-N          -554.1772       -0.0548   0.0249
2.2     1:364
1BB1                Delta-E        -40955.5178       -0.0244   0.0229
1.1
                    Delta-U           -93.6298       -0.1185   0.0356
3.3*
                    Length          40959.3739

(V1074 PostProcessed 26-MAR-2013 15:51:49.0 131765 vector processing.asc)
MDOT                Delta-N        -21082.6203       -0.0121   0.0313
0.4     1:369
1126                Delta-E        -40512.2884       -0.0102   0.0262
0.4
                    Delta-U          -129.1530        0.0546   0.0558
1.0
                    Length          45669.8924

(V1075 PostProcessed 26-MAR-2013 19:21:39.0 131765 vector processing.asc)
MDOT                Delta-N        -21082.6203       -0.0120   0.0266
0.5     1:374
1126                Delta-E        -40512.2884       -0.0416   0.0250
1.7
                    Delta-U          -129.1530       -0.0348   0.0403
0.9
                    Length          45669.8924

(V1076 PostProcessed 26-MAR-2013 20:08:24.0 131765 vector processing.asc)
MDOT                Delta-N         -7836.2995       -0.0420   0.0299
1.4     1:379
W519                Delta-E        -51094.3341       -0.0216   0.0263
0.8
                    Delta-U          -138.2802        0.0076   0.0499
0.2
                    Length          51691.9499

(V1077 PostProcessed 26-MAR-2013 16:09:49.0 131765 vector processing.asc)
MDOT                Delta-N         -7836.2995        0.1033   0.0311
3.3*    1:384
W519                Delta-E        -51094.3341        0.0271   0.0323
0.8
                    Delta-U          -138.2802       -0.1036   0.0462
2.2
                    Length          51691.9499
```

(V1078 PostProcessed 26-MAR-2013 16:10:39.0 131765 vector processing.asc)

MDOT		Delta-N	-17142.7494	0.0095	0.0283	0.3
1:389						
1121		Delta-E	-29802.2519	-0.0170	0.0238	0.7
		Delta-U	-89.2861	0.0507	0.0400	1.3
		Length	34381.0420			

(V1079 PostProcessed 26-MAR-2013 19:37:04.0 131765 vector processing.asc)

MDOT		Delta-N	-17142.7494	-0.0025	0.0269	0.1
1:394						
1121		Delta-E	-29802.2519	-0.0280	0.0236	1.2
		Delta-U	-89.2861	-0.0461	0.0383	1.2
		Length	34381.0420			

(V1080 PostProcessed 26-MAR-2013 19:52:54.0 131765 vector processing.asc)

MDOT		Delta-N	-12580.2830	-0.0387	0.0308	1.3
1:399						
1127		Delta-E	-27354.6059	-0.0391	0.0262	1.5
		Delta-U	-83.7027	0.1039	0.0613	1.7
		Length	30108.8856			

(V1081 PostProcessed 26-MAR-2013 16:28:09.0 131765 vector processing.asc)

MDOT		Delta-N	-12580.2830	-0.0094	0.0267	0.4
1:404						
1127		Delta-E	-27354.6059	-0.0410	0.0218	1.9
		Delta-U	-83.7027	-0.0077	0.0347	0.2
		Length	30108.8856			

(V1082 PostProcessed 26-MAR-2013 20:26:14.0 131765 vector processing.asc)

MDOT		Delta-N	-15087.1505	-0.0268	0.0269	1.0
1:409						
1125		Delta-E	-42286.0033	-0.0160	0.0246	0.6
		Delta-U	-136.8121	-0.0003	0.0452	0.0
		Length	44897.0702			

(V1083 PostProcessed 26-MAR-2013 16:28:29.0 131765 vector processing.asc)

MDOT		Delta-N	-15087.1505	0.0186	0.0260	0.7
1:414						
1125		Delta-E	-42286.0033	-0.0187	0.0233	0.8
		Delta-U	-136.8121	-0.0441	0.0323	1.4
		Length	44897.0702			

```
(V1084 PostProcessed 26-MAR-2013 20:41:04.0 131765 vector processing.asc)
MDOT                Delta-N         -10648.6701       -0.0264   0.0271
1.0     1:419
1124                Delta-E         -42038.6543       -0.0018   0.0243
0.1
                    Delta-U           -128.0415        0.0512   0.0418
1.2
                    Length           43366.5657

(V1085 PostProcessed 26-MAR-2013 16:45:34.0 131765 vector processing.asc)
MDOT                Delta-N         -10648.6701        0.0074   0.0346
0.2     1:424
1124                Delta-E         -42038.6543       -0.0196   0.0304
0.6
                    Delta-U           -128.0415       -0.0918   0.0450
2.0
                    Length           43366.5657

(V1086 PostProcessed 26-MAR-2013 20:11:14.0 131765 vector processing.asc)
MDOT                Delta-N         -14515.4837       -0.0167   0.0271
0.6     1:429
1119                Delta-E         -22521.3160       -0.0580   0.0245
2.4
                    Delta-U             -66.7262        0.0562   0.0474
1.2
                    Length           26793.9059

(V1087 PostProcessed 26-MAR-2013 16:47:09.0 131765 vector processing.asc)
MDOT                Delta-N         -14515.4837        0.0158   0.0267
0.6     1:434
1119                Delta-E         -22521.3160       -0.0298   0.0237
1.3
                    Delta-U             -66.7262       -0.0396   0.0350
1.1
                    Length           26793.9059

(V1088 PostProcessed 26-MAR-2013 17:02:19.0 131765 vector processing.asc)
MDOT                Delta-N          -8556.8701        0.0068   0.0333
0.2     1:439
1123                Delta-E         -34975.7632       -0.0190   0.0264
0.7
                    Delta-U             -91.8504        0.0316   0.0538
0.6
                    Length           36007.3948

(V1089 PostProcessed 26-MAR-2013 20:56:04.0 131765 vector processing.asc)
MDOT                Delta-N          -8556.8701       -0.0311   0.0259
1.2     1:444
1123                Delta-E         -34975.7632       -0.0184   0.0235
0.8
                    Delta-U             -91.8504       -0.0532   0.0366
1.5
                    Length           36007.3948
```

```
(V1090 PostProcessed 26-MAR-2013 17:03:14.0 131765 vector processing.asc)
MDOT                Delta-N         -18485.0138        0.0049   0.0330
0.1     1:449
1120                Delta-E         -23227.4099       -0.0188   0.0262
0.7
                    Delta-U            -72.2036        0.0562   0.0537
1.0
                    Length           29685.2408

(V1091 PostProcessed 26-MAR-2013 20:27:34.0 131765 vector processing.asc)
MDOT                Delta-N         -18485.0138       -0.0180   0.0254
0.7     1:454
1120                Delta-E         -23227.4099       -0.0512   0.0236
2.2
                    Delta-U            -72.2036       -0.0264   0.0373
0.7
                    Length           29685.2408

(V1092 PostProcessed 26-MAR-2013 21:08:54.0 131765 vector processing.asc)
MDOT                Delta-N          -6536.0528       -0.0337   0.0300
1.1     1:459
1122                Delta-E         -30207.7800       -0.0180   0.0248
0.7
                    Delta-U            -74.8555        0.0081   0.0544
0.1
                    Length           30906.8854

(V1093 PostProcessed 26-MAR-2013 17:18:14.0 131765 vector processing.asc)
MDOT                Delta-N          -6536.0528        0.0137   0.0233
0.6     1:464
1122                Delta-E         -30207.7800       -0.0152   0.0245
0.6
                    Delta-U            -74.8555       -0.0388   0.0377
1.0
                    Length           30906.8854

(V1094 PostProcessed 26-MAR-2013 17:25:54.0 131765 vector processing.asc)
MDOT                Delta-N         -29204.9235        0.0078   0.0278
0.3     1:469
D_521               Delta-E         -14250.5412       -0.0213   0.0270
0.8
                    Delta-U            -34.6939        0.0803   0.0574
1.4
                    Length           32496.2564

(V1095 PostProcessed 26-MAR-2013 20:45:44.0 131765 vector processing.asc)
MDOT                Delta-N         -29204.9235       -0.0346   0.0254
1.4     1:474
D_521               Delta-E         -14250.5412       -0.0386   0.0220
1.8
                    Delta-U            -34.6939       -0.0360   0.0360
1.0
                    Length           32496.2564
```

```
(V1096 PostProcessed 26-MAR-2013 21:24:59.0 131765 vector processing.asc)
MDOT                Delta-N          -7857.1476        0.0010   0.0306
0.0     1:479
1118                Delta-E         -24885.6390       -0.0119   0.0250
0.5
                    Delta-U            -61.9769        0.0668   0.0723
0.9
                    Length           26096.6212

(V1097 PostProcessed 26-MAR-2013 17:33:39.0 131765 vector processing.asc)
MDOT                Delta-N          -7857.1476        0.0140   0.0227
0.6     1:484
1118                Delta-E         -24885.6390       -0.0162   0.0241
0.7
                    Delta-U            -61.9769       -0.0260   0.0433
0.6
                    Length           26096.6212

(V1098 PostProcessed 26-MAR-2013 17:44:49.0 131765 vector processing.asc)
MDOT                Delta-N         -11398.8998        0.0118   0.0262
0.4     1:489
1116                Delta-E         -15036.1826       -0.0301   0.0260
1.2
                    Delta-U            -44.2803        0.0236   0.0629
0.4
                    Length           18868.5893

(V1099 PostProcessed 26-MAR-2013 21:03:54.0 131765 vector processing.asc)
MDOT                Delta-N         -11398.8998       -0.0217   0.0228
1.0     1:494
1116                Delta-E         -15036.1826       -0.0506   0.0225
2.2
                    Delta-U            -44.2803       -0.0246   0.0359
0.7
                    Length           18868.5893

(V1100 PostProcessed 26-MAR-2013 21:32:39.0 131765 vector processing.asc)
MDOT                Delta-N         -13716.1430        0.0000   0.0291
0.0     1:499
1115                Delta-E         -13283.5897       -0.0251   0.0261
1.0
                    Delta-U            -43.2129        0.1133   0.0768
1.5
                    Length           19094.1929

(V1101 PostProcessed 26-MAR-2013 18:31:24.0 131765 vector processing.asc)
MDOT                Delta-N         -13716.1430        0.0062   0.0247
0.3     1:504
1115                Delta-E         -13283.5897       -0.0379   0.0222
1.7
                    Delta-U            -43.2129       -0.0110   0.0459
0.2
                    Length           19094.1929
```

```
(V1102 PostProcessed 26-MAR-2013 21:38:59.0 131765 vector processing.asc)
MDOT                Delta-N          -5844.9091       -0.0037   0.0240
0.2     1:509
1117                Delta-E         -16968.0727       -0.0046   0.0235
0.2
                    Delta-U            -39.8810        0.0194   0.0545
0.4
                    Length           17946.5886

(V1103 PostProcessed 26-MAR-2013 18:34:14.0 131765 vector processing.asc)
MDOT                Delta-N          -5844.9091       -0.0046   0.0227
0.2     1:514
1117                Delta-E         -16968.0727       -0.0522   0.0220
2.4
                    Delta-U            -39.8810       -0.0441   0.0387
1.1
                    Length           17946.5886

(V1104 PostProcessed 26-MAR-2013 21:45:24.0 131765 vector processing.asc)
MDOT                Delta-N         -12189.5008       -0.0011   0.0232
0.0     1:519
1109                Delta-E          -8677.7449       -0.0269   0.0240
1.1
                    Delta-U            -29.6630        0.0038   0.0563
0.1
                    Length           14962.8896

(V1105 PostProcessed 26-MAR-2013 18:44:59.0 131765 vector processing.asc)
MDOT                Delta-N         -12189.5008        0.0007   0.0221
0.0     1:524
1109                Delta-E          -8677.7449       -0.0265   0.0218
1.2
                    Delta-U            -29.6630       -0.0275   0.0352
0.8
                    Length           14962.8896

(V1106 PostProcessed 26-MAR-2013 21:55:24.0 131765 vector processing.asc)
MDOT                Delta-N          -1975.9944       -0.0051   0.0204
0.3     1:529
1111                Delta-E          -9346.5544       -0.0160   0.0211
0.8
                    Delta-U            -20.2341        0.0203   0.0373
0.5
                    Length            9553.1692

(V1107 PostProcessed 26-MAR-2013 18:52:34.0 131765 vector processing.asc)
MDOT                Delta-N          -1975.9944       -0.0108   0.0228
0.5     1:534
1111                Delta-E          -9346.5544       -0.0435   0.0206
2.1
                    Delta-U            -20.2341        0.0087   0.0284
0.3
                    Length            9553.1692
```

```
(V1108 PostProcessed 26-MAR-2013 21:58:14.0 131765 vector processing.asc)
MDOT                Delta-N         -12076.0789        0.0031   0.0215
0.1     1:539
1110                Delta-E          -5254.3752       -0.0273   0.0225
1.2
                    Delta-U            -24.7856        0.0037   0.0429
0.1
                    Length           13169.6908

(V1109 PostProcessed 26-MAR-2013 18:58:04.0 131765 vector processing.asc)
MDOT                Delta-N         -12076.0789       -0.0121   0.0237
0.5     1:544
1110                Delta-E          -5254.3752       -0.0295   0.0212
1.4
                    Delta-U            -24.7856       -0.0294   0.0303
1.0
                    Length           13169.6908

(V1110 PostProcessed 26-MAR-2013 22:08:34.0 131765 vector processing.asc)
MDOT                Delta-N          -5622.9333       -0.0082   0.0250
0.3     1:549
1114                Delta-E          -8918.3556       -0.0144   0.0261
0.5
                    Delta-U            -24.4717        0.0533   0.0535
1.0
                    Length           10543.0092

(V1111 PostProcessed 26-MAR-2013 19:05:24.0 131765 vector processing.asc)
MDOT                Delta-N          -5622.9333       -0.0113   0.0229
0.5     1:554
1114                Delta-E          -8918.3556       -0.0417   0.0209
2.0
                    Delta-U            -24.4717       -0.0021   0.0292
0.1
                    Length           10543.0092

(V1112 PostProcessed 26-MAR-2013 22:26:29.0 131765 vector processing.asc)
MDOT                Delta-N          -1466.8227       -0.0107   0.0218
0.5     1:559
M519                Delta-E          -8933.4210       -0.0256   0.0217
1.2
                    Delta-U            -18.9092        0.0097   0.0349
0.3
                    Length            9053.0623

(V1113 PostProcessed 26-MAR-2013 19:25:04.0 131765 vector processing.asc)
MDOT                Delta-N          -1466.8227       -0.0161   0.0235
0.7     1:564
M519                Delta-E          -8933.4210       -0.0424   0.0210
2.0
                    Delta-U            -18.9092       -0.0047   0.0308
0.2
                    Length            9053.0623
```

```
(V1114 PostProcessed 26-MAR-2013 22:14:29.0 131765 vector processing.asc)
1113                Delta-N          2292.1596        0.0002   0.0230
0.0     1:569
1114                Delta-E         -8901.7698       -0.0012   0.0236
0.1
                    Delta-U           -18.0209       -0.0218   0.0434
0.5
                    Length           9192.1612

(V1115 PostProcessed 26-MAR-2013 15:51:49.0 131765 vector processing.asc)
1126                Delta-N         20527.8874       -0.0167   0.0267
0.6     1:574
1BB1                Delta-E          -469.3483       -0.0276   0.0235
1.2
                    Delta-U            15.6226       -0.0262   0.0453
0.6
                    Length          20533.2582

(V1117 PostProcessed 26-MAR-2013 16:28:29.0 131765 vector processing.asc)
1127                Delta-N         -2519.7517        0.0013   0.0265
0.1     1:584
1125                Delta-E        -14929.2886       -0.0165   0.0225
0.7
                    Delta-U           -32.0986        0.0392   0.0330
1.2
                    Length          15140.4701

(V1118 PostProcessed 26-MAR-2013 19:52:54.0 131765 vector processing.asc)
1127                Delta-N         12014.3850       -0.0424   0.0326
1.3     1:589
1BB1                Delta-E        -13611.2702       -0.0023   0.0272
0.1
                    Delta-U             0.5774       -0.0630   0.0667
0.9
                    Length          18155.2231

(V1119 PostProcessed 26-MAR-2013 20:27:34.0 131765 vector processing.asc)
1125                Delta-N         -3372.4574       -0.0027   0.0260
0.1     1:594
1120                Delta-E         19063.1935       -0.0081   0.0239
0.3
                    Delta-U            28.5946       -0.0057   0.0427
0.1
                    Length          19359.2260

(V1120 PostProcessed 26-MAR-2013 20:45:44.0 131765 vector processing.asc)
1124                Delta-N        -18519.4175       -0.0096   0.0316
0.3     1:599
D_521               Delta-E         27812.7928       -0.0168   0.0274
0.6
                    Delta-U            47.0587       -0.0249   0.0516
0.5
                    Length          33414.4053
```

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(V1121 PostProcessed 26-MAR-2013 16:47:09.0 131765 vector processing.asc)
1119                Delta-N           3852.9391        0.0122   0.0318
0.4     1:604
1124                Delta-E         -19520.1309       -0.0371   0.0246
1.5
                    Delta-U            -43.0238       -0.0036   0.0442
0.1
                    Length           19896.7962

(V1123 PostProcessed 26-MAR-2013 17:03:14.0 131765 vector processing.asc)
1120                Delta-N           9919.5374        0.0083   0.0292
0.3     1:614
1123                Delta-E         -11755.6271       -0.0254   0.0240
1.1
                    Delta-U            -15.4220        0.0140   0.0454
0.3
                    Length           15381.5548

(V1124 PostProcessed 26-MAR-2013 17:25:54.0 131765 vector processing.asc)
D_521               Delta-N          22661.6461        0.0053   0.0384
0.1     1:619
1122                Delta-E         -15967.4308       -0.0274   0.0365
0.7
                    Delta-U            -61.0589        0.0487   0.0864
0.6
                    Length           27722.0631

(V1125 PostProcessed 26-MAR-2013 17:33:39.0 131765 vector processing.asc)
D_521               Delta-N          21342.9535       -0.0139   0.0356
0.4     1:624
1118                Delta-E         -10644.6901        0.0020   0.0353
0.1
                    Delta-U            -49.9504       -0.0128   0.0881
0.1
                    Length           23850.2324

(V1126 PostProcessed 26-MAR-2013 21:03:54.0 131765 vector processing.asc)
1116                Delta-N           2832.5667        0.0062   0.0401
0.2     1:629
1123                Delta-E         -19940.9535        0.0074   0.0322
0.2
                    Delta-U            -34.8114       -0.0143   0.0720
0.2
                    Length           20141.1587

(V1127 PostProcessed 26-MAR-2013 21:08:54.0 131765 vector processing.asc)
1116                Delta-N           4855.6492       -0.0027   0.0291
0.1     1:634
1122                Delta-E         -15173.9170       -0.0061   0.0248
0.2
                    Delta-U            -22.3437       -0.0094   0.0500
0.2
                    Length           15931.9046
```

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(V1128 PostProcessed 26-MAR-2013 18:34:14.0 131765 vector processing.asc)
1115                Delta-N           7869.6936        0.0069   0.0270
0.3     1:639
1117                Delta-E          -3687.7731       -0.0186   0.0214
0.9
                    Delta-U              0.4902        0.0544   0.0441
1.2
                    Length            8690.9003

(V1129 PostProcessed 26-MAR-2013 21:38:59.0 131765 vector processing.asc)
1115                Delta-N           7869.6936        0.0010   0.0245
0.0     1:644
1117                Delta-E          -3687.7731        0.0121   0.0243
0.5
                    Delta-U              0.4902       -0.0832   0.0484
1.7
                    Length            8690.9003

(V1130 PostProcessed 26-MAR-2013 21:32:39.0 131765 vector processing.asc)
1115                Delta-N           5854.1319       -0.0133   0.0323
0.4     1:649
1118                Delta-E         -11604.5092       -0.0084   0.0267
0.3
                    Delta-U            -15.2612        0.0098   0.0826
0.1
                    Length           12997.5277

(V1131 PostProcessed 26-MAR-2013 18:52:34.0 131765 vector processing.asc)
1109                Delta-N          10213.3271       -0.0005   0.0363
0.0     1:654
1111                Delta-E           -671.5972       -0.0129   0.0277
0.5
                    Delta-U              3.7348       -0.0187   0.0562
0.3
                    Length           10235.3851

(V1132 PostProcessed 26-MAR-2013 21:45:24.0 131765 vector processing.asc)
1109                Delta-N           6342.3203        0.0094   0.0245
0.4     1:659
1117                Delta-E          -8292.0651        0.0136   0.0250
0.5
                    Delta-U            -10.4929       -0.0168   0.0630
0.3
                    Length           10439.5154

(V1133 PostProcessed 26-MAR-2013 21:58:14.0 131765 vector processing.asc)
1110                Delta-N          10099.4087       -0.0063   0.0219
0.3     1:664
1111                Delta-E          -4093.8496        0.0130   0.0231
0.6
                    Delta-U             -0.2720        0.0115   0.0483
0.2
                    Length           10897.5988
```

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(V1134 PostProcessed 26-MAR-2013 18:58:04.0 131765 vector processing.asc)
1110                Delta-N          10099.4087        0.0126   0.0244
0.5     1:669
1111                Delta-E          -4093.8496       -0.0130   0.0220
0.6
                    Delta-U             -0.2720       -0.0494   0.0318
1.6
                    Length           10897.5988

(V1135 PostProcessed 26-MAR-2013 19:05:24.0 131765 vector processing.asc)
1110                Delta-N           6452.5388        0.0038   0.0252
0.1     1:674
1114                Delta-E          -3665.0482       -0.0014   0.0218
0.1
                    Delta-U             -2.5046        0.0008   0.0342
0.0
                    Length            7420.7710

(V1136 PostProcessed 26-MAR-2013 19:25:04.0 131765 vector processing.asc)
M519                Delta-N         -19624.6926       -0.0378   0.0336
1.1     1:679
1126                Delta-E         -31573.3887       -0.0242   0.0260
0.9
                    Delta-U            -95.3966        0.0512   0.0529
1.0
                    Length           37175.4830

(V1137 PostProcessed 27-MAR-2013 14:52:14.0 131765 vector processing.asc)
1BF1                Delta-N           2755.8163        0.0406   0.0205
2.0     1:684
1103                Delta-E           5300.2575        0.0013   0.0197
0.1
                    Delta-U              5.6195        0.0396   0.0272
1.5
                    Length            5973.8835

(V1138 PostProcessed 27-MAR-2013 18:29:29.0 131765 vector processing.asc)
1BF1                Delta-N           2755.8163        0.0105   0.0232
0.5     1:689
1103                Delta-E           5300.2575       -0.0118   0.0202
0.6
                    Delta-U              5.6195       -0.0262   0.0318
0.8
                    Length            5973.8835

(V1139 PostProcessed 27-MAR-2013 18:31:54.0 131765 vector processing.asc)
1BF1                Delta-N           1648.2619        0.0258   0.0268
1.0     1:694
1101                Delta-E          12303.7835       -0.0048   0.0214
0.2
                    Delta-U             14.5847        0.0561   0.0416
1.3
                    Length           12413.7048
```

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(V1140 PostProcessed 27-MAR-2013 15:03:34.0 131765 vector processing.asc)
1BF1                Delta-N          1648.2619        0.0282   0.0226
1.2     1:699
1101                Delta-E         12303.7835        0.0063   0.0211
0.3
                    Delta-U            14.5847       -0.0321   0.0338
0.9
                    Length          12413.7048

(V1141 PostProcessed 27-MAR-2013 15:15:29.0 131765 vector processing.asc)
1BF1                Delta-N          -475.1489        0.0243   0.0211
1.2     1:704
C519                Delta-E          5477.7968       -0.0055   0.0201
0.3
                    Delta-U             6.6779        0.0008   0.0328
0.0
                    Length           5498.3697

(V1142 PostProcessed 27-MAR-2013 18:43:14.0 131765 vector processing.asc)
1BF1                Delta-N          -475.1489        0.0225   0.0221
1.0     1:709
C519                Delta-E          5477.7968        0.0006   0.0201
0.0
                    Delta-U             6.6779       -0.0233   0.0272
0.9
                    Length           5498.3697

(V1143 PostProcessed 27-MAR-2013 18:47:54.0 131765 vector processing.asc)
1BF1                Delta-N         -3467.6438        0.0214   0.0251
0.9     1:714
1100                Delta-E         12611.3527        0.0087   0.0215
0.4
                    Delta-U            23.6590       -0.0032   0.0338
0.1
                    Length          13079.4240

(V1144 PostProcessed 27-MAR-2013 15:19:54.0 131765 vector processing.asc)
1BF1                Delta-N         -3467.6438        0.0166   0.0226
0.7     1:719
1100                Delta-E         12611.3527       -0.0091   0.0211
0.4
                    Delta-U            23.6590       -0.0329   0.0341
1.0
                    Length          13079.4240

(V1145 PostProcessed 27-MAR-2013 19:00:19.0 131765 vector processing.asc)
1BF1                Delta-N           384.8780        0.0294   0.0220
1.3     1:724
D519                Delta-E          5411.0758       -0.0037   0.0202
0.2
                    Delta-U             6.8914       -0.0023   0.0272
0.1
                    Length           5424.7507
```

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(V1146 PostProcessed 27-MAR-2013 15:30:59.0 131765 vector processing.asc)
1BF1                Delta-N            384.8780        0.0380   0.0211
1.8     1:729
D519                Delta-E           5411.0758       -0.0150   0.0201
0.7
                    Delta-U              6.8914       -0.0195   0.0298
0.7
                    Length            5424.7507

(V1147 PostProcessed 27-MAR-2013 15:39:34.0 131765 vector processing.asc)
1BF1                Delta-N          -3501.4067        0.0329   0.0223
1.5     1:734
B_519               Delta-E           7148.4376        0.0032   0.0207
0.2
                    Delta-U             17.1695        0.0362   0.0341
1.1
                    Length            7959.9186

(V1148 PostProcessed 27-MAR-2013 19:03:29.0 131765 vector processing.asc)
1BF1                Delta-N          -3501.4067        0.0235   0.0246
1.0     1:739
B_519               Delta-E           7148.4376       -0.0122   0.0211
0.6
                    Delta-U             17.1695       -0.0312   0.0302
1.0
                    Length            7959.9186

(V1149 PostProcessed 27-MAR-2013 19:18:14.0 131765 vector processing.asc)
1BF1                Delta-N           2730.7362        0.0310   0.0210
1.5     1:744
1105                Delta-E          -2354.9110       -0.0326   0.0196
1.7
                    Delta-U            -11.0921        0.0488   0.0253
1.9
                    Length            3605.9187

(V1150 PostProcessed 27-MAR-2013 15:48:14.0 131765 vector processing.asc)
1BF1                Delta-N           2730.7362        0.0278   0.0203
1.4     1:749
1105                Delta-E          -2354.9110       -0.0060   0.0195
0.3
                    Delta-U            -11.0921        0.0007   0.0248
0.0
                    Length            3605.9187

(V1151 PostProcessed 27-MAR-2013 15:52:39.0 131765 vector processing.asc)
1BF1                Delta-N          -2827.9251        0.0198   0.0220
0.9     1:754
1102                Delta-E           5391.2579       -0.0019   0.0205
0.1
                    Delta-U             10.7803        0.0308   0.0300
1.0
                    Length            6087.9338
```

```
(V1152 PostProcessed 27-MAR-2013 19:16:04.0 131765 vector processing.asc)
1BF1                Delta-N          -2827.9251        0.0466   0.0222
2.1     1:759
1102                Delta-E           5391.2579       -0.0211   0.0203
1.0
                    Delta-U             10.7803       -0.0134   0.0276
0.5
                    Length            6087.9338

(V1153 PostProcessed 27-MAR-2013 19:32:04.0 131765 vector processing.asc)
1BF1                Delta-N          -1555.5944        0.0292   0.0210
1.4     1:764
1104                Delta-E          -2515.3576       -0.0104   0.0196
0.5
                    Delta-U             -6.9020        0.0381   0.0260
1.5
                    Length            2957.5235

(V1154 PostProcessed 27-MAR-2013 19:39:49.0 131765 vector processing.asc)
1BF1                Delta-N           4078.9695        0.0289   0.0256
1.1     1:769
1106                Delta-E         -14108.4192       -0.0305   0.0222
1.4
                    Delta-U            -34.6829        0.0145   0.0406
0.4
                    Length           14686.2755

(V1155 PostProcessed 27-MAR-2013 16:09:14.0 131765 vector processing.asc)
1BF1                Delta-N           4078.9695        0.0386   0.0238
1.6     1:774
1106                Delta-E         -14108.4192       -0.0016   0.0216
0.1
                    Delta-U            -34.6829       -0.0508   0.0297
1.7
                    Length           14686.2755

(V1156 PostProcessed 27-MAR-2013 19:49:19.0 131765 vector processing.asc)
1BF1                Delta-N          -1672.2999        0.0352   0.0233
1.5     1:779
1108                Delta-E          -9361.2483       -0.0222   0.0213
1.0
                    Delta-U            -22.6084        0.0161   0.0374
0.4
                    Length            9509.4725

(V1157 PostProcessed 27-MAR-2013 16:24:09.0 131765 vector processing.asc)
1BF1                Delta-N          -1672.2999        0.0415   0.0234
1.8     1:784
1108                Delta-E          -9361.2483        0.0010   0.0210
0.0
                    Delta-U            -22.6084       -0.0148   0.0275
0.5
                    Length            9509.4725
```

```
(V1158 PostProcessed 27-MAR-2013 20:05:09.0 131765 vector processing.asc)
1BF1                Delta-N          -4061.3423        0.0372   0.0247
1.5     1:789
1107                Delta-E         -14756.2494       -0.0427   0.0227
1.9
                    Delta-U            -39.0503        0.0330   0.0405
0.8
                    Length           15304.9967

(V1159 PostProcessed 27-MAR-2013 16:39:29.0 131765 vector processing.asc)
1BF1                Delta-N          -4061.3423        0.0693   0.0257
2.7     1:794
1107                Delta-E         -14756.2494       -0.0047   0.0223
0.2
                    Delta-U            -39.0503       -0.0407   0.0324
1.3
                    Length           15304.9967

(V1160 PostProcessed 27-MAR-2013 20:05:24.0 131765 vector processing.asc)
1BF1                Delta-N           2532.4436        0.0368   0.0268
1.4     1:799
1112                Delta-E         -22706.4779       -0.0322   0.0241
1.3
                    Delta-U            -57.9891        0.0166   0.0466
0.4
                    Length           22847.3362

(V1161 PostProcessed 27-MAR-2013 16:47:14.0 131765 vector processing.asc)
1BF1                Delta-N           2532.4436        0.0908   0.0264
3.4*    1:804
1112                Delta-E         -22706.4779        0.0075   0.0236
0.3
                    Delta-U            -57.9891       -0.0671   0.0348
1.9
                    Length           22847.3362

(V1162 PostProcessed 27-MAR-2013 18:31:54.0 131765 vector processing.asc)
1103                Delta-N          -1108.7251       -0.0099   0.0275
0.4     1:809
1101                Delta-E           7003.3385        0.0027   0.0217
0.1
                    Delta-U             10.5909        0.0257   0.0442
0.6
                    Length            7090.5665

(V1163 PostProcessed 27-MAR-2013 15:03:34.0 131765 vector processing.asc)
1103                Delta-N          -1108.7251       -0.0186   0.0237
0.8     1:814
1101                Delta-E           7003.3385       -0.0031   0.0220
0.1
                    Delta-U             10.5909       -0.0433   0.0381
1.1
                    Length            7090.5665
```

```
(V1164 PostProcessed 27-MAR-2013 15:19:54.0 131765 vector processing.asc)
C519                Delta-N          -2993.7251        0.0038   0.0238
0.2     1:819
1100                Delta-E           7133.0349       -0.0052   0.0218
0.2
                    Delta-U             18.9146        0.0908   0.0443
2.0
                    Length            7735.8215

(V1165 PostProcessed 27-MAR-2013 18:47:54.0 131765 vector processing.asc)
C519                Delta-N          -2993.7251        0.0188   0.0257
0.7     1:824
1100                Delta-E           7133.0349        0.0083   0.0216
0.4
                    Delta-U             18.9146        0.0115   0.0343
0.3
                    Length            7735.8215

(V1166 PostProcessed 27-MAR-2013 19:03:29.0 131765 vector processing.asc)
D519                Delta-N          -3886.5810       -0.0088   0.0235
0.4     1:829
B_519               Delta-E           1736.6967       -0.0031   0.0205
0.2
                    Delta-U             10.6552       -0.0106   0.0286
0.4
                    Length            4256.9638

(V1167 PostProcessed 27-MAR-2013 19:18:14.0 131765 vector processing.asc)
1102                Delta-N           5559.9732       -0.0064   0.0249
0.3     1:834
1105                Delta-E          -7745.2190       -0.0077   0.0215
0.4
                    Delta-U            -24.6200        0.0274   0.0344
0.8
                    Length            9534.2711

(V1168 PostProcessed 27-MAR-2013 15:52:39.0 131765 vector processing.asc)
1102                Delta-N           5559.9732        0.0045   0.0239
0.2     1:839
1105                Delta-E          -7745.2190       -0.0012   0.0218
0.1
                    Delta-U            -24.6200       -0.0458   0.0332
1.4
                    Length            9534.2711

(V1169 PostProcessed 27-MAR-2013 16:09:14.0 131765 vector processing.asc)
1104                Delta-N           5633.6435       -0.0002   0.0261
0.0     1:844
1106                Delta-E         -11593.5112        0.0183   0.0224
0.8
                    Delta-U            -26.8093        0.0805   0.0352
2.3
                    Length           12889.8472
```

