A TEAM PROFESSIONAL ASSOCIATES, INC.

SURVEY REPORT MANUAL FOR NOVEMBER 2011 SAN TAN WEST MAPPING CONTRACT FCD2009C043 TASK ORDER No. 12

SITUATED IN OR NEAR
SECTIONS 22-28, 33-36, TOWNSHIP 2 SOUTH, RANGE 6 EAST;
SECTIONS 19, 20, 29-33, TOWNSHIP 2 SOUTH, RANGE 7 EAST;
SECTIONS 1-4, 10, 13, TOWNSHIP 3 SOUTH, RANGE 6 EAST;
SECTIONS 2-11, 17, 17, 19, 29, TOWNSHIP 3 SOUTH, RANGE 7 EAST,
MARICOPA COUNTY, ARIZONA

PREPARED FOR
PINNACLE MAPPING &
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
JANUARY, 2012

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NOTE : HIGH LIGHTED AREAS ARE AVAILABLE ONLY IN DIGITAL VERSION OF
REPORT AND HAVE NOT BEEN PRINTED.

PLEASE SEE FILE TITLE "*1993-12 SURVEY REPORT MANUAL.pdf*" FOR THIS INFORMATION.

SECTION 1

SURVEYORS SUMMARY/CERTIFICATION

SURVEYORS SUMMARY AND CERTIFICATION

BACKGROUND

The Global Positioning System (GPS) is a highly-accurate, satellite-based, spatial positioning technology. It is capable of providing sub-centimeter horizontal positions (coordinates) over large distances.

Because of the nature of the GPS satellite configuration and other considerations it is not able to provide equally accurate vertical positions (elevations). Generally speaking, the accuracy of GPS-derived elevations is only one-half to one-third as accurate as GPS-derived horizontal positions (latitude and longitude), and achieving this vertical accuracy requires a greater effort than that required for horizontal accuracies.

The plan of this network was to develop a methodology to achieve the maximum vertical accuracy in a reasonable and practical manner.

SURVEY SUMMARY

Flood Control District of Maricopa County (FCDMC) utilized A Team Professionl Associates, Inc. to perform the survey tasks for the San Tan West Mapping Contract FCD 2009C043, Task Order 12. A Team was responsible for the primary control network, consisting of observing and adjusting the 24 Primary Panels and 4 NGS Control Stations making up the network. A Team was also responsible for the ground support for the Airborne GPS (AGPS) and the post-processing of the ABGPS. A Team was further charged with performing quality control checks for the project such as 12 blind panels and +/-132 random spot height checks on the finished Digital Terrain Model (DTM). FCDMC consulted Pinnacle Mapping to be the responsible Aerial Mapping firm therefore A Team coordinated various parts of this contract with Pinnacle Mapping.

Great care was taken in preparing a Global Positioning Systems (GPS) Primary Control Network of the various horizontal and vertical control stations available in the immediate and outer surrounding area. The following is a summary of the control found and utilized for the "Primary Control Network":

STATION NAME	HORIZ. ORDER	VERTICAL ORDER	ELLIPS. ORDER	HORIZ. STATUS	ELLIPS. STATUS	VERTICAL STATUS
2CK1	**B**	**K**	**3RD 2**	**FIXED**	**FIXED**	**CHECK**
2EM1	**B**	**K**	**3RD 2**	**FIXED**	**FIXED**	**CHECK**
2EO2	**B**	**K**	**3RD 2**	**FIXED**	**FIXED**	**CHECK**
CG1 NW	**B**	**K**	**3RD 2**	**FIXED**	**FIXED**	**CHECK**

NOTES:

The control stations in **BOLD RED** font are the stations used to constrain the network. The vertical designation of "K" designates an orthometric height was determined by GPS observations and a high-resolution geoid model using precise GPS observation and processing techniques.

The control stations 2CK1, 2EM1 and 2EO2 were used to constrain the network horizontally, while all of the GDAC points were used vertically by fixing the ellipsoid value. The network was adjusted and constrained in geodetic coordinates with ellipsoid heights utilizing the NAD 83 definition of the Ellipsoid.

Upon completion of the adjustment the projection for Arizona Central Zone (0202) was applied to the geodetic coordinates to generate the NAD83 State Plane Grid Coordinates for this project. Next, the GEOID99 separation adjustment projection values (with an inclined plane) are added to the ellipsoid projection which in turn calculates the orthometric height values, (Maricopa's GDAC Projection) NAVD88 Elevations. For more information see the coordinate system details below.

COORDINATE SYSTEM

COORDINATE SYSTEM	: GDAC NAD83 ZONE 0202
ZONE	: ZONE FROM DATA COLLECTOR
DATUM	: (WGS 84)
ELLIPSOID NAME	: (WGS 84)
GEOID MODEL	: GEOID99 (CONUS)
SITE	: GDAC METERS NAD 83 AZ SPC

ELLIPSOID

ELLIPSOID NAME	: (WGS 84)		
FLATTENING 1/F	: 298.257		
SEMI MAJOR AXIS	: 6378137.000M		
DATUM TRANSFORMATION WGS84 TO (WGS 84)	: THREE PARAMETER		
TRANSLATION X	: 0.000M	**ROTATION X**	: N/A
TRANSLATION Y	: 0.000M	**ROTATION Y**	: N/A

TRANSLATION Z	: 0.000M	ROTATION Z	: N/A
SCALE FACTOR	: N/A PPM		

TRANSVERSE MERCATOR PROJECTION

PROJECTION ORIGIN			FALSE ORIGIN	
LATITUDE	: 31°00'00.00000"N	FALSE	NORTHING	: 0.000M
LONGITUDE	: 111°55'00.00000"W	FALSE	EASTING	: 213360.000M
HEIGHT	: N/A	FALSE	ELEVATION	: N/A
SCALE FACTOR	: 0.99990000			

LOCAL SITE SETTINGS

PROJECT LATITUDE	: ?
PROJECT LONGITUDE	: ?
PROJECT HEIGHT	: 0.000M
GROUND SCALE FACTOR	: N/A
FALSE NORTHING OFFSET	: N/A
FALSE EASTING OFFSET	: N/A

GPS SITE CALIBRATION DETAILS

HORIZONTAL ADJUSTMENT

NORTH ORIGIN	: N/A	TRANSLATION NORTH	: N/A
EAST ORIGIN	: N/A	TRANSLATION EAST	: N/A
SCALE	: N/A	ROTATION	: N/A

VERTICAL ADJUSTMENT	: GEOID W\ INCLINED PLANE
NORTH ORIGIN	: 267232.856M
EAST ORIGIN	: 249010.623M
VERTICAL CONSTANT CORRECTION	: 0.038M
SLOPE NORTH	: -0.191PPM
SLOPE EAST	: -0.003PPM

NETWORK ADJUSTMENT PARAMETERS	: NONE
LONGITUDE DEFLECTION	: N/A
LATITUDE DEFLECTION	: N/A
AZIMUTH ROTATION	: N/A
NETWORK SCALE	: N/A
DISTANCE SCALE	: N/A
DISTANCE CONSTANT	: N/A
HEIGHT CONSTANT	: N/A

Ground Control

Airborn GPS Ground Control Three Trimble 5800 receivers were set up on GDAC control points throughout the project (2CK1, 2EM1 and 2EO2). These control points were established previously during the densification of the control network for Maricopa County. All three points are Horizontal order "B", and Ellipsoid Order "Third Class 2". The data collected by these ground control receivers was downloaded and the onboard GPS collected on the aircraft was

acquired. The data was processed, analyzed such to deliver final coordinates for the Camera Nodal point of each station where an image was taken. The results were further compiled into a report and forwarded to the Pinnacle Mapping for further use.

Static Procedures

The ATEAM has designed our static survey method procedures to eliminate errors, and provide confidence in our results. A GPS observation schedule was made to ensure strong geometric figures and redundant measurements. Each primary control point was occupied for a minimum of 20 minutes and simultaneously with a minimum of four other receivers on other primary controls as well as the four day burners being the control mentioned above to constrain the network. Fixed height tripods / fixed height poles were used for every occupation to eliminate antenna height errors. Observation logs were filled out for each occupation at each primary control point (see Section 4 and Section 5 of the Survey Manual Report for observation log sheets). Each log sheet includes the height of the antenna, the type of antenna, the start and end time of the point being observed, the receiver serial number, the julian day, the beginning and ending latitude, longitude and ellipsoid height, the beginning and ending satellites and the name of personnel who observed the point.

The phases of work as follows are specific to the responsibilities of the work performed by A Team P.A., Inc.

Phase I:

The first phase of this project was to establish the primary control points needed to perform aerial mapping for this project. This was accomplished by collecting static observations on the three GDAC base stations and CG NW1 using four Trimble 4000SSE receivers. ATEAM used Trimble 5800, 5700 and 4800 receivers to collect the 20 minute static sessions on the 29 primary aerial panel points/targets and the 12 blind aerial panels/targets. The results of these direct observations and vectors from the control were then analyzed, and confidence was derived from those control stations that were in agreement (See Section 2.1, 2.2 & 3.4 of this Survey Report Manual for more information). All of the GPS data collected for the primary control network was post-processed and ran through network adjustments in Trimble Business Center. The results were then checked against published NGS/GDAC values for quality control. The coordinates and reports shown within this Survey Report Manual for the "Primary Control Network" were derived from Trimble Business Center.

Phase II:

The second phase of this project was to provide three ground base stations on three GDACS (2CK1, 2EM1 and 2EO2) for airborne gps post processing purposes. These three setups utilized fixed height tripods and three Trimble

5800 receivers each collecting at a 1 second epoch rate. Coordination with Pinnacle Mapping regarding the date of flight, requirements of the specifications of airborne collection and A Team was completed. Upon completion of the flight acquisition of the imagery A Team collected the IMU and onboard aircraft GPS data. The ground station data and the onboard aircraft data was then post processed and finalized in GrafNav Rel. 8.2. The results were compiled in the required datum for the camera nodal points of each station (time when image was taken) and can be seen in Section 2.5 of this Survey Report Manual.

Phase III:

The third and final phase of this project was to perform Quality Control Checks consisting of DTM/random check shots. A Team developed the "Tile" layout (a sheet size consisting of 6000' x 6000') amounting to a total of 37 Tiles. A Team collected a minimum of 4 topo shots (utilizing RTK methods) in each Tile except where the mapping limits were only a small percentage of a Tile. See Section 6 of this Survey Report Manual for more information.

SURVEYORS CERTIFICATION

I, STONE E. WAHL, AN ARIZONA REGISTERED LAND SURVEYOR, CERTIFY THAT THE FIELD SURVEYS, DOCUMENTED HEREIN, ALONG WITH ALL FIELD, AND OFFICE PROCESS PROCEDURES, USED DURING THE COURSE OF SURVEY, WERE PERFORMED UNDER MY DIRECT SUPERVISION, AND THAT THESE SURVEYS, ARE RETRACEABLE, AND REPEATABLE. FURTHER, I CERTIFY THAT THIS SURVEY REPORT WAS PREPARED UNDER MY DIRECT SUPERVISION; AND THAT THE COORDINATE VALUES, AS SHOWN IN THE REPORT ""1993-12-PRIMARY CONTROL" REPRESENT VERTICAL ACCURACIES WITHIN, (PLUS OR MINUS, +/-), THREE (3) CENTIMETERS (+/- 3CM), OR LESS, AS QUALIFIED BY THE EVALUATIONS OF THE GPS DERIVED, ORTHOMETRIC ELEVATION DIFFERENCES.

STONE E. WAHL
AZ RLS #28237

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
28237
STONE E.
WAHL
Date Signed 1/10/12
ARIZONA, U.S.A.

Expires: 09/30/2012

SECTION 2

RESULTS OF SURVEY-
COORDINATE LISTS REPORTS
WITH CERTIFICATION

SECTION 2.1

FINAL COORDINATES PRIMARY PANEL POINTS

FINAL COORDINATES PRIMARY PANEL POINTS - NOVEMBER 2011 SAN TAN WEST MAPPING

Point Name	DESCRIPTION	NAD 83(1992) Latitude	NAD 83(1992) Longitude	GRS (80) Ellipsoid Height (M)	GRS (80) Ellipsoid Height (IFT)	NAD 83(1992) AZ SPCS (0202) Northing (Grid) (M)	NAD 83(1992) AZ SPCS (0202) Easting (Grid) (M)	NAVD 88 Elevation (M)	NAD 83(1992) AZ SPCS (0202) Northing (Ground) (IFT)	NAD 83(1992) AZ SPCS (0202) Easting (Ground) (IFT)	NAVD 88 Elevation (IFT)	CONVERGENCE	GRID SCALE FACTOR	UP/DOWN FROM PANEL
CONTROL														
2CK1	NGS 3D MONUMENT	33°17'31.58479"	-111°47'40.79498"	350.000	1148.29	254151.659	224722.571	379.872	833830.9022	737278.7762	1246.30	0°04'01"	0.99984678	0.00
2EM1	NGS 3D MONUMENT	33°12'18.52624"	-111°41'08.89604"	411.180	1349.02	244525.013	234882.620	440.792	802247.4180	770612.2703	1446.17	0°07'35"	0.99984132	-0.80
2EO2	NGS 3D MONUMENT	33°12'45.05531"	-111°34'56.76754"	416.520	1366.54	245368.266	244516.843	446.056	805013.9961	802220.6135	1463.44	0°10'59"	0.99984674	0.00
CG NW1	NGS MONUMENT	32°59'47.59883"	-111°47'02.19381"	465.914	1528.59	221377.364	225762.725	495.928	726303.6877	740691.3550	1627.06	0°04'20"	0.99982893	0.00
PRIMARY PANEL POINTS														
ST1	FND BCF	33°14'57.84825"	-111°43'50.12607"	368.994	1210.61	249424.593	230698.598	398.759	818322.1555	756885.1640	1308.26	0°06'07"	0.99984592	0.00
ST2	SET 60D NAIL	33°14'58.59185"	-111°41'09.46157"	383.212	1257.26	249455.793	234857.095	412.908	818424.5177	770528.5269	1354.69	0°07'35"	0.999845683	0.00
ST3	SET 1/2" IB W/2" ALUM CAP	33°14'55.92079"	-111°42'36.68392"	374.630	1229.10	249368.788	232599.649	404.360	818139.0682	763122.2080	1326.64	0°06'48"	0.999845894	0.00
ST4	SET PK W/SHINER	33°11'26.92662"	-111°38'18.15038"	445.824	1462.68	242946.255	239308.562	475.361	797067.7657	785133.0774	1559.58	0°09'08"	0.999838482	0.00
ST5	SET 1/2" IB W/2" ALUM CAP	33°14'05.31686"	-111°44'16.61570"	367.314	1205.10	247805.168	230015.723	397.062	813009.0814	754644.7605	1302.70	0°05'53"	0.999845896	0.00
ST6	SET 1/2" IB W/2" ALUM CAP	33°12'16.64288"	-111°45'09.94338"	364.944	1197.32	244455.220	228640.438	394.684	802018.4383	750132.6706	1294.90	0°05'23"	0.999845726	0.00
ST7	SET PK W/SHINER	33°13'09.88083"	-111°44'27.68487"	369.019	1210.69	246096.982	229732.036	398.748	807404.7966	753714.0289	1308.23	0°05'46"	0.999845514	0.00
ST8	SET PK W/SHINER	33°12'17.73550"	-111°37'59.94025"	410.902	1348.10	244512.680	239775.979	440.456	802206.9554	786666.5978	1445.07	0°09'19"	0.999844252	0.00
ST9	SET 60D NAIL	33°12'16.24877"	-111°43'00.71248"	391.389	1284.08	244448.897	231987.103	421.051	801997.6936	761112.5427	1381.40	0°06'34"	0.999842984	0.00
ST11	SET PK W/SHINER	33°12'17.20802"	-111°39'05.01585"	406.478	1333.59	244492.012	238090.785	436.047	802139.1470	781137.7461	1430.60	0°08'43"	0.999843882	0.00
ST12	SET PK W/SHINER	33°14'17.22557"	-111°40'08.49175"	386.170	1266.96	248185.115	236438.220	415.820	814255.6266	775715.9449	1364.24	0°08'09"	0.999846089	0.00
ST13	SET 1/2" IB W/2" ALUM CAP	33°13'11.22272"	-111°38'48.37815"	393.970	1292.55	246157.032	238517.352	423.562	807601.8110	782537.2441	1389.64	0°08'52"	0.999846103	0.00
ST14	SET PK W/SHINER	33°14'01.41483"	-111°43'14.48033"	372.356	1221.64	247687.849	231624.491	402.072	812624.1765	759922.8707	1319.13	0°06'27"	0.999845799	0.00
ST15	FND BCHH	33°14'02.94029"	-111°41'40.44796"	380.445	1248.18	247739.708	234058.705	410.121	812794.3176	767909.1371	1345.54	0°07'18"	0.999845702	-0.35
ST16	SET 1/2" IB W/2" ALUM CAP	33°09'53.72803"	-111°39'02.96574"	507.693	1665.66	240072.280	238155.101	537.231	787638.7139	781348.7566	1762.57	0°08'44"	0.999828072	-0.20
ST17	SET 60D NAIL	33°11'15.28615"	-111°41'01.39533"	439.778	1442.84	242577.346	235081.198	469.366	795857.4344	771263.7730	1539.91	0°07'39"	0.999836945	0.00
ST18	SET 60D NAIL	33°11'11.59204"	-111°43'47.98364"	407.734	1337.71	242454.902	230766.491	437.411	795455.7152	757107.9101	1435.08	0°06'08"	0.999839882	0.00
ST19	SET PK W/SHINER	33°13'26.77298"	-111°42'49.65344"	379.187	1244.05	246621.936	232269.281	408.874	809127.0866	762038.3235	1341.45	0°06'40"	0.999845025	0.00
ST20	SET PK W/SHINER	33°13'23.38239"	-111°40'08.37318"	390.945	1282.63	246526.484	236445.218	420.566	808813.9239	775738.9042	1379.81	0°08'09"	0.999845345	0.00
ST21	SET 60D NAIL	33°11'00.90691"	-111°37'00.36028"	447.818	1469.22	242150.288	241325.680	477.332	794456.3255	791750.9186	1566.05	0°09'51"	0.99983951	0.00
ST22	SET 1/2" IB W/2" ALUM CAP	33°08'36.16790"	-111°39'30.74545"	532.653	1747.55	237681.271	237441.261	562.224	779794.1962	779006.7618	1844.57	0°08'28"	0.999823734	0.00
ST23	SET 1/2" IB W/2" ALUM CAP	33°08'52.50961"	-111°40'28.45063"	536.579	1760.43	238181.101	235944.688	566.169	781434.0584	774096.7454	1857.51	0°07'57"	0.999822258	0.00
ST24	SET 1/2" IB W/2" ALUM CAP	33°10'05.47746"	-111°41'48.96964"	615.230	2018.47	240424.247	233853.458	644.836	788793.4613	767235.7546	2115.60	0°07'13"	0.999808832	0.00