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(V1170 PostProcessed 27-MAR-2013 19:39:49.0 131765 vector processing.asc)
1104                Delta-N           5633.6435        0.0007   0.0293
0.0     1:849
1106                Delta-E         -11593.5112        0.0007   0.0252
0.0
                    Delta-U            -26.8093       -0.0859   0.0403
2.1
                    Length           12889.8472

(V1171 PostProcessed 27-MAR-2013 20:05:24.0 131765 vector processing.asc)
1107                Delta-N           6590.0879       -0.0021   0.0245
0.1     1:854
1112                Delta-E          -7953.3032       -0.0094   0.0225
0.4
                    Delta-U            -14.6228        0.0040   0.0400
0.1
                    Length           10328.8191

(V1172 PostProcessed 27-MAR-2013 16:47:14.0 131765 vector processing.asc)
1107                Delta-N           6590.0879        0.0256   0.0331
0.8     1:859
1112                Delta-E          -7953.3032        0.0087   0.0272
0.3
                    Delta-U            -14.6228       -0.0654   0.0450
1.5
                    Length           10328.8191

(V2001 PostProcessed 26-MAR-2013 14:58:34.0 131765 cgps processing.asc)
MDOT                Delta-N           8192.4368       -0.0070   0.0189
0.4     1:866
SRP1                Delta-E         -32150.3634       -0.0328   0.0188
1.7
                    Delta-U              0.6900       -0.0278   0.0306
0.9
                    Length           33177.7318

(V2002 PostProcessed 26-MAR-2013 14:58:34.0 131765 cgps processing.asc)
MDOT                Delta-N          51235.8842       -0.0108   0.0189
0.6     1:871
COSA                Delta-E          73185.6109       -0.0180   0.0188
1.0
                    Delta-U            145.5632        0.0319   0.0304
1.1
                    Length           89337.9576

(V2003 PostProcessed 26-MAR-2013 14:11:59.0 131765 cgps processing.asc)
SRP1                Delta-N          -6346.2538       -0.0089   0.0187
0.5     1:876
1BC1                Delta-E           9762.7779       -0.0229   0.0188
1.2
                    Delta-U            -50.7845        0.0035   0.0239
0.1
                    Length           11644.2839
```

(V2004 PostProcessed 26-MAR-2013 14:11:59.0 131765 cgps processing.asc)

COSA		Delta-N	-49177.3010	-0.0089	0.0188
0.5	1:881				
1BC1		Delta-E	-95692.2107	-0.0285	0.0189
1.5					
		Delta-U	-633.4911	-0.0019	0.0265
0.1					
		Length	107590.9263		

(V2005 PostProcessed 25-MAR-2013 23:59:44.0 131765 cgps processing.asc)

COSA		Delta-N	-42798.6364	-0.0022	0.0188
0.1	1:886				
SRP1		Delta-E	-105433.9644	0.0100	0.0188
0.5					
		Delta-U	-618.6446	0.0189	0.0227
0.8					
		Length	113791.1545		

GPS Vector Residual Summary (FeetInt)
(Sorted by 3D Residual Length)

From	To	N	E	Up	2D	3D	Length
VectID	File:Line						
MDOT	D519	-0.069	0.016	-0.138	0.070	0.155	28485
1054	1:269						
MDOT	W519	0.103	0.027	-0.104	0.107	0.149	51692
1077	1:384						
1BC1	W519	-0.103	-0.028	0.099	0.106	0.145	30287
1008	1:39						
1BC1	W519	0.085	0.072	-0.074	0.111	0.133	30287
1009	1:44						
MDOT	1BB1	-0.055	-0.024	-0.118	0.060	0.133	40959
1073	1:364						
MDOT	1103	-0.073	-0.002	-0.102	0.073	0.125	28156
1048	1:239						
MDOT	1127	-0.039	-0.039	0.104	0.055	0.118	30109
1080	1:399						
MDOT	1115	0.000	-0.025	0.113	0.025	0.116	19094
1100	1:499						
1BF1	1112	0.091	0.008	-0.067	0.091	0.113	22847
1161	1:804						
MDOT	1BB1	-0.103	-0.011	0.039	0.103	0.111	40959
1072	1:359						
MDOT	B_519	-0.033	-0.000	-0.097	0.033	0.102	30938
1056	1:279						
MDOT	1105	-0.056	0.031	-0.077	0.064	0.100	20516
1058	1:289						
MDOT	1102	-0.028	0.011	-0.090	0.030	0.095	29069
1060	1:299						
MDOT	1101	-0.032	0.001	0.089	0.032	0.095	35215
1049	1:244						
MDOT	1124	0.007	-0.020	-0.092	0.021	0.094	43367
1085	1:424						

C519	1100	0.004	-0.005	0.091	0.006	0.091	7736
1164	1:819						
MDOT	1BF1	-0.085	0.016	0.012	0.086	0.087	23200
1046	1:229						
1104	1106	0.001	0.001	-0.086	0.001	0.086	12890
1170	1:849						
MDOT	C519	-0.066	0.013	-0.052	0.067	0.085	28678
1050	1:249						
1BC1	1113	0.001	0.026	0.080	0.026	0.084	24410
1002	1:9						
1115	1117	0.001	0.012	-0.083	0.012	0.084	8691
1129	1:644						
MDOT	D_521	0.008	-0.021	0.080	0.023	0.083	32496
1094	1:469						
1BC1	M519	-0.006	0.031	0.077	0.032	0.083	13860
1044	1:219						
1104	1106	-0.000	0.018	0.080	0.018	0.083	12890
1169	1:844						
MDOT	1119	-0.017	-0.058	0.056	0.060	0.082	26794
1086	1:429						
MDOT	1106	-0.071	0.017	0.034	0.073	0.081	8712
1063	1:314						
1BF1	1107	0.069	-0.005	-0.041	0.069	0.080	15305
1159	1:794						
1BC1	1BB1	-0.026	0.003	-0.076	0.026	0.080	18715
1005	1:24						
MDOT	1108	-0.063	0.007	0.047	0.063	0.079	14678
1064	1:319						
1BC1	1116	0.021	0.038	0.063	0.043	0.077	15143
1030	1:149						
1127	1BB1	-0.042	-0.002	-0.063	0.042	0.076	18155
1118	1:589						
1BC1	1113	0.000	0.040	-0.064	0.040	0.076	24410
1003	1:14						
MDOT	D519	-0.074	0.013	-0.001	0.075	0.075	28485
1053	1:264						
1107	1112	0.026	0.009	-0.065	0.027	0.071	10329
1172	1:859						
MDOT	1100	-0.046	-0.013	-0.051	0.048	0.070	36248
1052	1:259						
1BC1	1111	-0.002	0.048	0.051	0.048	0.070	13593
1038	1:189						
MDOT	1117	-0.005	-0.052	-0.044	0.052	0.068	17947
1103	1:514						
M519	1126	-0.038	-0.024	0.051	0.045	0.068	37175
1136	1:679						
MDOT	1118	0.001	-0.012	0.067	0.012	0.068	26097
1096	1:479						
1BF1	1105	0.031	-0.033	0.049	0.045	0.066	3606
1149	1:744						
1BC1	1121	0.007	0.031	0.058	0.031	0.066	20374
1010	1:49						
1BF1	1107	0.037	-0.043	0.033	0.057	0.066	15305
1158	1:789						

MDOT	1102	-0.058	0.015	0.023	0.060	0.065	29069
1059	1:294						
MDOT	1123	-0.031	-0.018	-0.053	0.036	0.064	36007
1089	1:444						
1BF1	1106	0.039	-0.002	-0.051	0.039	0.064	14686
1155	1:774						
MDOT	1112	-0.052	0.001	0.037	0.052	0.063	1657
1068	1:339						
1BC1	MDOT	0.012	0.056	-0.027	0.057	0.063	22469
1001	1:4						
MDOT	D_521	-0.035	-0.039	-0.036	0.052	0.063	32496
1095	1:474						
MDOT	1104	-0.009	0.027	-0.055	0.029	0.063	21100
1062	1:309						
1BC1	1115	0.008	0.034	-0.052	0.035	0.063	18024
1033	1:164						
1BF1	1101	0.026	-0.005	0.056	0.026	0.062	12414
1139	1:694						
MDOT	1105	-0.049	0.031	0.021	0.058	0.062	20516
1057	1:284						
1BC1	D_521	-0.006	0.014	-0.060	0.015	0.062	32092
1027	1:134						
1BC1	1BB1	-0.057	0.009	0.017	0.058	0.060	18715
1004	1:19						
MDOT	1120	-0.018	-0.051	-0.026	0.054	0.060	29685
1091	1:454						
MDOT	1116	-0.022	-0.051	-0.025	0.055	0.060	18869
1099	1:494						
1BC1	1110	0.008	0.030	0.052	0.031	0.060	22075
1040	1:199						
1BC1	D_521	0.023	0.042	0.036	0.048	0.060	32092
1026	1:129						
MDOT	1107	-0.047	0.024	-0.029	0.053	0.060	11534
1067	1:334						
MDOT	1120	0.005	-0.019	0.056	0.019	0.059	29685
1090	1:449						
1BC1	M519	0.018	0.031	-0.047	0.036	0.059	13860
1045	1:224						
MDOT	1103	-0.052	0.007	0.025	0.053	0.059	28156
1047	1:234						
1BC1	1120	0.018	0.040	0.039	0.044	0.059	20338
1022	1:109						
1BC1	1117	-0.004	0.032	0.049	0.032	0.058	9404
1034	1:169						
1BC1	1109	-0.001	0.020	0.055	0.020	0.058	19618
1036	1:179						
1115	1117	0.007	-0.019	0.054	0.020	0.058	8691
1128	1:639						
MDOT	1124	-0.026	-0.002	0.051	0.026	0.058	43367
1084	1:419						
MDOT	1126	-0.012	-0.010	0.055	0.016	0.057	45670
1074	1:369						
1BF1	1103	0.041	0.001	0.040	0.041	0.057	5974
1137	1:684						

D_521	1122	0.005	-0.027	0.049	0.028	0.056	27722
1124	1:619						
MDOT	1114	-0.008	-0.014	0.053	0.017	0.056	10543
1110	1:549						
1BC1	1123	0.016	0.023	0.048	0.029	0.056	16319
1020	1:99						
MDOT	1126	-0.012	-0.042	-0.035	0.043	0.056	45670
1075	1:374						
1BC1	1124	0.036	0.018	-0.038	0.040	0.055	23277
1017	1:84						
MDOT	1121	0.009	-0.017	0.051	0.019	0.054	34381
1078	1:389						
1BC1	1124	-0.005	0.018	0.051	0.019	0.054	23277
1016	1:79						
MDOT	1121	-0.003	-0.028	-0.046	0.028	0.054	34381
1079	1:394						
MDOT	1107	-0.043	0.013	0.029	0.045	0.054	11534
1066	1:329						
1BF1	1102	0.047	-0.021	-0.013	0.051	0.053	6088
1152	1:759						
1BC1	1119	-0.019	0.001	0.049	0.019	0.053	16352
1018	1:89						
1BC1	1125	-0.019	0.019	0.045	0.027	0.053	26117
1014	1:69						
1110	1111	0.013	-0.013	-0.049	0.018	0.053	10898
1134	1:669						
MDOT	1119	0.016	-0.030	-0.040	0.034	0.052	26794
1087	1:434						
1BC1	1121	-0.008	0.012	-0.050	0.015	0.052	20374
1011	1:54						
1BF1	1112	0.037	-0.032	0.017	0.049	0.052	22847
1160	1:799						
MDOT	1125	0.019	-0.019	-0.044	0.026	0.051	44897
1083	1:414						
1BC1	1127	-0.022	0.014	0.044	0.026	0.051	15246
1012	1:59						
1BC1	1119	0.016	0.041	-0.023	0.044	0.050	16352
1019	1:94						
1BF1	1104	0.029	-0.010	0.038	0.031	0.049	2958
1153	1:764						
1BC1	1118	0.018	0.034	-0.030	0.039	0.049	10009
1029	1:144						
1BF1	B_519	0.033	0.003	0.036	0.033	0.049	7960
1147	1:734						
1BC1	1110	0.012	0.030	-0.036	0.032	0.049	22075
1041	1:204						
MDOT	W519	-0.042	-0.022	0.008	0.047	0.048	51692
1076	1:379						
1103	1101	-0.019	-0.003	-0.043	0.019	0.047	7091
1163	1:814						
1102	1105	0.005	-0.001	-0.046	0.005	0.046	9534
1168	1:839						
1BC1	1114	-0.001	0.039	0.024	0.039	0.046	15402
1042	1:209						

MDOT	M519	-0.016	-0.042	-0.005	0.045	0.046	9053
1113	1:564						
MDOT	1111	-0.011	-0.043	0.009	0.045	0.046	9553
1107	1:534						
1BF1	D519	0.038	-0.015	-0.020	0.041	0.045	5425
1146	1:729						
1BF1	1108	0.035	-0.022	0.016	0.042	0.045	9509
1156	1:779						
1BF1	1106	0.029	-0.030	0.015	0.042	0.044	14686
1154	1:769						
1BF1	1108	0.041	0.001	-0.015	0.041	0.044	9509
1157	1:784						
MDOT	1122	0.014	-0.015	-0.039	0.020	0.044	30907
1093	1:464						
1BC1	1126	0.018	0.001	-0.040	0.018	0.044	29216
1007	1:34						
MDOT	SRP1	-0.007	-0.033	-0.028	0.034	0.044	33178
2001	1:866						
MDOT	1110	-0.012	-0.029	-0.029	0.032	0.043	13170
1109	1:544						
MDOT	1114	-0.011	-0.042	-0.002	0.043	0.043	10543
1111	1:554						
1BF1	1101	0.028	0.006	-0.032	0.029	0.043	12414
1140	1:699						
1BC1	1122	0.025	0.029	-0.019	0.038	0.043	11452
1025	1:124						
MDOT	1127	-0.009	-0.041	-0.008	0.042	0.043	30109
1081	1:404						
1127	1125	0.001	-0.016	0.039	0.017	0.043	15140
1117	1:584						
1BC1	1116	-0.013	0.023	-0.032	0.027	0.042	15143
1031	1:154						
1126	1BB1	-0.017	-0.028	-0.026	0.032	0.042	20533
1115	1:574						
1BF1	B_519	0.024	-0.012	-0.031	0.027	0.041	7960
1148	1:739						
1BC1	1118	-0.004	0.004	0.040	0.006	0.041	10009
1028	1:139						
1BC1	1115	-0.010	0.015	0.036	0.018	0.041	18024
1032	1:159						
MDOT	1116	0.012	-0.030	0.024	0.032	0.040	18869
1098	1:489						
MDOT	1115	0.006	-0.038	-0.011	0.038	0.040	19094
1101	1:504						
1119	1124	0.012	-0.037	-0.004	0.039	0.039	19897
1121	1:604						
MDOT	1108	-0.037	0.010	-0.007	0.038	0.039	14678
1065	1:324						
MDOT	1122	-0.034	-0.018	0.008	0.038	0.039	30907
1092	1:459						
1BC1	1126	0.008	0.031	0.023	0.032	0.039	29216
1006	1:29						
MDOT	1104	-0.037	0.010	-0.007	0.038	0.039	21100
1061	1:304						

MDOT	COSA	-0.011	-0.018	0.032	0.021	0.038	89338
2002	1:871						
MDOT	1109	0.001	-0.027	-0.027	0.027	0.038	14963
1105	1:524						
1BF1	1100	0.017	-0.009	-0.033	0.019	0.038	13079
1144	1:719						
MDOT	1112	-0.030	0.023	0.002	0.038	0.038	1657
1069	1:344						
MDOT	1123	0.007	-0.019	0.032	0.020	0.037	36007
1088	1:439						
1BC1	1123	-0.024	0.017	-0.023	0.029	0.037	16319
1021	1:104						
1BF1	1102	0.020	-0.002	0.031	0.020	0.037	6088
1151	1:754						
1BC1	1122	-0.014	0.015	0.030	0.021	0.037	11452
1024	1:119						
1BC1	1109	0.011	0.034	-0.005	0.035	0.036	19618
1037	1:184						
1BC1	1125	0.019	0.021	-0.022	0.028	0.036	26117
1015	1:74						
MDOT	1100	-0.033	0.012	-0.003	0.035	0.035	36248
1051	1:254						
MDOT	1113	-0.007	-0.020	-0.028	0.021	0.035	7915
1071	1:354						
MDOT	1113	-0.008	-0.030	0.014	0.031	0.034	7915
1070	1:349						
1BC1	1114	0.015	0.023	-0.020	0.028	0.034	15402
1043	1:214						
MDOT	1118	0.014	-0.016	-0.026	0.021	0.034	26097
1097	1:484						
1BF1	C519	0.022	0.001	-0.023	0.022	0.032	5498
1142	1:709						
MDOT	B_519	-0.026	0.018	0.006	0.032	0.032	30938
1055	1:274						
1124	D_521	-0.010	-0.017	-0.025	0.019	0.031	33414
1120	1:599						
MDOT	1125	-0.027	-0.016	-0.000	0.031	0.031	44897
1082	1:409						
1BF1	1103	0.011	-0.012	-0.026	0.016	0.031	5974
1138	1:689						
1120	1123	0.008	-0.025	0.014	0.027	0.030	15382
1123	1:614						
COSA	1BC1	-0.009	-0.029	-0.002	0.030	0.030	107591
2004	1:881						
1BF1	D519	0.029	-0.004	-0.002	0.030	0.030	5425
1145	1:724						
1BC1	1111	0.012	0.027	-0.003	0.029	0.029	13593
1039	1:194						
MDOT	M519	-0.011	-0.026	0.010	0.028	0.029	9053
1112	1:559						
1102	1105	-0.006	-0.008	0.027	0.010	0.029	9534
1167	1:834						
1BF1	1105	0.028	-0.006	0.001	0.028	0.028	3606
1150	1:749						

1103	1101	-0.010	0.003	0.026	0.010	0.028	7091
1162	1:809						
MDOT	1110	0.003	-0.027	0.004	0.027	0.028	13170
1108	1:539						
1BC1	1120	-0.008	0.004	-0.026	0.009	0.027	20338
1023	1:114						
1BC1	1127	-0.001	0.021	-0.017	0.021	0.027	15246
1013	1:64						
MDOT	1109	-0.001	-0.027	0.004	0.027	0.027	14963
1104	1:519						
MDOT	1111	-0.005	-0.016	0.020	0.017	0.026	9553
1106	1:529						
1BF1	C519	0.024	-0.006	0.001	0.025	0.025	5498
1141	1:704						
SRP1	1BC1	-0.009	-0.023	0.003	0.025	0.025	11644
2003	1:876						
C519	1100	0.019	0.008	0.011	0.021	0.024	7736
1165	1:824						
1109	1117	0.009	0.014	-0.017	0.016	0.024	10440
1132	1:659						
1BF1	1100	0.021	0.009	-0.003	0.023	0.023	13079
1143	1:714						
1109	1111	-0.000	-0.013	-0.019	0.013	0.023	10235
1131	1:654						
1113	1114	0.000	-0.001	-0.022	0.001	0.022	9192
1114	1:569						
COSA	SRP1	-0.002	0.010	0.019	0.010	0.021	113791
2005	1:886						
MDOT	1117	-0.004	-0.005	0.019	0.006	0.020	17947
1102	1:509						
D_521	1118	-0.014	0.002	-0.013	0.014	0.019	23850
1125	1:624						
1115	1118	-0.013	-0.008	0.010	0.016	0.019	12998
1130	1:649						
1BC1	1117	-0.004	0.017	0.005	0.018	0.019	9404
1035	1:174						
1110	1111	-0.006	0.013	0.012	0.014	0.018	10898
1133	1:664						
1116	1123	0.006	0.007	-0.014	0.010	0.017	20141
1126	1:629						
D519	B_519	-0.009	-0.003	-0.011	0.009	0.014	4257
1166	1:829						
1116	1122	-0.003	-0.006	-0.009	0.007	0.012	15932
1127	1:634						
1107	1112	-0.002	-0.009	0.004	0.010	0.010	10329
1171	1:854						
1125	1120	-0.003	-0.008	-0.006	0.008	0.010	19359
1119	1:594						
1110	1114	0.004	-0.001	0.001	0.004	0.004	7421
1135	1:674						

Adjusted Bearings (DMS) and Horizontal Distances (FeetInt)

(Relative Confidence of Bearing is in Seconds)
NOTE - Adjustment Failed the Chi-Square Test
Angular and Distance Errors are Scaled by Total Error Factor

From	To	Grid Bearing	Grid Dist Grnd Dist	95% RelConfidence Brg	 Dist	 PPM
1100 2.2789	1BF1	N74-33-13.22W	13077.4742 13079.3945	0.54	0.0298	
1100 4.4851	C519	N67-10-12.23W	7734.6557 7735.7947	1.04	0.0347	
1100 0.8202	MDOT	N77-44-19.08W	36242.5715 36247.8102	0.20	0.0297	
1101 4.9498	1103	N80-56-29.04W	7089.5148 7090.5567	1.17	0.0351	
1101 2.7302	1BF1	S82-26-31.12W	12411.8719 12413.6914	0.63	0.0339	
1101 0.9559	MDOT	N85-47-44.27W	35209.5137 35214.5945	0.22	0.0337	
1102 3.5991	1105	N54-15-52.63W	9532.8540 9534.2447	0.76	0.0343	
1102 4.9008	1BF1	N62-14-56.91W	6087.0325 6087.9226	1.06	0.0298	
1102 1.0076	MDOT	N75-57-57.93W	29065.1529 29069.3343	0.23	0.0293	
1103 4.9932	1BF1	S62-36-01.41W	5973.0074 5973.8800	1.06	0.0298	
1103 1.0153	MDOT	N87-01-00.15W	28151.8205 28155.8667	0.23	0.0286	
1104 2.9915	1106	N64-00-24.51W	12887.9714 12889.8269	0.66	0.0386	
1104 11.5854	1BF1	N58-20-16.29E	2957.0858 2957.5159	2.53	0.0343	
1104 1.5833	MDOT	N74-08-18.57W	21097.0404 21100.0583	0.36	0.0334	
1105 8.1680	1BF1	S40-42-05.26E	3605.3782 3605.9025	1.67	0.0294	

1105	MDOT	N85-51-39.27W	20513.0930	0.31	0.0280	1.3662
			20516.0252			
1106	1BF1	S73-48-08.85E	14684.1278	0.51	0.0333	2.2707
			14686.2458			
1106	MDOT	N89-13-31.32W	8710.2664	0.87	0.0328	3.7685
			8711.5016			
1107	1112	N50-15-22.37W	10327.3483	0.76	0.0360	3.4850
			10328.8120			
1107	1BF1	N74-41-01.21E	15302.7550	0.44	0.0302	1.9731
			15304.9601			
1107	MDOT	N44-16-52.28W	11532.1029	0.57	0.0308	2.6700
			11533.7379			
1108	1BF1	N79-56-36.91E	9508.0746	0.79	0.0333	3.4980
			9509.4506			
1108	MDOT	N66-24-18.43W	14675.6305	0.51	0.0335	2.2840
			14677.7197			
1109	1111	N03-37-59.72W	10233.9640	0.78	0.0403	3.9370
			10235.3832			
1109	1117	N52-27-35.81W	10438.0766	0.78	0.0374	3.5840
			10439.5124			
1109	1BC1	N44-14-50.68W	19615.0751	0.33	0.0297	1.5166
			19617.7693			
1109	MDOT	N35-33-37.68E	14960.7789	0.41	0.0314	2.1007
			14962.8699			
1110	1111	N21-56-33.69W	10896.0839	0.63	0.0333	3.0521
			10897.5985			
1110	1114	N29-28-26.00W	7419.7400	1.05	0.0376	5.0729
			7420.7709			
1110	1BC1	N50-49-12.66W	22072.2625	0.27	0.0275	1.2447
			22075.3018			
1110	MDOT	N23-37-38.75E	13167.8291	0.43	0.0290	2.2017
			13169.6746			
1111	1BC1	N73-35-56.62W	13591.0833	0.44	0.0270	1.9838
			13592.9503			
1111	MDOT	N78-10-33.45E	9551.8174	0.61	0.0275	2.8769
			9553.1522			

1112	1BF1	S83-33-50.44E	22844.0174	0.28	0.0289	1.2637
			22847.2908			
1112	MDOT	N03-49-47.51W	1656.9379	3.61	0.0311	18.7696
			1657.1717			
1113	1114	N75-26-49.25W	9190.8647	0.89	0.0389	4.2338
			9192.1472			
1113	1BC1	N66-20-26.20W	24406.3854	0.27	0.0311	1.2758
			24409.7638			
1113	MDOT	N00-14-00.11E	7914.0074	0.81	0.0315	3.9845
			7915.1229			
1114	1BC1	N60-55-14.42W	15400.2132	0.41	0.0293	1.9041
			15402.3284			
1114	MDOT	N57-52-56.25E	10541.5136	0.58	0.0299	2.8329
			10542.9866			
1115	1117	N24-58-14.86W	8689.7095	0.83	0.0351	4.0357
			8690.9000			
1115	1118	N63-05-35.57W	12995.7579	0.68	0.0385	2.9637
			12997.5229			
1115	1BC1	N30-14-52.15W	18021.8639	0.35	0.0297	1.6505
			18024.3284			
1115	MDOT	N44-11-43.57E	19091.5060	0.31	0.0316	1.6545
			19094.1617			
1116	1122	N72-06-53.89W	15929.7472	0.57	0.0390	2.4481
			15931.8963			
1116	1123	N81-46-29.96W	20138.4407	0.48	0.0413	2.0513
			20141.1430			
1116	1BC1	N28-57-26.98W	15140.8049	0.44	0.0313	2.0674
			15142.8728			
1116	MDOT	N52-56-51.33E	18865.9350	0.34	0.0329	1.7450
			18868.5554			
1117	1BC1	N35-07-24.70W	9403.0099	0.63	0.0279	2.9630
			9404.2932			
1117	MDOT	N71-06-22.55E	17944.0696	0.33	0.0281	1.5635
			17946.5598			
1118	1BC1	N14-31-45.02E	10007.1968	0.63	0.0325	3.2466
			10008.5522			

1118	D_521	S26-22-07.13E	23846.9518	0.37	0.0423	1.7734
			23850.2047			
1118	MDOT	N72-35-26.94E	26092.9877	0.25	0.0315	1.2080
			26096.5811			
1119	1124	N78-40-49.78W	19894.1457	0.50	0.0417	2.0966
			19896.7679			
1119	1BC1	N00-33-34.67E	16350.0466	0.41	0.0374	2.2877
			16352.2633			
1119	MDOT	N57-18-38.14E	26790.1664	0.27	0.0350	1.3067
			26793.8600			
1120	1123	N49-41-12.65W	15379.5048	0.60	0.0413	2.6847
			15381.5517			
1120	1125	N79-46-41.65W	19356.6436	0.47	0.0393	2.0310
			19359.1896			
1120	1BC1	N02-27-43.02E	20335.6328	0.31	0.0352	1.7312
			20338.3874			
1120	MDOT	N51-35-58.22E	29681.1074	0.23	0.0339	1.1405
			29685.1967			
1121	1BC1	N21-26-10.11E	20370.9607	0.37	0.0398	1.9526
			20373.7012			
1121	MDOT	N60-12-18.09E	34376.2825	0.24	0.0362	1.0531
			34380.9878			
1122	1BC1	N43-08-14.10E	11450.6389	0.55	0.0331	2.8929
			11452.1808			
1122	D_521	S35-01-47.02E	27718.2693	0.33	0.0419	1.5115
			27722.0303			
1122	MDOT	N77-54-15.92E	30902.6068	0.22	0.0314	1.0157
			30906.8415			
1123	1BC1	N50-33-18.62E	16317.1631	0.42	0.0341	2.0925
			16319.3481			
1123	MDOT	N76-21-56.99E	36002.4350	0.20	0.0323	0.8959
			36007.3433			
1124	1BC1	N57-40-33.30E	23273.3639	0.31	0.0345	1.4828
			23276.4488			
1124	D_521	S56-09-10.88E	33409.8606	0.29	0.0410	1.2285
			33414.3239			

1124	MDOT	N75-53-55.90E	43360.6310	0.17	0.0332	0.7645
			43366.4860			
1125	1127	N80-34-56.97E	15138.4659	0.59	0.0384	2.5371
			15140.4467			
1125	1BC1	N49-43-24.55E	26113.6239	0.25	0.0322	1.2319
			26117.0814			
1125	MDOT	N70-28-38.83E	44890.9282	0.15	0.0310	0.6906
			44896.9826			
1126	1BB1	N01-07-24.61W	20530.5710	0.31	0.0351	1.7119
			20533.2421			
1126	1BC1	N38-26-28.29E	29211.7904	0.23	0.0334	1.1436
			29215.6711			
1126	M519	N58-15-57.58E	37170.4442	0.24	0.0420	1.1296
			37175.4307			
1126	MDOT	N62-37-14.63E	45663.6458	0.16	0.0317	0.6936
			45669.8235			
1127	1BB1	N48-24-11.55W	18152.8266	0.37	0.0314	1.7303
			18155.2211			
1127	1BC1	N19-06-05.33E	15244.1259	0.40	0.0339	2.2270
			15246.1804			
1127	MDOT	N65-24-56.68E	30104.6945	0.23	0.0307	1.0197
			30108.8216			
1BB1	1BC1	N82-46-29.72E	18712.4282	0.00	0.0000	0.0001
			18714.9234			
1BB1	MDOT	N89-20-17.13E	40953.7750	0.00	0.0000	0.0000
			40959.3389			
1BC1	COSA	N62-46-54.15E	107574.2615	0.07	0.0354	0.3294
			107590.3343			
1BC1	D_521	S14-35-11.97E	32087.2007	0.20	0.0330	1.0276
			32091.6041			
1BC1	M519	S76-05-57.26E	13857.9910	0.49	0.0309	2.2303
			13859.8955			
1BC1	MDOT	S85-11-56.32E	22466.0205	0.00	0.0000	0.0001
			22469.1330			
1BC1	SRP1	N56-48-10.21W	11642.6000	0.63	0.0353	3.0294
			11644.1869			

1BC1	W519	S71-29-18.84W	30282.6191	0.28	0.0425	
1.4040						
			30286.6054			
1BF1	B_519	S63-49-53.88E	7958.7311	0.87	0.0312	
3.9195						
			7959.8967			
1BF1	C519	S84-58-13.50E	5497.5616	1.32	0.0312	
5.6816						
			5498.3647			
1BF1	D519	N86-00-13.09E	5423.9530	1.29	0.0307	
5.6618						
			5424.7453			
1BF1	MDOT	N79-32-00.85W	23196.6789	0.00	0.0000	
0.0001						
			23200.0036			
B_519	D519	N24-00-53.56W	4256.3237	1.90	0.0418	
9.8200						
			4256.9494			
B_519	MDOT	N75-32-27.03W	30933.4896	0.23	0.0307	
0.9919						
			30937.9474			
C519	MDOT	N80-34-27.99W	28674.2398	0.25	0.0312	
1.0877						
			28678.3620			
COSA	MDOT	S55-07-05.93W	89323.7966	0.08	0.0355	
0.3969						
			89337.3244			
COSA	SRP1	S67-53-13.99W	113773.6941	0.07	0.0409	
0.3595						
			113790.7339			
D519	MDOT	N82-15-35.12W	28480.9805	0.25	0.0306	
1.0739						
			28485.0750			
D_521	MDOT	N26-07-23.75E	32491.7186	0.19	0.0344	
1.0573						
			32496.2551			
M519	MDOT	N80-47-19.85E	9051.7810	0.76	0.0309	
3.4187						
			9053.0464			
MDOT	SRP1	N75-35-27.48W	33173.1188	0.22	0.0353	
1.0640						
			33177.7209			
MDOT	W519	S81-23-37.76W	51684.9611	0.17	0.0416	
0.8041						
			51691.8962			

Error Propagation

Station Coordinate Standard Deviations (FeetInt)
NOTE - Adjustment Failed the Chi-Square Test
Standard Deviations are Scaled by Total Error Factor

Station	N	E	Elev
1BC1	0.000000	0.000000	0.000000
MDOT	0.000000	0.000000	0.000000
1113	0.012883	0.012701	0.021535
1BB1	0.000000	0.000000	0.000000
1126	0.014357	0.012596	0.022548
W519	0.017600	0.016644	0.000000
1121	0.016771	0.014545	0.023579
1127	0.013985	0.012092	0.020814
1125	0.013785	0.012414	0.019496
1124	0.014983	0.013259	0.021289
1119	0.015275	0.013427	0.022140
1123	0.014461	0.012886	0.021476
1120	0.014347	0.012727	0.021911
1122	0.013411	0.012566	0.021541
D_521	0.013864	0.012235	0.000000
1118	0.013115	0.012600	0.025570
1116	0.013482	0.012564	0.023127
1115	0.012915	0.011756	0.026149
1117	0.011875	0.011209	0.021826
1109	0.012590	0.012395	0.023959
1111	0.011634	0.011106	0.018073
1110	0.011748	0.011267	0.018529
1114	0.012449	0.011958	0.019338
M519	0.013581	0.012597	0.019868
1BF1	0.000000	0.000000	0.000000
1103	0.013025	0.011698	0.018754
1101	0.015668	0.013764	0.024880
C519	0.014383	0.012808	0.000000
1100	0.014061	0.012148	0.019692
D519	0.013886	0.012515	0.000000
B_519	0.014039	0.012449	0.000000
1105	0.012466	0.011445	0.016251
1102	0.013114	0.011862	0.017775
1104	0.015241	0.013505	0.020144
1106	0.015043	0.013405	0.020302
1108	0.014945	0.013514	0.020802
1107	0.013473	0.012105	0.018979
1112	0.012735	0.011827	0.016714
SRP1	0.014445	0.014434	0.020034
COSA	0.014453	0.014451	0.020725

Station Coordinate Error Ellipses (FeetInt)
NOTE - Adjustment Failed the Chi-Square Test
Error Ellipses are Scaled by Total Error Factor
Confidence Region = 95

Station	Semi-Major Axis	Semi-Minor Axis	Azimuth of Major Axis	Elev
1BC1	0.000001	0.000001	0-00	
0.000001				
MDOT	0.000001	0.000001	0-00	
0.000001				
1113	0.031535	0.031088	4-06	
0.042208				
1BB1	0.000001	0.000001	0-00	
0.000001				
1126	0.035147	0.030828	178-07	
0.044194				
W519	0.044635	0.039030	32-38	
0.000001				
1121	0.041190	0.035443	170-47	
0.046214				
1127	0.034251	0.029576	3-51	
0.040795				
1125	0.033775	0.030350	5-44	
0.038212				
1124	0.036835	0.032272	11-11	
0.041726				
1119	0.037525	0.032710	10-00	
0.043394				
1123	0.035633	0.031272	13-55	
0.042092				
1120	0.035409	0.030822	15-02	
0.042944				
1122	0.033413	0.030119	25-32	
0.042220				
D_521	0.034429	0.029378	18-54	
0.000001				
1118	0.032623	0.030290	28-36	
0.050116				
1116	0.033645	0.030049	25-38	
0.045328				
1115	0.032126	0.028200	21-49	
0.051251				
1117	0.029327	0.027156	20-39	
0.042778				
1109	0.031429	0.029707	36-57	
0.046958				
1111	0.028698	0.026950	21-10	
0.035422				
1110	0.028993	0.027331	22-27	
0.036316				
1114	0.030531	0.029210	12-15	
0.037901				
M519	0.033251	0.030825	3-26	
0.038941				
1BF1	0.000001	0.000001	0-00	
0.000001				
1103	0.031972	0.028534	9-35	
0.036757				

1101	0.038381	0.033656	4-48
0.048763			
C519	0.035353	0.031184	11-11
0.000001			
1100	0.034471	0.029672	6-18
0.038595			
D519	0.034035	0.030584	6-42
0.000001			
B_519	0.034367	0.030471	1-19
0.000001			
1105	0.030515	0.028015	0-41
0.031851			
1102	0.032105	0.029030	177-42
0.034838			
1104	0.037305	0.033055	179-42
0.039482			
1106	0.036852	0.032779	174-56
0.039791			
1108	0.036592	0.033067	3-06
0.040772			
1107	0.033076	0.029522	9-49
0.037198			
1112	0.031269	0.028845	11-48
0.032758			
SRP1	0.035421	0.035268	39-40
0.039266			
COSA	0.035456	0.035293	44-24
0.040621			

Relative Error Ellipses (FeetInt)
NOTE - Adjustment Failed the Chi-Square Test
Relative Error Ellipses are Scaled by Total Error Factor
Confidence Region = 95

Stations From	To	Semi-Major Axis	Semi-Minor Axis	Azimuth of Major Axis	Vertical
1100	1BF1	0.034471	0.029672	6-18	0.038595
1100	C519	0.039298	0.034325	7-36	0.038595
1100	MDOT	0.034471	0.029672	6-18	0.038595
1101	1103	0.040201	0.035089	7-53	0.050585
1101	1BF1	0.038381	0.033656	4-48	0.048763
1101	MDOT	0.038381	0.033656	4-48	0.048763
1102	1105	0.036536	0.033033	179-18	0.039592
1102	1BF1	0.032105	0.029030	177-42	0.034838

1102	MDOT	0.032105	0.029030	177-42	0.034838
1103	1BF1	0.031972	0.028534	9-35	0.036757
1103	MDOT	0.031972	0.028534	9-35	0.036757
1104	1106	0.042538	0.037237	176-55	0.045873
1104	1BF1	0.037305	0.033055	179-42	0.039482
1104	MDOT	0.037305	0.033055	179-42	0.039482
1105	1BF1	0.030515	0.028015	0-41	0.031851
1105	MDOT	0.030515	0.028015	0-41	0.031851
1106	1BF1	0.036852	0.032779	174-56	0.039791
1106	MDOT	0.036852	0.032779	174-56	0.039791
1107	1112	0.039049	0.034997	10-44	0.043914
1107	1BF1	0.033076	0.029522	9-49	0.037198
1107	MDOT	0.033076	0.029522	9-49	0.037198
1108	1BF1	0.036592	0.033067	3-06	0.040772
1108	MDOT	0.036592	0.033067	3-06	0.040772
1109	1111	0.040974	0.037772	24-21	0.056313
1109	1117	0.039472	0.037377	30-23	0.060821
1109	1BC1	0.031429	0.029707	36-57	0.046958
1109	MDOT	0.031429	0.029707	36-57	0.046958
1110	1111	0.034182	0.032342	23-38	0.043093
1110	1114	0.038980	0.036320	16-15	0.047281
1110	1BC1	0.028993	0.027331	22-27	0.036316
1110	MDOT	0.028993	0.027331	22-27	0.036316
1111	1BC1	0.028698	0.026950	21-10	0.035422
1111	MDOT	0.028698	0.026950	21-10	0.035422
1112	1BF1	0.031269	0.028845	11-48	0.032758
1112	MDOT	0.031269	0.028845	11-48	0.032758

1113	1114	0.039522	0.038910	11-27	0.052655
1113	1BC1	0.031535	0.031088	4-06	0.042208
1113	MDOT	0.031535	0.031088	4-06	0.042208
1114	1BC1	0.030531	0.029210	12-15	0.037901
1114	MDOT	0.030531	0.029210	12-15	0.037901
1115	1117	0.037071	0.032860	19-29	0.055605
1115	1118	0.043072	0.038500	23-42	0.069279
1115	1BC1	0.032126	0.028200	21-49	0.051251
1115	MDOT	0.032126	0.028200	21-49	0.051251
1116	1122	0.043968	0.038938	23-58	0.057717
1116	1123	0.046935	0.041064	19-40	0.059760
1116	1BC1	0.033645	0.030049	25-38	0.045328
1116	MDOT	0.033645	0.030049	25-38	0.045328
1117	1BC1	0.029327	0.027156	20-39	0.042778
1117	MDOT	0.029327	0.027156	20-39	0.042778
1118	1BC1	0.032623	0.030290	28-36	0.050116
1118	D_521	0.044983	0.040046	22-05	0.050116
1118	MDOT	0.032623	0.030290	28-36	0.050116
1119	1124	0.048401	0.041667	6-53	0.055225
1119	1BC1	0.037525	0.032710	10-00	0.043394
1119	MDOT	0.037525	0.032710	10-00	0.043394
1120	1123	0.045971	0.039911	12-41	0.055443
1120	1125	0.044367	0.039286	14-18	0.053114
1120	1BC1	0.035409	0.030822	15-02	0.042944
1120	MDOT	0.035409	0.030822	15-02	0.042944
1121	1BC1	0.041190	0.035443	170-47	0.046214
1121	MDOT	0.041190	0.035443	170-47	0.046214

1122	1BC1	0.033413	0.030119	25-32	0.042220
1122	D_521	0.045735	0.040092	21-26	0.042220
1122	MDOT	0.033413	0.030119	25-32	0.042220
1123	1BC1	0.035633	0.031272	13-55	0.042092
1123	MDOT	0.035633	0.031272	13-55	0.042092
1124	1BC1	0.036835	0.032272	11-11	0.041726
1124	D_521	0.047082	0.040453	17-06	0.041726
1124	MDOT	0.036835	0.032272	11-11	0.041726
1125	1127	0.043765	0.038276	179-11	0.049180
1125	1BC1	0.033775	0.030350	5-44	0.038212
1125	MDOT	0.033775	0.030350	5-44	0.038212
1126	1BB1	0.035147	0.030828	178-07	0.044194
1126	1BC1	0.035147	0.030828	178-07	0.044194
1126	M519	0.045524	0.040256	2-25	0.055740
1126	MDOT	0.035147	0.030828	178-07	0.044194
1127	1BB1	0.034251	0.029576	3-51	0.040795
1127	1BC1	0.034251	0.029576	3-51	0.040795
1127	MDOT	0.034251	0.029576	3-51	0.040795
1BB1	1BC1	0.000001	0.000001	0-00	0.000001
1BB1	MDOT	0.000001	0.000001	0-00	0.000001
1BC1	COSA	0.035456	0.035293	44-24	0.040621
1BC1	D_521	0.034429	0.029378	18-54	0.000001
1BC1	M519	0.033251	0.030825	3-26	0.038941
1BC1	MDOT	0.000001	0.000001	0-00	0.000001
1BC1	SRP1	0.035421	0.035268	39-40	0.039266
1BC1	W519	0.044635	0.039030	32-38	0.000001
1BF1	B_519	0.034367	0.030471	1-19	0.000001

1BF1	C519	0.035353	0.031184	11-11
0.000001				
1BF1	D519	0.034035	0.030584	6-42
0.000001				
1BF1	MDOT	0.000001	0.000001	0-00
0.000001				
B_519	D519	0.042816	0.038019	4-07
0.000001				
B_519	MDOT	0.034367	0.030471	1-19
0.000001				
C519	MDOT	0.035353	0.031184	11-11
0.000001				
COSA	MDOT	0.035456	0.035293	44-24
0.040621				
COSA	SRP1	0.040914	0.040715	53-32
0.042949				
D519	MDOT	0.034035	0.030584	6-42
0.000001				
D_521	MDOT	0.034429	0.029378	18-54
0.000001				
M519	MDOT	0.033251	0.030825	3-26
0.038941				
MDOT	SRP1	0.035421	0.035268	39-40
0.039266				
MDOT	W519	0.044635	0.039030	32-38
0.000001				

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01 00000001 Top of File
01 00000005 Summary of Files Used and Option Settings
02 00000008 Project Folder and Data Files
02 00000015 Project Option Settings
01 00000036 Summary of Unadjusted Input Observations
02 00000039 Entered Stations
03 00000042 Fixed Positions
03 00000048 Partially Fixed Positions
03 00000061 Free Positions
02 00000066 GPS Vector Observations
01 00000947 Adjustment Statistical Summary
01 00000967 Adjusted Station Information
02 00000970 Coordinate Changes from Entered Provisionals
02 00000987 Adjusted Coordinates
02 00001031 Adjusted Positions and Ellipsoid Heights
02 00001076 Convergence Angles and Grid Factors at Stations
01 00001124 Adjusted Observations and Residuals
02 00001127 Adjusted GPS Vector Observations
02 00002182 GPS Vector Residual Summary
01 00002362 Adjusted Bearings and Horizontal Distances
01 00002575 Error Propagation
02 00002578 Station Coordinate Standard Deviations

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02 00002624 Station Coordinate Error Ellipses
02 00002672 Relative Error Ellipses
01 00002781 End of File
0002AD30
STAR*NET
00041EAC
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SECTION 3

CROSS SECTIONS SURVEY

SECTION 3.1

FINAL COORDINATES OF CROSS SECTIONS

MARCH 2013 LOWER SALT RIVER MAPPING
REPORT NAME: CROSS SECTION DATA

CROSS SECTION COORDINATES					
PROJECT NAME:		LOWER SALT RIVER			
DATE:		4/9/2013	RBF PROJECT 134664		
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
CROSS SECTION No. 1					
20000	879267.131	668573.752	1103.77	EPAV EPAV	9
20001	879274.787	668565.023	1103.69	EPAV EPAV	9
20002	879302.488	668548.588	1100.23	GB	9
20003	879324.610	668539.222	1093.54	GB	9
20004	879342.853	668527.650	1086.55	GB	9
20005	879352.876	668520.927	1086.02	GB	9
20006	879359.818	668514.851	1083.71	GB	9
20007	879397.305	668490.813	1081.02	GS	9
20008	879411.622	668478.021	1080.64	GB	9
20009	879414.638	668476.348	1082.05	GB	9
20010	879425.918	668473.581	1082.52	GB	9
20011	879443.304	668465.445	1080.23	GB	9
20012	879445.496	668464.043	1078.95	GS/ROAD	9
20013	879454.100	668458.867	1079.08	GS/ROAD	9
20014	879456.906	668457.756	1079.73	GB	9
20015	879460.318	668455.006	1078.49	GB	9
20016	879461.857	668454.216	1078.73	GB	9
20018	879465.513	668451.709	1077.12	TOE	9
20019	879465.429	668451.423	1077.36	GS/WATER-ELEV	9
20020	879469.690	668448.760	1076.81	GS/CL-STREAM	9
20021	879474.747	668444.752	1076.78	TOE	9
20022	879475.824	668443.987	1077.09	GB	9
20023	879472.298	668438.957	1077.32	GS/WATER-ELEV	9
20025	879480.758	668441.648	1078.53	GB	9
20026	879490.874	668437.261	1080.44	GB	9
20027	879495.080	668433.380	1079.33	GS/ROAD	9
20028	879520.882	668418.125	1079.60	GS/ROAD	9
20029	879527.754	668414.657	1080.99	GB	9
20030	879571.923	668387.914	1080.43	GS	9
20031	879618.307	668360.850	1080.62	GS	9
20032	879664.772	668332.099	1081.46	GS	9
20033	879702.996	668310.086	1081.33	GB	9
20034	879732.120	668294.466	1083.98	GB	9
20035	879781.470	668263.823	1085.07	GS/ROAD	9
20036	879800.712	668252.370	1084.87	GS/ROAD	9
20037	879801.766	668251.509	1085.31	GB	9
20038	879843.108	668227.625	1084.20	GB	9

CROSS SECTION COORDINATES					
PROJECT NAME:	LOWER SALT RIVER				
DATE:	4/9/2013	RBF PROJECT 134664			
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20039	879869.748	668212.097	1081.36	GB	9
20040	879893.419	668198.408	1078.97	GB	9
20041	879939.472	668169.664	1078.14	GS	9
20042	879983.600	668143.838	1078.90	GS	9
20043	880030.563	668117.183	1079.07	GS	9
20044	880060.861	668098.673	1079.40	GB	9
20045	880061.933	668097.844	1079.95	GB	9
20046	880096.669	668077.960	1085.39	GB	9
20048	880163.934	668037.695	1108.25	GB	9
20049	880174.944	668029.554	1108.65	TOP/ROAD	9
20050	880187.177	668023.440	1108.55	TOP/ROAD	9
20051	880213.520	668008.851	1101.58	GS	9
20052	880228.088	667999.436	1098.66	GB	9
20053	880239.754	667991.983	1097.90	GS/ROAD	9
20054	880251.727	667985.810	1097.84	GS/ROAD	9
20055	880298.377	667957.519	1098.22	GS	9
20056	880342.068	667930.164	1098.82	GS	9
20057	880390.516	667901.805	1099.49	GS	9
20058	880438.527	667874.520	1101.29	GS	9
20059	880486.810	667846.562	1101.29	GS	9
20060	880516.715	667829.166	1102.41	GB	9
20061	880521.246	667826.175	1101.79	GS/ROAD	9
20062	880536.261	667816.404	1102.27	GS/ROAD	9
20063	880541.013	667814.860	1102.35	GB	9
20064	880543.611	667814.633	1103.08	GS/FENCE-BARB	9
20065	879264.772	668581.769	1102.99	GS/FENCE-1.00SOUTH	9
CROSS SECTION No. 2					
10000	879896.759	662962.038	1091.53	GS	8
10001	879837.601	662960.503	1090.38	GS	8
10002	879763.263	662958.557	1089.91	GS	8
10003	879726.826	662957.341	1089.58	GS	8
10004	879724.584	662957.454	1089.54	EPAV	8
10005	879712.323	662956.968	1089.38	EPAV	8
10006	879671.662	662955.776	1090.47	GB	8
10007	879633.882	662954.425	1070.85	GB	8
10008	879592.415	662953.623	1069.33	GB/TOE	8
10009	879574.690	662952.875	1075.38	GB/TOP	8
10010	879574.098	662952.888	1075.48	EPAV	8
10011	879561.600	662952.659	1075.23	EPVA	8
10012	879559.688	662952.736	1075.04	GB/TOP	8

CROSS SECTION COORDINATES					
PROJECT NAME:		LOWER SALT RIVER			
DATE:		4/9/2013	RBF PROJECT 134664		
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
10013	879527.097	662951.218	1063.58	GB	8
10014	879504.047	662950.741	1061.33	GB	8
10015	879480.763	662950.004	1054.66	GB/TOE	8
10016	879476.774	662949.904	1054.09	EDGE WATER	8
10017	879452.526	662949.359	1053.90	EDGE WATER	8
10018	879342.192	662946.664	1058.89	GB/TOP	8
10019	879336.736	662945.445	1059.24	GB/TOP	8
10020	879275.753	662943.623	1058.48	EDGE WATER	8
10021	879217.492	662942.429	1058.48	EDGE WATER	8
10022	879155.646	662940.451	1060.28	GB/TOE	8
10023	879141.589	662940.032	1064.07	GB/TOP	8
10024	879069.009	662937.482	1064.92	GS/ROCK	8
10025	879014.787	662936.217	1064.73	GS/SAND	8
10026	878953.403	662934.067	1064.22	GS/SAND	8
10027	878886.452	662932.470	1064.32	GS/SAND	8
10028	878869.576	662931.955	1064.50	EPAV	8
10029	878857.055	662931.643	1064.65	EPAV	8
10030	878826.681	662931.474	1067.14	GB/TOE	8
10031	878777.934	662929.457	1088.96	GB/TOP	8
10032	878759.448	662928.718	1090.28	GS/DIRT	8
10033	878739.334	662927.986	1089.88	GB/TOP	8
10034	878728.629	662927.907	1084.62	GB	8
10035	878694.751	662926.421	1084.95	GB	8
10036	878530.938	662922.916	1059.40	GB/TOE	8
10037	878475.759	662920.751	1059.74	GB	8
10038	878448.113	662919.705	1057.51	GB	8
10039	878359.484	662916.933	1053.89	GS/DIRT	8
CROSS SECTION No. 3					
20066	879929.626	657519.049	1081.72	GS/FENCE-CLF	7
20067	879875.061	657507.490	1082.65	GS	7
20068	879819.533	657495.853	1083.69	GS	7
20069	879758.684	657481.809	1083.12	GB	7
20070	879728.578	657475.952	1085.60	GB	7
20071	879680.410	657465.314	1083.53	GS	7
20072	879629.314	657454.575	1081.70	GS/ROAD	7
20073	879605.593	657449.452	1080.99	GS/ROAD	7
20074	879575.615	657441.570	1080.12	GS	7
20075	879941.929	657520.687	1081.56	EPAV	7
20076	879953.924	657523.928	1081.40	EPAV	7
20077	879990.478	657538.244	1079.91	GB	7

CROSS SECTION COORDINATES					
PROJECT NAME:		LOWER SALT RIVER			
DATE:		4/9/2013	RBF PROJECT 134664		
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20078	879960.250	657524.749	1081.55	GB	7
20079	880000.748	657542.179	1078.95	GB	7
20080	880027.984	657539.718	1068.08	GS	7
20081	880059.289	657546.435	1054.36	GS	7
20082	880072.070	657549.759	1054.09	GS/ROAD	7
20083	880085.085	657551.529	1054.07	GS/ROAD	7
20084	880102.796	657554.892	1052.62	GB	7
20085	880127.661	657561.500	1053.97	GB	7
20086	880166.851	657570.776	1053.66	GS	7
20087	880219.264	657582.062	1051.05	GS	7
20088	880218.079	657577.271	1051.53	ICV	7
20089	880220.249	657572.828	1051.49	ICV	7
20090	880264.838	657589.672	1048.26	GB	7
20091	880294.344	657597.197	1045.02	GB	7
20093	880314.263	657600.779	1037.54	GB	7
20094	880362.132	657611.768	1037.53	GS	7
20095	880416.693	657623.830	1041.04	GB	7
20096	880457.218	657630.619	1040.93	GS	7
20097	880503.428	657641.403	1042.80	GS	7
20098	880548.660	657651.816	1042.91	GB	7
20099	880573.514	657657.143	1046.08	GB	7
20100	880603.912	657661.406	1046.97	GB	7
20101	880617.528	657665.983	1046.22	GS/ROAD	7
20102	880628.122	657668.006	1046.08	GS/ROAD	7
20103	880650.083	657671.737	1045.19	GB	7
20104	880672.401	657672.775	1044.42	GB	7
20105	880675.951	657672.368	1043.71	GS/WET DIRT	7
20106	880685.480	657680.063	1043.67	GS/WET DIRT	7
20107	880692.312	657681.929	1044.01	GB/WET DIRT	7
20108	880699.170	657682.789	1046.98	GB	7
20109	880733.709	657691.207	1060.31	GS	7
20110	880774.133	657700.255	1073.60	GS	7
20111	880797.335	657705.042	1081.03	TOP	7
20112	880809.464	657707.405	1081.00	GB	7
20113	880816.454	657708.702	1080.24	EPAV	7
20114	880828.038	657711.034	1080.36	EPAV	7
20115	880839.077	657713.570	1081.76	GB	7
20117	880865.366	657721.786	1080.32	GB	7
20118	880869.278	657720.190	1080.35	WALK	7
20119	880873.871	657722.048	1080.26	TCB	7

CROSS SECTION COORDINATES					
PROJECT NAME:		LOWER SALT RIVER			
DATE:		4/9/2013	RBF PROJECT 134664		
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20120	880874.505	657722.170	1079.76	GFL	7
20121	880875.699	657722.687	1079.79	LIP	7
20122	880900.418	657726.289	1080.17	STRIPE/DY	7
20123	880924.317	657731.924	1079.73	LIP	7
20124	880925.457	657732.542	1079.75	GFL	7
20125	880926.081	657732.681	1080.19	TCB	7
20126	880930.521	657735.026	1080.31	WALK	7
20127	881009.310	657751.468	1080.63	GS	7
20128	880987.854	657746.341	1078.85	GS	7
CROSS SECTION No. 4					
10040	881078.514	653798.670	1076.14	GB/TOP	6
10041	881071.038	653797.145	1075.13	EPAV	6
10042	881058.921	653795.734	1074.92	EPAV	6
10043	881055.580	653794.912	1074.57	GB/TOP	6
10044	881028.587	653792.094	1065.47	GB/TOP ROCK WIRE RETAINING WALL	6
10045	881025.054	653791.190	1053.97	GB/TOE	6
10046	881000.439	653788.733	1053.48	GB	6
10047	880987.181	653785.775	1051.18	GB	6
10048	880956.607	653782.783	1049.35	GB/TOP	6
10049	880896.457	653774.111	1031.77	GB/TOE	6
10050	880840.215	653766.677	1032.14	GS/GRASS	6
10051	880774.404	653758.392	1031.51	GS/SAND	6
10052	880701.005	653749.934	1031.96	GB/TOE	6
10053	880655.535	653742.369	1046.67	GB	6
10054	880593.987	653734.829	1046.40	GS/SAND	6
10055	880537.358	653726.742	1046.75	GS/SAND	6
10056	880507.114	653722.555	1047.44	GS/EOR	6
10057	880494.620	653721.380	1047.70	GS/EOR	6
10058	880481.278	653718.114	1048.50	ICV	6
10059	880453.543	653715.420	1051.20	GB	6
10060	880424.961	653712.183	1062.51	GB	6
10061	880375.244	653705.317	1066.10	GS/DIRT	6
10062	880334.390	653700.316	1068.73	EPAV	6
10063	880322.493	653698.486	1068.94	EPAV	6
10064	880305.781	653695.855	1068.48	GB	6
10065	880299.233	653695.172	1070.80	GS/FENCE	6
CROSS SECTION No. 5					
20129	879066.626	649157.597	1067.79	GS	5
20130	879096.001	649113.291	1067.08	GS	5
20131	879118.022	649081.446	1066.76	GS/FENCE CLF	5

CROSS SECTION COORDINATES					
PROJECT NAME:		LOWER SALT RIVER			
DATE:		4/9/2013	RBF PROJECT 134664		
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20132	879133.541	649072.331	1067.57	EPAV	5
20133	879145.753	649062.807	1067.36	EPVA	5
20134	879186.737	649034.594	1067.16	GS	5
20135	879223.884	649004.283	1067.00	GS	5
20136	879252.216	648970.706	1066.66	TOP	5
20137	879263.466	648957.907	1056.16	GS	5
20138	879279.546	648941.488	1046.11	GB	5
20139	879299.932	648920.456	1038.96	GB	5
20140	879321.141	648896.710	1036.88	GB	5
20141	879323.435	648894.567	1036.08	GB	5
20142	879324.709	648893.288	1035.79	GB	5
20143	879327.575	648890.539	1037.09	GB	5
20144	879361.247	648852.397	1036.39	GS	5
20145	879384.681	648826.886	1034.78	GB	5
20146	879403.991	648808.593	1028.89	GB/WET DIRT	5
20147	879427.423	648783.357	1028.52	GS/CATTAILS	5
20150	879568.526	648678.806	1027.26	GS/CATTAILS	5
20151	879572.996	648676.303	1028.15	GB	5
20152	879593.669	648671.265	1030.98	GB	5
20153	879613.423	648665.932	1031.71	GB	5
20154	879638.184	648659.554	1033.81	GB	5
20155	879658.418	648653.752	1041.24	GB	5
20156	879708.823	648640.241	1042.75	GS	5
20157	879767.943	648632.264	1043.50	GB	5
20158	879782.624	648623.796	1042.53	GS/ROAD	5
20159	879794.417	648615.513	1042.38	GS/ROAD	5
20160	879814.930	648605.138	1043.78	GB	5
20161	879835.471	648586.930	1052.47	GS	5
20162	879870.848	648563.660	1062.22	GB	5
20163	879887.631	648552.905	1063.33	GB	5
20164	879920.803	648531.682	1071.78	GS	5
20165	879941.839	648516.353	1077.34	GB	5
20166	879964.857	648501.663	1077.44	GS	5
20167	879978.428	648491.866	1077.22	EPAV	5
20168	879988.625	648485.214	1077.46	EPAV	5
20169	879991.371	648483.582	1077.56	GB	5
20170	880003.844	648476.158	1080.75	GB	5
20171	880018.489	648466.655	1080.57	GS	5
20172	880026.048	648462.491	1080.71	GB	5
20173	880042.162	648451.183	1084.27	TOP	5

CROSS SECTION COORDINATES					
PROJECT NAME:		LOWER SALT RIVER			
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	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20174	880065.716	648434.551	1084.26	GB	5
20175	880068.453	648432.369	1083.05	GB	5
20176	880114.636	648400.873	1083.01	GS	5
20177	880166.824	648367.665	1083.24	GS	5
20178	880215.307	648336.036	1083.06	GS	5
20179	880257.737	648306.200	1082.15	GS	5
20180	880290.792	648283.276	1081.77	GS/FENCE CLF	5
CROSS SECTION No. 6					
10066	876581.715	644068.236	1050.97	GS/DIRT	17
10067	876642.972	644067.300	1049.86	GB	17
10068	876659.176	644067.018	1057.97	GB/TOP	17
10069	876685.070	644065.945	1058.11	GB/TOP	17
10070	876735.801	644064.164	1022.35	GB	17
10071	876775.675	644064.543	1016.91	GB/TOE	17
10072	876835.046	644063.622	1014.00	GS/ROCK	17
10073	876894.284	644062.032	1009.94	GS/ROCK	17
10074	876956.607	644060.878	1008.85	GS/DIRT	17
10075	877008.233	644059.830	1009.22	GS/ON ROCK RETENTION WALL	17
10076	877065.788	644059.342	1010.59	GS/ON ROCK RETETION WALL	17
10077	877118.030	644058.616	1011.79	GS/ON ROCK RETETION WALL	17
10078	877182.924	644056.793	1010.82	GS/AT BOTTOM OF RET WALL	17
10079	877217.910	644055.314	1012.97	GB/TOE	17
10080	877285.626	644053.550	1058.87	GB/TOP	17
10081	877302.638	644053.965	1058.94	GB	17
10082	877305.484	644054.064	1058.29	GB	17
CROSS SECTION No. 7					
20181	876162.992	638539.051	1044.96	GS	4
20182	876215.021	638537.260	1044.83	GS	4
20183	876269.891	638529.525	1044.90	GS	4
20184	876321.676	638526.282	1044.38	GS	4
20185	876375.087	638529.993	1042.90	TOP	4
20186	876392.307	638530.349	1031.82	GS	4
20187	876420.262	638544.898	1015.29	GB	4
20188	876427.752	638546.092	1014.53	GB	4
20189	876444.127	638540.994	1009.54	GB	4
20190	876468.503	638539.558	1008.60	GS	4
20191	876478.275	638538.994	1008.90	GB	4
20192	876493.517	638534.504	1011.53	GB	4
20193	876494.256	638534.157	1011.50	GB	4
20194	876546.505	638541.192	1010.86	GS	4

CROSS SECTION COORDINATES					
PROJECT NAME:		LOWER SALT RIVER			
DATE:		4/9/2013	RBF PROJECT 134664		
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20195	876602.011	638551.453	1011.54	GS	4
20196	876660.405	638556.855	1011.71	GS	4
20197	876716.992	638555.776	1012.25	GS	4
20198	876775.917	638564.760	1011.16	GS	4
20199	876835.198	638559.045	1009.81	GS	4
20200	876891.956	638554.028	1009.79	GS	4
20201	876949.910	638553.224	1010.18	GS	4
20202	877005.896	638551.513	1011.00	GS	4
20203	877063.125	638546.025	1011.02	GS	4
20204	877072.753	638546.093	1011.71	GB	4
20206	877112.244	638535.826	1019.45	GB	4
20207	877127.290	638538.170	1016.49	GB	4
20208	877152.157	638537.263	1021.71	GB	4
20209	877152.550	638537.196	1021.42	GB	4
20210	877171.079	638535.827	1029.98	GB	4
20211	877171.701	638535.815	1029.84	GS	4
20212	877193.205	638536.026	1033.07	GB	4
20213	877201.986	638535.219	1033.80	GB	4
20214	877214.800	638535.638	1042.74	GS	4
20215	877222.461	638535.473	1048.34	TOP	4
20216	877232.423	638534.091	1042.38	GB	4
20217	877276.619	638526.804	1042.40	GS/ROAD	4
20218	877276.587	638526.766	1042.43	GS	4
20219	877328.921	638518.374	1043.55	GS	4
20220	877383.077	638503.601	1043.42	GS	4
20221	877445.159	638485.979	1043.08	GS	4
20222	877502.016	638471.723	1042.66	GS	4
20223	877506.019	638488.231	1042.72	GS/ROAD	4
20224	877496.843	638456.745	1042.80	GS/ROAD	4
CROSS SECTION No. 8					
10083	877757.140	632691.210	1045.95	GS/TOP	3, 16
10084	877681.587	632705.721	1044.88	GS/DIRT	3, 16
10085	877586.039	632722.201	1044.78	GS/DIRT	3, 16
10086	877509.768	632736.675	1044.26	GB/TOP	3, 16
10087	877455.582	632747.955	1015.52	GB/TOE	3, 16
10088	877395.776	632758.213	1010.85	GS/SAND	3, 16
10089	877348.105	632766.365	1008.90	GB	3, 16
10090	877337.027	632768.835	1005.18	GB	3, 16
10091	877286.660	632777.837	1002.88	GS/ROCK	3, 16
10092	877247.412	632784.929	999.74	GS/ROCK	3, 16

CROSS SECTION COORDINATES					
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	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
10093	877192.521	632795.757	999.64	GS/ROCK	3, 16
10094	877180.020	632797.303	999.42	GB	3, 16
10095	877141.030	632804.165	1008.53	GB	3, 16
10096	877113.347	632809.355	1011.02	GB	3, 16
10097	877055.202	632820.300	1011.66	GS/ROCK	3, 16
10098	876990.787	632831.800	1012.59	GS/SAND	3, 16
10099	876934.778	632842.086	1013.97	GB/TOE	3, 16
10100	876850.354	632857.639	1023.76	GB	3, 16
10101	876791.025	632868.391	1025.32	GS/ROCK	3, 16
10102	876710.307	632883.147	1025.38	GS/ROCK	3, 16
10103	876684.688	632888.048	1025.30	GB	3, 16
10104	876677.776	632888.837	1027.73	GB/BERM	3, 16
10105	876672.508	632889.966	1024.85	GB	3, 16
10106	876616.523	632900.855	1024.85	GS/ROCK	3, 16
10107	876550.910	632911.459	1024.91	GS/SAND	3, 16
10108	876451.572	632930.705	1023.63	GS/SAND	3, 16
10109	876366.280	632945.955	1023.28	GS/SAND	3, 16
10110	876292.778	632959.368	1023.97	GS/SAND	3, 16
10111	876255.790	632966.072	1026.48	GB	3, 16
10112	876226.449	632971.900	1033.57	GB	3, 16
10113	876163.392	632982.522	1036.01	GS/SAND	3, 16
10114	876096.607	632995.447	1035.58	GS/DIRT	3, 16
10115	876049.277	633003.656	1035.06	GB	3, 16
10116	876036.317	633005.863	1038.44	GB/TOP	3, 16
10117	876011.005	633010.853	1027.34	GB/TOE	3, 16
10118	875977.443	633016.538	1027.27	GB	3, 16
10119	875954.048	633021.355	1030.90	GB	3, 16
10120	875942.878	633023.250	1031.00	GB/TOE OF SLOPED WALL	3, 16
10121	875935.303	633024.834	1038.40	GB/TOP SLOPED WALL	3, 16
CROSS SECTION No. 9					
20324	874146.623	627940.791	1025.41	GS	2, 15
20325	874172.649	627936.307	1025.09	GB	2, 15
20326	874177.721	627935.086	1027.15	GB	2, 15
20327	874180.570	627934.179	1027.19	GB	2, 15
20328	874184.839	627932.946	1025.42	EPAV	2, 15
20329	874208.167	627926.601	1025.81	GS	2, 15
20330	874224.728	627917.612	1025.91	EPAV	2, 15
20331	874234.887	627919.962	1026.03	GS/CONVEYOR-SOUTHSIDE	2, 15
20332	874292.926	627908.995	1025.39	GS	2, 15
20333	874292.931	627909.003	1025.42	GS	2, 15

CROSS SECTION COORDINATES					
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	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20334	874342.710	627895.480	1026.27	GB	2, 15
20336	874363.774	627890.240	1033.23	GS/ROAD	2, 15
20337	874372.732	627886.862	1032.58	TOP	2, 15
20338	874396.393	627881.769	1016.61	GB	2, 15
20339	874456.198	627868.046	1012.12	GS	2, 15
20340	874495.363	627857.647	1012.30	GS	2, 15
20341	874537.827	627848.752	1012.30	GS	2, 15
20342	874560.135	627841.972	1013.06	GB	2, 15
20343	874566.402	627840.032	1015.19	GB	2, 15
20344	874613.196	627831.825	1016.26	GB	2, 15
20345	874664.390	627816.015	1016.24	GS	2, 15
20346	874713.080	627804.910	1015.27	GS	2, 15
20347	874763.344	627792.174	1014.20	GS	2, 15
20348	874814.183	627780.610	1013.68	GS	2, 15
20349	874842.440	627775.003	1012.99	GB	2, 15
20350	874852.397	627771.575	1011.24	GB	2, 15
20351	874901.655	627759.573	1010.04	GS	2, 15
20352	874951.348	627747.506	1009.68	GS	2, 15
20353	874967.543	627742.612	1010.33	GB	2, 15
20354	875018.229	627731.558	1009.09	GS	2, 15
20355	875044.106	627724.988	1009.00	GB	2, 15
20356	875058.371	627720.082	1010.68	GB	2, 15
20357	875077.018	627717.552	1014.20	GB	2, 15
20358	875127.117	627703.812	1015.02	GS	2, 15
20359	875183.205	627691.175	1016.78	GS	2, 15
20360	875232.710	627677.680	1016.92	GS	2, 15
20361	875282.213	627666.004	1017.05	GS	2, 15
20362	875332.305	627655.987	1017.05	GS	2, 15
20363	875385.969	627641.174	1017.49	GS	2, 15
20364	875438.874	627630.076	1017.70	GS	2, 15
20365	875489.781	627616.230	1018.31	GS	2, 15
20366	875540.219	627603.163	1018.95	GS	2, 15
20367	875594.941	627591.794	1018.25	GB	2, 15
20368	875628.207	627581.797	1015.54	GB	2, 15
20369	875645.200	627577.527	1015.08	GB	2, 15
20370	875692.981	627565.771	1015.35	GS	2, 15
20371	875749.192	627553.049	1015.34	GB	2, 15
20372	875753.680	627550.709	1012.97	GB	2, 15
20373	875761.019	627548.427	1010.38	GB	2, 15
20374	875765.608	627546.000	1007.69	GB	2, 15

CROSS SECTION COORDINATES					
PROJECT NAME:	LOWER SALT RIVER				
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	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20376	875777.753	627540.515	1004.58	GB	2, 15
20377	875827.082	627536.371	1003.14	GS	2, 15
20378	875875.026	627521.899	1003.09	GS	2, 15
20379	875924.115	627510.707	1004.10	GS	2, 15
20380	875974.614	627498.380	1005.91	GS	2, 15
20381	875989.864	627494.790	1006.58	GB	2, 15
20382	876038.678	627483.009	1008.69	GS	2, 15
20383	876089.509	627471.296	1010.89	GS	2, 15
20384	876124.848	627460.840	1012.49	GB	2, 15
20385	876177.119	627449.805	1013.09	GS	2, 15
20386	876228.874	627436.525	1013.39	GS	2, 15
20387	876279.584	627424.619	1013.56	GS	2, 15
20388	876326.448	627413.033	1013.39	GS	2, 15
20389	876373.322	627405.995	1011.78	GB	2, 15
20390	876395.710	627397.357	1007.78	GB	2, 15
20391	876402.377	627395.842	1007.23	GB	2, 15
20392	876449.433	627382.980	1005.71	GS	2, 15
20393	876466.035	627378.761	1005.73	GB	2, 15
20394	876477.769	627375.661	1007.24	GB	2, 15
20395	876488.754	627373.582	1009.82	GB	2, 15
20396	876503.279	627369.859	1009.84	GB	2, 15
20397	876517.573	627366.386	1008.41	GB	2, 15
20398	876551.126	627359.703	1007.95	GS	2, 15
20399	876586.322	627350.014	1007.73	GB	2, 15
20400	876599.673	627346.334	1010.17	GB	2, 15
20401	876615.478	627342.659	1017.69	GS/FENCE BARBWIRE	2, 15
20402	876624.053	627342.200	1022.29	TOP	2, 15
20403	876693.920	627324.864	973.26	GS	2, 15
20404	876731.390	627314.184	963.91	GB	2, 15
20405	876780.059	627303.233	961.18	GS	2, 15
20406	876833.729	627290.116	960.50	GS	2, 15
CROSS SECTION No. 10					
20225	874223.181	622663.399	1014.29	GS	14
20226	874223.291	622663.391	1014.24	GS	14
20227	874274.388	622648.794	1016.19	GS	14
20228	874323.159	622635.317	1016.96	GS	14
20229	874331.360	622631.907	1016.95	GB	14
20230	874349.119	622627.066	1018.57	GB	14
20231	874401.752	622612.584	1017.25	GS	14
20232	874422.833	622606.408	1017.18	GB	14

CROSS SECTION COORDINATES					
PROJECT NAME:	LOWER SALT RIVER				
DATE:	4/9/2013	RBF PROJECT 134664			
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20233	874435.617	622603.482	1024.62	GB	14
20234	874454.257	622598.476	1013.05	GB	14
20235	874461.888	622595.373	1011.99	GB	14
20236	874468.510	622593.359	1012.19	GB	14
20237	874513.093	622581.618	1012.07	GB	14
20238	874529.770	622575.860	1010.75	GB	14
20239	874537.424	622574.328	1009.52	GB	14
20240	874559.286	622568.615	1013.60	GB	14
20241	874579.480	622562.346	1009.90	GB	14
20243	874603.834	622555.821	991.80	GB	14
20244	874627.251	622548.804	988.77	GB	14
20245	874671.877	622536.516	986.58	GS	14
20246	874672.653	622536.309	986.43	GS	14
20247	874728.978	622520.928	985.54	GB	14
20248	874778.833	622505.497	989.28	GB	14
20249	874826.138	622493.285	990.95	GS	14
20250	874876.643	622478.207	991.75	GS	14
20251	874906.506	622471.623	992.64	GB	14
20252	874944.229	622459.270	991.62	GB	14
20253	874959.836	622454.667	993.08	GB	14
20254	874967.749	622453.496	995.74	GB	14
20255	875015.130	622439.264	996.57	GS	14
20256	875068.302	622425.226	994.93	GS	14
20257	875090.644	622418.269	994.18	GB	14
20258	875103.381	622414.878	997.23	GB	14
20259	875108.939	622412.736	996.09	GB	14
20260	875115.546	622411.551	997.79	GB	14
20261	875159.466	622396.640	997.89	GS	14
20262	875208.639	622382.146	998.97	GS	14
20263	875236.289	622375.509	999.20	GB	14
20264	875240.811	622373.215	998.60	GB	14
20265	875274.597	622367.709	998.70	GB	14
20266	875279.472	622364.634	999.91	GB	14
20267	875296.059	622360.164	1000.73	GS	14
20268	875326.728	622351.523	1000.77	GB	14
20269	875332.402	622350.262	999.90	GB	14
20270	875339.414	622348.574	1000.11	GB	14
20271	875344.825	622347.231	998.96	GB	14
20272	875354.436	622344.549	997.62	GB	14
20273	875368.924	622339.644	998.32	GB	14

CROSS SECTION COORDINATES					
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DATE:	4/9/2013	RBF PROJECT 134664			
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20280	875381.044	622343.521	996.36	GS	14
20281	875423.167	622323.828	997.04	GS	14
20282	875469.371	622311.086	996.80	GS	14
20283	875499.658	622302.527	997.04	GB	14
20284	875551.474	622288.241	996.88	GB	14
20285	875561.163	622289.456	996.45	GB	14
20286	875577.452	622284.903	996.66	GB	14
20287	875602.277	622274.906	999.24	GB	14
20288	875612.095	622270.852	998.38	GB	14
20289	875619.254	622273.769	996.89	GB	14
20290	875627.338	622264.970	997.22	GB	14
20291	875630.732	622264.596	996.07	GB	14
20292	875634.139	622264.105	996.32	GB	14
20293	875640.858	622263.091	995.06	GB	14
20294	875648.602	622258.608	994.66	GS	14
20295	875659.185	622256.683	995.38	GB	14
20296	875662.910	622256.462	995.88	GB	14
20297	875678.647	622248.989	996.78	GB	14
20298	875684.945	622244.848	995.70	GB	14
20299	875691.132	622247.176	996.12	GB	14
20300	875697.653	622246.563	996.09	GB	14
20301	875700.969	622246.480	995.55	GB	14
20302	875707.706	622244.105	997.64	GB	14
20303	875728.331	622238.185	997.72	GB	14
20304	875756.551	622227.795	1000.35	GB	14
20305	875803.915	622215.710	1000.50	GS	14
20306	875853.208	622201.324	1001.20	GS	14
20307	875882.915	622199.226	1000.63	GB	14
20308	875893.157	622195.732	1000.67	GB	14
20309	875913.524	622186.115	999.88	GS	14
20310	875924.143	622181.552	1000.69	GB	14
20311	875960.589	622171.628	1005.08	GS	14
20312	875977.378	622166.302	1006.68	GB	14
20313	875994.349	622163.701	1014.70	TOP	14
20314	876007.433	622157.166	1015.83	GS/BLOCK WALL 2.00 NORTH	14
20316	876052.797	622146.820	1016.48	GS/CONC-ROAD	14
20317	876075.646	622138.793	1016.23	GS	14
20318	876095.559	622133.674	1015.31	GS/CONC-ROAD	14
20319	876106.766	622130.388	1014.96	GS/CONC	14
20320	876118.659	622127.789	1014.44	GS/CONC	14

CROSS SECTION COORDINATES					
PROJECT NAME:		LOWER SALT RIVER			
DATE:		4/9/2013	RBF PROJECT 134664		
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20321	876130.087	622125.607	1014.57	GS/CONC	14
20322	876174.236	622112.094	1016.66	GS/CONC	14
20323	876205.412	622102.234	1016.62	GS/CONC	14
CROSS SECTION No. 11					
10130	874708.988	616709.471	1008.61	GS/SIDE OF DIRT BERM	13
10131	874646.085	616738.185	1006.95	GS/DIRT	13
10132	874585.919	616765.194	1007.27	GS/DIRT	13
10133	874479.964	616815.176	1005.20	GS/DIRT	13
10134	874423.438	616840.359	1005.25	GB/BASE OF DIRT HILL	13
10135	874387.483	616856.121	1019.49	GB/TOP DIRT HILL	13
10136	874356.862	616870.321	1006.54	GB/BASE OF DIRT HILL	13
10137	874347.465	616874.667	1007.28	GB	13
10138	874338.621	616878.582	1002.52	GB	13
10139	874297.059	616897.050	1001.77	GS/DIRT	13
10140	874280.411	616901.873	1002.89	GB	13
10141	874277.259	616906.977	1007.85	GB	13
10142	874263.031	616912.944	1008.55	GB	13
10143	874243.892	616921.583	1016.86	GB/TOP	13
10144	874150.137	616973.822	994.73	GB/TOE	13
10145	874083.281	616995.475	986.82	GS/DIRT	13
10146	874032.616	617019.312	987.08	GB/TOP	13
10147	874003.867	617031.468	967.41	GB/TOE	13
10148	873956.558	617053.616	962.69	GS/DIRT	13
10149	873931.018	617065.590	960.90	GS/DIRT	13
10150	873878.398	617089.523	959.86	GS/DIRT	13
10151	873806.222	617121.366	960.09	GS/DIRT	13
10152	873744.885	617149.838	960.43	GS/DIRT	13
10153	873691.960	617175.283	960.69	GS/ROCK	13
10154	873678.472	617181.533	959.94	GB	13
10155	873650.583	617193.461	957.84	GB	13
10156	873643.924	617196.399	959.01	GB	13
10157	873594.772	617217.859	957.82	GB/TOE	13
10158	873592.663	617220.135	959.19	GB	13
10159	873528.581	617249.759	976.51	GB/TOP	13
10160	873518.507	617254.332	972.28	GB	13
10161	873465.869	617277.624	972.32	GS/DIRT	13
10162	873414.172	617300.331	972.57	GS/DIRT	13
10163	873369.727	617321.748	972.14	GS/DIRT	13
10164	873355.078	617328.201	972.97	GB	13
10165	873343.363	617333.358	978.08	GB/ROCK	13

CROSS SECTION COORDINATES					
PROJECT NAME:	LOWER SALT RIVER				
DATE:	4/9/2013	RBF PROJECT 134664			
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
10166	873338.614	617335.330	976.58	GB/ROCK	13
10167	873299.955	617353.489	974.24	GB/TOE	13
10168	873278.065	617363.131	975.29	GB	13
10169	873254.117	617374.401	981.68	GB	13
10170	873242.742	617379.605	983.42	GB	13
10171	873190.193	617403.457	996.10	GB/TOP	13
10172	873166.441	617414.366	994.78	GB	13
10173	873137.771	617427.800	992.25	GB	13
10174	873127.511	617432.627	993.21	GB	13
10175	873107.085	617442.212	991.73	GB	13
10176	873088.050	617450.577	993.32	GB	13
10177	873042.406	617471.472	991.09	GB	13
10178	872996.791	617491.972	993.66	GS/ROCK	13
10179	872946.023	617514.962	996.96	GS/ROCK	13
10180	872897.911	617537.243	1000.10	GB/TOP	13
10181	872841.757	617562.409	1001.17	GS/DIRT	13
10182	872788.051	617587.628	1000.16	GS/DIRT	13
10183	872712.104	617621.913	999.60	GS/DIRT	13
10184	872624.716	617662.384	999.35	GS/DIRT	13
10185	872585.650	617680.606	999.52	GB/TOP	13
10186	872546.478	617697.616	992.54	GB/TOE	13
10187	872462.667	617735.836	993.19	GS/SAND	13
10188	872406.651	617763.171	993.36	GS/SAND	13
10189	872368.995	617779.191	993.42	GB	13
10190	872359.109	617784.556	992.67	GB/EOR	13
10191	872335.118	617793.965	992.96	GB/EOR	13
10192	872328.967	617797.548	994.28	GB	13
10193	872292.731	617814.643	994.07	GS/ROCK	13
10194	872268.071	617825.290	992.74	GB	13
10195	872235.049	617841.871	999.87	GB	13
10196	872203.694	617856.252	998.23	GS/7FT BARB FNC	13
CROSS SECTION No. 12					
10197	873538.011	611387.813	993.91	GS/DIRT	12
10198	873461.325	611398.301	992.99	GS/DIRT	12
10199	873386.929	611408.089	992.79	GS/DIRT	12
10200	873312.174	611417.343	992.26	GS/DIRT	12
10201	873237.823	611425.881	992.01	GS/DIRT	12
10202	873169.368	611434.166	990.94	GS/DIRT	12
10203	873093.137	611444.115	990.18	GB/TOP	12
10204	873083.950	611445.381	988.67	GB	12

CROSS SECTION COORDINATES					
PROJECT NAME:		LOWER SALT RIVER			
DATE:		4/9/2013	RBF PROJECT 134664		
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
10205	873081.433	611446.164	988.72	GS/CL DIRT ROAD	12
10206	873075.386	611447.005	989.43	GB	12
10207	873057.705	611449.128	990.07	GB	12
10208	873043.589	611450.996	988.29	GB	12
10209	872991.155	611457.145	987.33	GB	12
10210	872909.550	611468.516	979.05	GB/TOE	12
10211	872843.644	611475.750	980.00	GS/ROCK	12
10212	872774.423	611484.958	982.35	GS/ROCK	12
10213	872736.257	611489.513	982.03	GB/ROCK	12
10214	872689.852	611495.833	976.83	GB/ROCK	12
10215	872639.260	611501.285	985.05	GB/ROCK	12
10216	872608.947	611504.976	977.07	GB/ROCK	12
10217	872587.925	611510.030	976.60	GB/ROCK	12
10218	872559.396	611511.853	973.88	GB	12
10219	872542.764	611513.551	974.82	GB/ROCK	12
10220	872474.054	611521.849	970.67	GB/ROCK	12
10221	872457.465	611524.088	977.99	GB/ROCK	12
10222	872445.816	611525.791	973.51	GB/ROCK	12
10223	872390.085	611532.145	971.84	GB/ROCK	12
10224	872377.267	611534.255	975.60	GB/ROCK	12
10225	872301.767	611543.861	973.92	GB/ROCK	12
10226	872239.139	611551.586	978.03	GB/DIRT	12
10227	872216.024	611554.952	976.16	GS/ROCK	12
10228	872192.823	611557.183	974.86	GB/ROCK	12
10229	872124.401	611566.250	978.61	GB/ROCK	12
10230	872055.450	611574.272	977.11	GS/ROCK	12
10231	872037.135	611576.648	976.39	GB/ROCK	12
10232	871947.500	611587.960	971.89	GB/TOE	12
10233	871915.248	611592.350	974.33	GB/ROCK	12
10234	871908.168	611592.547	977.47	GB/ROCK	12
10235	871871.959	611598.003	979.80	GB/SAND	12
10236	871851.525	611600.608	985.93	GB/TOP	12
10237	871785.024	611609.511	987.50	GS/DIRT	12
10238	871713.316	611617.852	988.08	GS/DIRT	12
10239	871639.308	611626.739	988.11	GS/DIRT	12
10240	871606.685	611631.410	988.32	GB/TOP	12
10241	871541.493	611639.059	985.50	GB/TOE	12
10242	871509.973	611643.497	992.07	GB/TOP	12
10243	871454.224	611649.543	993.99	GS/DIRT	12
10244	871379.243	611660.319	992.94	GS/DIRT	12

CROSS SECTION COORDINATES					
PROJECT NAME:	LOWER SALT RIVER				
DATE:	4/9/2013	RBF PROJECT 134664			
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
10245	871320.902	611666.889	995.04	GS/DIRT	12
10246	871312.062	611668.721	994.76	GB/DIRT	12
10247	871278.282	611672.646	991.15	GB/DIRT	12
10248	871224.191	611679.448	993.80	GB/DIRT	12
CROSS SECTION No. 13					
20407	870380.152	606524.059	983.20	GS	11
20408	870431.683	606503.380	982.35	GS	11
20409	870484.624	606484.090	981.80	GS	11
20410	870538.558	606464.759	980.86	GS	11
20411	870573.338	606451.527	981.61	GB	11
20412	870584.524	606447.556	986.21	TOP	11
20413	870600.635	606438.960	975.76	GB	11
20414	870606.876	606437.158	974.77	GB	11
20415	870629.430	606428.896	974.73	GB	11
20416	870641.379	606424.326	972.51	GB	11
20417	870651.505	606419.956	971.25	GB	11
20418	870695.556	606405.466	969.28	GS	11
20419	870729.238	606392.890	966.99	GB	11
20420	870746.461	606385.204	966.17	GB	11
20421	870794.670	606367.734	965.40	GS	11
20422	870840.823	606348.832	966.70	GS	11
20423	870888.471	606328.498	968.21	GS	11
20424	870937.193	606312.981	969.38	GS	11
20425	870985.384	606293.276	970.95	GS	11
20426	871031.593	606274.745	972.06	GS	11
20427	871081.432	606257.111	973.17	GS	11
20428	871133.274	606235.749	975.19	GB	11
20429	871156.823	606227.359	977.99	GB	11
20430	871183.264	606217.251	978.97	GB	11
20431	871235.190	606197.972	977.68	GS	11
20432	871289.013	606175.568	977.78	GS	11
20433	871342.091	606156.343	978.07	GS	11
20434	871388.677	606137.880	978.18	GS	11
20435	871437.737	606118.146	978.26	GS	11
20436	871490.323	606099.618	977.76	GS	11
20437	871490.384	606099.529	977.74	GS	11
20438	871515.551	606092.757	975.99	GB	11
20439	871519.969	606090.218	974.81	GB	11
20440	871542.334	606078.638	974.07	GB	11
20441	871552.290	606071.646	975.64	GB	11

CROSS SECTION COORDINATES					
PROJECT NAME:	LOWER SALT RIVER				
DATE:	4/9/2013	RBF PROJECT 134664			
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20442	871555.144	606069.575	975.52	GB	11
20443	871560.207	606069.580	974.16	GB	11
20444	871579.994	606064.834	972.46	GB	11
20445	871585.279	606065.594	971.47	GB	11
20446	871591.643	606063.781	971.10	GB	11
20447	871598.199	606060.352	972.90	GB	11
20448	871601.005	606059.375	972.59	GB	11
20449	871611.415	606054.037	969.95	GB	11
20450	871636.834	606041.619	969.48	GS	11
20451	871669.110	606031.443	969.62	GB	11
20452	871687.283	606024.535	977.02	GB	11
20453	871699.115	606019.355	979.70	GB	11
20454	871707.766	606016.214	982.05	GB	11
20456	871725.254	606010.980	993.28	GB	11
20457	871727.840	606010.325	993.75	GB	11
20458	871736.050	606006.786	997.81	TOP	11
20459	871750.386	606001.408	997.25	GB	11
20460	871776.237	605991.047	993.93	GS	11
20461	871797.645	605983.920	991.60	GB	11
20462	871810.808	605979.067	994.84	GB	11
20463	871815.266	605977.467	990.47	GB	11
20464	871832.682	605975.103	980.65	GB	11
CROSS SECTION No. 14					
10249	866042.166	602784.728	980.49	GB/DIRT	19
10250	866114.262	602762.368	980.11	GB/DIRT	19
10251	866168.659	602745.592	979.80	GB/DIRT	19
10252	866254.232	602721.032	979.02	GB/DIRT	19
10253	866299.958	602706.108	979.22	GB/DIRT	19
10254	866356.918	602688.714	979.31	GB/DIRT	19
10255	866428.567	602667.174	978.57	GB/DIRT	19
10256	866457.684	602658.964	977.75	GB/DIRT	19
10257	866548.317	602629.996	973.09	GB/VEG	19
10258	866630.887	602605.449	977.68	GB/TOP	19
10259	866643.243	602602.387	976.49	GB/CL DIRT ROAD	19
10260	866656.776	602597.702	978.19	GB/EOR	19
10261	866630.990	602605.602	977.66	GB/EOR	19
10262	866696.048	602585.187	976.70	GB/DIRT	19
10263	866739.989	602572.126	971.39	GB/DIRT	19
10264	866785.739	602558.003	973.82	GB/DIRT	19
10265	866849.255	602539.139	974.75	GS/VEG	19

CROSS SECTION COORDINATES					
PROJECT NAME:		LOWER SALT RIVER			
DATE:		4/9/2013	RBF PROJECT 134664		
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
10266	866915.149	602518.918	974.78	GS/VEG	19
10267	866963.677	602504.365	973.21	GB/DIRT	19
10268	866978.541	602500.267	974.28	GB/DIRT	19
10269	867000.670	602492.410	973.16	GB/VEG	19
10271	867018.601	602487.425	972.75	GB/DIRT	19
10272	867042.342	602480.063	973.88	GS/EOR	19
10273	867050.567	602477.701	974.28	GS/EOR	19
10274	867074.972	602470.686	977.74	GB/TOP	19
10277	867214.642	602426.958	973.03	GB/DIRT	19
10278	867266.713	602410.959	973.40	GB/DIRT	19
10279	867283.971	602406.589	971.17	GB/DIRT	19
10280	867312.173	602397.888	975.11	GB/DIRT	19
10281	867407.198	602238.808	970.20	GB/EDGE WATER	19
11000	870279.782	601493.877	982.63	GS/CLF	19
11001	870274.561	601495.076	981.91	GB	19
11002	870222.835	601511.478	982.31	GB/CLD	19
11003	870215.937	601513.280	982.25	GB/CLD	19
11004	870220.032	601530.549	980.87	GB/CLD	19
11005	870173.588	601525.518	981.90	GS/FNC HISTORIC CATTLE CORAL	19
11006	870130.656	601538.883	981.08	GS/FNC HISTORIC CATTLE CORAL	19
11007	870103.078	601547.040	979.87	GB/TOP	19
11008	870077.923	601554.355	972.72	GB/TOE	19
11009	870005.116	601576.822	973.20	GS/DIRT	19
11010	869944.775	601594.637	973.47	GS/DIRT	19
11011	869921.185	601602.799	973.81	GS/BOLLARD CABLE FNC	19
11012	869882.695	601613.993	974.06	GS/DIRT	19
11013	869858.761	601622.116	974.46	GB/DIRT	19
11014	869851.409	601624.217	973.49	GB/DIRT	19
11015	869805.128	601637.961	973.85	GS/DIRT	19
11016	869743.829	601656.701	972.45	GS/DIRT	19
11018	869628.368	601691.434	966.23	GB/DIRT	19
11019	869568.283	601710.737	965.86	GS/DIRT	19
11020	869524.292	601723.117	965.86	GS/ROCK	19
11021	869503.433	601734.730	966.31	GB/ROCK	19
11022	869497.116	601731.227	964.54	GB/ROCK	19
11023	869464.232	601741.804	969.86	GB/ROCK	19
11024	869459.269	601743.404	969.19	GB/ROCK	19
11025	869439.683	601748.821	964.41	GB/ROCK	19
11026	869418.425	601755.072	967.92	GB/ROCK	19
11027	869356.750	601773.838	967.42	GS/ROCK	19

CROSS SECTION COORDINATES					
PROJECT NAME:	LOWER SALT RIVER				
DATE:	4/9/2013	RBF PROJECT 134664			
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
11028	869313.643	601787.586	967.82	GS/ROCK	19
11029	869257.025	601804.568	968.33	GS/ROCK	19
11030	869203.710	601821.194	968.52	GB/ROCK	19
11031	869142.480	601839.285	968.24	GS/ROCK	19
11032	869068.615	601862.276	966.26	GS/ROCK	19
11033	869014.633	601879.256	966.44	GS/ROCK	19
11034	868953.700	601898.401	968.05	GS/ROCK	19
11035	868877.907	601920.457	967.99	GS/ROCK	19
11036	868805.269	601942.591	967.19	GS/ROCK	19
11037	868735.245	601963.722	966.41	GS/ROCK	19
11038	868691.400	601976.924	966.53	GB/ROCK	19
11039	868647.176	601990.971	964.70	GB/SAND	19
11040	868610.889	602001.815	967.84	GB/SAND	19
11041	868565.301	602015.520	957.63	GB/SAND	19
11042	868496.865	602036.199	958.10	GB/SAND	19
11043	868489.731	602037.953	959.53	GB/SAND	19
11044	868445.389	602052.115	959.20	GB/TOE	19
11045	868413.014	602062.413	970.02	GB/TOP	19
11046	868347.775	602083.257	970.14	GS/ROCK	19
11047	868255.890	602110.212	969.92	GB/ROCK	19
11048	868203.181	602126.128	968.79	GB/ROCK	19
11049	868165.744	602137.440	965.45	GB/DIRT	19
11050	868100.605	602156.734	967.84	GS/DIRT	19
11051	868046.150	602173.449	969.54	GB/DIRT	19
11052	868012.001	602184.179	977.41	GB/DIRT	19
11053	867941.314	602205.734	977.69	GS/DIRT	19
11054	867885.406	602222.767	977.51	GS/DIRT	19
11055	867814.655	602243.924	976.35	GS/DIRT	19
11056	867759.730	602260.939	976.74	GS/HEAVY VEG	19
11057	867731.027	602270.043	977.01	GB/DIRT HEAVY VEG	19
11058	867717.851	602274.634	971.49	GB/DIRT HEAVY VEG	19
11059	867705.356	602268.247	970.52	GS/WATER EDGE	19
CROSS SECTION No. 15					
20465	864997.935	597306.747	971.79	GS/FENCE BARB WIRE	18
20466	865006.138	597306.650	970.58	GS	18
20467	865059.076	597298.399	970.25	GS	18
20468	865113.269	597294.838	970.18	GS	18
20469	865172.496	597293.550	969.46	GS	18
20470	865229.538	597289.230	969.75	GS	18
20471	865297.963	597286.724	969.58	GB	18

CROSS SECTION COORDINATES					
PROJECT NAME:	LOWER SALT RIVER				
DATE:	4/9/2013	RBF PROJECT 134664			
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20472	865303.560	597286.768	968.55	GB	18
20473	865309.989	597286.752	968.51	GB	18
20474	865313.727	597287.306	968.93	GB	18
20475	865323.143	597286.497	967.60	GB	18
20476	865381.240	597282.141	967.47	GS	18
20477	865437.089	597280.029	967.20	GS	18
20478	865478.095	597276.884	966.64	GS	18
20479	865543.086	597275.443	967.33	GB	18
20480	865599.943	597271.439	966.37	GS	18
20481	865653.171	597270.583	965.79	GS	18
20482	865672.672	597267.943	965.50	GB	18
20484	865693.295	597268.195	962.59	GB	18
20486	865698.914	597266.838	964.19	GB	18
20487	865716.309	597265.306	966.83	GB	18
20488	865750.737	597288.384	967.06	GS	18
20489	865766.992	597310.327	966.40	GB	18
20490	865787.181	597314.117	963.78	GB	18
20491	865795.672	597314.440	963.28	GB	18
20492	865798.788	597314.294	963.94	GB	18
20493	865803.212	597315.784	962.96	GB	18
20494	865807.469	597316.107	963.01	GB	18
20495	865815.064	597315.672	964.41	GB	18
20496	865837.706	597319.308	964.43	GB	18
20497	865845.702	597319.005	963.56	GB	18
20498	865852.325	597316.918	964.74	GB	18
20499	865857.098	597315.909	965.08	GB	18
20500	865862.490	597316.046	964.24	GB	18
20501	865868.996	597316.841	964.80	GB	18
20502	865875.863	597318.891	963.86	GB	18
20503	865879.860	597321.388	964.42	GB	18
20504	865883.535	597325.194	964.38	GB	18
20505	865892.911	597325.245	966.55	GB	18
20506	865906.387	597325.116	966.89	GB	18
20507	865920.793	597321.947	963.64	GB	18
20508	865941.511	597312.584	963.57	GB	18
20509	865948.752	597309.751	962.75	GB	18
20510	866002.073	597284.181	962.09	GB	18
20511	866017.115	597276.376	961.15	GB	18
20512	866053.750	597261.327	961.42	GS	18
20513	866074.367	597246.051	961.46	GB	18

CROSS SECTION COORDINATES					
PROJECT NAME:	LOWER SALT RIVER				
DATE:	4/9/2013	RBF PROJECT 134664			
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20514	866085.530	597246.826	965.66	GB	18
20515	866093.066	597245.330	966.56	GB	18
20516	866126.467	597245.443	967.02	GS/ROAD	18
20517	866134.471	597243.968	967.17	GS/ROAD	18
20518	866140.012	597242.945	967.75	GB	18
20519	866177.454	597238.538	968.77	GS	18
20520	866220.043	597240.481	971.30	GS	18
20521	866271.709	597244.580	971.77	GS	18
20522	866308.660	597231.006	970.61	GB	18
20523	866324.796	597234.974	967.30	GB	18
20524	866339.605	597233.586	966.20	GB	18
20525	866349.823	597232.687	967.20	GB	18
20533	866638.331	597275.626	960.54	GB	18
20535	866649.962	597270.121	959.32	GB	18
20536	866654.209	597267.586	960.17	GB	18
20537	866658.756	597262.833	959.08	GB	18
20538	866664.332	597256.650	959.65	GB	18
20539	866677.398	597254.095	958.44	GB	18
20540	866689.325	597248.415	957.43	GB	18
20542	866702.766	597242.975	956.74	GB	18
20543	866711.521	597236.868	957.01	GB	18
20545	866725.773	597227.654	956.87	GB	18
20546	866731.923	597222.453	957.24	GB	18
20547	866753.927	597215.614	957.05	GS	18
20549	866771.260	597211.512	956.52	GB	18
20550	866786.227	597210.518	956.96	GB	18
20551	866788.341	597210.437	956.24	GB	18
20552	866805.892	597211.966	954.52	GB	18
20553	866838.752	597210.648	954.52	GS	18
20554	866864.555	597201.754	954.87	GB	18
20555	866878.379	597196.308	955.87	GB	18
20557	866899.601	597199.827	959.34	GB	18
20558	866908.506	597206.581	959.17	GB	18
20559	866911.128	597212.021	961.15	GB	18
20560	866938.774	597219.986	961.10	GS	18
20561	866990.631	597201.139	959.41	GS	18
20562	866990.624	597201.219	959.44	GS	18
20563	867018.576	597207.464	958.89	GS	18
20564	867077.509	597212.183	957.87	GS	18
20565	867127.857	597194.611	957.14	GS	18

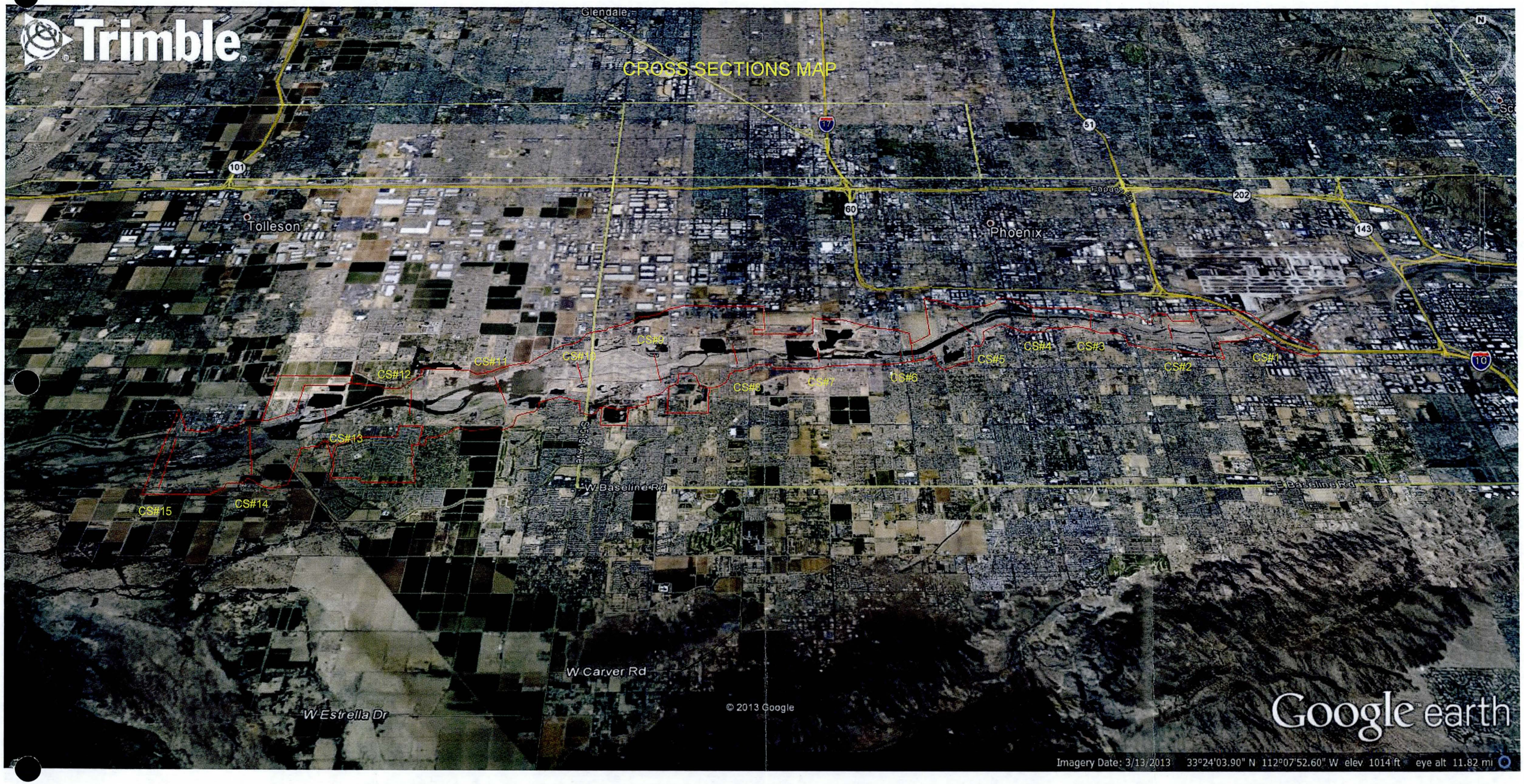
CROSS SECTION COORDINATES					
PROJECT NAME:	LOWER SALT RIVER				
DATE:	4/9/2013	RBF PROJECT 134664			
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20566	867179.086	597190.622	958.40	GS	18
20567	867207.720	597189.011	958.58	GB	18
20568	867248.662	597188.720	961.76	GB	18
20569	867279.169	597182.976	961.93	GS	18
20570	867302.553	597179.151	961.33	GB	18
20571	867312.195	597174.306	958.77	GB	18
20572	867316.443	597170.064	957.83	GB	18
20577	867470.410	597179.052	956.92	GS	18
20578	867481.708	597173.703	957.32	GB	18
20579	867493.902	597173.066	958.86	GB	18
20580	867498.256	597171.862	958.92	GB	18
20581	867500.913	597171.532	958.11	GB	18
20582	867512.420	597168.733	957.91	GB	18
20583	867515.881	597167.364	959.14	GB	18
20584	867530.195	597165.524	959.18	GB	18
20585	867537.874	597166.326	957.37	GB	18
20586	867539.679	597167.431	957.30	GB	18
20588	867564.545	597173.327	960.45	GB	18
20590	867582.308	597163.917	959.75	GB	18
20591	867613.598	597167.762	959.35	GS	18
20592	867619.847	597169.870	960.54	GB	18
20593	867630.474	597138.468	959.90	GB	18
20594	867642.799	597137.601	958.45	GB	18
20595	867656.796	597137.592	958.40	GB	18
20596	867670.607	597139.071	959.83	GB	18
20598	867821.555	597180.875	958.06	GB	18
20599	867824.831	597178.376	957.83	GB	18
20600	867828.538	597176.636	958.31	GB	18
20601	867834.184	597171.304	956.78	GB	18
20602	867842.008	597165.141	957.17	GB	18
20603	867848.765	597155.817	960.05	GB	18
20604	867859.784	597148.663	959.05	GB	18
20605	867863.983	597147.593	957.52	GB	18
20606	867870.268	597145.781	957.89	GB	18
20607	867876.212	597145.724	958.72	GB	18
20608	867886.843	597152.640	958.82	GB	18
20609	867889.830	597152.135	957.34	GB	18
20610	867894.465	597151.469	956.34	GB	18
20611	867903.320	597152.738	956.92	GB	18
20612	867915.596	597154.827	959.29	GB	18

CROSS SECTION COORDINATES					
PROJECT NAME:	LOWER SALT RIVER				
DATE:	4/9/2013	RBF PROJECT 134664			
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20613	867916.316	597154.759	959.35	GB	18
20614	867950.877	597150.421	959.72	GS	18
20615	867971.816	597146.280	960.46	GB	18
20616	867986.157	597146.448	958.05	GB	18
20617	868005.577	597144.678	957.38	GS	18
20618	868025.887	597141.315	956.76	GB	18
20619	868054.161	597133.809	959.49	GB	18
20620	868086.792	597125.037	958.48	GS	18
20621	868117.787	597111.612	960.43	GB	18
20622	868134.789	597110.204	962.23	GB	18
20623	868146.099	597107.960	960.31	GB	18
20624	868152.217	597107.392	960.46	GB	18
20625	868169.893	597107.491	964.78	GB	18
20626	868207.005	597098.832	964.75	GB	18
20627	868215.153	597100.268	964.10	GB	18
20628	868221.145	597100.298	963.89	GB	18
20629	868229.296	597098.325	965.16	GB	18
20630	868254.018	597098.160	964.49	GS	18
20631	868295.180	597125.611	965.17	GS	18
20632	868343.712	597117.998	964.61	GS	18
20633	868363.268	597140.006	964.36	GB	18
20635	868377.624	597137.239	961.75	GB	18
20636	868388.102	597134.369	964.94	GB	18
20637	868400.887	597132.867	963.34	GB	18
20638	868403.850	597132.525	963.17	GB	18
20639	868416.905	597133.545	965.68	GB	18
20640	868422.352	597130.367	965.73	GB	18
20641	868428.008	597127.167	964.68	GB	18
20642	868437.854	597124.330	964.30	GB	18
20643	868442.421	597123.351	963.58	GB	18
20644	868450.640	597122.875	964.91	GB	18
20645	868502.518	597124.123	963.54	GS	18
20646	868560.948	597123.963	963.74	GS	18
20647	868611.471	597115.583	963.73	GS	18
20648	868642.059	597110.262	963.69	GB	18
20649	868648.092	597108.840	962.29	GB	18
20650	868662.893	597108.429	961.87	GB	18
20651	868675.827	597107.707	961.08	GB	18
20653	868716.082	597109.258	960.33	GB	18
20654	868744.294	597105.544	961.25	GS	18

CROSS SECTION COORDINATES					
PROJECT NAME:	LOWER SALT RIVER				
DATE:	4/9/2013	RBF PROJECT 134664			
	NAD 83(1992) AZ SPCS (0202)		NAVD88		
Point Number	Northing (Grid) (IFT)	Easting (Grid) (IFT)	Elevation (IFT)	Description	Tile Number
20655	868789.029	597102.540	964.32	GB	18
20656	868837.906	597102.736	964.23	GS	18
20657	868853.708	597104.062	964.75	GB	18
20658	868892.811	597104.678	964.74	GB	18
20659	868903.058	597103.575	960.91	GB	18
20660	868914.870	597102.123	958.66	GB	18
20661	868920.846	597101.527	957.10	GB	18
20662	868926.773	597100.997	956.07	GB	18
20663	868965.767	597098.863	953.89	GS	18
20664	868982.771	597096.355	954.69	GB	18
20665	868982.869	597096.323	954.64	GS	18
20666	869005.812	597096.327	954.31	GB	18
20667	869013.641	597096.779	955.10	GB	18
20668	869021.063	597097.408	954.23	GB	18
20669	869047.747	597096.640	953.89	GB	18
20670	869049.630	597096.763	953.66	GB	18
20671	869062.446	597097.742	954.05	GS	18
20672	869073.481	597097.151	954.74	GB	18
20674	869105.189	597090.690	962.45	GS/FENCE WIRE	18
20675	869108.831	597090.904	962.46	GS/ROAD	18
20676	869125.152	597089.179	962.74	GS/ROAD	18
20677	869132.091	597088.695	964.50	FENCE/CLF	18

SECTION 3.2

CROSS SECTIONS MAP

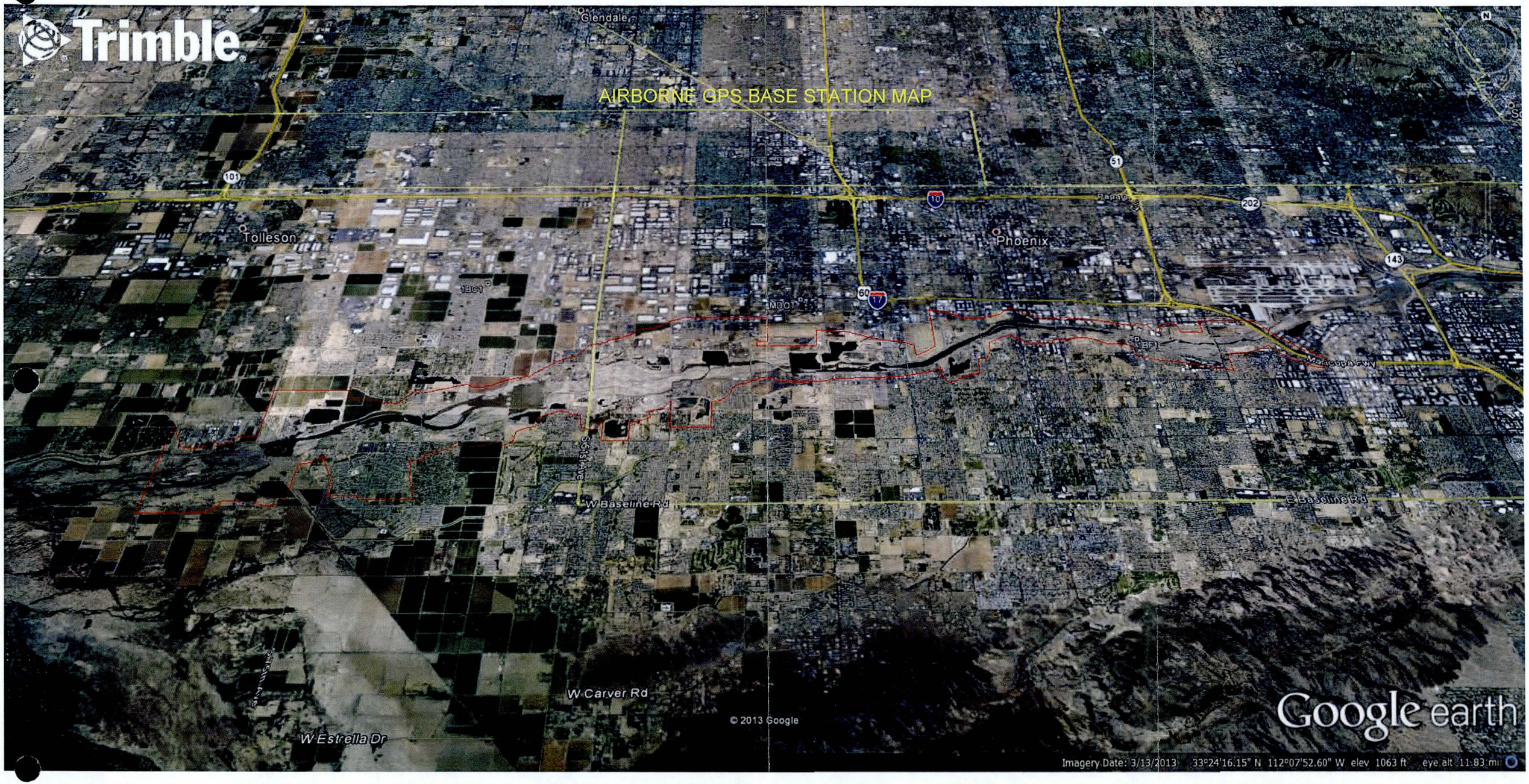

Trimble
CROSS SECTIONS MAP
Glendale
Tolleson
Phoenix
101
17
60
51
202
143
10
CS#1
CS#2
CS#3
CS#4
CS#5
CS#6
CS#7
CS#8
CS#9
CS#10
CS#11
CS#12
CS#13
CS#14
CS#15
S 51st Ave
W Baseline Rd
E Baseline Rd
W Carver Rd
W Estrella Dr
© 2013 Google
Google earth
Imagery Date: 3/13/2013 33°24'03.90" N 112°07'52.60" W elev 1014 ft eye alt 11.82 mi

SECTION 4

AIRBORNE GPS SURVEY

SECTION 4.1

MAP OF AIRBORNE GPS BASE STATIONS


Trimble
AIRBORNE GPS BASE STATION MAP
Glendale
Tolleson
Phoenix
Tempe
MDOT
MDOT
MDOT
Maricopa Fwy
S 51st Ave
W Baseline Rd
E Baseline Rd
W Carver Rd
W Estrella Dr
© 2013 Google
Google earth
Imagery Date: 3/13/2013 33°24'16.15" N 112°07'52.60" W elev 1063 ft eye alt 11.83 mi

SECTION 4.2

OCCUPATION FIELD SHEETS

PROJECT NAME: FLOOD CONTROL DISTRICT MARICOPA COUNTY - LOWER SALT RIVER

FLIGHT DATE: APRIL 13, 2013

SURVEY CREW MEMBERS: SCOTT NELSON, MATT BUCHANAN

ABGPS SUMMARY OF OCCUPATIONS

STATION NAME	REC. TYPE	ANT TYPE	MEAS. TO BOTTOM OF ANT. MOUNT	TRIPOD TYPE (IE - FIXED HEIGHT)	REC. FILE NAME	START	END
1BC1	R8 MODEL 3	R8 MODEL 3	4.921 ift (1.50 M)	FIXED HEIGHT	12371030.T02	7:57AM	12:21PM
MCDOT	5700	ZEPHYER GEODETIC	6.562 ift (2.00 M)	FIXED HEIGHT	06181030.T01	7:27AM	12:43PM
1BF1	5700	ZEPHYER GEODETIC	6.562 ift (2.00 M)	FIXED HEIGHT	78961030.T00	8:01AM	12:20PM

1BC1	N33-25-59.45056	W112-11-44.80846	1028.80
MCDOT	N33-25-41.36285	W112-07-20.58289	1048.82
1BF1	N33-25-00.03497	W112-02-51.35510	1092.37

HORIZONTAL DATUM: NAD83(1992)

VERTICAL DATUM: NAVD88

SECTION 5

METADATA FOR PRIMARY CONTROL

- NGS RECOVERY SHEETS
- SUPPORTING PICTURES

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.1
1         National Geodetic Survey,   Retrieval Date = MAY  7, 2013
 AJ3821 ***********************************************************************
 AJ3821  HT_MOD       -  This is a Height Modernization Survey Station.
 AJ3821  DESIGNATION -  1BB1
 AJ3821  PID          -  AJ3821
 AJ3821  STATE/COUNTY-  AZ/MARICOPA
 AJ3821  COUNTRY      -  US
 AJ3821  USGS QUAD    -  TOLLESON (1982)
 AJ3821
 AJ3821                          *CURRENT SURVEY CONTROL
 AJ3821
 AJ3821* NAD 83(2011) POSITION- 33 25 35.62031(N) 112 15 23.78052(W)   ADJUSTED
 AJ3821* NAD 83(2011) ELLIP HT-   273.357 (meters)        (06/27/12)   ADJUSTED
 AJ3821* NAD 83(2011) EPOCH   -  2010.00
 AJ3821* NAVD 88 ORTHO HEIGHT -   303.64   (meters)      996.2   (feet) GPS OBS
 AJ3821
 AJ3821  NAVD 88 orthometric height was determined with geoid model    GEOID09
 AJ3821  GEOID HEIGHT    -        -30.25  (meters)                     GEOID09
 AJ3821  GEOID HEIGHT    -        -30.30  (meters)                     GEOID12A
 AJ3821  NAD 83(2011) X  - -2,018,307.212 (meters)                     COMP
 AJ3821  NAD 83(2011) Y  - -4,931,777.448 (meters)                     COMP
 AJ3821  NAD 83(2011) Z  -  3,493,689.744 (meters)                     COMP
 AJ3821  LAPLACE CORR    -          2.46  (seconds)                   DEFLEC12A
 AJ3821
 AJ3821  FGDC Geospatial Positioning Accuracy Standards (95% confidence, cm)
 AJ3821  Type                                          Horiz  Ellip  Dist(km)
 AJ3821  ----------------------------------------------------------------------
 AJ3821  NETWORK                                        0.31   0.61
 AJ3821  ----------------------------------------------------------------------
 AJ3821  MEDIAN LOCAL ACCURACY AND DIST (013 points)   0.31   0.39      6.31
 AJ3821  ----------------------------------------------------------------------
 AJ3821  NOTE: Click here for information on individual local accuracy
 AJ3821  values and other accuracy information.
 AJ3821
 AJ3821
 AJ3821.The horizontal coordinates were established by GPS observations
 AJ3821.and adjusted by the National Geodetic Survey in June 2012.
 AJ3821
 AJ3821.NAD 83(2011) refers to NAD 83 coordinates where the reference
 AJ3821.frame has been affixed to the stable North American tectonic plate. See
 AJ3821.NA2011 for more information.
 AJ3821
 AJ3821.The horizontal coordinates are valid at the epoch date displayed above
 AJ3821.which is a decimal equivalence of Year/Month/Day.
 AJ3821
 AJ3821.The orthometric height was determined by GPS observations and a
 AJ3821.high-resolution geoid model using precise GPS observation and
 AJ3821.processing techniques.
 AJ3821
 AJ3821.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AJ3821
 AJ3821.The Laplace correction was computed from DEFLEC12A derived deflections.
 AJ3821
 AJ3821.The ellipsoidal height was determined by GPS observations
 AJ3821.and is referenced to NAD 83.
 AJ3821
 AJ3821. The following values were computed from the NAD 83(2011) position.
 AJ3821
 AJ3821;                     North         East     Units Scale Factor Converg.
 AJ3821;SPC AZ C      -   269,107.630   181,748.441   MT  0.99991232   -0 11 14.1
 AJ3821;SPC AZ C      -   882,899.05    596,287.54   iFT  0.99991232   -0 11 14.1
 AJ3821;UTM  12       - 3,699,282.949   383,177.533   MT  0.99976826   -0 41 32.3
 AJ3821
 AJ3821!              -  Elev Factor  x  Scale Factor =   Combined Factor
 AJ3821!SPC AZ C      -   0.99995709  x   0.99991232  =   0.99986941
 AJ3821!UTM  12       -   0.99995709  x   0.99976826  =   0.99972536
 AJ3821
 AJ3821                          SUPERSEDED SURVEY CONTROL
 AJ3821
```

```
AJ3821  NAD 83(2007)-  33 25 35.61975(N)    112 15 23.78069(W) AD(2007.00) 0
AJ3821  ELLIP H (02/10/07)  273.372  (m)                       GP(2007.00)
AJ3821  NAD 83(1992)-  33 25 35.61904(N)    112 15 23.78006(W) AD(       ) B
AJ3821  ELLIP H (04/12/01)  273.399  (m)                       GP(       ) 3 2
AJ3821  NAVD 88 (04/12/01)  303.64   (m)  GEOID99 model used   GPS OBS
AJ3821
AJ3821.Superseded values are not recommended for survey control.
AJ3821
AJ3821.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ3821.See file dsdata.txt to determine how the superseded data were derived.
AJ3821
AJ3821_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SUB8317799282(NAD 83)
AJ3821
AJ3821_MARKER: I = METAL ROD
AJ3821_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
AJ3821_STAMPING: 1BB1 9/1999
AJ3821_MARK LOGO: MCDOT
AJ3821_PROJECTION: FLUSH
AJ3821_MAGNETIC: B = BAR MAGNET IMBEDDED IN MONUMENT
AJ3821_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
AJ3821+STABILITY: POSITION/ELEVATION WELL
AJ3821_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ3821+SATELLITE: SATELLITE OBSERVATIONS - July 10, 2007
AJ3821_ROD/PIPE-DEPTH:  5.5 meters
AJ3821_SLEEVE-DEPTH  :  0.8 meters
AJ3821
AJ3821  HISTORY     - Date     Condition        Report By
AJ3821  HISTORY     - 1999     MONUMENTED       MCDOT
AJ3821  HISTORY     - 20061101 GOOD             EVANS
AJ3821  HISTORY     - 20070710 GOOD             GEOCAC
AJ3821
AJ3821                          STATION DESCRIPTION
AJ3821
AJ3821'DESCRIBED BY MARICOPA CO DOT 1999 (JJR)
AJ3821'THE STATION IS LOCATED ABOUT 1.5 MI (2.4 KM) SOUTH OF THE TOWN OF
AJ3821'TOLLESON IN TOWNSHIP 1 NORTH, RANGE 1 EAST, SECTION 16
AJ3821'OWNERSHIP - SRP
AJ3821'TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 10 AND 91ST
AJ3821'AVENUE AT EXIT 135, DRIVE SOUTH ON 91ST AVENUE 2.4 MI (3.9 KM) TO AN
AJ3821'SRP SUBSTATION ON THE RIGHT (WEST) , THENCE TURN RIGHT (WEST) INTO THE
AJ3821'SRP SUBSTATION PROPERTY AND DRIVE WEST ALONG THE NORTH SIDE OF THE
AJ3821'CHAIN LINK FENCE ENCLOSURE OF THE SUBSTATION 320 FT (97.5 M) TO THE
AJ3821'STATION AT THE NORTHWEST CORNER OF THE SRP CHAIN LINK FENCE ENCLOSURE
AJ3821'MONUMENT DESCRIPTION - THE STATION IS MARKED BY AN ALUMINUM CAP
AJ3821'COMPRESSED ON A 18.0 FT (5.5 M) STAINLESS STEEL ROD DRIVEN TO REFUSAL,
AJ3821'ENCASED IN A 1 INCH GREASE FILLED PVC PIPE ENCLOSED IN A 5 INCH PVC
AJ3821'PIPE WITH A COUNTY LOGO ACCESS COVER STAMPED 1BB1 9/1999, SURROUNDED
AJ3821'BY A CONCRETE COLLAR, FLUSH WITH THE GROUND, WITNESSED BY A WHITE
AJ3821'CARSONITE MARKER
AJ3821'STATION TIES -
AJ3821'21 FT (6.4 M) NORTHWEST OF THE NORTHWEST CORNER OF THE CHAIN LINK
AJ3821'FENCE CORNER OF THE SRP SUBSTATION
AJ3821'5 FT (1.5 M) SOUTH OF CONCRETE OF IRRIGATION CANAL
AJ3821'5 FT (1.5 M) EAST OF A 8 FT (2.4 M) WIDE DIRT CANAL
AJ3821'FOR A TO REACH MAP, STATION IMAGES AND ADDITIONAL INFORMATION YOU CAN
AJ3821'VISIT-WWW.MCDOT.MARICOPA.GOV       SEARCH KEYWORD  GDACS
AJ3821
AJ3821                          STATION RECOVERY (2006)
AJ3821
AJ3821'RECOVERY NOTE BY DAVID EVANS + ASSOC 2006 (MGM)
AJ3821'RECOVERED AS DESCRIBED.
AJ3821
AJ3821                          STATION RECOVERY (2007)
AJ3821
AJ3821'RECOVERY NOTE BY GEOCACHING 2007 (ACM)
AJ3821'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:05
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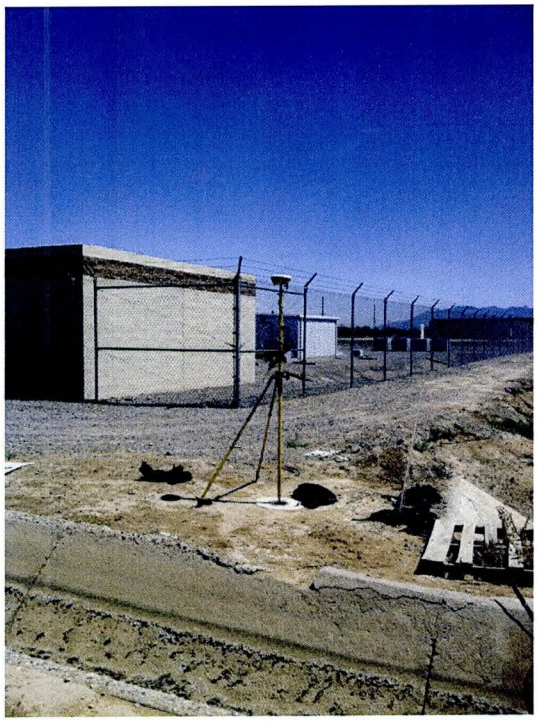
GDACS PRIMARY CONTROL 1BB1



The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.1
1         National Geodetic Survey,   Retrieval Date = MAY  7, 2013
 AJ3666 ***********************************************************************
 AJ3666  HT_MOD       -  This is a Height Modernization Survey Station.
 AJ3666  DESIGNATION  -  1BC1
 AJ3666  PID          -  AJ3666
 AJ3666  STATE/COUNTY-  AZ/MARICOPA
 AJ3666  COUNTRY      -  US
 AJ3666  USGS QUAD    -  FOWLER (1982)
 AJ3666
 AJ3666                          *CURRENT SURVEY CONTROL
 AJ3666
 AJ3666* NAD 83(2011) POSITION- 33 25 59.45178(N) 112 11 44.80888(W)   ADJUSTED
 AJ3666* NAD 83(2011) ELLIP HT-   283.419 (meters)        (06/27/12)   ADJUSTED
 AJ3666* NAD 83(2011) EPOCH   -  2010.00
 AJ3666* NAVD 88 ORTHO HEIGHT -   313.59   (meters)    1028.8   (feet) GPS OBS
 AJ3666
 AJ3666  NAVD 88 orthometric height was determined with geoid model    GEOID09
 AJ3666  GEOID HEIGHT    -        -30.14  (meters)                     GEOID09
 AJ3666  GEOID HEIGHT    -        -30.18  (meters)                     GEOID12A
 AJ3666  NAD 83(2011) X  - -2,012,920.837 (meters)                     COMP
 AJ3666  NAD 83(2011) Y  - -4,933,550.550 (meters)                     COMP
 AJ3666  NAD 83(2011) Z  -  3,494,308.067 (meters)                     COMP
 AJ3666  LAPLACE CORR    -          3.54  (seconds)                    DEFLEC12A
 AJ3666
 AJ3666  FGDC Geospatial Positioning Accuracy Standards (95% confidence, cm)
 AJ3666  Type                                          Horiz  Ellip  Dist(km)
 AJ3666  ----------------------------------------------------------------------
 AJ3666  NETWORK                                        0.84   1.00
 AJ3666  ----------------------------------------------------------------------
 AJ3666  MEDIAN LOCAL ACCURACY AND DIST (003 points)   0.81   0.90      6.23
 AJ3666  ----------------------------------------------------------------------
 AJ3666  NOTE: Click here for information on individual local accuracy
 AJ3666  values and other accuracy information.
 AJ3666
 AJ3666
 AJ3666.The horizontal coordinates were established by GPS observations
 AJ3666.and adjusted by the National Geodetic Survey in June 2012.
 AJ3666
 AJ3666.NAD 83(2011) refers to NAD 83 coordinates where the reference
 AJ3666.frame has been affixed to the stable North American tectonic plate. See
 AJ3666.NA2011 for more information.
 AJ3666
 AJ3666.The horizontal coordinates are valid at the epoch date displayed above
 AJ3666.which is a decimal equivalence of Year/Month/Day.
 AJ3666
 AJ3666.The orthometric height was determined by GPS observations and a
 AJ3666.high-resolution geoid model using precise GPS observation and
 AJ3666.processing techniques.
 AJ3666
 AJ3666.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AJ3666
 AJ3666.The Laplace correction was computed from DEFLEC12A derived deflections.
 AJ3666
 AJ3666.The ellipsoidal height was determined by GPS observations
 AJ3666.and is referenced to NAD 83.
 AJ3666
 AJ3666. The following values were computed from the NAD 83(2011) position.
 AJ3666
 AJ3666;                     North         East      Units Scale Factor Converg.
 AJ3666;SPC AZ C      -   269,824.950   187,406.702   MT  0.99990830   -0 09 13.6
 AJ3666;SPC AZ C      -   885,252.46    614,851.38   iFT  0.99990830   -0 09 13.6
 AJ3666;UTM  12       - 3,699,950.261   388,841.048   MT  0.99975234   -0 39 32.0
 AJ3666
 AJ3666!              -  Elev Factor  x  Scale Factor =   Combined Factor
 AJ3666!SPC AZ C      -   0.99995551  x   0.99990830  =   0.99986381
 AJ3666!UTM  12       -   0.99995551  x   0.99975234  =   0.99970786
 AJ3666
 AJ3666                          SUPERSEDED SURVEY CONTROL
 AJ3666
```