SURVEYORS CERTIFICATION

I, STONE E. WAHL AN ARIZONA REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT THE VALUES/COORDINATES SHOWN HEREON WERE DEVELOPED BY GPS OBSERVATIONS AND PROCESSED, ALL UNDER MY DIRECT SUPERVISION, AND ARE TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
28237
STONE E.
WAHL
Date Signed 1/10/12
ARIZONA, U.S.A.
Expires 09/30/2012

STONE E. WAHL ARIZONA RLS #28237

NOTE: IF THIS DOCUMENT DOES NOT BEAR THE SIGNATURE OF THIS REGISTRANT THE DOCUMENT IS NOT VALID AND SHOULD BE USED WITH EXTREME CAUTION AND DISCRETION.

SECTION 2.2

FINAL COORDINATES BLIND PANEL POINTS

FINAL COORDINATES BLIND PANEL POINTS - NOVEMBER 2011 SAN TAN WEST MAPPING

Point Name	DESCRIPTION	NAD 83(1992) Latitude	NAD 83(1992) Longitude	GRS (80) Ellipsoid Height (M)	GRS (80) Ellipsoid Height (IFT)	NAD 83(1992) AZ SPCS (0202) Northing (Grid) (M)	NAD 83(1992) AZ SPCS (0202) Easting (Grid) (M)	NAVD 88 Elevation (M)	NAD 83(1992) AZ SPCS (0202) Northing (Ground) (IFT)	NAD 83(1992) AZ SPCS (0202) Easting (Ground) (IFT)	NAVD 88 Elevation (IFT)	CONVERGENCE	GRID SCALE FACTOR	UP/DOWN FROM PANEL
CONTROL														
2CK1	NGS 3D MONUMENT	33°17'31.58479"	-111°47'40.79498"	350.000	1148.29	254151.659	224722.571	379.872	833830.9022	737278.7762	1246.30	0°04'01"	0.99984678	0.00
2EM1	NGS 3D MONUMENT	33°12'18.52624"	-111°41'08.89604"	411.180	1349.02	244525.013	234882.620	440.792	802247.4180	770612.2703	1446.17	0°07'35"	0.99984132	-0.80
2EO2	NGS 3D MONUMENT	33°12'45.05531"	-111°34'56.76754"	416.520	1366.54	245368.266	244516.843	446.056	805013.9961	802220.6135	1463.44	0°10'59"	0.99984674	0.00
CG NW1	NGS MONUMENT	32°59'47.59883"	-111°47'02.19381"	465.914	1528.59	221377.364	225762.725	495.928	726303.6877	740691.3550	1627.06	0°04'20"	0.99982893	0.00
BLIND PANEL POINTS														
BT1	SET PK W/SHINER	33d14'28.00933"	-111d42'11.50328"	377.334	1237.97	248510.285	233253.170	407.037	815322.4573	765266.3058	1335.42	0d07'01"	0.999845786	0.00
BT2	SET PK W/SHINER	33d14'30.66280"	-111d41'09.23212"	382.934	1256.35	248595.450	234864.934	412.615	815601.8701	770554.2454	1353.72	0d07'35"	0.999845731	0.00
BT3	SET PK W/SHINER	33d13'37.50560"	-111d41'03.93698"	386.186	1267.01	246958.248	235005.640	415.834	810230.4724	771015.8793	1364.28	0d07'38"	0.999845297	0.00
BT4	SET PK W/SHINER	33d12'47.67775"	-111d41'59.27501"	396.425	1300.61	245420.229	233576.120	426.071	805184.4783	766325.8530	1397.87	0d07'08"	0.999842956	0.00
BT5	FND 3" BCF	33d13'21.28165"	-111d42'09.30683"	384.026	1259.93	246454.858	233314.237	413.692	808578.9304	765466.6568	1357.26	0d07'02"	0.999844768	0.00
BT6	SET PK W/SHINER	33d12'43.40104"	-111d39'43.08956"	401.398	1316.92	245296.435	237102.841	430.991	804778.3301	777896.4600	1414.01	0d08'22"	0.999844088	0.00
BT7	SET PK W/SHINER	33d11'43.72887"	-111d40'06.74599"	425.766	1396.87	243456.771	236494.629	455.342	798742.6870	775901.0138	1493.90	0d08'09"	0.99983992	0.00
BT8	SET 1/2" IB W/2" ALUM CAP	33d11'39.27689"	-111d37'31.51191"	424.977	1394.28	243329.989	240515.474	454.509	798326.7356	789092.7625	1491.17	0d09'34"	0.999842536	0.00
BT9	SET 1/2" IB W/2" ALUM CAP	33d10'43.25662"	-111d39'53.10907"	477.823	1567.66	241594.782	236852.300	507.380	792633.7992	777074.4751	1664.63	0d08'16"	0.999831974	0.00
BT10	SET 1/2" IB W/2" ALUM CAP	33d11'00.67401"	-111d38'39.42334"	484.104	1588.27	242136.099	238759.681	513.639	794409.7736	783332.2867	1685.17	0d08'57"	0.99983214	0.00
BT11	SET 1/2" IB W/2" ALUM CAP	33d09'48.35532"	-111d39'49.06812"	494.929	1623.78	239903.817	236961.064	524.485	787086.0138	777431.3123	1720.75	0d08'18"	0.999829359	0.00
BT12	SET 1/2" IB W/2" ALUM CAP	33d11'45.50424"	-111d42'13.51570"	418.021	1371.46	243504.229	233211.268	447.649	798898.3891	765128.8320	1468.66	0d07'00"	0.999839394	0.00

SURVEYORS CERTIFICATION

I, STONE E. WAHL AN ARIZONA REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT THE VALUES/COORDINATES SHOWN HEREON WERE DEVELOPED BY GPS OBSERVATIONS AND PROCESSED, ALL UNDER MY DIRECT SUPERVISION, AND ARE TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
28237
STONE E.
WAHL
Date Signed 1/10/12
ARIZONA, U.S.A.
Expires 09/30/2012

STONE E. WAHL ARIZONA RLS #28237

NOTE: IF THIS DOCUMENT DOES NOT BEAR THE SIGNATURE OF THIS REGISTRANT THE DOCUMENT IS NOT VALID AND SHOULD BE USED WITH EXTREME CAUTION AND DISCRETION.

SECTION 2.3

NGS QC DIFFERENCES REPORT

SECTION 2.4

MCFCD HIS COORDINATE FORMAT

NOVEMBER 2011 SAN TAN WEST
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	765266.3058	815322.4573	0.000	1335.42	32	BT1	SET PK W/SHINER IN ASPHALT
6	20	21	0.000	0.000	770554.2454	815601.8701	0.000	1353.72	32	BT2	SET PK W/SHINER IN ASPHALT
6	20	21	0.000	0.000	771015.8793	810230.4724	0.000	1364.28	32	BT3	SET PK W/SHINER IN ASPHALT
6	20	21	0.000	0.000	766325.8530	805184.4783	0.000	1397.87	32	BT4	SET PK W/SHINER IN ASPHALT
6	20	21	0.000	0.000	765466.6568	808578.9304	0.000	1357.26	32	BT5	FOUND 3" BRASS CAP FLUSH STAMPED TOWN OF GILBERT 2008
6	20	21	0.000	0.000	777896.4600	804778.3301	0.000	1414.01	32	BT6	SET PK W/SHINER IN ASPHALT
6	20	21	0.000	0.000	775901.0138	798742.6870	0.000	1493.90	32	BT7	SET PK W/SHINER IN ASPHALT
6	20	21	0.000	0.000	789092.7625	798326.7356	0.000	1491.17	32	BT8	SET 1/2" REBAR W/ 2 1/2" ALUM. CAP STAMPED FCD 2009C043 PP BT8 2011 LS28237
6	20	21	0.000	0.000	777074.4751	792633.7992	0.000	1664.63	32	BT9	SET 1/2" REBAR W/ 2 1/2" ALUM. CAP STAMPED FCD 2009C043 PP BT9 2011 LS28237
6	20	21	0.000	0.000	783332.2867	794409.7736	0.000	1685.17	32	BT10	SET 1/2" REBAR W/ 2 1/2" ALUM. CAP STAMPED FCD 2009C043 PP BT10 2011 LS28237
6	20	21	0.000	0.000	777431.3123	787086.0138	0.000	1720.75	32	BT11	SET 1/2" REBAR W/ 2 1/2" ALUM. CAP STAMPED FCD 2009C043 PP BT11 2011 LS28237
6	20	21	0.000	0.000	765128.8320	798898.3891	0.000	1468.66	32	BT12	SET 1/2" REBAR W/ 2 1/2" ALUM. CAP STAMPED FCD 2009C043 PP BT12 2011 LS28237
6	20	21	0.000	0.000	756885.1640	818322.1555	0.000	1308.26	32	ST1	FOUND 3" BRASS CAP FLUSH STAMPED TOWN OF GILBERT 2007
6	20	21	0.000	0.000	770528.5269	818424.5177	0.000	1354.69	32	ST2	SET 60D NAIL IN DIRT
6	20	21	0.000	0.000	763122.2080	818139.0682	0.000	1326.64	32	ST3	SET 1/2" REBAR W/ 2 1/2" ALUM. CAP STAMPED FCD 2009C043 PP ST3 2011 LS28237
6	20	21	0.000	0.000	785133.0774	797067.7657	0.000	1559.58	32	ST4	SET PK W/SHINER IN ASPHALT
6	20	21	0.000	0.000	754644.7605	813009.0814	0.000	1302.70	32	ST5	SET 1/2" REBAR W/ 2 1/2" ALUM. CAP STAMPED FCD 2009C043 PP ST5 2011 LS28237
6	20	21	0.000	0.000	750132.6706	802018.4383	0.000	1294.90	32	ST6	SET 1/2" REBAR W/ 2 1/2" ALUM. CAP STAMPED FCD 2009C043 PP ST6 2011 LS28237
6	20	21	0.000	0.000	753714.0289	807404.7966	0.000	1308.23	32	ST7	SET PK W/SHINER IN ASPHALT
6	20	21	0.000	0.000	786666.5978	802206.9554	0.000	1445.07	32	ST8	SET PK W/SHINER IN ASPHALT
6	20	21	0.000	0.000	761112.5427	801997.6936	0.000	1381.40	32	ST9	SET 60D NAIL IN DIRT
6	20	21	0.000	0.000	781137.7461	802139.1470	0.000	1430.60	32	ST11	SET PK W/SHINER IN ASPHALT
6	20	21	0.000	0.000	775715.9449	814255.6266	0.000	1364.24	32	ST12	SET PK W/SHINER IN ASPHALT
6	20	21	0.000	0.000	782537.2441	807601.8110	0.000	1389.64	32	ST13	SET 1/2" REBAR W/ 2 1/2" ALUM. CAP STAMPED FCD 2009C043 PP ST13 2011 LS28237
6	20	21	0.000	0.000	759922.8707	812624.1765	0.000	1319.13	32	ST14	SET PK W/SHINER IN ASPHALT
6	20	21	0.000	0.000	767909.1371	812794.3176	0.000	1345.54	32	ST15	FOUND 3" BRASS CAP IN HANDHOLE STAMPED TOWN OF GILBERT
6	20	21	0.000	0.000	781348.7566	787638.7139	0.000	1762.57	32	ST16	SET 1/2" REBAR W/ 2 1/2" ALUM. CAP STAMPED FCD 2009C043 PP ST16 2011 LS28237
6	20	21	0.000	0.000	771263.7730	795857.4344	0.000	1539.91	32	ST17	SET 60D NAIL IN DIRT
6	20	21	0.000	0.000	757107.9101	795455.7152	0.000	1435.08	32	ST18	SET 60D NAIL IN DIRT
6	20	21	0.000	0.000	762038.3235	809127.0866	0.000	1341.45	32	ST19	SET PK W/SHINER IN ASPHALT
6	20	21	0.000	0.000	775738.9042	808813.9239	0.000	1379.81	32	ST20	SET PK W/SHINER IN ASPHALT
6	20	21	0.000	0.000	791750.9186	794456.3255	0.000	1566.05	32	ST21	SET 60D NAIL IN DIRT
6	20	21	0.000	0.000	779006.7618	779794.1962	0.000	1844.57	32	ST22	SET 1/2" REBAR W/ 2 1/2" ALUM. CAP STAMPED FCD 2009C043 PP ST22 2011 LS28237
6	20	21	0.000	0.000	774096.7454	781434.0584	0.000	1857.51	32	ST23	SET 1/2" REBAR W/ 2 1/2" ALUM. CAP STAMPED FCD 2009C043 PP ST23 2011 LS28237
6	20	21	0.000	0.000	767235.7546	788793.4613	0.000	2115.60	32	ST24	SET 1/2" REBAR W/ 2 1/2" ALUM. CAP STAMPED FCD 2009C043 PP ST24 2011 LS28237

SECTION 2.5

AIRBORN GPS REPORT

```
Project:     Ateam 1993-12_SanTan
Program:     Inertial Explorer Version 8.40.1108
Profile:     ATeam EOs State Plane (int feet)
Source:      Features/stations(Smoothed Combined)
ProcessInfo: zAteam 1993-12_SanTan NAD by A Team on 11/27/2011 at 14:25:27

Datum:       NAD83, (processing datum)
Master 1:    Name 2EO2, Status ENABLED
             Antenna height 1.693 m, to L1-PC (TRM_R8, MeasDist 1.600 m to mark/ARP)
             Position 33 12 45.05531, -111 34 56.76754, 416.520 m (NAD83, Ellipsoidal hgt)
Master 2:    Name 2EM1, Status ENABLED
             Antenna height 2.193 m, to L1-PC (TRM_R8, MeasDist 2.100 m to mark/ARP)
             Position 33 12 18.52624, -111 41 08.89604, 411.180 m (NAD83, Ellipsoidal hgt)
Master 3:    Name 2CK1, Status ENABLED
             Antenna height 1.693 m, to L1-PC (TRM_R8, MeasDist 1.600 m to mark/ARP)
             Position 33 17 31.58479, -111 47 40.79498, 350.000 m (NAD83, Ellipsoidal hgt)
IMU to GNSS Antenna Lever Arms:
             x=0.019, y=-0.083, z=0.510 m (x-right, y-fwd, z-up)
Sensor to Body Rotations:
            xRot=0.000, yRot=0.000, zRot=180.000 degrees (Align IMU with Vehicle Body -> x-pitchrate, y-rollrate,
z-yawrate)
IMU->Secondary Sensor Lever Arms:
            x=0.018, y=-0.024, z=-0.367 m (x-right, y-fwd, z-up, IMU->SENSOR)
UTC Offset:  15 s
Geoid:      G99BM(CONTUS).wpg (Absolute correction)

Map projection Info:
  Defined grid: US State Plane, AZ Central (202)
  U.S. State Plane for AZ Central (202)
W-P-K Settings:
  System:    Map (US State Plane, AZ Central (202))
  Order:     W primary, P secondary, K-tertiary
  Axes:      x-forward, y-left, z-up (conventional frame)
  Boresight: On (BX=0.01670, BY=0.00530, BZ=0.00260 deg)
```

Station	GPSTime	Easting	Northing	H-Ell	H-MSL	Omega	Phi	Kappa	SDHoriz	SDHeigh	OmPhSD	KappaSD	SunElv
	(sec)	(ft)	(ft)	(ft)	(ft)	(Deg)	(Deg)	(Deg)	(ft)	(ft)	(Deg)	(Deg)	(Deg)
6	413600.3826	727296.50	824058.56	4021.50	4120.64	0.3838	-0.1269	271.0331	0.03	0.03	0.0019	0.0052	37.5
7	413604.8750	727305.72	823074.60	4025.10	4124.23	0.2014	0.5944	272.1005	0.03	0.03	0.0019	0.0052	37.5
8	413609.3754	727326.61	822089.08	4030.03	4129.16	0.0030	1.4067	271.6518	0.03	0.03	0.0019	0.0053	37.5
9	413613.8717	727354.66	821105.48	4038.78	4137.91	-0.0200	0.8349	270.5028	0.03	0.03	0.0019	0.0053	37.5
10	413618.3601	727378.74	820123.79	4046.35	4145.49	-0.1509	0.7144	271.2275	0.03	0.03	0.0019	0.0053	37.5

11	413622.8645	727405.52	819139.26	4051.31	4150.44	-0.1364	1.0727	271.5248	0.03	0.03	0.0019	0.0053	37.5
12	414108.6168	727328.26	824057.93	4039.24	4138.38	0.1314	0.0367	271.0017	0.03	0.03	0.0019	0.0055	37.6
13	414112.9172	727341.01	823074.56	4049.66	4148.79	-0.3339	1.1821	271.6506	0.03	0.03	0.0019	0.0056	37.6
14	414117.2416	727365.35	822091.63	4056.71	4155.84	-0.3330	0.9115	271.0036	0.03	0.03	0.0019	0.0056	37.6
15	414121.5699	727392.23	821105.90	4049.59	4148.72	0.1671	0.5237	271.2371	0.03	0.03	0.0019	0.0057	37.6
16	414125.8623	727413.84	820122.54	4042.24	4141.37	0.3864	-0.1953	270.8890	0.03	0.03	0.0019	0.0057	37.7
17	414130.1266	727421.95	819141.14	4038.59	4137.72	0.4734	-0.2929	271.6229	0.03	0.03	0.0019	0.0058	37.7
18	414694.7496	753153.66	819333.65	6071.41	6170.25	0.5092	0.1483	359.9308	0.04	0.04	0.0019	0.0061	37.7
19	414701.6502	754819.34	819309.92	6099.95	6198.76	-0.5991	-1.0995	0.5700	0.04	0.04	0.0019	0.0061	37.7
20	414708.7588	756494.43	819325.30	6121.96	6220.74	-1.1040	-1.0043	0.1424	0.04	0.04	0.0019	0.0061	37.7
21	414715.8874	758162.65	819360.27	6132.23	6230.98	-0.4967	-0.8406	0.0591	0.04	0.04	0.0019	0.0061	37.7
22	414723.0800	759831.90	819384.57	6149.09	6247.81	0.0867	-0.7373	359.9174	0.04	0.04	0.0019	0.0060	37.7
23	414730.2686	761504.26	819364.50	6140.18	6238.87	1.2695	-0.0966	0.7279	0.04	0.04	0.0019	0.0060	37.7
24	414737.4252	763176.96	819314.50	6133.27	6231.93	-0.1940	0.2018	0.6603	0.04	0.04	0.0019	0.0060	37.7
25	414744.5017	764846.42	819320.58	6114.37	6213.00	-1.3832	0.4375	0.0726	0.04	0.04	0.0019	0.0060	37.7
26	414751.5223	766518.23	819318.46	6099.70	6198.31	0.3571	0.3219	0.5381	0.04	0.04	0.0019	0.0059	37.7
27	414758.5109	768187.18	819313.36	6095.87	6194.45	0.0554	0.1556	359.8570	0.04	0.04	0.0019	0.0059	37.7
28	414765.5075	769859.92	819320.17	6092.16	6190.72	-0.8272	0.1907	0.6629	0.04	0.04	0.0019	0.0058	37.7
29	414772.4801	771527.07	819353.23	6090.87	6189.40	-0.2151	0.1210	359.6903	0.04	0.04	0.0019	0.0057	37.7
30	414779.4526	773196.40	819358.55	6086.94	6185.45	0.7739	0.1752	0.3121	0.04	0.04	0.0019	0.0057	37.7
31	414786.5252	774867.24	819373.21	6140.14	6238.62	-0.6560	-1.1784	359.8238	0.04	0.04	0.0019	0.0056	37.7
32	415206.5403	778212.91	816164.61	6151.55	6249.94	0.1842	0.6939	180.7181	0.04	0.04	0.0019	0.0062	37.7
33	415212.9448	776542.70	816144.08	6171.03	6269.45	-0.2450	0.7936	179.5897	0.04	0.04	0.0019	0.0062	37.7
34	415219.3453	774871.95	816153.90	6161.03	6259.46	-0.9974	0.1130	180.2881	0.04	0.04	0.0019	0.0062	37.7
35	415225.6978	773201.79	816163.65	6147.03	6245.49	0.3252	-0.2329	180.1974	0.04	0.04	0.0019	0.0062	37.7
36	415232.0184	771531.98	816160.59	6140.61	6239.09	0.2810	-0.0913	180.2406	0.04	0.05	0.0019	0.0063	37.7
37	415238.3189	769862.07	816154.86	6135.98	6234.48	0.2799	-0.0635	180.1768	0.04	0.05	0.0019	0.0063	37.7
38	415244.6194	768190.40	816145.62	6133.84	6232.36	-0.2053	-0.1040	179.8684	0.04	0.05	0.0019	0.0063	37.7
39	415250.9080	766521.00	816153.05	6134.38	6232.93	-0.5515	-0.0061	180.0997	0.04	0.05	0.0019	0.0063	37.7
40	415257.2205	764848.59	816147.68	6138.57	6237.15	1.0361	0.1043	180.6049	0.04	0.05	0.0019	0.0062	37.7
41	415263.5490	763181.56	816130.01	6147.39	6246.00	-0.2951	0.2051	180.1255	0.04	0.05	0.0019	0.0062	37.7
42	415269.8975	761510.41	816124.76	6144.50	6243.13	0.3248	-0.0080	180.3550	0.04	0.04	0.0019	0.0062	37.7
43	415276.2381	759837.57	816106.11	6135.46	6234.13	0.2036	-0.1556	180.1917	0.04	0.04	0.0019	0.0062	37.7
44	415282.5546	758167.69	816100.85	6135.66	6234.36	-0.1333	-0.0202	180.1418	0.04	0.04	0.0019	0.0061	37.7
45	415288.8871	756496.57	816095.21	6141.62	6240.34	0.3439	0.1065	180.4669	0.04	0.05	0.0019	0.0061	37.7
46	415295.2397	754828.39	816076.09	6155.42	6254.18	-0.1326	0.3571	180.0678	0.04	0.05	0.0019	0.0060	37.7
47	415301.6362	753158.41	816103.43	6170.89	6269.68	-1.3841	0.3996	180.3925	0.04	0.05	0.0019	0.0060	37.7
48	415702.6456	751507.20	812840.27	6177.21	6275.97	-0.3106	-0.3601	0.0307	0.04	0.06	0.0019	0.0067	37.6
49	415709.8022	753178.00	812839.42	6156.16	6254.89	-0.2261	0.3527	0.0239	0.04	0.06	0.0019	0.0067	37.6
50	415716.8988	754847.40	812836.42	6158.19	6256.88	-0.6053	0.1627	0.2886	0.04	0.06	0.0019	0.0067	37.6
51	415723.9714	756519.30	812856.41	6157.34	6256.01	-0.8052	0.0773	0.3882	0.04	0.06	0.0019	0.0067	37.6
52	415731.0560	758188.28	812890.25	6175.94	6274.58	-0.3200	-0.2480	359.6784	0.04	0.06	0.0019	0.0067	37.6
53	415738.1926	759861.13	812893.37	6189.89	6288.50	0.5773	-0.2064	0.2421	0.04	0.06	0.0019	0.0067	37.6
54	415745.3493	761529.94	812894.85	6210.83	6309.40	-0.6318	-0.2934	0.4376	0.04	0.06	0.0019	0.0066	37.6
55	415752.5138	763200.04	812915.13	6203.63	6302.17	-0.5177	0.3429	0.2929	0.04	0.06	0.0019	0.0066	37.6
56	415759.5904	764871.78	812942.38	6186.90	6285.42	-0.2056	0.6077	0.1708	0.04	0.06	0.0019	0.0066	37.6
57	415766.5990	766541.33	812951.26	6176.94	6275.43	0.5973	0.5319	0.3261	0.04	0.06	0.0019	0.0065	37.6
58	415773.5796	768212.94	812951.42	6173.27	6271.74	-0.2839	0.4161	0.2293	0.04	0.06	0.0019	0.0065	37.6
59	415780.5241	769881.10	812963.08	6170.63	6269.07	0.4471	0.2216	359.7549	0.04	0.06	0.0019	0.0064	37.6
60	415787.4767	771550.03	812943.73	6172.62	6271.04	0.5240	0.0285	0.4839	0.04	0.06	0.0019	0.0064	37.6

61	415794.4213	773223.68	812931.85	6149.16	6247.55	-0.4715	0.4941	0.2092	0.04	0.06	0.0019	0.0063	37.6
62	415801.2699	774891.80	812936.18	6129.11	6227.48	-0.4200	0.5538	0.2503	0.04	0.06	0.0019	0.0062	37.5
63	415808.1304	776564.93	812956.14	6124.32	6222.68	-0.3473	0.2435	0.0713	0.04	0.06	0.0019	0.0061	37.5
64	415814.9750	778234.93	812968.91	6121.02	6219.35	0.4474	0.0723	0.1944	0.04	0.06	0.0019	0.0060	37.5
65	415821.8196	779904.59	812957.19	6110.22	6208.54	0.3539	0.1819	0.1912	0.04	0.06	0.0019	0.0059	37.5
66	416168.4285	783250.94	809731.50	6073.78	6172.01	0.5307	-0.0612	180.5331	0.04	0.06	0.0019	0.0065	37.4
67	416174.8090	781578.75	809716.50	6092.64	6190.88	-0.8114	0.2044	179.9013	0.04	0.06	0.0019	0.0065	37.4
68	416181.1776	779909.96	809742.61	6092.26	6190.52	-0.7283	-0.1190	180.3558	0.04	0.06	0.0019	0.0065	37.4
69	416187.5461	778238.72	809760.47	6093.44	6191.72	-0.0907	-0.1685	180.0928	0.04	0.06	0.0019	0.0065	37.4
70	416193.9146	776566.44	809786.39	6093.10	6191.40	0.2444	-0.0758	180.6743	0.04	0.06	0.0019	0.0065	37.4
71	416200.2872	774895.96	809774.97	6097.98	6196.30	1.5666	0.0885	180.1126	0.04	0.06	0.0019	0.0065	37.4
72	416206.6797	773225.21	809758.01	6108.54	6206.87	-0.1938	0.1612	180.0612	0.04	0.06	0.0019	0.0065	37.4
73	416213.0842	771556.90	809751.26	6118.15	6216.51	-0.1705	0.1939	180.3135	0.04	0.06	0.0019	0.0065	37.4
74	416219.5288	769886.60	809748.26	6137.69	6236.08	0.2711	0.5143	180.3893	0.04	0.06	0.0019	0.0065	37.4
75	416226.0173	768216.53	809734.38	6151.05	6249.46	-0.2117	0.3308	180.0435	0.04	0.06	0.0019	0.0065	37.4
76	416232.5059	766546.83	809742.97	6165.76	6264.20	-0.1361	0.2570	180.4520	0.04	0.06	0.0019	0.0065	37.4
77	416239.0624	764873.69	809730.34	6190.37	6288.84	0.8914	0.3778	180.1218	0.04	0.06	0.0019	0.0065	37.4
78	416245.5669	763201.33	809706.90	6170.48	6268.97	-0.1434	-0.5205	179.8570	0.04	0.06	0.0019	0.0064	37.4
79	416251.9955	761534.04	809692.61	6168.42	6266.94	0.1290	-0.3059	180.2431	0.04	0.06	0.0019	0.0064	37.4
80	416258.4400	759863.65	809698.10	6179.55	6278.10	-0.9945	0.0152	180.0012	0.04	0.06	0.0019	0.0064	37.4
81	416264.8966	758194.62	809708.95	6187.83	6286.41	0.3886	0.0715	180.8710	0.04	0.06	0.0019	0.0063	37.4
82	416271.3691	756523.84	809704.59	6195.79	6294.41	0.5785	0.0692	180.2747	0.04	0.06	0.0019	0.0063	37.4
83	416277.7976	754851.10	809681.08	6166.88	6265.52	0.5708	-0.7971	180.3950	0.04	0.06	0.0019	0.0062	37.4
84	416284.1351	753179.68	809657.97	6150.78	6249.46	0.0609	-0.7264	180.0443	0.04	0.06	0.0019	0.0061	37.4
85	416290.4467	751508.42	809647.87	6147.54	6246.26	-0.5692	-0.3981	180.1605	0.04	0.06	0.0019	0.0061	37.4
86	416722.9428	749859.73	806455.60	6154.82	6253.54	-0.3670	-0.4510	0.0091	0.04	0.06	0.0019	0.0070	37.1
87	416729.9154	751529.76	806498.04	6166.88	6265.55	-0.1822	-0.2908	0.3303	0.04	0.06	0.0019	0.0070	37.1
88	416736.8880	753201.21	806525.30	6165.52	6264.16	0.9001	0.0819	0.0857	0.04	0.06	0.0019	0.0070	37.1
89	416743.8525	754869.53	806518.64	6175.77	6274.37	1.5210	-0.2396	0.0096	0.04	0.06	0.0019	0.0070	37.1
90	416750.8491	756539.61	806480.92	6186.45	6285.02	0.7397	-0.2419	0.3054	0.04	0.06	0.0019	0.0069	37.1
91	416757.8897	758212.45	806466.26	6203.20	6301.74	-1.2609	-0.2727	0.2259	0.04	0.06	0.0019	0.0069	37.1
92	416764.8903	759885.16	806498.91	6181.93	6280.43	-0.9874	0.4390	359.9228	0.04	0.06	0.0019	0.0069	37.1
93	416771.7629	761553.00	806536.85	6155.31	6253.78	-0.0902	0.7442	359.8170	0.04	0.06	0.0019	0.0069	37.1
94	416778.5834	763219.69	806549.50	6150.14	6248.59	1.0965	0.3867	359.5396	0.04	0.06	0.0019	0.0068	37.1
95	416785.4560	764893.31	806529.54	6160.68	6259.09	1.1082	-0.1202	359.9354	0.04	0.06	0.0019	0.0068	37.1
96	416792.3646	766562.42	806499.99	6177.10	6275.49	-0.1730	-0.3930	0.3964	0.04	0.06	0.0019	0.0068	37.1
97	416799.2932	768236.11	806496.58	6163.30	6261.66	-0.9989	0.1695	0.3526	0.04	0.05	0.0019	0.0067	37.1
98	416806.1297	769905.25	806509.64	6133.17	6231.50	-0.0662	0.7846	359.9682	0.04	0.05	0.0019	0.0067	37.1
99	416812.8983	771577.45	806506.09	6116.75	6215.06	-0.0929	0.5584	0.3011	0.04	0.05	0.0018	0.0066	37.1
100	416819.6629	773247.35	806512.28	6117.19	6215.47	-0.1684	0.1247	0.1093	0.04	0.04	0.0019	0.0066	37.1
101	416826.4314	774916.75	806523.07	6116.48	6214.74	-0.3122	-0.0752	0.2177	0.04	0.04	0.0019	0.0065	37.1
102	416833.2240	776585.46	806540.91	6120.78	6219.02	-0.1334	-0.2257	0.0616	0.04	0.04	0.0019	0.0064	37.1
103	416840.0606	778258.57	806547.47	6119.48	6217.70	0.2597	-0.1037	359.8619	0.04	0.04	0.0019	0.0064	37.1
104	416846.9011	779927.15	806532.55	6122.46	6220.67	0.5791	-0.1744	0.5050	0.04	0.04	0.0018	0.0063	37.1
105	416853.8017	781597.62	806521.19	6139.57	6237.76	-0.4287	-0.3754	0.4925	0.04	0.04	0.0019	0.0062	37.0
106	416860.7503	783271.41	806520.73	6138.70	6236.87	-0.2175	-0.1695	0.1848	0.04	0.04	0.0019	0.0061	37.0
107	416867.6669	784939.89	806534.29	6138.59	6236.75	-1.0545	-0.0770	0.7386	0.04	0.04	0.0019	0.0060	37.0
108	417179.9369	791625.50	803457.33	6092.90	6190.96	1.5226	0.2424	180.7456	0.04	0.04	0.0019	0.0056	36.8
109	417186.4694	789953.59	803410.41	6092.32	6190.39	2.3101	-0.0562	179.7747	0.04	0.04	0.0019	0.0057	36.8
110	417192.9540	788281.44	803358.68	6073.74	6171.82	1.2793	-0.5102	180.5526	0.04	0.04	0.0019	0.0057	36.8