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AJ3666  NAD 83(2007)-  33 25 59.45127(N)    112 11 44.80913(W) AD(2007.00) 0
AJ3666  ELLIP H (02/10/07)  283.433  (m)                       GP(2007.00)
AJ3666  NAD 83(1992)-  33 25 59.45056(N)    112 11 44.80846(W) AD(       ) B
AJ3666  ELLIP H (04/12/01)  283.461  (m)                       GP(       ) 3 2
AJ3666  NAVD 88 (04/12/01)  313.60   (m)  GEOID99 model used   GPS OBS
AJ3666
AJ3666.Superseded values are not recommended for survey control.
AJ3666
AJ3666.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ3666.See file dsdata.txt to determine how the superseded data were derived.
AJ3666
AJ3666_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SUB8884199950(NAD 83)
AJ3666
AJ3666_MARKER: I = METAL ROD
AJ3666_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
AJ3666_STAMPING: 1BC1 1999
AJ3666_MARK LOGO: MCDOT
AJ3666_PROJECTION: FLUSH
AJ3666_MAGNETIC: B = BAR MAGNET IMBEDDED IN MONUMENT
AJ3666_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
AJ3666+STABILITY: POSITION/ELEVATION WELL
AJ3666_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ3666+SATELLITE: SATELLITE OBSERVATIONS - January 23, 2008
AJ3666_ROD/PIPE-DEPTH:  4.6 meters
AJ3666_SLEEVE-DEPTH  :  0.8 meters
AJ3666
AJ3666  HISTORY     - Date     Condition        Report By
AJ3666  HISTORY     - 1999     MONUMENTED       MCDOT
AJ3666  HISTORY     - 20080123 GOOD             GEOCAC
AJ3666
AJ3666                          STATION DESCRIPTION
AJ3666
AJ3666'DESCRIBED BY MARICOPA CO DOT 1999 (RB)
AJ3666'THE STATION IS LOCATED WITHIN THE CITY OF PHOENIX, TOWNSHIP 01 NORTH,
AJ3666'RANGE 02 EAST, SECTION 18
AJ3666'OWNERSHIP - PRIVATE
AJ3666'TO REACH THE STATION FROM THE JUNCTION OF I-10 AND 67TH AVENUE (EXIT
AJ3666'137) , DRIVE SOUTH 2.0 MI (3.2 KM) ON 67TH AVENUE TO PIMA STREET,
AJ3666'THENCE TURN LEFT (EAST)ON TO PIMA STREET AND DRIVE EAST  FOR 0.4 MI TO
AJ3666'63RD DRIVE, THENCE TURN RIGHT (SOUTH) AND DRIVE 250 FT (76.2 M) TO
AJ3666'SONORA STREET, THENCE TURN LEFT (EAST)AND DRIVE EAST ON SONORA STREET
AJ3666'ABOUT 100 FT (30.5 M) TO 63RD AVENUE, THENCE TURN RIGHT (SOUTH) AND
AJ3666'DRIVE SOUTH ALONG 63RD ABOUT 350 FT (106.7 M) AND PARK AT THE END OF
AJ3666'THE DEVELOPED STREET, WALK ABOUT 40 FT (12.2 M) SOUTHWEST FROM THE END
AJ3666'OF THE IMPROVED STREET, THE STATION IS SET IN TOP OF SHOULDER NEAR THE
AJ3666'NORTHEAST CORNER OF A RETENTION BASIN, THE STATION IS AS DESCRIBED
AJ3666'MONUMENT DESCRIPTION - THE STATION IS MARKED BY AN ALUMINUM CAP
AJ3666'COMPRESSED ON A 15.0 FOOT (4.6 M) STAINLESS STEEL ROD DRIVEN TO
AJ3666'REFUSAL ENCASED IN A 1INCH GREASED PVC SLEEVE ENCLOSED IN A 5 INCH PVC
AJ3666'PIPE WITH A COUNTY LOGO ACCESS COVER STAMPED 1BC1 1999, SURROUNDED
AJ3666'WITH A CONCRETE COLLAR FLUSH WITH THE GROUND, WITNESSED BY A WHITE
AJ3666'CARSONITE MARKER
AJ3666'STATION TIES
AJ3666'39.0 FEET (11.9 M) SOUTHEAST OF THE SOUTHEAST CORNER OF THE
AJ3666'INTERSECTION OF A WOOD FENCE WITH A BLOCK WALL, THE FENCES ARE FOR THE
AJ3666'HOMES FACING WEST TO 63RD DR
AJ3666'39.0 FEET (11.9 M) SOUTHWEST OF THE WEST END OF A TRAFFIC BARRIER
AJ3666'LOCATED AT THE SOUTH END OF THE IMPROVED 63RD AVENUE
AJ3666'4.9 FEET (1.5 M) NORTH OF THE WHITE CARSONITE MARKER
AJ3666'FOR A TO REACH MAP, STATION IMAGES AND ADDITIONAL INFORMATION, YOU CAN
AJ3666'VISIT WWW.MCDOT.MARICOPA.GOV       SEARCH KEYWORD  GDACS
AJ3666
AJ3666                          STATION RECOVERY (2008)
AJ3666
AJ3666'RECOVERY NOTE BY GEOCACHING 2008 (ACM)
AJ3666'RECOVERED AS DESCRIBED, IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:04
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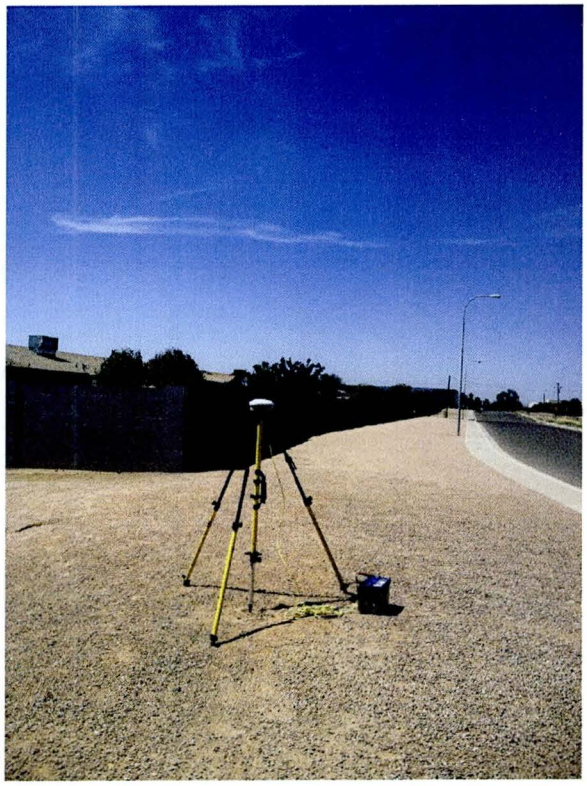
GDACS PRIMARY CONTROL 1BC1