111	417199.3625	786610.32	803317.70	6053.81	6151.90	0.0913	-0.6731	179.9639	0.04	0.04	0.0018	0.0058	36.8
112	417205.7311	784940.69	803304.30	6051.56	6149.66	-0.0522	-0.2731	180.7515	0.04	0.04	0.0018	0.0058	36.8
113	417212.0916	783271.64	803312.85	6048.58	6146.70	-0.4456	-0.1989	180.0025	0.04	0.04	0.0018	0.0059	36.8
114	417218.4481	781601.48	803332.72	6052.93	6151.06	0.7327	-0.1290	180.5803	0.04	0.04	0.0019	0.0059	36.8
115	417224.7926	779933.00	803342.71	6057.23	6155.38	0.9393	-0.0535	180.4237	0.04	0.04	0.0018	0.0059	36.8
116	417231.1732	778263.35	803320.64	6077.48	6175.65	1.2318	0.5133	180.3812	0.04	0.04	0.0019	0.0060	36.8
117	417237.6337	776590.89	803290.90	6099.96	6198.15	0.3996	0.5250	180.1024	0.04	0.04	0.0019	0.0060	36.8
118	417244.0742	774921.14	803268.27	6090.75	6188.96	-0.3901	-0.1174	180.1706	0.04	0.04	0.0018	0.0060	36.8
119	417250.4908	773251.46	803257.82	6095.71	6193.94	-0.2334	0.0789	180.1380	0.04	0.04	0.0018	0.0060	36.8
120	417256.9673	771578.21	803261.70	6123.87	6222.13	-0.2746	0.5946	180.3986	0.04	0.04	0.0019	0.0060	36.8
121	417263.4879	769908.24	803270.16	6142.08	6240.36	0.4234	0.4722	181.0325	0.04	0.04	0.0019	0.0060	36.8
122	417270.0084	768238.72	803253.23	6137.23	6235.54	0.6588	-0.0125	180.1882	0.04	0.04	0.0019	0.0060	36.8
123	417276.5009	766567.57	803233.09	6129.66	6228.00	-0.1619	-0.1809	179.9538	0.04	0.04	0.0018	0.0060	36.8
124	417282.9455	764899.39	803241.00	6120.61	6218.98	-0.5932	-0.2813	180.0966	0.04	0.04	0.0018	0.0059	36.8
125	417289.3700	763230.22	803272.15	6118.04	6216.43	-0.7896	-0.2562	180.1888	0.04	0.04	0.0018	0.0059	36.8
126	417295.8186	761559.71	803297.71	6129.89	6228.32	0.9163	0.0904	180.8585	0.04	0.04	0.0019	0.0059	36.8
127	417302.3231	759885.42	803301.85	6140.03	6238.49	-0.0297	0.1562	180.1729	0.04	0.04	0.0018	0.0058	36.8
128	417308.8236	758218.02	803301.25	6157.93	6256.43	2.1571	0.4488	181.0526	0.04	0.04	0.0019	0.0057	36.7
129	417315.4002	756545.55	803234.32	6166.63	6265.16	1.1010	0.1478	179.5373	0.04	0.04	0.0019	0.0057	36.7
130	417321.9087	754876.79	803182.29	6146.95	6245.52	0.0651	-0.5411	180.4288	0.04	0.04	0.0019	0.0056	36.7
131	417328.3573	753206.03	803157.08	6127.19	6225.80	-1.7316	-0.7317	179.6731	0.04	0.04	0.0018	0.0056	36.7
132	417334.7498	751534.76	803186.08	6115.78	6214.43	-1.8568	-0.6058	179.6958	0.04	0.04	0.0018	0.0055	36.7
133	417341.1063	749862.57	803224.07	6108.75	6207.44	0.1319	-0.4213	180.0762	0.04	0.04	0.0018	0.0054	36.7
134	417347.4429	748191.38	803230.37	6104.97	6203.69	1.3535	-0.3339	180.6768	0.04	0.04	0.0019	0.0053	36.7
135	417759.5612	748213.11	800012.24	6150.89	6249.60	-0.5256	1.0672	0.1379	0.04	0.04	0.0018	0.0072	36.4
136	417766.3778	749884.41	800009.14	6127.97	6226.64	-0.2464	0.9402	0.1046	0.04	0.04	0.0018	0.0072	36.4
137	417773.1544	751556.70	800017.04	6113.66	6212.29	-0.7289	0.7324	359.9590	0.04	0.04	0.0018	0.0072	36.4
138	417779.8709	753223.85	800013.20	6107.69	6206.28	-0.9687	0.5147	0.5559	0.04	0.04	0.0018	0.0073	36.4
139	417786.6035	754894.62	800025.50	6111.40	6209.95	-0.2671	0.2544	0.0082	0.04	0.04	0.0018	0.0073	36.4
140	417793.3520	756562.47	800017.00	6126.49	6224.99	-0.2798	-0.1902	0.3175	0.04	0.04	0.0019	0.0073	36.4
141	417800.1646	758236.58	800027.26	6136.08	6234.54	-0.8700	-0.0229	0.1474	0.04	0.04	0.0019	0.0073	36.3
142	417806.9372	759904.72	800044.32	6132.68	6231.11	-0.5264	0.0737	0.4791	0.04	0.04	0.0019	0.0073	36.3
143	417813.7217	761577.67	800067.37	6129.91	6228.31	-0.1098	-0.0536	0.2035	0.04	0.04	0.0018	0.0074	36.3
144	417820.4943	763247.22	800076.13	6124.55	6222.91	0.4990	-0.0746	359.9214	0.04	0.04	0.0018	0.0074	36.3
145	417827.2749	764916.84	800075.95	6129.46	6227.78	-0.2426	-0.1559	0.3416	0.04	0.04	0.0018	0.0074	36.3
146	417834.0794	766584.38	800106.37	6143.12	6241.41	-1.3091	-0.3642	0.5995	0.04	0.04	0.0018	0.0073	36.3
147	417840.9720	768257.39	800133.29	6167.18	6265.45	3.0604	-0.6346	358.1197	0.04	0.04	0.0019	0.0073	36.3
148	417847.9406	769927.35	800103.71	6185.41	6283.65	0.1515	-0.4792	0.5447	0.04	0.04	0.0019	0.0074	36.3
149	417854.8892	771599.89	800101.18	6166.61	6264.82	0.0661	0.2646	0.0652	0.04	0.04	0.0019	0.0074	36.3
150	417861.7217	773269.27	800094.05	6125.36	6223.55	0.2221	0.9320	0.2900	0.04	0.04	0.0018	0.0073	36.3
151	417868.4583	774940.42	800093.83	6098.73	6196.90	-0.7749	0.7794	0.5739	0.04	0.04	0.0018	0.0073	36.3
152	417875.1709	776612.25	800111.26	6090.96	6189.11	-0.3246	0.2669	359.9123	0.04	0.04	0.0018	0.0073	36.3
153	417881.8954	778281.10	800135.52	6093.35	6191.47	-0.6169	-0.1927	0.3688	0.04	0.04	0.0018	0.0073	36.3
154	417888.6640	779950.49	800164.26	6100.07	6198.18	-0.0038	-0.3611	0.1169	0.04	0.04	0.0018	0.0073	36.2
155	417895.4926	781619.22	800187.32	6116.40	6214.49	0.7558	-0.6589	359.8773	0.04	0.04	0.0019	0.0073	36.2
156	417902.4091	783293.18	800186.49	6120.87	6218.94	-0.1742	-0.4258	0.5181	0.04	0.04	0.0019	0.0072	36.2
157	417909.3337	784962.97	800176.75	6120.33	6218.39	0.5129	-0.0663	0.2105	0.04	0.04	0.0019	0.0072	36.2
158	417916.2263	786636.43	800167.22	6102.01	6200.06	-0.3699	0.4306	0.1656	0.04	0.04	0.0019	0.0072	36.2
159	417923.0228	788305.13	800160.14	6078.27	6176.30	0.3829	0.4880	0.0568	0.04	0.04	0.0018	0.0071	36.2
160	417929.7994	789972.77	800144.55	6085.33	6183.35	-0.3229	-0.1148	0.3588	0.04	0.04	0.0019	0.0071	36.2

161	417936.6200	791643.43	800156.30	6087.95	6185.96	-0.5993	0.0028	0.1603	0.04	0.04	0.0018	0.0070	36.2
162	418963.4936	794753.62	803886.47	11169.01	11267.05	-0.5463	-0.2935	179.6371	0.03	0.04	0.0018	0.0068	35.1
163	418976.3947	791412.52	803878.78	11145.14	11243.21	-1.2221	-0.3974	179.9538	0.04	0.04	0.0018	0.0068	35.0
164	418989.1437	788075.26	803915.72	11121.57	11219.66	0.4195	-0.5391	180.2562	0.04	0.04	0.0018	0.0068	35.0
165	419001.7608	784731.89	803887.23	11091.57	11189.68	0.4588	-0.7541	180.3196	0.04	0.04	0.0018	0.0068	35.0
166	419014.2138	781390.54	803833.99	11088.58	11186.73	-0.8572	-0.5114	179.8924	0.03	0.04	0.0018	0.0068	35.0
167	419026.5829	778054.63	803844.41	11123.82	11222.00	-0.8493	0.2110	179.7565	0.04	0.04	0.0018	0.0067	35.0
168	419039.0559	774710.14	803924.91	11152.79	11251.02	0.4804	-0.0310	179.9914	0.04	0.04	0.0018	0.0067	35.0
169	419051.4529	771370.97	803895.66	11145.17	11243.44	0.7279	-0.6801	180.0743	0.04	0.04	0.0018	0.0066	35.0
170	419063.6300	768030.27	803847.46	11127.07	11225.39	0.1366	-0.2972	180.0037	0.03	0.04	0.0018	0.0066	35.0
171	419075.7550	764687.84	803845.28	11119.67	11218.05	-0.0464	-0.2361	180.3437	0.04	0.04	0.0018	0.0065	34.9
172	419087.8120	761346.93	803849.39	11103.55	11201.99	0.5184	-0.3216	180.0664	0.04	0.04	0.0018	0.0064	34.9
173	419099.8530	758009.47	803845.20	11119.85	11218.36	0.4568	0.1056	180.1016	0.04	0.04	0.0018	0.0062	34.9
174	419112.0100	754669.15	803836.68	11149.22	11247.80	0.5969	0.4862	180.4051	0.03	0.04	0.0018	0.0061	34.9
175	419124.2870	751325.91	803753.87	11148.83	11247.49	0.7699	-0.1706	180.2733	0.04	0.04	0.0018	0.0059	34.9
176	419136.4520	747986.13	803734.67	11144.20	11242.93	-1.2750	0.0035	179.8985	0.04	0.04	0.0019	0.0057	34.9
177	419454.9826	748009.04	797347.60	11196.00	11294.71	-0.4703	-0.2776	0.2395	0.03	0.03	0.0018	0.0063	34.5
178	419466.0435	751352.73	797350.14	11184.15	11282.77	1.3152	0.3649	359.9697	0.03	0.03	0.0018	0.0064	34.5
179	419477.0124	754691.36	797308.85	11158.16	11256.70	-0.0106	0.5452	0.4332	0.03	0.03	0.0018	0.0064	34.5
180	419487.8893	758030.19	797334.42	11129.73	11228.18	-0.9357	0.5617	0.1956	0.03	0.03	0.0018	0.0064	34.4
181	419498.7142	761373.41	797377.40	11115.73	11214.10	0.0851	0.2796	0.0117	0.03	0.03	0.0018	0.0064	34.4
182	419509.4991	764714.32	797380.83	11103.70	11202.00	0.3920	0.2449	0.0383	0.03	0.03	0.0018	0.0064	34.4
183	419520.2920	768051.98	797373.63	11117.29	11215.53	-0.4527	-0.2529	359.9139	0.03	0.03	0.0018	0.0063	34.4
184	419531.1969	771390.83	797391.86	11141.54	11239.73	-0.2090	-0.4864	359.9013	0.03	0.03	0.0018	0.0062	34.4
185	419542.1739	774734.62	797422.34	11140.63	11238.77	-0.2481	-0.0631	359.9625	0.03	0.03	0.0018	0.0062	34.3
186	419553.1868	778073.49	797459.85	11166.23	11264.33	0.0143	-0.3757	0.0529	0.03	0.03	0.0019	0.0061	34.3
187	419564.2357	781417.58	797451.29	11146.50	11244.56	0.1956	0.2904	0.0553	0.03	0.03	0.0018	0.0060	34.3
188	419575.1446	784755.67	797426.84	11115.70	11213.72	-0.8380	0.3292	0.1186	0.03	0.03	0.0018	0.0058	34.3
189	419586.0775	788095.12	797435.27	11130.10	11228.10	-0.3367	-0.1889	0.4199	0.03	0.03	0.0018	0.0057	34.3
190	419597.0664	791439.29	797470.41	11138.65	11236.63	-1.1748	-0.2154	0.5760	0.03	0.03	0.0018	0.0055	34.2
191	419608.0793	794777.46	797527.59	11153.38	11251.34	0.7661	-0.2895	359.6444	0.03	0.03	0.0018	0.0053	34.2
192	419982.7745	794783.47	791133.06	11454.82	11552.73	0.1447	-0.0392	180.0327	0.03	0.03	0.0018	0.0060	33.7
193	419994.7595	791443.01	791125.95	11457.20	11555.13	-0.1356	-0.0997	179.8204	0.03	0.03	0.0018	0.0060	33.7
194	420006.8045	788102.41	791072.65	11487.13	11585.08	0.4091	0.3958	180.2410	0.03	0.03	0.0018	0.0061	33.7
195	420018.8695	784760.19	791027.43	11474.34	11572.32	-0.9046	-0.0961	179.6072	0.03	0.03	0.0018	0.0061	33.7
196	420030.9345	781419.47	791056.30	11494.93	11592.95	0.0011	0.2377	180.1383	0.03	0.03	0.0018	0.0060	33.6
197	420043.0315	778079.27	791033.27	11493.32	11591.38	0.4099	-0.1046	179.9443	0.03	0.03	0.0018	0.0060	33.6
198	420055.0725	774738.71	790996.89	11494.72	11592.83	-0.0088	-0.0874	179.7781	0.03	0.03	0.0018	0.0060	33.6
199	420067.0255	771397.94	791029.78	11480.30	11578.46	-0.5338	-0.1808	180.2542	0.03	0.03	0.0018	0.0059	33.6
200	420079.0345	768059.92	791057.28	11501.41	11599.62	0.4817	0.0059	179.9180	0.03	0.03	0.0018	0.0058	33.6
201	420091.0755	764718.63	790972.25	11509.05	11607.33	0.3730	-0.1956	179.7326	0.03	0.03	0.0018	0.0057	33.6
202	420103.0125	761376.18	790964.93	11458.12	11556.48	-2.2006	-0.9220	179.9356	0.03	0.03	0.0018	0.0055	33.6
203	420114.7615	758038.04	791026.46	11449.56	11548.01	1.3083	-0.0635	181.1416	0.03	0.03	0.0018	0.0053	33.5
204	420126.6465	754695.70	790984.11	11461.46	11560.00	-0.9936	0.1236	179.8029	0.03	0.03	0.0018	0.0052	33.5
205	420453.5256	761402.36	784539.43	11529.79	11628.22	-0.3215	-0.3831	359.9953	0.03	0.03	0.0018	0.0054	33.0
206	420464.9386	764741.74	784623.51	11574.46	11672.80	0.6703	-0.4325	0.0286	0.03	0.03	0.0019	0.0055	33.0
207	420476.2155	768083.39	784614.88	11506.40	11604.66	1.2235	1.1166	359.8382	0.03	0.03	0.0018	0.0055	33.0
208	420487.2364	771425.89	784583.75	11473.46	11571.65	-0.3095	0.6844	359.9264	0.03	0.03	0.0018	0.0055	33.0
209	420498.1494	774763.58	784573.25	11452.88	11551.02	-0.9359	0.2534	0.3764	0.03	0.03	0.0018	0.0054	32.9
210	420509.0823	778102.22	784594.43	11450.12	11548.21	0.2203	0.0832	0.0823	0.03	0.03	0.0018	0.0054	32.9

211	420520.0352	781445.11	784547.86	11448.25	11546.29	0.1819	0.0419	0.3243	0.03	0.03	0.0018	0.0053	32.9
212	420531.0561	784784.41	784536.43	11469.24	11567.24	-1.1995	-0.3387	0.4728	0.03	0.03	0.0018	0.0052	32.9
213	420542.1410	788130.26	784551.29	11458.65	11556.61	-0.1672	0.1857	0.1483	0.03	0.03	0.0018	0.0051	32.9
214	420860.0314	788132.60	778166.57	11410.26	11508.29	0.5282	-0.1073	180.2145	0.03	0.03	0.0018	0.0058	32.3
215	420872.4644	784790.20	778147.14	11391.97	11490.05	-0.0943	-0.1858	180.1821	0.03	0.03	0.0018	0.0059	32.3
216	420884.9214	781451.91	778115.29	11389.18	11487.30	0.1272	0.0170	180.2017	0.03	0.03	0.0018	0.0060	32.3
217	420897.4985	778112.72	778104.71	11414.81	11512.98	-0.2338	0.7517	179.4910	0.03	0.03	0.0018	0.0060	32.3
218	420910.2235	774767.52	778149.27	11395.92	11494.15	-0.9379	0.0523	179.9536	0.03	0.03	0.0018	0.0060	32.3
219	420923.0406	771427.47	778174.54	11425.12	11523.41	0.4065	0.3440	180.0411	0.03	0.04	0.0018	0.0059	32.3
220	420935.8456	768088.84	778171.92	11411.85	11510.22	1.0079	0.0123	180.2893	0.03	0.04	0.0018	0.0059	32.2
221	420948.6667	764746.62	778156.98	11431.66	11530.11	-0.0080	0.4300	180.1768	0.03	0.04	0.0019	0.0058	32.2
222	421477.5985	764754.87	778161.29	12665.48	12763.93	-0.5609	0.1355	0.2724	0.03	0.04	0.0019	0.0059	31.3
223	421490.3955	768097.04	778172.44	12633.64	12732.01	-1.8549	0.1148	0.2473	0.03	0.04	0.0019	0.0059	31.3
224	421503.0806	771438.56	778177.24	12594.93	12693.23	-0.3108	0.4814	0.5723	0.03	0.04	0.0018	0.0058	31.2
225	421515.7376	774776.78	778189.04	12607.58	12705.81	-0.8503	-0.4417	359.8938	0.03	0.04	0.0019	0.0058	31.2
226	421528.5307	778115.15	778172.48	12620.43	12718.60	-0.5792	-0.6016	0.2921	0.03	0.04	0.0018	0.0056	31.2
227	421541.5958	781458.27	778238.42	12649.27	12747.38	0.8199	-0.6035	359.4489	0.03	0.04	0.0019	0.0055	31.2
228	421554.7009	784799.18	778237.48	12634.56	12732.63	-0.6780	0.2524	0.5691	0.03	0.04	0.0018	0.0053	31.1
229	421567.6179	788137.78	778237.83	12620.21	12718.24	1.6219	0.3336	359.6917	0.03	0.04	0.0019	0.0051	31.1
230	421817.9866	788120.24	784605.80	12648.49	12746.46	-0.7817	0.6481	180.4694	0.03	0.04	0.0019	0.0053	30.6
231	421831.2997	784777.41	784645.96	12654.71	12752.71	0.8597	-0.1667	180.6687	0.03	0.04	0.0019	0.0054	30.6
232	421844.4408	781432.81	784610.61	12620.22	12718.26	-0.2011	-0.7512	180.0779	0.03	0.04	0.0018	0.0054	30.6
233	421857.3019	778092.34	784588.35	12589.73	12687.82	-0.0843	-0.3904	180.0301	0.03	0.04	0.0018	0.0053	30.6
234	421870.1509	774755.14	784602.34	12612.73	12710.87	0.3903	0.3803	180.7176	0.03	0.04	0.0019	0.0052	30.5
235	421883.0960	771414.37	784594.92	12605.80	12703.99	0.0091	-0.1442	180.2695	0.03	0.04	0.0018	0.0051	30.5
236	421896.0251	768069.68	784589.53	12590.09	12688.36	0.5676	-0.3681	180.3255	0.03	0.04	0.0019	0.0049	30.5
237	421908.6461	764730.91	784597.36	12509.05	12607.39	-0.3788	-0.9328	180.1544	0.03	0.04	0.0018	0.0047	30.5
238	421921.1392	761392.16	784588.27	12503.47	12601.89	-0.6523	0.1597	180.2075	0.03	0.04	0.0018	0.0045	30.5
239	422204.2066	754704.80	791000.59	12611.47	12710.01	-2.1097	0.0122	0.3891	0.03	0.04	0.0018	0.0052	29.9
240	422216.3036	758044.67	791033.86	12666.73	12765.18	0.7057	-1.3421	359.6660	0.03	0.04	0.0019	0.0053	29.9
241	422228.4166	761386.03	790994.19	12618.03	12716.38	-1.2554	-0.0747	0.6565	0.03	0.04	0.0019	0.0053	29.8
242	422240.3775	764727.77	790994.77	12603.06	12701.34	-1.5354	-0.3267	0.5512	0.03	0.04	0.0019	0.0053	29.8
243	422252.3225	768068.49	790959.67	12598.71	12696.92	0.1759	-0.4005	0.0699	0.03	0.04	0.0018	0.0053	29.8
244	422264.4715	771410.42	790945.33	12646.41	12744.57	-0.9182	-0.6210	359.7848	0.03	0.04	0.0019	0.0053	29.8
245	422276.6805	774749.89	790986.63	12657.81	12755.91	0.1053	-0.1796	358.8458	0.03	0.04	0.0019	0.0052	29.7
246	422288.9696	778092.61	790909.33	12673.35	12771.41	-0.9240	-0.1180	0.2855	0.03	0.04	0.0019	0.0052	29.7
247	422301.2986	781430.15	790980.95	12684.55	12782.56	-1.5766	-0.1082	0.2014	0.03	0.04	0.0019	0.0051	29.7
248	422313.6116	784771.76	791093.04	12689.24	12787.22	2.4934	-0.1782	358.7705	0.03	0.04	0.0019	0.0049	29.6
249	422326.0166	788114.51	791092.71	12698.06	12796.01	-0.5306	0.0700	359.7519	0.03	0.04	0.0019	0.0048	29.6
250	422338.3056	791452.70	791088.76	12672.36	12770.28	0.7454	0.4335	0.0919	0.03	0.04	0.0019	0.0046	29.6
251	422350.5506	794795.16	791077.99	12680.32	12778.22	-0.4349	-0.1254	359.7278	0.03	0.04	0.0019	0.0043	29.5

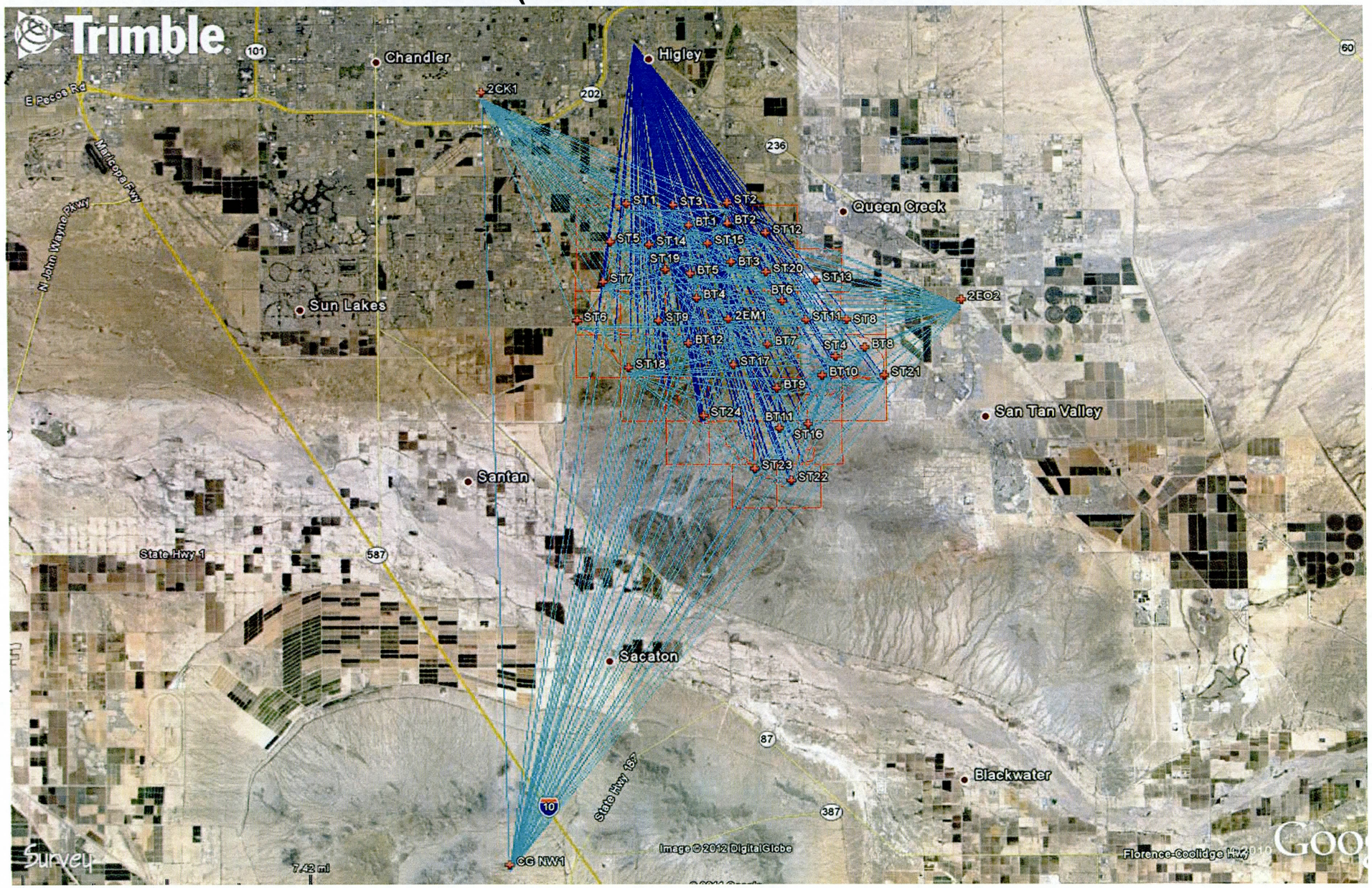
SECTION 3

TBC REPORTS

SECTION 3.1

MAP OF STATIC VECTORS

1993-12 NETWORK MAP (INCLUDING VECTORS FOR DTM CHECKSHOTS



SECTION 3.2

OCCUPATION SPREADSHEET

1993-12 SAN TAN WEST - OCCUPATION SPREADSHEET REPORT

Point ID	Start Time	Duration	Field Method	File Name	Ant. Height	Ant. Method	Ant. Manufacturer	Ant. Type
2CK1	11/15/2011 6:45	7:22:15	Static	60833190#0#2.R	1.5	Bottom of antenna mount	Trimble	Compact L1/L2 w/Ground Plane
CG NW1	11/15/2011 6:54	8:16:00	Static	60823190#0#6.R	1.5	Bottom of antenna mount	Trimble	Compact L1/L2 w/Ground Plane
2EO2	11/15/2011 7:20	9:26:45	Static	76623190#0#10.R	1.5	Bottom of antenna mount	Trimble	Compact L1/L2 w/Ground Plane
2EM1	11/15/2011 7:29	6:20:45	Static	60763190#0#0.R	2	Bottom of antenna mount	Trimble	Compact L1/L2 w/Ground Plane
ST3	11/15/2011 7:47	1:57:30	Static	03193190.dat	2	Bottom of antenna mount	Trimble	Zephyr
ST20	11/15/2011 7:55	1:45:00	Static	83413190.DAT	2.1	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
ST5	11/15/2011 8:03	1:35:00	Static	89553190.DAT	2.1	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
ST15	11/15/2011 8:14	1:18:00	Static	87773190.DAT	2	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
ST2	11/15/2011 8:21	1:12:00	Static	31823191.DAT	1.5	Bottom of antenna mount	Trimble	4800 Internal
ST1	11/15/2011 8:27	1:01:45	Static	89573190.DAT	2	Bottom of antenna mount	Trimble	Zephyr
ST7	11/15/2011 8:34	1:15:15	Static	56783190#0#3.R	1.5	Bottom of antenna mount	Trimble	Compact L1/L2 w/Ground Plane
ST14	11/15/2011 8:49	0:42:15	Static	12413190.DAT	2	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
BT2	11/15/2011 8:50	0:46:30	Static	98763191.DAT	2	Bottom of antenna mount	Trimble	4800 Internal
ST12	11/15/2011 9:09	2:29:45	Static	89543190.DAT	2.1	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
ST13	11/15/2011 9:49	1:57:45	Static	98763193.DAT	2	Bottom of antenna mount	Trimble	4800 Internal
ST20	11/15/2011 10:11	0:51:00	Static	83413191.DAT	2.1	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
BT4	11/15/2011 10:15	1:34:00	Static	56783191#0#4.R	1.5	Bottom of antenna mount	Trimble	Compact L1/L2 w/Ground Plane
BT6	11/15/2011 10:25	1:46:45	Static	87773191.DAT	2	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
ST8	11/15/2011 10:27	1:25:00	Static	31823194.DAT	1.5	Bottom of antenna mount	Trimble	4800 Internal
BT5	11/15/2011 10:29	1:26:45	Static	03193191.dat	2	Bottom of antenna mount	Trimble	Zephyr
BT7	11/15/2011 10:32	3:49:30	Static	12413191.DAT	2	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
BT3	11/15/2011 10:47	0:53:15	Static	89573191.DAT	2	Bottom of antenna mount	Trimble	Zephyr
ST11	11/15/2011 10:51	0:48:45	Static	89553191.DAT	2.1	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
BT1	11/15/2011 11:21	0:21:45	Static	83413192.DAT	2.1	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
BT12	11/15/2011 12:24	1:42:15	Static	56783192#0#5.R	1.5	Bottom of antenna mount	Trimble	Compact L1/L2 w/Ground Plane
ST6	11/15/2011 12:28	1:16:15	Static	03193192.dat	2	Bottom of antenna mount	Trimble	Zephyr
ST9	11/15/2011 12:35	1:23:30	Static	87773192.DAT	2	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
ST7	11/15/2011 12:44	0:51:30	Static	89573192.DAT	2	Bottom of antenna mount	Trimble	Zephyr
ST19	11/15/2011 12:57	0:37:45	Static	31823198.DAT	1.5	Bottom of antenna mount	Trimble	4800 Internal
ST17	11/15/2011 13:01	0:33:30	Static	89553192.DAT	2.1	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
ST18	11/15/2011 13:15	0:22:45	Static	83413193.DAT	2.1	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
2CK1	11/16/2011 6:01	8:42:45	Static	60833200.DAT	1.5	Bottom of antenna mount	Trimble	Compact L1/L2 w/Ground Plane
CG NW1	11/16/2011 6:12	9:12:00	Static	56783200.DAT	1.5	Bottom of antenna mount	Trimble	Compact L1/L2 w/Ground Plane
2EM1	11/16/2011 6:37	5:43:00	Static	60763200.DAT	2	Bottom of antenna mount	Trimble	Compact L1/L2 w/Ground Plane
ST8	11/16/2011 6:59	5:29:45	Static	98763201.DAT	1.5	Bottom of antenna mount	Trimble	4800 Internal
ST18	11/16/2011 7:53	7:17:45	Static	60823200.DAT	1.5	Bottom of antenna mount	Trimble	Compact L1/L2 w/Ground Plane
2EO2	11/16/2011 8:25	4:34:30	Static	76623200.DAT	1.5	Bottom of antenna mount	Trimble	Compact L1/L2 w/Ground Plane
ST21	11/16/2011 8:47	3:49:30	Static	98753201.DAT	2	Bottom of antenna mount	Trimble	4800 Internal
ST16	11/16/2011 9:21	2:34:45	Static	03193200.dat	2	Bottom of antenna mount	Trimble	Zephyr
BT8	11/16/2011 9:26	2:39:15	Static	31823202.DAT	2	Bottom of antenna mount	Trimble	4800 Internal
ST22	11/16/2011 9:33	3:04:30	Static	12413202.DAT	2	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
ST4	11/16/2011 9:40	2:19:15	Static	89163200.DAT	2.1	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
BT11	11/16/2011 10:10	1:32:30	Static	89573200.DAT	2	Bottom of antenna mount	Trimble	Zephyr
BT10	11/16/2011 10:46	0:55:15	Static	34193200.DAT	2.1	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
BT9	11/16/2011 10:53	0:29:15	Static	83413202.DAT	2.1	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
ST23	11/16/2011 11:01	0:36:30	Static	89553202.DAT	2.1	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
2CK1	11/17/2011 9:16	6:10:36	Static	80973216.dat	1.6	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
2EM1	11/17/2011 9:49	5:18:04	Static	87773210.dat	2.1	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
2EO2	11/17/2011 10:18	4:36:01	Static	89553215.dat	1.6	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal
ST24	11/17/2011 10:20	0:29:45	Static	12413211.DAT	2	Bottom of antenna mount	Trimble	R8/5800/SPS78x Internal