The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.1
1         National Geodetic Survey,   Retrieval Date = MAY  7, 2013
 AJ3668 ***********************************************************************
 AJ3668  HT_MOD       -  This is a Height Modernization Survey Station.
 AJ3668  DESIGNATION -  1BF1
 AJ3668  PID          -  AJ3668
 AJ3668  STATE/COUNTY-  AZ/MARICOPA
 AJ3668  COUNTRY      -  US
 AJ3668  USGS QUAD    -  PHOENIX (1982)
 AJ3668
 AJ3668                          *CURRENT SURVEY CONTROL
 AJ3668
 AJ3668* NAD 83(2011) POSITION- 33 25 00.03605(N) 112 02 51.35560(W)   ADJUSTED
 AJ3668* NAD 83(2011) ELLIP HT-   303.110 (meters)        (06/27/12)   ADJUSTED
 AJ3668* NAD 83(2011) EPOCH   -  2010.00
 AJ3668* NAVD 88 ORTHO HEIGHT -   332.96   (meters)    1092.4   (feet) GPS OBS
 AJ3668
 AJ3668  NAVD 88 orthometric height was determined with geoid model    GEOID09
 AJ3668  GEOID HEIGHT    -        -29.83  (meters)                     GEOID09
 AJ3668  GEOID HEIGHT    -        -29.86  (meters)                     GEOID12A
 AJ3668  NAD 83(2011) X  - -2,000,539.396 (meters)                     COMP
 AJ3668  NAD 83(2011) Y  - -4,939,689.847 (meters)                     COMP
 AJ3668  NAD 83(2011) Z  -  3,492,791.064 (meters)                     COMP
 AJ3668  LAPLACE CORR    -          1.91  (seconds)                   DEFLEC12A
 AJ3668
 AJ3668  FGDC Geospatial Positioning Accuracy Standards (95% confidence, cm)
 AJ3668  Type                                          Horiz  Ellip  Dist(km)
 AJ3668  ----------------------------------------------------------------------
 AJ3668  NETWORK                                        0.84   1.10
 AJ3668  ----------------------------------------------------------------------
 AJ3668  MEDIAN LOCAL ACCURACY AND DIST (004 points)   0.89   1.12      7.02
 AJ3668  ----------------------------------------------------------------------
 AJ3668  NOTE: Click here for information on individual local accuracy
 AJ3668  values and other accuracy information.
 AJ3668
 AJ3668
 AJ3668.The horizontal coordinates were established by GPS observations
 AJ3668.and adjusted by the National Geodetic Survey in June 2012.
 AJ3668
 AJ3668.NAD 83(2011) refers to NAD 83 coordinates where the reference
 AJ3668.frame has been affixed to the stable North American tectonic plate. See
 AJ3668.NA2011 for more information.
 AJ3668
 AJ3668.The horizontal coordinates are valid at the epoch date displayed above
 AJ3668.which is a decimal equivalence of Year/Month/Day.
 AJ3668
 AJ3668.The orthometric height was determined by GPS observations and a
 AJ3668.high-resolution geoid model using precise GPS observation and
 AJ3668.processing techniques.
 AJ3668
 AJ3668.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AJ3668
 AJ3668.The Laplace correction was computed from DEFLEC12A derived deflections.
 AJ3668
 AJ3668.The ellipsoidal height was determined by GPS observations
 AJ3668.and is referenced to NAD 83.
 AJ3668
 AJ3668. The following values were computed from the NAD 83(2011) position.
 AJ3668
 AJ3668;                     North         East      Units Scale Factor Converg.
 AJ3668;SPC AZ C      -   267,967.432   201,183.025   MT  0.99990183   -0 04 19.6
 AJ3668;SPC AZ C      -   879,158.24    660,049.29    iFT 0.99990183   -0 04 19.6
 AJ3668;UTM  12       - 3,697,971.733   402,598.119   MT  0.99971696   -0 34 37.1
 AJ3668
 AJ3668!              -  Elev Factor  x  Scale Factor =   Combined Factor
 AJ3668!SPC AZ C      -   0.99995242  x   0.99990183  =   0.99985425
 AJ3668!UTM  12       -   0.99995242  x   0.99971696  =   0.99966939
 AJ3668
 AJ3668                          SUPERSEDED SURVEY CONTROL
 AJ3668
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AJ3668  NAD 83(2007)-  33 25 00.03564(N)    112 02 51.35595(W) AD(2007.00) 0
AJ3668  ELLIP H (02/10/07)  303.115  (m)                       GP(2007.00)
AJ3668  NAD 83(1992)-  33 25 00.03497(N)    112 02 51.35510(W) AD(       ) B
AJ3668  ELLIP H (04/12/01)  303.153  (m)                       GP(       ) 3 2
AJ3668  NAVD 88 (04/12/01)  332.95   (m)  GEOID99 model used   GPS OBS
AJ3668
AJ3668.Superseded values are not recommended for survey control.
AJ3668
AJ3668.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ3668.See file dsdata.txt to determine how the superseded data were derived.
AJ3668
AJ3668_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SVB0259897971(NAD 83)
AJ3668
AJ3668_MARKER: I = METAL ROD
AJ3668_SETTING: 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL
AJ3668+WITH SETTING: INFORMATION.
AJ3668_STAMPING: 1BF1 1999
AJ3668_MARK LOGO: MCDOT
AJ3668_PROJECTION: FLUSH
AJ3668_MAGNETIC: B = BAR MAGNET IMBEDDED IN MONUMENT
AJ3668_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
AJ3668+STABILITY: POSITION/ELEVATION WELL
AJ3668_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ3668+SATELLITE: SATELLITE OBSERVATIONS - July 10, 2007
AJ3668_ROD/PIPE-DEPTH:  1.1 meters
AJ3668_SLEEVE-DEPTH  :  0.8 meters
AJ3668
AJ3668  HISTORY     - Date     Condition        Report By
AJ3668  HISTORY     - 1999     MONUMENTED       MCDOT
AJ3668  HISTORY     - 20051005 GOOD             EVANS
AJ3668  HISTORY     - 20070710 GOOD             GEOCAC
AJ3668
AJ3668                          STATION DESCRIPTION
AJ3668
AJ3668'DESCRIBED BY MARICOPA CO DOT 1999 (GH)
AJ3668'THE STATION IS LOCATED WITHIN THE CITY OF PHOENIX, TOWNSHIP 01 NORTH,
AJ3668'RANGE 03 EAST, SECTION 21
AJ3668'OWNERSHIP - CITY OF PHOENIX RIGHT OF WAY
AJ3668'TO REACH THE STATION FROM THE JUNCTION OF I-17 AND (EXIT 195A) , DRIVE
AJ3668'SOUTH ON 16TH STREET FOR 0.8 MI (1.3 KM) TO VICTORY STREET, THENCE
AJ3668'TURN RIGHT (WEST) ON VICTORY STREET FOR ONLY 50 FT TO A DRIVEWAY ON
AJ3668'THE RIGHT (NORTH) SIDE OF VICTORY STREET, THENCE TURN RIGHT (NORTH)
AJ3668'AND ENTER THE PARKING LOT AND PARK, HIKE NORTHEAST TO THE STATION SET
AJ3668'IN THE TOP EDGE OF THE EMBANKMENT OF THE SOUTH BANK OF THE SALT RIVER,
AJ3668'THE STATION IS AS DESCRIBED
AJ3668'MONUMENT DESCRIPTION - THE STATION IS MARKED BY AN ALUMINUM CAP
AJ3668'COMPRESSED ON A 3.5 FOOT (1.1 M) STAINLESS STEEL ROD DRIVEN TO REFUSAL
AJ3668'ENCASED IN A 1INCH GREASED PVC SLEEVE ENCLOSED IN A 5 INCH PVC PIPE
AJ3668'WITH A COUNTY LOGO ACCESS COVER STAMPED 1BF1 1999, SURROUNDED WITH A
AJ3668'CONCRETE COLLAR FLUSH WITH THE GROUND, WITNESSED BY A WHITE CARSONITE
AJ3668'MARKER
AJ3668'STATION TIES
AJ3668'64 FEET (19.5 M) PERPENDICULAR FROM THE NORTHEAST EDGE OF THE DIAGONAL
AJ3668'PORTION OF THE PARKING LOT
AJ3668'52 FEET (15.8 M) WEST OF AND PARALLEL WITH THE WEST EDGE OF THE
AJ3668'SIDEWALK ON THE WEST SIDE OF 16TH STREET
AJ3668'52 FEET (15.8 M) WEST OF THE WEST EDGE OF THE SIDEWALK ON THE WEST
AJ3668'SIDE OF 16TH STREET
AJ3668'FOR A TO REACH MAP, STATION IMAGES AND ADDITIONAL INFORMATION, YOU CAN
AJ3668'VISIT WWW.MCDOT.MARICOPA.GOV       SEARCH KEYWORD  GDACS
AJ3668
AJ3668                          STATION RECOVERY (2005)
AJ3668
AJ3668'RECOVERY NOTE BY DAVID EVANS + ASSOC 2005 (JST)
AJ3668'RECOVERED IN GOOD CONDITION.
AJ3668
AJ3668                          STATION RECOVERY (2007)
AJ3668
AJ3668'RECOVERY NOTE BY GEOCACHING 2007 (ACM)
AJ3668'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:02
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GDACS PRIMARY CONTROL 1BF1