SECTION 3.3

BASELINE PROCESSING REPORT

Project information		Coordinate System	
Name:	C:\\Trimble Business Center\1993-12 TBC FINAL\1993-12 FINAL.vce	Name:	US State Plane 1983 (92)
Size:	98 KB	Datum:	NAD 1983 (Conus)
Modified:	11/27/2011 9:03:17 AM (UTC:-7)	Zone:	Arizona Central 0202
Time zone:	US Mountain Standard Time	Geoid:	GEOID99 (Conus)
Reference number:		Vertical datum:	NAVD88 WITH MCDOT GEOID INCLINED PLANE
Description:	NAD83 Metric Template		

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec. (Meter)	V. Prec. (Meter)	ΔX (Meter)	ΔY (Meter)	ΔZ (Meter)	Geodetic Az.	Ellipsoid Dist. (Meter)	ΔHeight (Meter)	Processing Start Time	Processing Stop Time
2CK1 --- 2EM1 (B64)	2CK1	2EM1	Fixed	0.004	0.013	7445.883	-8717.856	-8032.534	133°31'22"	13997.733	61.175	11/15/2011 7:29:00 AM	11/15/2011 1:49:45 PM
2CK1 --- 2EM1 (B77)	2CK1	2EM1	Fixed	0.004	0.012	7445.886	-8717.854	-8032.539	133°31'22"	13997.737	61.170	11/16/2011 6:37:30 AM	11/16/2011 12:20:30 PM
2CK1 --- 2EM1 (B175)	2CK1	2EM1	Fixed	0.004	0.011	7445.883	-8717.858	-8032.542	133°31'22"	13997.739	61.172	11/17/2011 9:49:47 AM	11/17/2011 3:07:51 PM
2CK1 --- ST8 (B345)	2CK1	ST8	Fixed	0.004	0.014	11989.703	-10536.088	-8053.312	122°41'57"	17876.693	60.889	11/16/2011 6:59:15 AM	11/16/2011 12:29:00 PM
2CK1 --- ST8 (B69)	2CK1	ST8	Fixed	0.005	0.016	11989.689	-10536.095	-8053.300	122°41'57"	17876.682	60.904	11/15/2011 10:27:45 AM	11/15/2011 11:52:45 AM
2EO2 --- 2CK1 (B83)	2CK1	2EO2	Fixed	0.004	0.013	16568.465	-11858.832	-7346.022	113°59'43"	21657.548	66.537	11/15/2011 7:20:15 AM	11/15/2011 2:08:00 PM
2CK1 --- 2EO2 (B249)	2CK1	2EO2	Fixed	0.003	0.010	16568.465	-11858.830	-7346.034	113°59'43"	21657.551	66.529	11/17/2011 10:18:47 AM	11/17/2011 2:54:48 PM
2CK1 --- 2EO2 (B97)	2CK1	2EO2	Fixed	0.005	0.012	16568.468	-11858.833	-7346.029	113°59'43"	21657.553	66.533	11/16/2011 8:25:30 AM	11/16/2011 1:00:00 PM
2CK1 --- ST13 (B332)	2CK1	ST13	Fixed	0.005	0.019	11161.581	-9221.672	-6683.565	120°09'39"	15945.485	43.969	11/15/2011 9:49:30 AM	11/15/2011 11:47:15 AM
2CK1 --- BT2 (B318)	2CK1	BT2	Fixed	0.008	0.018	8270.732	-6620.054	-4642.322	118°46'55"	11565.671	32.936	11/15/2011 8:50:45 AM	11/15/2011 9:37:15 AM
2CK1 --- ST21 (B304)	2CK1	ST21	Fixed	0.004	0.014	12935.297	-12338.689	-10013.640	125°55'40"	20488.437	97.813	11/16/2011 8:47:00 AM	11/16/2011 12:36:30 PM
2CK1 --- BT11 (B291)	2CK1	BT11	Fixed	0.005	0.023	8406.574	-11900.141	-11858.910	139°24'19"	18784.294	144.927	11/16/2011 10:10:15 AM	11/16/2011 11:42:45 AM
2CK1 --- ST7 (B67)	2CK1	ST7	Fixed	0.007	0.040	2996.686	-5974.835	-6732.148	148°11'17"	9486.308	19.004	11/15/2011 8:34:00 AM	11/15/2011 9:49:15 AM
2CK1 --- ST7 (B280)	2CK1	ST7	Fixed	0.006	0.014	2996.536	-5975.206	-6731.887	148°11'17"	9486.308	18.998	11/15/2011 12:44:15 PM	11/15/2011 1:35:45 PM

2CK1 --- BT3 (B269)	2CK1	BT3	Fixed	0.007	0.011	8065.483	-7507.228	-6010.477	125°02'28"	12550.568	36.188	11/15/2011 10:47:00 AM	11/15/2011 11:40:15 AM
2CK1 --- ST1 (B256)	2CK1	ST1	Fixed	0.009	0.038	4575.022	-4641.828	-3949.544	128°24'40"	7620.324	18.972	11/15/2011 8:27:45 AM	11/15/2011 9:29:30 AM
2CK1 --- ST24 (B105)	2CK1	ST24	Fixed	0.009	0.013	5588.814	-10577.649	-11351.556	146°26'12"	16488.406	265.208	11/17/2011 10:20:00 AM	11/17/2011 10:49:45 AM
2CK1 --- ST23 (B240)	2CK1	ST23	Fixed	0.007	0.011	7097.691	-12430.277	-13276.565	144°58'20"	19520.967	186.542	11/16/2011 11:01:45 AM	11/16/2011 11:38:15 AM
2CK1 --- ST17 (B230)	2CK1	ST17	Fixed	0.008	0.017	7223.373	-9803.234	-9647.274	138°14'22"	15534.230	89.753	11/15/2011 1:01:30 PM	11/15/2011 1:35:00 PM
2CK1 --- ST11 (B220)	2CK1	ST11	Fixed	0.009	0.013	10420.930	-9919.684	-8069.046	125°55'05"	16494.541	56.475	11/15/2011 10:51:30 AM	11/15/2011 11:40:15 AM
2CK1 --- ST5 (B208)	2CK1	ST5	Fixed	0.008	0.027	3609.906	-5210.812	-5304.028	140°14'16"	8264.905	17.305	11/15/2011 8:03:45 AM	11/15/2011 9:38:45 AM
2CK1 --- ST12 (B193)	2CK1	ST12	Fixed	0.005	0.018	9647.264	-7414.350	-4986.791	117°03'21"	13148.728	36.189	11/15/2011 9:09:45 AM	11/15/2011 11:39:30 AM
2CK1 --- ST4 (B179)	2CK1	ST4	Fixed	0.004	0.018	11224.272	-11186.474	-9343.810	127°35'58"	18395.020	95.836	11/16/2011 9:40:00 AM	11/16/2011 11:59:15 AM
2CK1 --- ST9 (B168)	2CK1	ST9	Fixed	0.006	0.030	4746.932	-7667.273	-8102.088	143°14'40"	12122.102	41.377	11/15/2011 12:35:45 PM	11/15/2011 1:59:15 PM
2CK1 --- BT6 (B159)	2CK1	BT6	Fixed	0.006	0.022	9669.149	-9140.965	-7396.671	125°38'31"	15222.693	51.404	11/15/2011 10:25:15 AM	11/15/2011 12:12:00 PM
2CK1 --- ST15 (B149)	2CK1	ST15	Fixed	0.009	0.039	7347.515	-6754.364	-5358.124	124°32'52"	11327.012	30.455	11/15/2011 8:14:00 AM	11/15/2011 9:32:00 AM
2CK1 --- BT9 (B139)	2CK1	BT9	Fixed	0.010	0.014	8656.170	-10988.131	-10452.357	136°03'29"	17460.354	127.797	11/16/2011 10:53:30 AM	11/16/2011 11:22:45 AM
2CK1 --- ST18 (B76)	2CK1	ST18	Fixed	0.004	0.012	3200.836	-8239.547	-9760.392	152°44'26"	13167.260	57.699	11/16/2011 7:53:00 AM	11/16/2011 2:44:30 PM
2CK1 --- ST18 (B131)	2CK1	ST18	Fixed	0.010	0.017	3200.636	-8240.017	-9760.067	152°44'27"	13167.261	57.701	11/15/2011 1:15:30 PM	11/15/2011 1:38:15 PM
2CK1 --- BT1 (B123)	2CK1	BT1	Fixed	0.010	0.015	6757.888	-6061.379	-4713.762	123°32'39"	10228.204	27.332	11/15/2011 11:21:30 AM	11/15/2011 11:43:15 AM
2CK1 --- ST20 (B107)	2CK1	ST20	Fixed	0.007	0.034	9312.966	-8264.055	-6371.805	123°06'34"	13985.755	40.964	11/15/2011 7:55:45 AM	11/15/2011 9:40:45 AM
2CK1 --- ST20 (B115)	2CK1	ST20	Fixed	0.007	0.012	9312.970	-8264.036	-6371.804	123°06'34"	13985.746	40.949	11/15/2011 10:11:00 AM	11/15/2011 11:02:00 AM
2CK1 --- ST16 (B82)	2CK1	ST16	Fixed	0.004	0.016	9546.373	-12266.797	-11713.364	136°24'49"	19461.102	157.685	11/16/2011 9:21:00 AM	11/16/2011 11:55:45 AM
2CK1 --- ST22 (B81)	2CK1	ST22	Fixed	0.004	0.016	8387.268	-13235.197	-13700.322	142°23'27"	20811.585	182.630	11/16/2011 9:33:45 AM	11/16/2011 12:38:15 PM
2CK1 --- BT8 (B80)	2CK1	BT8	Fixed	0.004	0.016	12430.566	-11421.975	-9036.814	124°29'12"	19146.652	74.974	11/16/2011 9:26:00 AM	11/16/2011 12:05:15 PM
2CK1 --- BT10 (B79)	2CK1	BT10	Fixed	0.006	0.010	10536.930	-11424.521	-9999.783	130°37'48"	18479.162	134.089	11/16/2011 10:46:45 AM	11/16/2011 11:42:00 AM

CG NW1 --- 2CK1 (B78)	2CK1	CG NW1	Fixed	0.003	0.011	-5759.892	-17103.818	-27383.934	178°14'56"	32794.011	115.806	11/16/2011 6:12:30 AM	11/16/2011 2:44:30 PM
CG NW1 --- 2CK1 (B63)	2CK1	CG NW1	Fixed	0.004	0.011	-5759.895	-17103.826	-27383.929	178°14'56"	32794.011	115.815	11/15/2011 6:54:45 AM	11/15/2011 2:08:00 PM
2CK1 --- ST3 (B75)	2CK1	ST3	Fixed	0.007	0.023	6327.470	-5380.075	-3996.108	121°19'57"	9216.325	24.628	11/15/2011 7:47:00 AM	11/15/2011 9:44:30 AM
2CK1 --- BT5 (B74)	2CK1	BT5	Fixed	0.005	0.023	6392.061	-7134.337	-6429.796	131°55'20"	11536.157	34.039	11/15/2011 10:29:15 AM	11/15/2011 11:56:00 AM
2CK1 --- ST6 (B73)	2CK1	ST6	Fixed	0.006	0.032	1648.383	-6401.029	-8106.420	158°03'56"	10459.054	14.929	11/15/2011 12:28:30 PM	11/15/2011 1:44:45 PM
2CK1 --- ST14 (B72)	2CK1	ST14	Fixed	0.009	0.021	5078.467	-5871.479	-5401.873	133°11'22"	9456.988	22.354	11/15/2011 8:49:45 AM	11/15/2011 9:32:00 AM
2CK1 --- BT7 (B71)	2CK1	BT7	Fixed	0.005	0.016	8720.497	-9869.365	-8921.646	132°19'19"	15906.306	75.762	11/15/2011 10:32:30 AM	11/15/2011 2:08:00 PM
2CK1 --- ST2 (B70)	2CK1	ST2	Fixed	0.009	0.034	8439.595	-6179.338	-3922.786	114°55'40"	11170.665	33.227	11/15/2011 8:21:15 AM	11/15/2011 9:33:15 AM
2CK1 --- ST19 (B68)	2CK1	ST19	Fixed	0.008	0.017	5457.292	-6657.692	-6291.141	135°00'08"	10661.681	29.180	11/15/2011 12:57:15 PM	11/15/2011 1:35:00 PM
2CK1 --- BT4 (B66)	2CK1	BT4	Fixed	0.006	0.022	6420.033	-7766.634	-7289.421	134°40'08"	12435.947	46.430	11/15/2011 10:15:15 AM	11/15/2011 11:49:15 AM
2CK1 --- BT12 (B65)	2CK1	BT12	Fixed	0.006	0.033	5682.765	-8621.680	-8880.391	141°30'11"	13618.425	68.001	11/15/2011 12:24:30 PM	11/15/2011 2:06:45 PM
2EM1 --- ST8 (B347)	2EM1	ST8	Fixed	0.004	0.012	4543.808	-1818.230	-20.765	90°16'15"	4893.821	-0.278	11/16/2011 6:59:15 AM	11/16/2011 12:20:30 PM
2EM1 --- ST8 (B33)	2EM1	ST8	Fixed	0.005	0.015	4543.800	-1818.236	-20.758	90°16'15"	4893.816	-0.267	11/15/2011 10:27:45 AM	11/15/2011 11:52:45 AM
2EM1 --- ST13 (B334)	2EM1	ST13	Fixed	0.004	0.016	3715.693	-503.822	1348.976	65°56'46"	3984.676	-17.196	11/15/2011 9:49:30 AM	11/15/2011 11:47:15 AM
2EM1 --- BT2 (B320)	2EM1	BT2	Fixed	0.006	0.013	824.848	2097.796	3390.220	359°52'39"	4070.852	-28.229	11/15/2011 8:50:45 AM	11/15/2011 9:37:15 AM
2EM1 --- ST21 (B306)	2EM1	ST21	Fixed	0.004	0.016	5489.404	-3620.823	-1981.097	110°21'32"	6867.382	36.638	11/16/2011 8:47:00 AM	11/16/2011 12:20:30 PM
2EM1 --- BT11 (B293)	2EM1	BT11	Fixed	0.005	0.019	960.684	-3182.262	-3826.373	155°54'36"	5067.559	83.738	11/16/2011 10:10:15 AM	11/16/2011 11:42:45 AM
2EM1 --- ST7 (B31)	2EM1	ST7	Fixed	0.006	0.034	-4449.198	2743.017	1300.394	287°05'56"	5385.642	-42.163	11/15/2011 8:34:00 AM	11/15/2011 9:49:15 AM
2EM1 --- ST7 (B282)	2EM1	ST7	Fixed	0.006	0.013	-4449.350	2742.640	1300.656	287°05'55"	5385.643	-42.163	11/15/2011 12:44:15 PM	11/15/2011 1:35:45 PM
2EM1 --- BT3 (B271)	2EM1	BT3	Fixed	0.004	0.006	619.605	1210.622	2022.056	3°01'15"	2436.566	-24.984	11/15/2011 10:47:00 AM	11/15/2011 11:40:15 AM
2EM1 --- ST1 (B258)	2EM1	ST1	Fixed	0.009	0.035	-2870.855	4076.030	4082.990	319°37'50"	6443.582	-42.206	11/15/2011 8:27:45 AM	11/15/2011 9:29:30 AM
2EO2 --- 2EM1 (B85)	2EM1	2EO2	Fixed	0.005	0.015	9122.570	-3140.972	686.519	85°07'28"	9671.924	5.367	11/15/2011 7:29:00 AM	11/15/2011 1:49:45 PM
2EM1 --- 2EO2 (B248)	2EM1	2EO2	Fixed	0.004	0.012	9122.572	-3140.964	686.512	85°07'28"	9671.922	5.356	11/17/2011 10:18:47 AM	11/17/2011 2:54:48 PM

2EM1 --- 2EO2 (B99)	2EM1	2EO2	Fixed	0.005	0.014	9122.573	-3140.966	686.506	85°07'28"	9671.924	5.354	11/16/2011 8:25:30 AM	11/16/2011 12:20:30 PM
2EM1 --- ST23 (B242)	2EM1	ST23	Fixed	0.008	0.012	-348.193	-3712.413	-5244.012	170°37'21"	6432.804	125.371	11/16/2011 11:01:45 AM	11/16/2011 11:38:15 AM
2EM1 --- ST17 (B232)	2EM1	ST17	Fixed	0.006	0.008	-222.507	-1085.390	-1614.723	174°18'18"	1957.951	28.596	11/15/2011 1:01:30 PM	11/15/2011 1:35:00 PM
2EM1 --- ST11 (B222)	2EM1	ST11	Fixed	0.004	0.007	2975.046	-1201.830	-36.501	90°42'57"	3208.625	-4.693	11/15/2011 10:51:30 AM	11/15/2011 11:40:15 AM
2EM1 --- ST5 (B210)	2EM1	ST5	Fixed	0.007	0.024	-3835.971	3507.043	2728.509	304°06'19"	5869.637	-43.869	11/15/2011 8:03:45 AM	11/15/2011 9:38:45 AM
2EM1 --- ST12 (B195)	2EM1	ST12	Fixed	0.004	0.015	2201.388	1303.509	3045.734	23°09'10"	3977.326	-24.996	11/15/2011 9:09:45 AM	11/15/2011 11:39:30 AM
2EM1 --- ST4 (B181)	2EM1	ST4	Fixed	0.005	0.016	3778.388	-2468.595	-1311.280	109°45'29"	4699.516	34.641	11/16/2011 9:40:00 AM	11/16/2011 11:59:15 AM
2EM1 --- ST24 (B176)	2EM1	ST24	Fixed	0.007	0.011	-1857.068	-1859.778	-3319.013	194°12'54"	4228.337	204.026	11/17/2011 10:20:00 AM	11/17/2011 10:49:45 AM
2EM1 --- ST9 (B170)	2EM1	ST9	Fixed	0.041	0.086	-2698.953	1050.622	-69.572	268°37'14"	2896.816	-19.838	11/15/2011 12:35:45 PM	11/15/2011 1:49:45 PM
2EM1 --- BT6 (B161)	2EM1	BT6	Fixed	0.003	0.012	2223.269	-423.108	635.871	70°58'00"	2350.633	-9.768	11/15/2011 10:25:15 AM	11/15/2011 12:12:00 PM
2EM1 --- ST15 (B151)	2EM1	ST15	Fixed	0.006	0.022	-98.365	1963.480	2674.420	345°45'04"	3318.905	-30.706	11/15/2011 8:14:00 AM	11/15/2011 9:32:00 AM
2EM1 --- BT9 (B141)	2EM1	BT9	Fixed	0.006	0.010	1210.286	-2270.271	-2419.804	146°13'04"	3531.030	66.630	11/16/2011 10:53:30 AM	11/16/2011 11:22:45 AM
ST18 --- 2EM1 (B57)	2EM1	ST18	Fixed	0.004	0.012	-4245.050	478.307	-1727.852	243°25'39"	4607.813	-3.470	11/16/2011 7:53:00 AM	11/16/2011 12:20:30 PM
2EM1 --- ST18 (B133)	2EM1	ST18	Fixed	0.018	0.022	-4245.238	477.809	-1727.512	243°25'38"	4607.808	-3.441	11/15/2011 1:15:30 PM	11/15/2011 1:38:15 PM
2EM1 --- BT1 (B125)	2EM1	BT1	Fixed	0.008	0.013	-687.982	2656.468	3318.778	337°53'18"	4305.924	-33.837	11/15/2011 11:21:30 AM	11/15/2011 11:43:15 AM
2EM1 --- ST20 (B109)	2EM1	ST20	Fixed	0.004	0.014	1867.088	453.819	1660.727	38°06'23"	2539.441	-20.227	11/15/2011 7:55:45 AM	11/15/2011 9:40:45 AM
2EM1 --- ST20 (B117)	2EM1	ST20	Fixed	0.004	0.007	1867.087	453.814	1660.731	38°06'23"	2539.442	-20.221	11/15/2011 10:11:00 AM	11/15/2011 11:02:00 AM
2EM1 --- ST16 (B44)	2EM1	ST16	Fixed	0.004	0.016	2100.483	-3548.922	-3680.825	143°48'47"	5526.446	96.500	11/16/2011 9:21:00 AM	11/16/2011 11:55:45 AM
2EM1 --- ST22 (B43)	2EM1	ST22	Fixed	0.005	0.018	941.382	-4517.328	-5667.775	159°37'39"	7307.080	121.453	11/16/2011 9:33:45 AM	11/16/2011 12:20:30 PM
2EM1 --- BT8 (B42)	2EM1	BT8	Fixed	0.005	0.016	4984.670	-2704.106	-1004.275	102°06'16"	5758.745	13.796	11/16/2011 9:26:00 AM	11/16/2011 12:05:15 PM
2EM1 --- BT10 (B41)	2EM1	BT10	Fixed	0.005	0.009	3091.038	-2706.658	-1967.237	121°45'59"	4554.369	72.917	11/16/2011 10:46:45 AM	11/16/2011 11:42:00 AM
2EM1 --- ST3 (B39)	2EM1	ST3	Fixed	0.006	0.020	-1118.409	3337.781	4036.429	334°53'28"	5355.323	-36.547	11/15/2011 7:47:00 AM	11/15/2011 9:44:30 AM
2EM1 --- BT5 (B38)	2EM1	BT5	Fixed	0.003	0.013	-1053.809	1583.530	1602.723	321°01'32"	2487.024	-27.156	11/15/2011 10:29:15 AM	11/15/2011 11:56:00 AM
2EM1 --- ST6 (B37)	2EM1	ST6	Fixed	0.008	0.032	-5797.490	2316.839	-73.898	269°29'09"	6243.172	-46.265	11/15/2011 12:28:30 PM	11/15/2011 1:44:45 PM
2EM1 --- ST14 (B36)	2EM1	ST14	Fixed	0.007	0.016	-2367.412	2846.371	2630.667	314°16'34"	4541.236	-38.815	11/15/2011 8:49:45 AM	11/15/2011 9:32:00 AM
2EM1 --- BT7 (B35)	2EM1	BT7	Fixed	0.002	0.004	1274.614	-1151.506	-889.107	123°39'29"	1934.015	14.588	11/15/2011 10:32:30 AM	11/15/2011 1:49:45 PM

2EM1 --- ST2 (B34)	2EM1	ST2	Fixed	0.007	0.027	993.719	2538.528	4109.744	359°49'48"	4931.302	-27.959	11/15/2011 8:21:15 AM	11/15/2011 9:33:15 AM
2EM1 --- ST19 (B32)	2EM1	ST19	Fixed	0.009	0.012	-1988.588	2060.153	1741.391	308°52'11"	3350.926	-31.989	11/15/2011 12:57:15 PM	11/15/2011 1:35:00 PM
2EM1 --- BT4 (B30)	2EM1	BT4	Fixed	0.002	0.004	-1025.841	951.223	743.105	304°32'43"	1583.928	-14.752	11/15/2011 10:15:15 AM	11/15/2011 11:49:15 AM
2EM1 --- BT12 (B29)	2EM1	BT12	Fixed	0.004	0.008	-1763.122	96.166	-847.853	238°42'42"	1958.612	6.838	11/15/2011 12:24:30 PM	11/15/2011 1:49:45 PM
ST8 --- 2EO2 (B344)	2EO2	ST8	Fixed	0.006	0.013	-4578.758	1322.731	-707.270	259°57'11"	4817.865	-5.629	11/16/2011 8:25:30 AM	11/16/2011 12:29:00 PM
2EO2 --- ST8 (B90)	2EO2	ST8	Fixed	0.006	0.017	-4578.759	1322.735	-707.281	259°57'11"	4817.869	-5.638	11/15/2011 10:27:45 AM	11/15/2011 11:52:45 AM
ST8 --- ST16 (B352)	ST8	ST16	Fixed	0.004	0.013	-2443.324	-1730.686	-3660.061	200°12'32"	4727.417	96.773	11/16/2011 9:21:00 AM	11/16/2011 11:55:45 AM
ST8 --- ST22 (B351)	ST8	ST22	Fixed	0.006	0.016	-3602.429	-2699.097	-5647.009	199°01'25"	7220.017	121.731	11/16/2011 9:33:45 AM	11/16/2011 12:29:00 PM
ST8 --- BT8 (B350)	ST8	BT8	Fixed	0.002	0.002	440.864	-885.873	-983.509	148°08'20"	1394.974	14.071	11/16/2011 9:26:00 AM	11/16/2011 12:05:15 PM
ST8 --- BT10 (B349)	ST8	BT10	Fixed	0.004	0.006	-1452.763	-888.422	-1946.473	203°18'30"	2584.994	73.188	11/16/2011 10:46:45 AM	11/16/2011 11:42:00 AM
ST8 --- BT9 (B343)	ST8	BT9	Fixed	0.007	0.011	-3333.518	-452.037	-2399.043	225°12'43"	4130.999	66.901	11/16/2011 10:53:30 AM	11/16/2011 11:22:45 AM
ST8 --- ST4 (B342)	ST8	ST4	Fixed	0.002	0.003	-765.415	-650.361	-1290.518	196°46'13"	1634.824	34.913	11/16/2011 9:40:00 AM	11/16/2011 11:59:15 AM
ST8 --- ST23 (B341)	ST8	ST23	Fixed	0.008	0.012	-4892.000	-1894.178	-5223.247	211°20'01"	7401.201	125.645	11/16/2011 11:01:45 AM	11/16/2011 11:38:15 AM
ST8 --- BT11 (B340)	ST8	BT11	Fixed	0.005	0.017	-3583.122	-1364.026	-3805.611	211°34'13"	5400.992	84.009	11/16/2011 10:10:15 AM	11/16/2011 11:42:45 AM
ST8 --- ST21 (B339)	ST8	ST21	Fixed	0.003	0.009	945.595	-1802.588	-1960.330	146°53'27"	2825.577	36.914	11/16/2011 8:47:00 AM	11/16/2011 12:29:00 PM
ST8 --- BT3 (B273)	ST8	BT3	Fixed	0.006	0.009	-3924.194	3028.860	2042.814	297°17'52"	5361.174	-24.719	11/15/2011 10:47:00 AM	11/15/2011 11:40:15 AM
ST8 --- ST11 (B224)	ST8	ST11	Fixed	0.003	0.005	-1568.749	616.408	-15.746	269°27'09"	1685.468	-4.430	11/15/2011 10:51:30 AM	11/15/2011 11:40:15 AM
ST8 --- BT1 (B127)	ST8	BT1	Fixed	0.010	0.015	-5231.787	4474.704	3339.538	301°39'29"	7651.061	-33.567	11/15/2011 11:21:30 AM	11/15/2011 11:43:15 AM
ST8 --- ST20 (B119)	ST8	ST20	Fixed	0.006	0.011	-2676.708	2272.056	1681.485	301°18'46"	3892.570	-19.962	11/15/2011 10:27:45 AM	11/15/2011 11:02:00 AM
2EO2 --- ST13 (B331)	2EO2	ST13	Fixed	0.006	0.025	-5406.867	2637.150	662.452	277°40'23"	6051.649	-22.569	11/15/2011 9:49:30 AM	11/15/2011 11:47:15 AM
2EO2 --- BT2 (B317)	2EO2	BT2	Fixed	0.008	0.019	-8297.723	5238.776	2703.700	288°40'15"	10178.058	-33.602	11/15/2011 8:50:45 AM	11/15/2011 9:37:15 AM
2EO2 --- ST21 (B303)	2EO2	ST21	Fixed	0.004	0.013	-3633.164	-479.857	-2667.600	224°56'36"	4532.374	31.284	11/16/2011 8:47:00 AM	11/16/2011 12:36:30 PM
2EO2 --- BT11 (B290)	2EO2	BT11	Fixed	0.006	0.022	-8161.885	-41.296	-4512.887	234°18'29"	9325.531	78.379	11/16/2011 10:10:15 AM	11/16/2011 11:42:45 AM
2EO2 --- ST7 (B88)	2EO2	ST7	Fixed	0.007	0.039	-13571.783	5883.983	613.887	273°00'18"	14804.127	-47.513	11/15/2011 8:34:00 AM	11/15/2011 9:49:15 AM
2EO2 --- ST7 (B279)	2EO2	ST7	Fixed	0.007	0.019	-13571.929	5883.612	614.147	273°00'18"	14804.125	-47.521	11/15/2011 12:44:15 PM	11/15/2011 1:35:45 PM
2EO2 --- BT3 (B268)	2EO2	BT3	Fixed	0.007	0.011	-8502.963	4351.595	1335.538	279°40'25"	9644.055	-30.352	11/15/2011 10:47:00 AM	11/15/2011 11:40:15 AM
2EO2 --- ST1 (B255)	2EO2	ST1	Fixed	0.010	0.042	-11993.436	7216.998	3396.481	286°32'34"	14402.635	-47.562	11/15/2011 8:27:45 AM	11/15/2011 9:29:30 AM
2EO2 --- ST24 (B250)	2EO2	ST24	Fixed	0.009	0.014	-10979.643	1281.175	-4005.523	245°18'31"	11754.836	198.681	11/17/2011 10:20:00 AM	11/17/2011 10:49:45 AM