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.1
1         National Geodetic Survey,   Retrieval Date = MAY  7, 2013
 AJ3667 ***********************************************************************
 AJ3667  HT MOD       -  This is a Height Modernization Survey Station.
 AJ3667  DESIGNATION -  MCDOT
 AJ3667  PID          -  AJ3667
 AJ3667  STATE/COUNTY-  AZ/MARICOPA
 AJ3667  COUNTRY      -  US
 AJ3667  USGS QUAD    -  PHOENIX (1982)
 AJ3667
 AJ3667                          *CURRENT SURVEY CONTROL
 AJ3667
 AJ3667* NAD 83(2011) POSITION- 33 25 41.36410(N) 112 07 20.58328(W)   ADJUSTED
 AJ3667* NAD 83(2011) ELLIP HT-   289.698 (meters)        (06/27/12)   ADJUSTED
 AJ3667* NAD 83(2011) EPOCH   -  2010.00
 AJ3667* NAVD 88 ORTHO HEIGHT -   319.69   (meters)    1048.8   (feet) GPS OBS
 AJ3667
 AJ3667  NAVD 88 orthometric height was determined with geoid model    GEOID09
 AJ3667  GEOID HEIGHT    -        -29.97  (meters)                     GEOID09
 AJ3667  GEOID HEIGHT    -        -30.00  (meters)                     GEOID12A
 AJ3667  NAD 83(2011) X  - -2,006,716.895 (meters)                     COMP
 AJ3667  NAD 83(2011) Y  - -4,936,414.333 (meters)                     COMP
 AJ3667  NAD 83(2011) Z  -  3,493,846.440 (meters)                     COMP
 AJ3667  LAPLACE CORR    -          3.10  (seconds)                    DEFLEC12A
 AJ3667
 AJ3667  FGDC Geospatial Positioning Accuracy Standards (95% confidence, cm)
 AJ3667  Type                                          Horiz  Ellip  Dist(km)
 AJ3667  ----------------------------------------------------------------------
 AJ3667  NETWORK                                        0.97   1.12
 AJ3667  ----------------------------------------------------------------------
 AJ3667  MEDIAN LOCAL ACCURACY AND DIST (004 points)   1.10   1.21      6.78
 AJ3667  ----------------------------------------------------------------------
 AJ3667  NOTE: Click here for information on individual local accuracy
 AJ3667  values and other accuracy information.
 AJ3667
 AJ3667
 AJ3667.The horizontal coordinates were established by GPS observations
 AJ3667.and adjusted by the National Geodetic Survey in June 2012.
 AJ3667
 AJ3667.NAD 83(2011) refers to NAD 83 coordinates where the reference
 AJ3667.frame has been affixed to the stable North American tectonic plate. See
 AJ3667.NA2011 for more information.
 AJ3667
 AJ3667.The horizontal coordinates are valid at the epoch date displayed above
 AJ3667.which is a decimal equivalence of Year/Month/Day.
 AJ3667
 AJ3667.The orthometric height was determined by GPS observations and a
 AJ3667.high-resolution geoid model using precise GPS observation and
 AJ3667.processing techniques.
 AJ3667
 AJ3667.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AJ3667
 AJ3667.The Laplace correction was computed from DEFLEC12A derived deflections.
 AJ3667
 AJ3667.The ellipsoidal height was determined by GPS observations
 AJ3667.and is referenced to NAD 83.
 AJ3667
 AJ3667. The following values were computed from the NAD 83(2011) position.
 AJ3667
 AJ3667;                     North         East      Units Scale Factor Converg.
 AJ3667;SPC AZ C      -   269,251.833   194,230.320   MT  0.99990451   -0 06 48.0
 AJ3667;SPC AZ C      -   883,372.16    637,238.58   iFT  0.99990451   -0 06 48.0
 AJ3667;UTM  12       - 3,699,317.119   395,658.236   MT  0.99973422   -0 37 06.1
 AJ3667
 AJ3667!              -  Elev Factor  x  Scale Factor =   Combined Factor
 AJ3667!SPC AZ C      -   0.99995452  x   0.99990451  =   0.99985904
 AJ3667!UTM  12       -   0.99995452  x   0.99973422  =   0.99968875
 AJ3667
 AJ3667                          SUPERSEDED SURVEY CONTROL
 AJ3667
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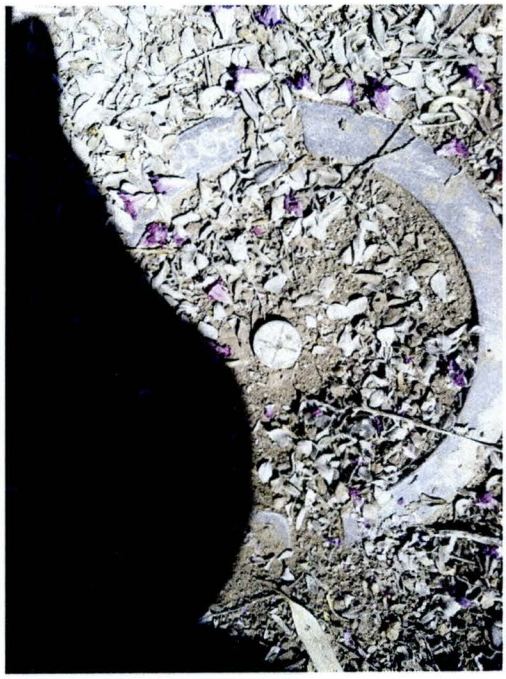
```
AJ3667  NAD 83(2007)-  33 25 41.36358(N)    112 07 20.58362(W) AD(2007.00) 0
AJ3667  ELLIP H (02/10/07)  289.714  (m)                       GP(2007.00)
AJ3667  NAD 83(1992)-  33 25 41.36285(N)    112 07 20.58289(W) AD(       ) B
AJ3667  ELLIP H (04/12/01)  289.745  (m)                       GP(       ) 3 2
AJ3667  NAVD 88 (04/12/01)  319.70   (m)  GEOID99 model used   GPS OBS
AJ3667
AJ3667.Superseded values are not recommended for survey control.
AJ3667
AJ3667.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ3667.See file dsdata.txt to determine how the superseded data were derived.
AJ3667
AJ3667_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SUB9565899317(NAD 83)
AJ3667
AJ3667_MARKER: I = METAL ROD
AJ3667_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
AJ3667_STAMPING: MCDOT 1999
AJ3667_MARK LOGO: MCDOT
AJ3667_PROJECTION: FLUSH
AJ3667_MAGNETIC: B = BAR MAGNET IMBEDDED IN MONUMENT
AJ3667_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
AJ3667+STABILITY: POSITION/ELEVATION WELL
AJ3667_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ3667+SATELLITE: SATELLITE OBSERVATIONS - January 18, 2005
AJ3667_ROD/PIPE-DEPTH:  6.7 meters
AJ3667_SLEEVE-DEPTH  :  0.8 meters
AJ3667
AJ3667  HISTORY     - Date     Condition        Report By
AJ3667  HISTORY     - 2000     MONUMENTED       MCDOT
AJ3667  HISTORY     - 20050118 GOOD             INDIV
AJ3667
AJ3667                          STATION DESCRIPTION
AJ3667
AJ3667'DESCRIBED BY MARICOPA CO DOT 2000 (DB)
AJ3667'THE STATION IS LOCATED WITHIN THE CITY OF PHOENIX, TOWNSHIP 01 NORTH,
AJ3667'RANGE 02 EAST, SECTION 4
AJ3667'OWNERSHIP - MARICOPA COUNTY
AJ3667'TO REACH THE STATION FROM THE JUNCTION OF I-17, US 60 AND 19TH AVE
AJ3667'(EXIT 197) , DRIVE SOUTH ABOUT 200 FT (61.0 M) TO HILTON AVE AND TURN
AJ3667'RIGHT (WEST) , THENCE DRIVE WEST 0.4 MI TO 22TH AVE, THENCE TURN RIGHT
AJ3667'(NORTH) AND DRIVE ABOUT 200 FT (61.0 M) TO DURANGO STREET, THENCE TURN
AJ3667'LEFT (WEST) AND DRIVE WEST ALONG DURANGO STREET 0.6 MI (1.0 KM) TO
AJ3667'27TH AVE, CONTINUE DRIVING WEST ALONG DURANGO STREET 0.15 MI (0.24 KM)
AJ3667'TO R C ESTERBROOKS BLVD, THENCE TURN LEFT (SOUTH) AND DRIVE SOUTH
AJ3667'ALONG R C ESTERBROOKS BLVD ABOUT 300 FT (91.4 M) TO THE FIRST DRIVE
AJ3667'ENTRANCE TO THE WEST AND MARKED WITH A MARICOPA DEPARTMENT OF
AJ3667'TRANSPORTATION SIGN, TURN RIGHT (WEST) DRIVE ABOUT 25 FT (7.6 M)
AJ3667'PASSED THE FIRST LANDSCAPED PARKWAY AND TURN LEFT (SOUTH) , THENCE
AJ3667'DRIVE SOUTH ABOUT 130 FT (39.6 M) TO THE SOUTH DRIVE ISLE AND TURN
AJ3667'RIGHT (WEST) AND DRIVE ABOUT 400 FT (121.9 M) TO A ROLLING GATE, THE
AJ3667'GATE IS USUALLY OPEN DURING BUSINESS HOURS, IF NOT, ONE CAN ACCESS THE
AJ3667'STATION THROUGH THE PEDESTRIAN GATE ABOUT 240 FT (73.2 M) NORTH, THE
AJ3667'STATION IS ABOUT 100 FT (30.5 M) WEST OF THE ROLLING GATE, THE STATION
AJ3667'IS SET WITHIN A LANDSCAPED ISLAND, THE STATION IS AS DESCRIBED
AJ3667'MONUMENT DESCRIPTION - THE STATION IS MARKED BY AN ALUMINUM CAP
AJ3667'COMPRESSED ON A 22.0 FOOT (6.7 M) STAINLESS STEEL ROD DRIVEN TO
AJ3667'REFUSAL ENCASED IN A 1INCH GREASED PVC SLEEVE ENCLOSED IN A 5 INCH PVC
AJ3667'PIPE WITH A COUNTY LOGO ACCESS COVER STAMPED MCDOT 1999, SURROUNDED
AJ3667'WITH A CONCRETE COLLAR FLUSH WITH THE GROUND, NO WHITE CARSONITE
AJ3667'MARKER
AJ3667'STATION TIES
AJ3667'230.0 FEET (70.1 M) SOUTHWEST OF THE SIDEWALK AT THE PEDESTRIAN
AJ3667'LOCATED ABOUT 240 FT (73.2 M) NORTH OF THE ROLLING GATE FENCE, THE
AJ3667'FENCES ARE 100.0 FEET (30.5 M) WEST NORTHWEST OF THE CENTER OF ROLLING
AJ3667'GATE
AJ3667'THE STATION IS LOCATED IN THE SOUTHERN MOST LANDSCAPED PARKING LOT
AJ3667'ISLAND LOCATED AT THE SOUTH END OF THE MARICOPA COUNTY DOTS SECURED
AJ3667'PARKING LOT
AJ3667'FOR A TO REACH MAP, STATION IMAGES AND ADDITIONAL INFORMATION, YOU CAN
AJ3667'VISIT WWW.MCDOT.MARICOPA.GOV       SEARCH KEYWORD  GDACS
AJ3667
AJ3667                          STATION RECOVERY (2005)
AJ3667
AJ3667'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2005 (JB)
AJ3667'RECOVERED AS DESCRIBED

*** retrieval complete.
Elapsed Time = 00:00:02
```

GDACS PRIMARY CONTROL MCDOT



The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.1
1         National Geodetic Survey,   Retrieval Date = MAY  7, 2013
 DV2291 ***********************************************************************
 DV2291  DESIGNATION -  B 519
 DV2291  PID         -  DV2291
 DV2291  STATE/COUNTY-  AZ/MARICOPA
 DV2291  COUNTRY     -  US
 DV2291  USGS QUAD   -  PHOENIX (1982)
 DV2291
 DV2291                          *CURRENT SURVEY CONTROL
 DV2291
 DV2291* NAD 83(1986) POSITION- 33 24 25.41    (N) 112 01 27.09    (W)    HD HELD1
 DV2291* NAVD 88 ORTHO HEIGHT -    338.613  (meters)     1110.93  (feet) ADJUSTED
 DV2291
 DV2291  GEOID HEIGHT    -         -29.82  (meters)                       GEOID12A
 DV2291  DYNAMIC HEIGHT  -        338.224  (meters)      1109.66  (feet) COMP
 DV2291  MODELED GRAVITY -    979,479.6    (mgal)                        NAVD 88
 DV2291
 DV2291  VERT ORDER      -  FIRST     CLASS II
 DV2291
 DV2291.The horizontal coordinates were determined by differentially corrected
 DV2291.hand held GPS observations or other comparable positioning techniques
 DV2291.and have an estimated accuracy of +/- 3 meters.
 DV2291.
 DV2291.The orthometric height was determined by differential leveling and
 DV2291.adjusted by the NATIONAL GEODETIC SURVEY
 DV2291.in November 1993.
 DV2291
 DV2291.Photographs are available for this station.
 DV2291
 DV2291.The dynamic height is computed by dividing the NAVD 88
 DV2291.geopotential number by the normal gravity value computed on the
 DV2291.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DV2291.degrees latitude (g = 980.6199 gals.).
 DV2291
 DV2291.The modeled gravity was interpolated from observed gravity values.
 DV2291
 DV2291;                     North         East     Units  Estimated Accuracy
 DV2291;SPC AZ C     -    266,898.3     203,358.8     MT  (+/- 3 meters HH1 GPS)
 DV2291
 DV2291                          SUPERSEDED SURVEY CONTROL
 DV2291
 DV2291.No superseded survey control is available for this station.
 DV2291
 DV2291_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SVB0476496883(NAD 83)
 DV2291
 DV2291_MARKER: I = METAL ROD
 DV2291_SETTING: 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL
 DV2291+WITH SETTING: INFORMATION.
 DV2291_SP SET: METAL ROD DRIVEN INTO GROUND
 DV2291_STAMPING: B 519 1992
 DV2291_MARK LOGO: NGS
 DV2291_MAGNETIC: I = MARKER IS A STEEL ROD
 DV2291_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 DV2291_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DV2291+SATELLITE: SATELLITE OBSERVATIONS - October 26, 2006
 DV2291
 DV2291  HISTORY     - Date     Condition        Report By
 DV2291  HISTORY     - 1992     MONUMENTED       NGS
 DV2291  HISTORY     - 20061026 GOOD             GEOCAC
 DV2291
 DV2291                          STATION DESCRIPTION
 DV2291
 DV2291'DESCRIBED BY NATIONAL GEODETIC SURVEY 1992
 DV2291'IN PHOENIX, AT THE INTERSECTION OF EAST BROADWAY ROAD AND SOUTH 27TH
 DV2291'STREET, 14.0 M (45.9 FT) WEST OF THE STREET CENTER, 6.4 M (21.0 FT)
 DV2291'NORTH OF AND LEVEL WITH THE WESTBOUND LANES OF THE ROAD, AND 0.5 M
 DV2291'(1.6 FT) NORTH OF A FENCE BETWEEN TWO PLANTERS.  NOTE--ACCESS TO THE
 DV2291'DATUM POINT IS THROUGH A 5-INCH LOGO CAP.  THE ROD WAS DRIVEN TO
 DV2291'REFUSAL AND ANCHORED, AT 2.3 METERS AND FLUSH WITH THE GROUND.
```

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DV2291
DV2291                          STATION RECOVERY (2006)
DV2291
DV2291'RECOVERY NOTE BY GEOCACHING 2006 (ACM)
DV2291'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:03
```

NGS BENCHMARK B 519

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.1
1         National Geodetic Survey,   Retrieval Date = MAY  7, 2013
 DV2292 ***********************************************************************
 DV2292  DESIGNATION -  C 519
 DV2292  PID         -  DV2292
 DV2292  STATE/COUNTY-  AZ/MARICOPA
 DV2292  COUNTRY     -  US
 DV2292  USGS QUAD   -  PHOENIX (1982)
 DV2292
 DV2292                          *CURRENT SURVEY CONTROL
 DV2292
 DV2292* NAD 83(1986) POSITION- 33 24 55.38    (N) 112 01 46.68    (W)    HD_HELD1
 DV2292* NAVD 88 ORTHO HEIGHT -    335.187  (meters)     1099.69  (feet) ADJUSTED
 DV2292
 DV2292  GEOID HEIGHT    -         -29.83  (meters)                       GEOID12A
 DV2292  DYNAMIC HEIGHT  -         334.802 (meters)      1098.43  (feet) COMP
 DV2292  MODELED GRAVITY -     979,479.2   (mgal)                        NAVD 88
 DV2292
 DV2292  VERT ORDER      -  FIRST     CLASS II
 DV2292
 DV2292.The horizontal coordinates were determined by differentially corrected
 DV2292.hand held GPS observations or other comparable positioning techniques
 DV2292.and have an estimated accuracy of +/- 3 meters.
 DV2292.
 DV2292.The orthometric height was determined by differential leveling and
 DV2292.adjusted by the NATIONAL GEODETIC SURVEY
 DV2292.in November 1993.
 DV2292
 DV2292.The dynamic height is computed by dividing the NAVD 88
 DV2292.geopotential number by the normal gravity value computed on the
 DV2292.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DV2292.degrees latitude (g = 980.6199 gals.).
 DV2292
 DV2292.The modeled gravity was interpolated from observed gravity values.
 DV2292
 DV2292;                    North         East     Units  Estimated Accuracy
 DV2292;SPC AZ C     -   267,822.0     202,853.7     MT  (+/- 3 meters HH1 GPS)
 DV2292
 DV2292                           SUPERSEDED SURVEY CONTROL
 DV2292
 DV2292.No superseded survey control is available for this station.
 DV2292
 DV2292_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SVB0426797811(NAD 83)
 DV2292
 DV2292_MARKER: DV = VERTICAL CONTROL DISK
 DV2292_SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE
 DV2292_SP_SET: ABUTMENT
 DV2292_STAMPING: C 519 1992
 DV2292_MARK LOGO: NGS
 DV2292_MAGNETIC: N = NO MAGNETIC MATERIAL
 DV2292_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 DV2292_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DV2292+SATELLITE: SATELLITE OBSERVATIONS - December 03, 2006
 DV2292
 DV2292  HISTORY     - Date     Condition        Report By
 DV2292  HISTORY     - 1992     MONUMENTED       NGS
 DV2292  HISTORY     - 20061203 GOOD             GEOCAC
 DV2292
 DV2292                           STATION DESCRIPTION
 DV2292
 DV2292'DESCRIBED BY NATIONAL GEODETIC SURVEY 1992
 DV2292'IN PHOENIX, AT THE INTERSECTION OF SOUTH 24TH STREET AND THE SALT
 DV2292'RIVER, IN TOP OF AND 0.4 M (1.3 FT) WEST OF THE EAST END OF THE SOUTH
 DV2292'CONCRETE ABUTMENT OF THE STREET BRIDGE SPANNING THE RIVER, 7.3 M
 DV2292'(24.0 FT) EAST OF AND LEVEL WITH THE CENTERLINE OF THE NORTHBOUND
 DV2292'LANES OF THE STREET, AND 0.4 M (1.3 FT) EAST OF THE EAST BRIDGE RAIL.
 DV2292
 DV2292                           STATION RECOVERY (2006)
 DV2292
 DV2292'RECOVERY NOTE BY GEOCACHING 2006 (ACM)
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```
DV2292'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:03
```

NGS BENCHMARK C 519

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.1
1         National Geodetic Survey,   Retrieval Date = MAY  7, 2013
 DV2293 ***********************************************************************
 DV2293  DESIGNATION -  D 519
 DV2293  PID         -  DV2293
 DV2293  STATE/COUNTY-  AZ/MARICOPA
 DV2293  COUNTRY     -  US
 DV2293  USGS QUAD   -  PHOENIX (1982)
 DV2293
 DV2293                          *CURRENT SURVEY CONTROL
 DV2293
 DV2293* NAD 83(1986) POSITION- 33 25 03.90   (N) 112 01 47.55   (W)   HD_HELD1
 DV2293* NAVD 88 ORTHO HEIGHT -   335.246  (meters)    1099.89  (feet) ADJUSTED
 DV2293
 DV2293  GEOID HEIGHT    -        -29.83  (meters)                      GEOID12A
 DV2293  DYNAMIC HEIGHT  -        334.861 (meters)     1098.62  (feet) COMP
 DV2293  MODELED GRAVITY -    979,478.9   (mgal)                       NAVD 88
 DV2293
 DV2293  VERT ORDER      -  FIRST     CLASS II
 DV2293
 DV2293.The horizontal coordinates were determined by differentially corrected
 DV2293.hand held GPS observations or other comparable positioning techniques
 DV2293.and have an estimated accuracy of +/- 3 meters.
 DV2293.
 DV2293.The orthometric height was determined by differential leveling and
 DV2293.adjusted by the NATIONAL GEODETIC SURVEY
 DV2293.in November 1993.
 DV2293
 DV2293.The dynamic height is computed by dividing the NAVD 88
 DV2293.geopotential number by the normal gravity value computed on the
 DV2293.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DV2293.degrees latitude (g = 980.6199 gals.).
 DV2293
 DV2293.The modeled gravity was interpolated from observed gravity values.
 DV2293
 DV2293;                    North         East     Units  Estimated Accuracy
 DV2293;SPC AZ C     -   268,084.5     202,831.5     MT  (+/- 3 meters HH1 GPS)
 DV2293
 DV2293                          SUPERSEDED SURVEY CONTROL
 DV2293
 DV2293.No superseded survey control is available for this station.
 DV2293
 DV2293_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SVB0424798074(NAD 83)
 DV2293
 DV2293_MARKER: DV = VERTICAL CONTROL DISK
 DV2293_SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE
 DV2293_SP_SET: ABUTMENT
 DV2293_STAMPING: D 519 1992
 DV2293_MARK LOGO: NGS
 DV2293_MAGNETIC: N = NO MAGNETIC MATERIAL
 DV2293_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 DV2293_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DV2293+SATELLITE: SATELLITE OBSERVATIONS - December 03, 2006
 DV2293
 DV2293  HISTORY     - Date     Condition        Report By
 DV2293  HISTORY     - 1992     MONUMENTED       NGS
 DV2293  HISTORY     - 20051005 GOOD             EVANS
 DV2293  HISTORY     - 20061203 GOOD             GEOCAC
 DV2293
 DV2293                          STATION DESCRIPTION
 DV2293
 DV2293'DESCRIBED BY NATIONAL GEODETIC SURVEY 1992
 DV2293'IN PHOENIX, AT THE INTERSECTION OF SOUTH 24TH STREET AND THE SALT
 DV2293'RIVER, IN TOP OF AND 0.4 M (1.3 FT) WEST OF THE EAST END OF THE NORTH
 DV2293'CONCRETE ABUTMENT OF THE STREET BRIDGE SPANNING THE RIVER, 7.5 M
 DV2293'(24.6 FT) EAST OF AND LEVEL WITH THE CENTERLINE OF THE NORTHBOUND
 DV2293'LANES OF THE STREET, AND 0.4 M (1.3 FT) EAST OF THE EAST BRIDGE RAIL.
 DV2293
 DV2293                          STATION RECOVERY (2005)
 DV2293
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DV2293'RECOVERY NOTE BY DAVID EVANS + ASSOC 2005 (JST)
DV2293'RECOVERED IN GOOD CONDITION.
DV2293
DV2293                          STATION RECOVERY (2006)
DV2293
DV2293'RECOVERY NOTE BY GEOCACHING 2006 (ACM)
DV2293'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:02
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NGS BENCHMARK D 519

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.1
1         National Geodetic Survey,   Retrieval Date = MAY  7, 2013
 DV2337 ***********************************************************************
 DV2337  DESIGNATION -  D 521
 DV2337  PID         -  DV2337
 DV2337  STATE/COUNTY-  AZ/MARICOPA
 DV2337  COUNTRY     -  US
 DV2337  USGS QUAD   -  LAVEEN (1973)
 DV2337
 DV2337                          *CURRENT SURVEY CONTROL
 DV2337
 DV2337* NAD 83(1986) POSITION- 33 20 52.44   (N) 112 10 08.61   (W)   HD HELD1
 DV2337* NAVD 88 ORTHO HEIGHT -   316.820  (meters)    1039.43  (feet) ADJUSTED
 DV2337
 DV2337  GEOID HEIGHT    -        -29.99  (meters)                      GEOID12A
 DV2337  DYNAMIC HEIGHT  -        316.461 (meters)     1038.26  (feet) COMP
 DV2337  MODELED GRAVITY -    979,494.2   (mgal)                       NAVD 88
 DV2337
 DV2337  VERT ORDER      -  FIRST     CLASS II
 DV2337
 DV2337.The horizontal coordinates were determined by differentially corrected
 DV2337.hand held GPS observations or other comparable positioning techniques
 DV2337.and have an estimated accuracy of +/- 3 meters.
 DV2337.
 DV2337.The orthometric height was determined by differential leveling and
 DV2337.adjusted by the NATIONAL GEODETIC SURVEY
 DV2337.in August 1994.
 DV2337
 DV2337.Photographs are available for this station.
 DV2337
 DV2337.The dynamic height is computed by dividing the NAVD 88
 DV2337.geopotential number by the normal gravity value computed on the
 DV2337.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DV2337.degrees latitude (g = 980.6199 gals.).
 DV2337
 DV2337.The modeled gravity was interpolated from observed gravity values.
 DV2337
 DV2337;                    North         East     Units  Estimated Accuracy
 DV2337;SPC AZ C     -   260,360.9     189,868.5     MT  (+/- 3 meters HH1 GPS)
 DV2337
 DV2337                          SUPERSEDED SURVEY CONTROL
 DV2337
 DV2337.No superseded survey control is available for this station.
 DV2337
 DV2337_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SUB9121990466(NAD 83)
 DV2337
 DV2337_MARKER: F = FLANGE-ENCASED ROD
 DV2337_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
 DV2337_SP SET: STAINLESS STEEL ROD
 DV2337_STAMPING: D 521 1994
 DV2337_MARK LOGO: NGS
 DV2337_PROJECTION: FLUSH
 DV2337_MAGNETIC: I = MARKER IS A STEEL ROD
 DV2337_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
 DV2337+STABILITY: POSITION/ELEVATION WELL
 DV2337_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DV2337+SATELLITE: SATELLITE OBSERVATIONS - August 21, 2006
 DV2337_ROD/PIPE-DEPTH: 5.5  meters
 DV2337
 DV2337  HISTORY     - Date     Condition        Report By
 DV2337  HISTORY     - 1994     MONUMENTED       NGS
 DV2337  HISTORY     - 20060821 GOOD             GEOCAC
 DV2337  HISTORY     - 20090417 GOOD             GEOCAC
 DV2337
 DV2337                          STATION DESCRIPTION
 DV2337
 DV2337'DESCRIBED BY NATIONAL GEODETIC SURVEY 1994
 DV2337'1.6 KM (1.00 MI) SOUTHERLY ALONG 51ST AVENUE FROM THE POST OFFICE IN
 DV2337'LAVEEN, 55.0 M (180.4 FT) SOUTH OF THE CENTERLINE OF ELLIOT ROAD,
 DV2337'11.6 M (38.1 FT) EAST OF THE AVENUE CENTERLINE, 1.2 M (3.9 FT) NORTH
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DV2337'OF A UTILITY POLE WITH 2 GUY CABLES, 0.4 M (1.3 FT) WEST OF A WITNESS
DV2337'POST AND FENCE, AND 0.3 M (1.0 FT) BELOW THE LEVEL OF THE HIGHWAY.
DV2337'NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.
DV2337
DV2337                          STATION RECOVERY (2006)
DV2337
DV2337'RECOVERY NOTE BY GEOCACHING 2006 (ACM)
DV2337'RECOVERED IN GOOD CONDITION.
DV2337
DV2337                          STATION RECOVERY (2009)
DV2337
DV2337'RECOVERY NOTE BY GEOCACHING 2009 (JM)
DV2337'RECOVERED IN GOOD CONDITION AS DESCRIBED. HANDHELD COORDINATES
DV2337'33 20 52.4 (N)   112 10 08.6 (W)  (NAD 83).

*** retrieval complete.
Elapsed Time = 00:00:02
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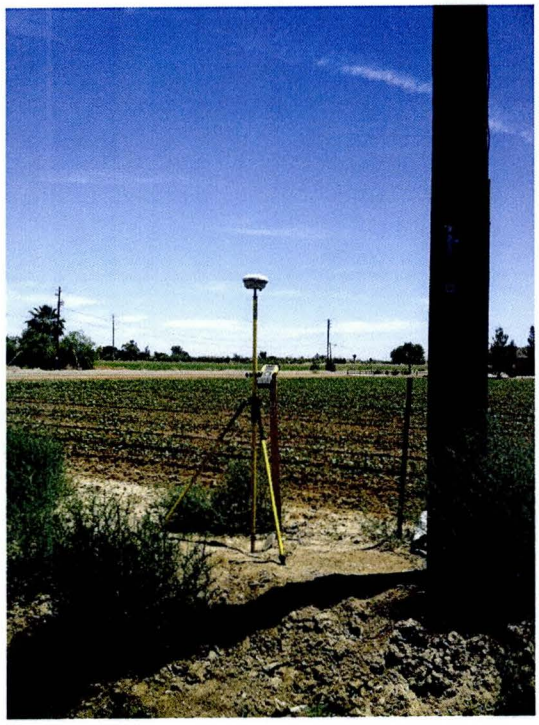
NGS BENCHMARK D 521



The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.1
1         National Geodetic Survey,   Retrieval Date = MAY  7, 2013
 DV2311 ***********************************************************************
 DV2311  DESIGNATION -  W 519
 DV2311  PID         -  DV2311
 DV2311  STATE/COUNTY-  AZ/MARICOPA
 DV2311  COUNTRY     -  US
 DV2311  USGS QUAD   -  TOLLESON (1982)
 DV2311
 DV2311                          *CURRENT SURVEY CONTROL
 DV2311
 DV2311* NAD 83(1986) POSITION- 33 24 23.4     (N) 112 17 23.3     (W)    HD HELD2
 DV2311* NAVD 88 ORTHO HEIGHT -   297.254  (meters)      975.24  (feet) ADJUSTED
 DV2311
 DV2311  GEOID HEIGHT    -        -30.31  (meters)                       GEOID12A
 DV2311  DYNAMIC HEIGHT  -        296.913 (meters)      974.12  (feet) COMP
 DV2311  MODELED GRAVITY -    979,480.4   (mgal)                        NAVD 88
 DV2311
 DV2311  VERT ORDER      -  FIRST     CLASS II
 DV2311
 DV2311.The horizontal coordinates were established by autonomous hand held GPS
 DV2311.observations and have an estimated accuracy of +/- 10 meters.
 DV2311.
 DV2311.The orthometric height was determined by differential leveling and
 DV2311.adjusted by the NATIONAL GEODETIC SURVEY
 DV2311.in November 1993.
 DV2311
 DV2311.The dynamic height is computed by dividing the NAVD 88
 DV2311.geopotential number by the normal gravity value computed on the
 DV2311.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DV2311.degrees latitude (g = 980.6199 gals.).
 DV2311
 DV2311.The modeled gravity was interpolated from observed gravity values.
 DV2311
 DV2311;                    North         East     Units  Estimated Accuracy
 DV2311;SPC AZ C     -   266,893.      178,653.      MT  (+/- 10 meters HH2 GPS)
 DV2311
 DV2311                          SUPERSEDED SURVEY CONTROL
 DV2311
 DV2311.No superseded survey control is available for this station.
 DV2311
 DV2311_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SUB8006397096(NAD 83)
 DV2311
 DV2311_MARKER: DV = VERTICAL CONTROL DISK
 DV2311_SETTING: 40 = SET IN A LARGE STRUCTURE WITH DEEP FOUNDATIONS
 DV2311_SP SET: FOOTING
 DV2311_STAMPING: W 519 1992
 DV2311_MARK LOGO: NGS
 DV2311_MAGNETIC: N = NO MAGNETIC MATERIAL
 DV2311_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
 DV2311+STABILITY: POSITION/ELEVATION WELL
 DV2311_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DV2311+SATELLITE: SATELLITE OBSERVATIONS - August 19, 2006
 DV2311
 DV2311  HISTORY     - Date     Condition        Report By
 DV2311  HISTORY     - 1992     MONUMENTED       NGS
 DV2311  HISTORY     - 20060819 GOOD             GEOCAC
 DV2311
 DV2311                          STATION DESCRIPTION
 DV2311
 DV2311'DESCRIBED BY NATIONAL GEODETIC SURVEY 1992
 DV2311'0.3 KM (0.20 MI) EASTERLY ALONG WEST VAN BUREN STREET FROM THE POST
 DV2311'OFFICE IN TOLLESON, THENCE 4.8 KM (3.00 MI) SOUTHERLY ALONG SOUTH
 DV2311'91ST AVENUE, THENCE 3.2 KM (2.00 MI) WESTERLY ALONG WEST BROADWAY
 DV2311'ROAD, NEAR THE SOUTHWEST CORNER OF A CONCRETE FOOTING FOR HIGH LINE
 DV2311'TOWER NUMBER 54, 44.2 M (145.0 FT) WEST OF THE CENTERLINE OF SOUTH
 DV2311'107TH AVENUE, 14.1 M (46.3 FT) NORTH OF AND LEVEL WITH THE ROAD
 DV2311'CENTERLINE, AND 0.3 M (1.0 FT) ABOVE THE GROUND SURFACE.
 DV2311
 DV2311                          STATION RECOVERY (2006)
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DV2311
DV2311'RECOVERY NOTE BY GEOCACHING 2006 (ACM)
DV2311'RECOVERED IN GOOD CONDITION.

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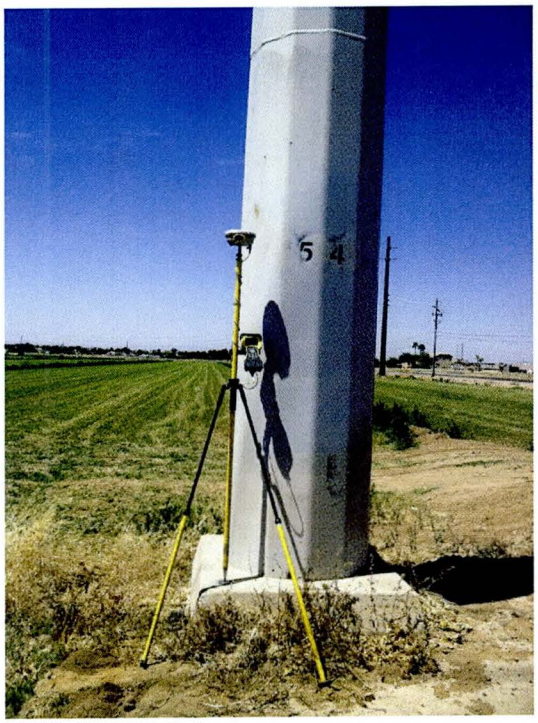
NGS BENCHMARK W 519

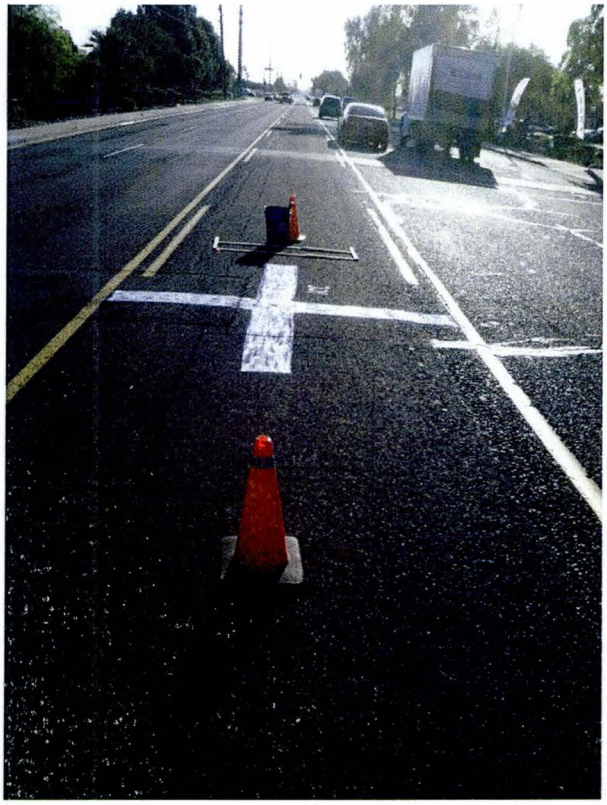


SECTION 6

METADATA FOR PRIMARY PANEL POINTS

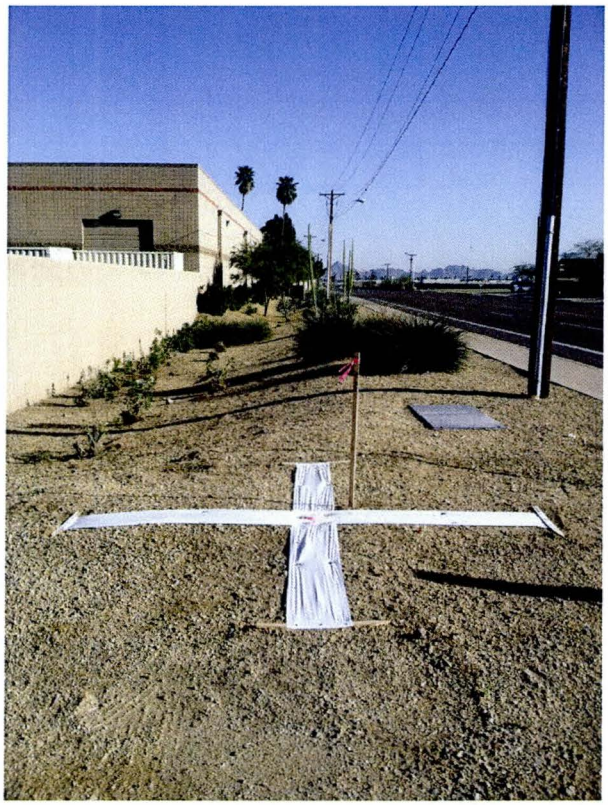
- SUPPORTING PICTURES

AERIAL CONTROL PANEL 1100



AERIAL CONTROL PANEL 1101

AERIAL CONTROL PANEL 1102



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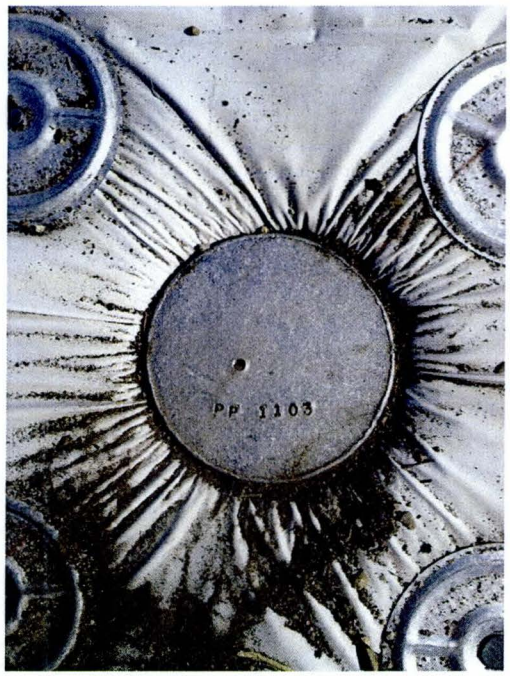
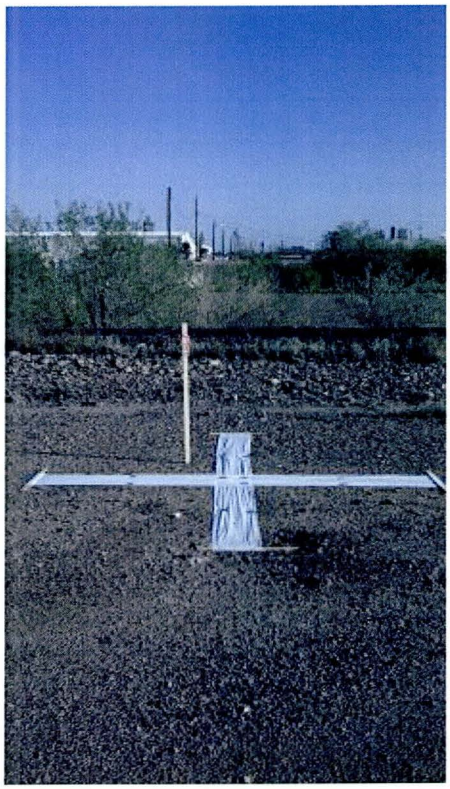


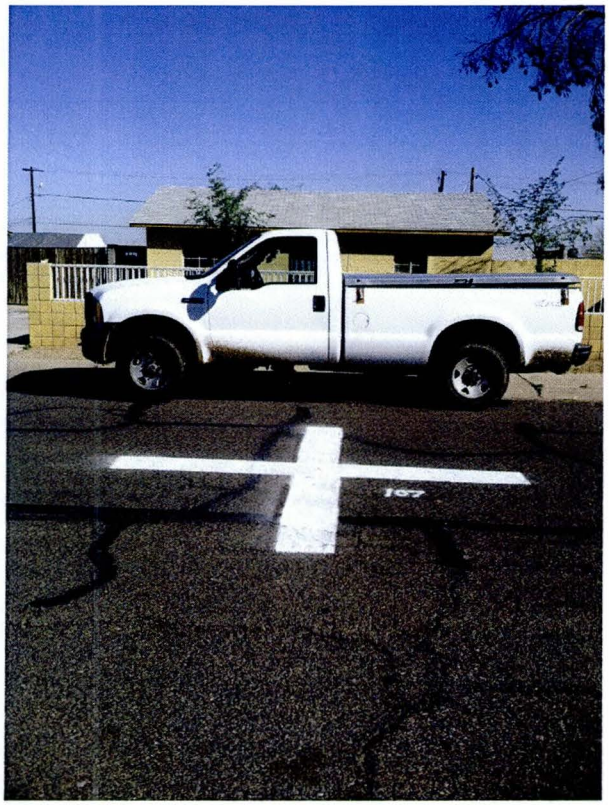
AERIAL CONTROL PANEL 1104

AERIAL CONTROL PANEL 1105



AERIAL CONTROL PANEL 1106

AERIAL CONTROL PANEL 1107



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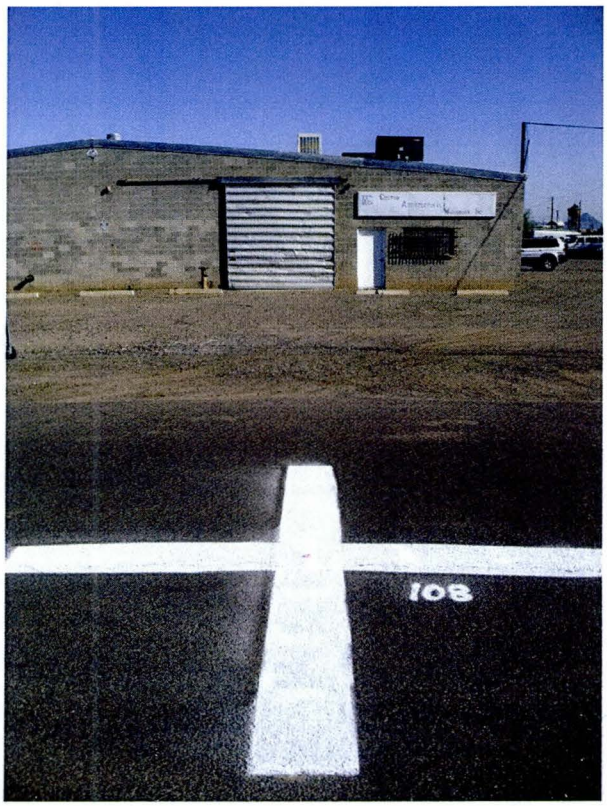

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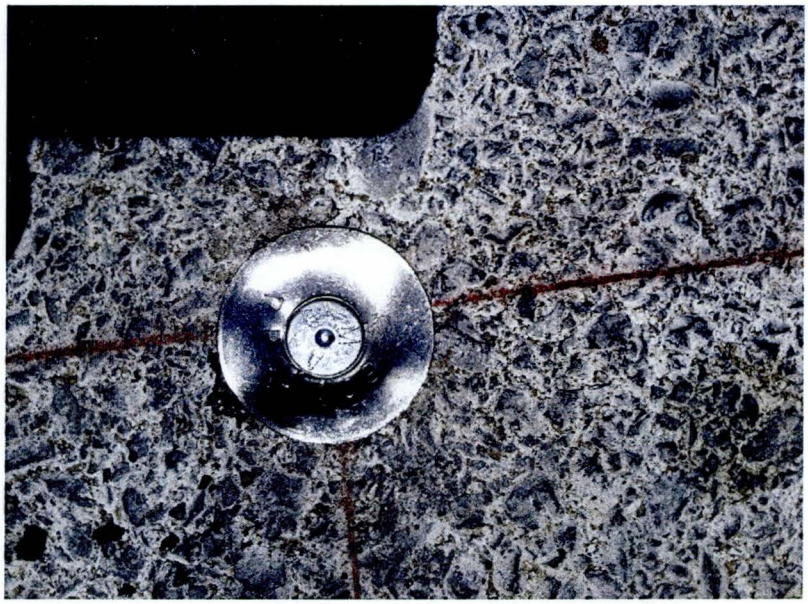

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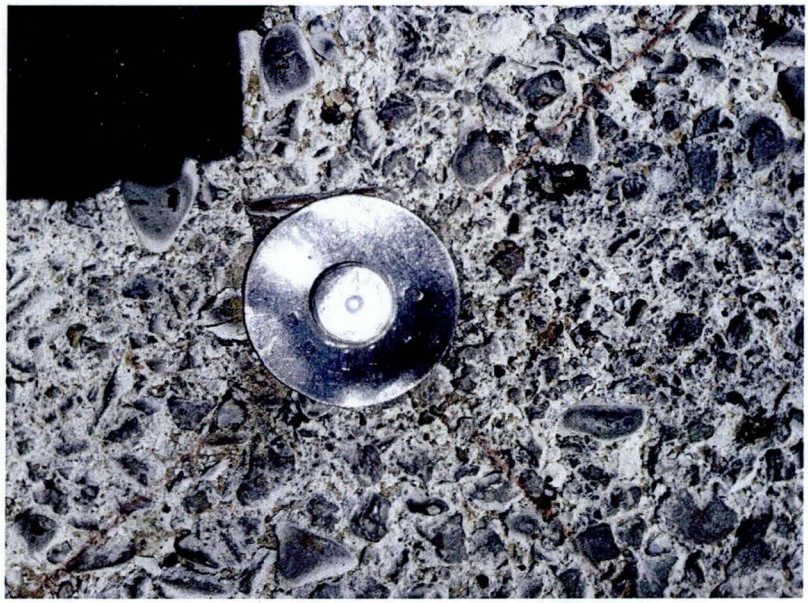
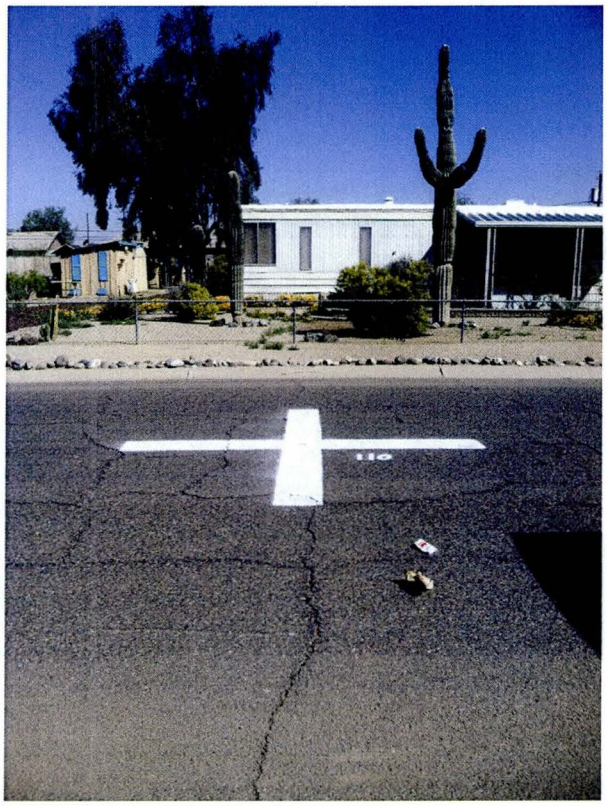




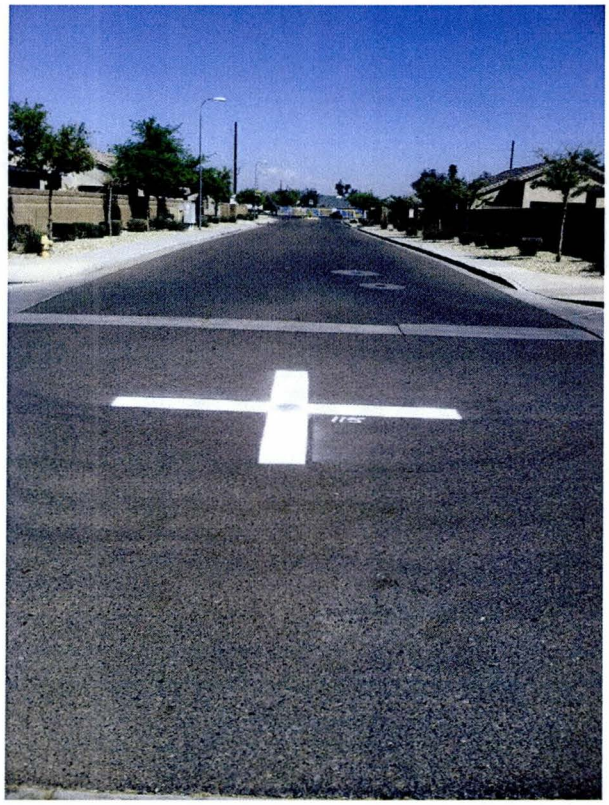
AERIAL CONTROL PANEL 1111

AERIAL CONTROL PANEL 1112

AERIAL CONTROL PANEL 1113

AERIAL CONTROL PANEL 1114

AERIAL CONTROL PANEL 1115



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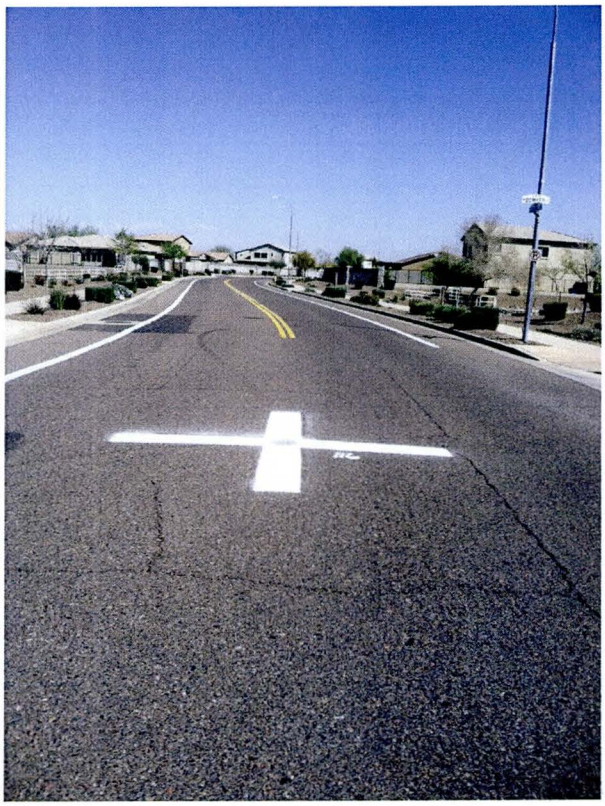

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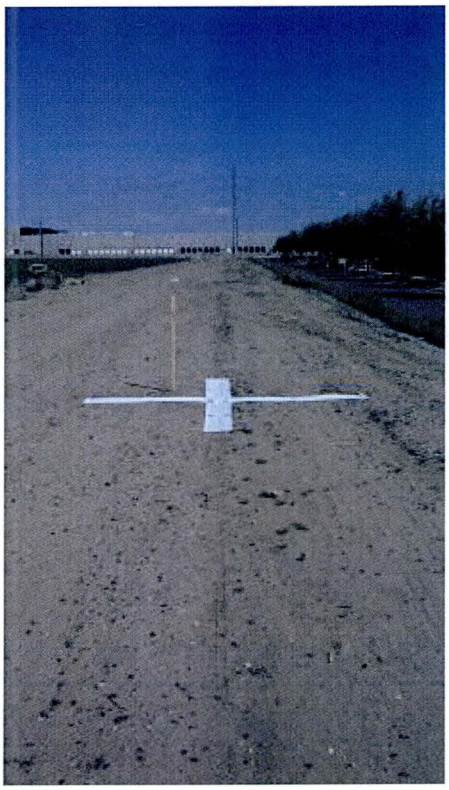

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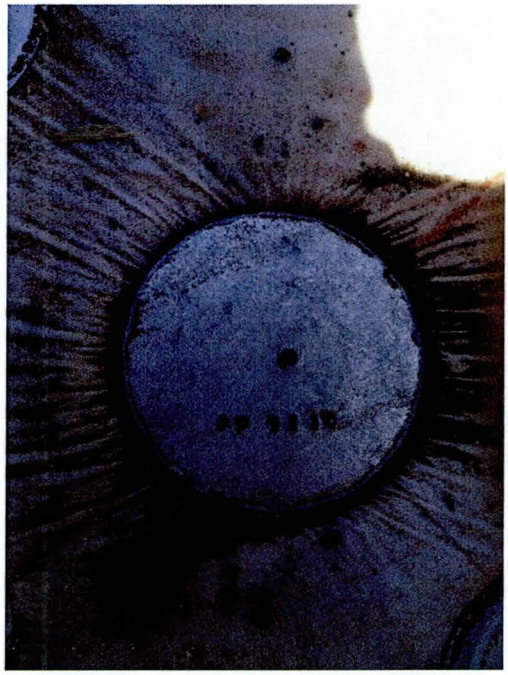

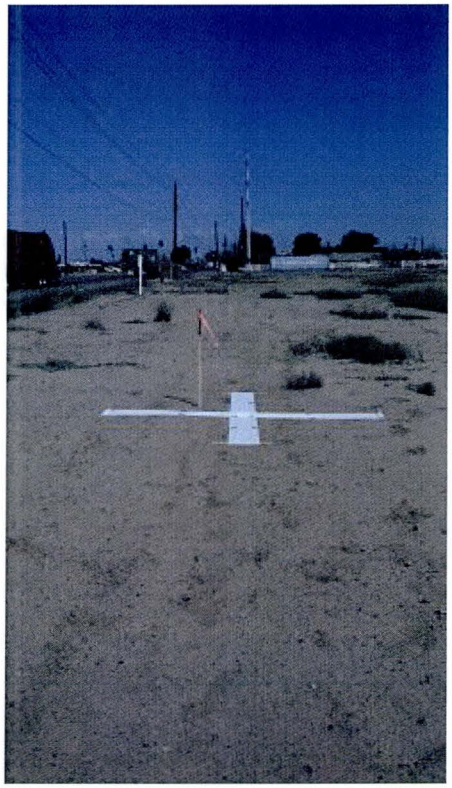

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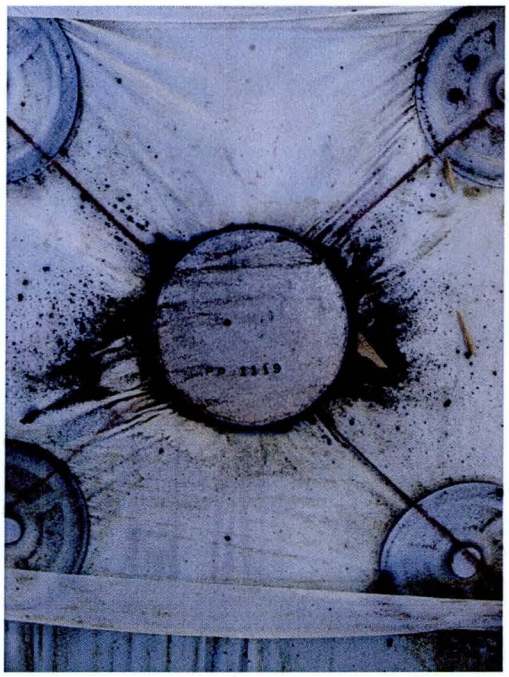

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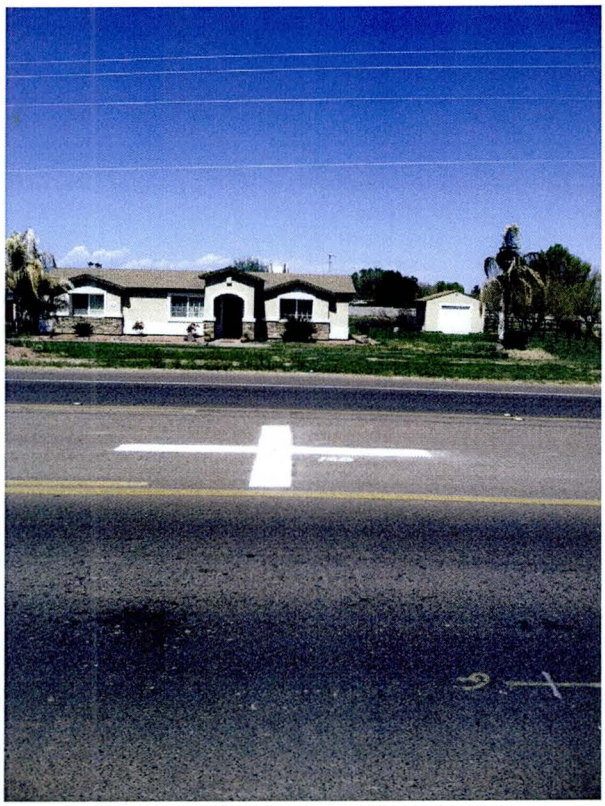
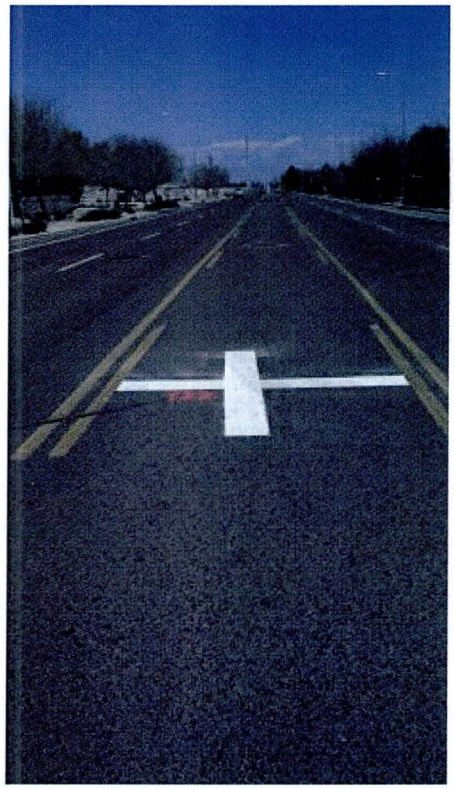


AERIAL CONTROL PANEL 1121

AERIAL CONTROL PANEL 1122



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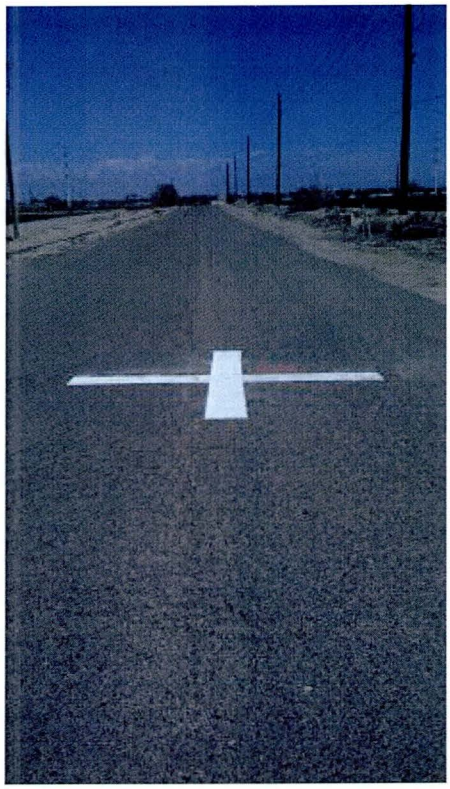

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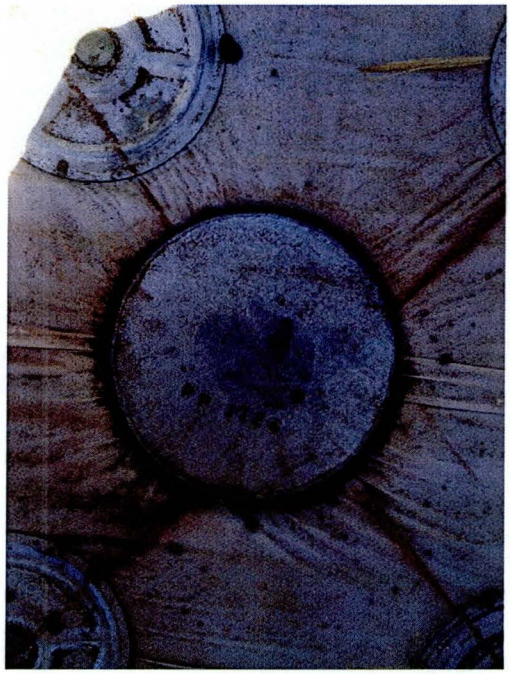

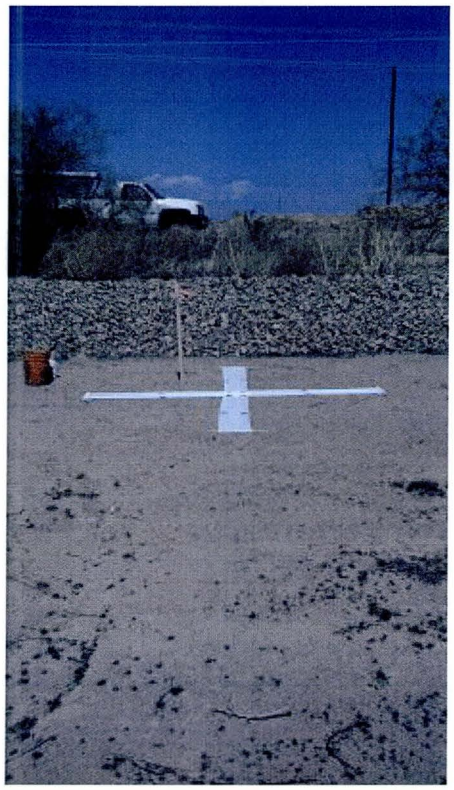

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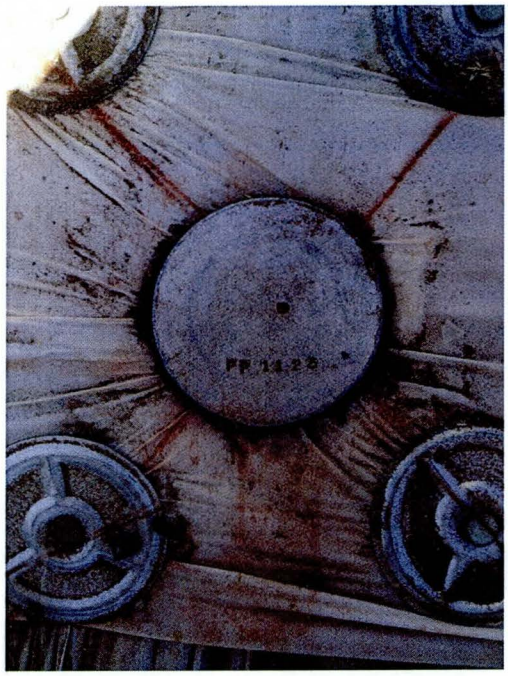

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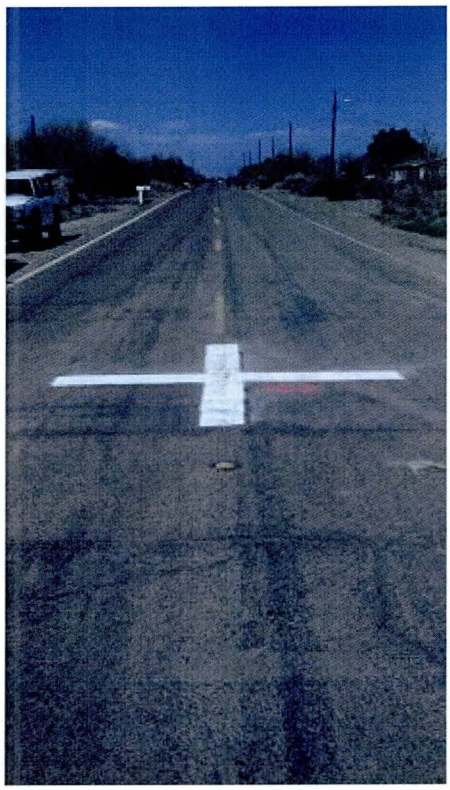
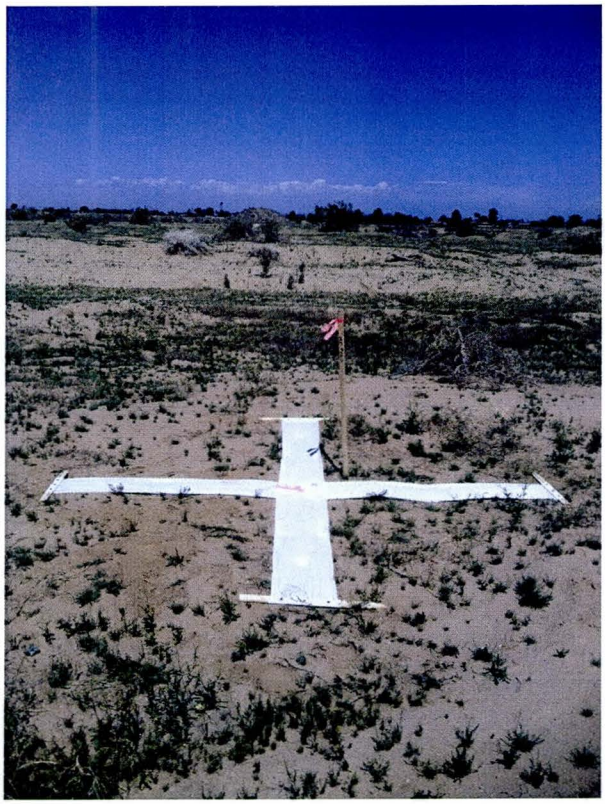
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