2EO2 --- ST23 (B239)	2EO2	ST23	Fixed	0.008	0.013	-9470.768	-571.451	-5930.522	230°12'20"	11187.483	120.019	11/16/2011 11:01:45 AM	11/16/2011 11:38:15 AM
2EO2 --- ST17 (B229)	2EO2	ST17	Fixed	0.044	0.039	-9345.075	2055.595	-2301.265	253°42'20"	9840.636	23.205	11/15/2011 1:01:30 PM	11/15/2011 1:35:00 PM
2EO2 --- ST11 (B219)	2EO2	ST11	Fixed	0.007	0.011	-6147.513	1939.144	-723.027	262°25'05"	6486.095	-10.069	11/15/2011 10:51:30 AM	11/15/2011 11:40:15 AM
2EO2 --- ST5 (B207)	2EO2	ST5	Fixed	0.008	0.027	-12958.554	6648.016	2041.993	279°43'21"	14705.816	-49.231	11/15/2011 8:03:45 AM	11/15/2011 9:38:45 AM
2EO2 --- ST12 (B192)	2EO2	ST12	Fixed	0.006	0.023	-6921.180	4444.480	2359.217	289°24'21"	8556.396	-30.361	11/15/2011 9:09:45 AM	11/15/2011 11:39:30 AM
2EO2 --- ST4 (B178)	2EO2	ST4	Fixed	0.005	0.017	-5344.180	672.369	-1997.788	245°14'36"	5744.399	29.286	11/16/2011 9:40:00 AM	11/16/2011 11:59:15 AM
2EO2 --- ST9 (B167)	2EO2	ST9	Fixed	0.017	0.045	-11821.519	4191.577	-756.087	265°59'12"	12564.580	-25.190	11/15/2011 12:35:45 PM	11/15/2011 1:59:15 PM
2EO2 --- BT6 (B158)	2EO2	BT6	Fixed	0.007	0.025	-6899.296	2717.871	-50.658	269°37'41"	7415.011	-15.147	11/15/2011 10:25:15 AM	11/15/2011 12:12:00 PM
2EO2 --- ST15 (B148)	2EO2	ST15	Fixed	0.009	0.036	-9220.945	5104.449	1987.909	282°57'33"	10724.614	-36.063	11/15/2011 8:14:00 AM	11/15/2011 9:32:00 AM
2EO2 --- BT9 (B138)	2EO2	BT9	Fixed	0.009	0.014	-7912.287	870.687	-3106.314	243°58'14"	8543.856	61.280	11/16/2011 10:53:30 AM	11/16/2011 11:22:45 AM
ST18 --- 2EO2 (B98)	2EO2	ST18	Fixed	0.006	0.016	-13367.633	3619.281	-2414.364	258°13'14"	14056.897	-8.831	11/16/2011 8:25:30 AM	11/16/2011 1:00:00 PM
2EO2 --- ST18 (B130)	2EO2	ST18	Fixed	0.020	0.019	-13367.825	3618.811	-2414.042	258°13'13"	14056.903	-8.832	11/15/2011 1:15:30 PM	11/15/2011 1:38:15 PM
2EO2 --- BT1 (B122)	2EO2	BT1	Fixed	0.010	0.018	-9810.557	5797.447	2632.258	285°46'11"	11694.771	-39.209	11/15/2011 11:21:30 AM	11/15/2011 11:43:15 AM
2EO2 --- ST20 (B106)	2EO2	ST20	Fixed	0.008	0.026	-7255.484	3594.785	974.213	278°20'56"	8155.033	-25.585	11/15/2011 7:55:45 AM	11/15/2011 9:40:45 AM
2EO2 --- ST20 (B114)	2EO2	ST20	Fixed	0.009	0.012	-7255.479	3594.786	974.208	278°20'56"	8155.028	-25.591	11/15/2011 10:11:00 AM	11/15/2011 11:02:00 AM
2EO2 --- ST16 (B104)	2EO2	ST16	Fixed	0.004	0.017	-7022.088	-407.955	-4367.336	230°24'24"	8278.370	91.142	11/16/2011 9:21:00 AM	11/16/2011 11:55:45 AM
2EO2 --- ST22 (B103)	2EO2	ST22	Fixed	0.005	0.018	-8181.192	-1376.366	-6354.283	222°48'41"	10448.603	116.102	11/16/2011 9:33:45 AM	11/16/2011 12:38:15 PM
2EO2 --- BT8 (B102)	2EO2	BT8	Fixed	0.004	0.014	-4137.895	436.860	-1690.781	243°11'21"	4490.992	8.440	11/16/2011 9:26:00 AM	11/16/2011 12:05:15 PM
2EO2 --- BT10 (B101)	2EO2	BT10	Fixed	0.006	0.010	-6031.527	434.304	-2653.741	240°52'21"	6602.988	67.565	11/16/2011 10:46:45 AM	11/16/2011 11:42:00 AM
2EO2 --- ST3 (B96)	2EO2	ST3	Fixed	0.007	0.023	-10240.988	6478.754	3349.914	288°44'23"	12571.900	-41.909	11/15/2011 7:47:00 AM	11/15/2011 9:44:30 AM
2EO2 --- BT5 (B95)	2EO2	BT5	Fixed	0.007	0.025	-10176.387	4724.497	916.210	275°43'24"	11256.208	-32.514	11/15/2011 10:29:15 AM	11/15/2011 11:56:00 AM
2EO2 --- ST6 (B94)	2EO2	ST6	Fixed	0.012	0.042	-14920.065	5457.825	-760.429	266°53'30"	15904.114	-51.648	11/15/2011 12:28:30 PM	11/15/2011 1:44:45 PM
2EO2 --- ST14 (B93)	2EO2	ST14	Fixed	0.009	0.022	-11489.992	5987.345	1944.152	280°22'58"	13100.564	-44.177	11/15/2011 8:49:45 AM	11/15/2011 9:32:00 AM
2EO2 --- BT7 (B92)	2EO2	BT7	Fixed	0.005	0.022	-7847.954	1989.471	-1575.634	256°46'51"	8247.539	9.213	11/15/2011 10:32:30 AM	11/15/2011 2:22:00 PM
2EO2 --- ST2 (B91)	2EO2	ST2	Fixed	0.009	0.035	-8128.861	5679.489	3423.239	293°07'08"	10489.929	-33.307	11/15/2011 8:21:15 AM	11/15/2011 9:33:15 AM
2EO2 --- ST19 (B89)	2EO2	ST19	Fixed	0.037	0.036	-11111.167	5201.130	1054.889	276°01'40"	12312.687	-37.347	11/15/2011 12:57:15 PM	11/15/2011 1:35:00 PM
2EO2 --- BT4 (B87)	2EO2	BT4	Fixed	0.009	0.028	-10148.411	4092.206	56.582	270°27'19"	10941.843	-20.130	11/15/2011 10:15:15 AM	11/15/2011 11:49:15 AM
2EO2 --- BT12 (B86)	2EO2	BT12	Fixed	0.010	0.075	-10885.692	3237.149	-1534.382	260°49'14"	11459.256	1.456	11/15/2011 12:24:30 PM	11/15/2011 2:06:45 PM
ST13 --- BT5 (B338)	ST13	BT5	Fixed	0.005	0.018	-4769.505	2087.351	253.749	273°25'26"	5212.118	-9.957	11/15/2011 10:29:15 AM	11/15/2011 11:47:15 AM
ST13 --- ST8 (B336)	ST13	ST8	Fixed	0.003	0.010	828.104	-1314.417	-1369.730	142°43'00"	2070.940	16.935	11/15/2011 10:27:45 AM	11/15/2011 11:47:15 AM
ST13 --- BT4 (B335)	ST13	BT4	Fixed	0.005	0.018	-4741.534	1455.050	-605.874	261°40'01"	4996.328	2.438	11/15/2011 10:15:15 AM	11/15/2011 11:47:15 AM

ST13 --- ST20 (B330)	ST13	ST20	Fixed	0.004	0.006	-1848.603	957.639	311.753	280°15'26"	2105.003	-3.028	11/15/2011 10:11:00 AM	11/15/2011 11:02:00 AM
ST13 --- BT1 (B329)	ST13	BT1	Fixed	0.009	0.014	-4403.679	3160.287	1969.805	294°14'03"	5766.768	-16.635	11/15/2011 11:21:30 AM	11/15/2011 11:43:15 AM
ST13 --- BT6 (B328)	ST13	BT6	Fixed	0.002	0.004	-1492.423	80.719	-713.110	238°49'53"	1655.890	7.421	11/15/2011 10:25:15 AM	11/15/2011 11:47:15 AM
ST13 --- ST11 (B326)	ST13	ST11	Fixed	0.003	0.004	-740.647	-698.007	-1385.478	194°31'03"	1718.950	12.502	11/15/2011 10:51:30 AM	11/15/2011 11:40:15 AM
ST13 --- BT3 (B325)	ST13	BT3	Fixed	0.005	0.008	-3096.089	1714.443	673.081	283°00'01"	3602.286	-7.786	11/15/2011 10:47:00 AM	11/15/2011 11:40:15 AM
BT2 --- ST14 (B323)	BT2	ST14	Fixed	0.005	0.012	-3192.261	748.574	-759.551	254°28'47"	3365.464	-10.583	11/15/2011 8:50:45 AM	11/15/2011 9:32:00 AM
ST21 --- ST16 (B311)	ST21	ST16	Fixed	0.003	0.012	-3388.919	71.901	-1699.729	236°55'23"	3791.212	59.860	11/16/2011 9:21:00 AM	11/16/2011 11:55:45 AM
ST21 --- ST22 (B310)	ST21	ST22	Fixed	0.004	0.015	-4548.022	-896.505	-3686.678	221°09'39"	5921.758	84.814	11/16/2011 9:33:45 AM	11/16/2011 12:36:30 PM
ST21 --- BT8 (B309)	ST21	BT8	Fixed	0.002	0.002	-504.732	916.712	976.823	325°41'00"	1431.256	-22.839	11/16/2011 9:26:00 AM	11/16/2011 12:05:15 PM
ST21 --- BT10 (B308)	ST21	BT10	Fixed	0.004	0.006	-2398.360	914.160	13.859	269°50'51"	2566.267	36.281	11/16/2011 10:46:45 AM	11/16/2011 11:42:00 AM
ST21 --- BT9 (B302)	ST21	BT9	Fixed	0.007	0.011	-4279.114	1350.547	-438.711	263°05'07"	4508.148	29.992	11/16/2011 10:53:30 AM	11/16/2011 11:22:45 AM
ST21 --- ST4 (B301)	ST21	ST4	Fixed	0.002	0.009	-1711.012	1152.221	669.816	291°41'55"	2168.678	-1.994	11/16/2011 9:40:00 AM	11/16/2011 11:59:15 AM
ST21 --- ST23 (B300)	ST21	ST23	Fixed	0.008	0.012	-5837.594	-91.592	-3262.914	233°45'02"	6687.129	88.734	11/16/2011 11:01:45 AM	11/16/2011 11:38:15 AM
ST21 --- BT11 (B299)	ST21	BT11	Fixed	0.005	0.017	-4528.716	438.564	-1845.281	242°55'45"	4909.266	47.093	11/16/2011 10:10:15 AM	11/16/2011 11:42:45 AM
BT11 --- BT10 (B295)	BT11	BT10	Fixed	0.004	0.006	2130.352	475.594	1859.138	38°59'53"	2866.985	-10.811	11/16/2011 10:46:45 AM	11/16/2011 11:42:00 AM
BT11 --- BT9 (B289)	BT11	BT9	Fixed	0.004	0.006	249.602	911.978	1406.571	356°27'30"	1694.614	-17.097	11/16/2011 10:53:30 AM	11/16/2011 11:22:45 AM
BT11 --- ST23 (B287)	BT11	ST23	Fixed	0.004	0.007	-1308.875	-530.161	-1417.630	210°40'42"	2000.376	41.645	11/16/2011 11:01:45 AM	11/16/2011 11:38:15 AM
ST7 --- BT2 (B321)	ST7	BT2	Fixed	0.007	0.017	5274.045	-645.219	2089.825	64°08'30"	5709.217	13.933	11/15/2011 8:50:45 AM	11/15/2011 9:37:15 AM
ST7 --- ST19 (B284)	ST7	ST19	Fixed	0.005	0.009	2460.757	-682.484	440.745	78°24'24"	2591.231	10.179	11/15/2011 12:57:15 PM	11/15/2011 1:35:00 PM
ST7 --- ST18 (B278)	ST7	ST18	Fixed	0.008	0.015	204.102	-2264.815	-3028.167	164°14'25"	3786.499	38.713	11/15/2011 1:15:30 PM	11/15/2011 1:35:45 PM
ST7 --- ST17 (B276)	ST7	ST17	Fixed	0.008	0.016	4226.839	-3828.024	-2915.378	123°26'25"	6403.836	70.756	11/15/2011 1:01:30 PM	11/15/2011 1:35:00 PM
ST7 --- ST1 (B259)	ST7	ST1	Fixed	0.006	0.014	1578.332	1332.997	2782.611	16°17'35"	3465.478	-0.020	11/15/2011 8:34:00 AM	11/15/2011 9:29:30 AM
ST7 --- ST14 (B17)	ST7	ST14	Fixed	0.005	0.012	2081.784	103.357	1330.274	50°02'41"	2472.530	3.347	11/15/2011 8:49:45 AM	11/15/2011 9:32:00 AM
ST7 --- ST2 (B16)	ST7	ST2	Fixed	0.008	0.017	5442.914	-204.495	2809.356	56°51'24"	6128.210	14.212	11/15/2011 8:34:00 AM	11/15/2011 9:33:15 AM
BT3 --- ST20 (B267)	BT3	ST20	Fixed	0.004	0.007	1247.485	-756.806	-361.325	106°49'21"	1503.073	4.761	11/15/2011 10:47:00 AM	11/15/2011 11:02:00 AM
BT3 --- BT1 (B266)	BT3	BT1	Fixed	0.006	0.009	-1307.586	1445.838	1296.721	311°39'23"	2341.149	-8.847	11/15/2011 11:21:30 AM	11/15/2011 11:40:15 AM
BT3 --- ST11 (B263)	BT3	ST11	Fixed	0.005	0.008	2355.441	-2412.452	-2058.558	128°45'57"	3950.104	20.291	11/15/2011 10:51:30 AM	11/15/2011 11:40:15 AM

ST1 --- BT2 (B312)	ST1	BT2	Fixed	0.006	0.014	3695.718	-1978.203	-692.793	101°21'27"	4248.441	13.936	11/15/2011 8:50:45 AM	11/15/2011 9:29:30 AM
ST1 --- ST14 (B261)	ST1	ST14	Fixed	0.004	0.009	503.458	-1229.628	-1452.344	152°02'21"	1968.322	3.352	11/15/2011 8:49:45 AM	11/15/2011 9:29:30 AM
ST23 --- BT9 (B238)	ST23	BT9	Fixed	0.008	0.012	1558.475	1442.133	2824.205	15°01'18"	3532.601	-58.735	11/16/2011 11:01:45 AM	11/16/2011 11:22:45 AM
ST17 --- ST18 (B228)	ST17	ST18	Fixed	0.008	0.017	-4022.736	1563.212	-112.791	268°30'07"	4316.856	-32.047	11/15/2011 1:15:30 PM	11/15/2011 1:35:00 PM
ST11 --- BT1 (B217)	ST11	BT1	Fixed	0.009	0.014	-3663.029	3858.295	3355.282	309°51'34"	6289.388	-29.140	11/15/2011 11:21:30 AM	11/15/2011 11:40:15 AM
ST5 --- BT2 (B313)	ST5	BT2	Fixed	0.006	0.013	4660.823	-1409.238	661.703	80°50'31"	4913.653	15.628	11/15/2011 8:50:45 AM	11/15/2011 9:37:15 AM
ST5 --- ST1 (B251)	ST5	ST1	Fixed	0.003	0.006	965.104	568.971	1354.491	22°57'43"	1757.680	1.685	11/15/2011 8:27:45 AM	11/15/2011 9:29:30 AM
ST5 --- ST14 (B213)	ST5	ST14	Fixed	0.003	0.008	1468.560	-660.664	-97.849	94°16'08"	1613.193	5.045	11/15/2011 8:49:45 AM	11/15/2011 9:32:00 AM
ST5 --- ST2 (B212)	ST5	ST2	Fixed	0.005	0.024	4829.693	-968.511	1381.232	71°16'18"	5115.508	15.904	11/15/2011 8:21:15 AM	11/15/2011 9:33:15 AM
ST5 --- ST7 (B211)	ST5	ST7	Fixed	0.003	0.007	-613.226	-764.023	-1428.121	189°31'38"	1731.749	1.701	11/15/2011 8:34:00 AM	11/15/2011 9:38:45 AM
ST5 --- ST15 (B205)	ST5	ST15	Fixed	0.005	0.021	3737.611	-1543.543	-54.100	91°01'32"	4043.896	13.141	11/15/2011 8:14:00 AM	11/15/2011 9:32:00 AM
ST12 --- ST13 (B327)	ST12	ST13	Fixed	0.003	0.012	1514.303	-1807.335	-1696.753	134°25'25"	2904.728	7.806	11/15/2011 9:49:30 AM	11/15/2011 11:39:30 AM
ST12 --- BT2 (B314)	ST12	BT2	Fixed	0.004	0.007	-1376.540	794.287	344.483	284°45'13"	1626.067	-3.235	11/15/2011 9:09:45 AM	11/15/2011 9:37:15 AM
ST12 --- BT3 (B264)	ST12	BT3	Fixed	0.003	0.005	-1581.784	-92.881	-1023.680	229°33'32"	1886.307	0.007	11/15/2011 10:47:00 AM	11/15/2011 11:39:30 AM
ST12 --- ST1 (B252)	ST12	ST1	Fixed	0.009	0.019	-5072.256	2772.488	1037.276	282°19'18"	5872.479	-17.170	11/15/2011 9:09:45 AM	11/15/2011 9:29:30 AM
ST12 --- ST11 (B215)	ST12	ST11	Fixed	0.005	0.008	773.658	-2505.334	-3082.238	156°01'43"	4046.354	20.298	11/15/2011 10:51:30 AM	11/15/2011 11:39:30 AM
ST12 --- ST5 (B204)	ST12	ST5	Fixed	0.008	0.016	-6037.361	2203.528	-317.224	266°45'01"	6434.333	-18.868	11/15/2011 9:09:45 AM	11/15/2011 9:38:45 AM
ST12 --- ST3 (B203)	ST12	ST3	Fixed	0.006	0.012	-3319.799	2034.267	990.697	287°16'25"	4017.302	-11.545	11/15/2011 9:09:45 AM	11/15/2011 9:44:30 AM
ST12 --- BT5 (B202)	ST12	BT5	Fixed	0.004	0.015	-3255.199	280.020	-1443.009	241°09'19"	3571.477	-2.158	11/15/2011 10:29:15 AM	11/15/2011 11:39:30 AM
ST12 --- ST14 (B201)	ST12	ST14	Fixed	0.008	0.017	-4568.799	1542.866	-415.072	264°14'17"	4839.799	-13.824	11/15/2011 9:09:45 AM	11/15/2011 9:32:00 AM
ST12 --- ST2 (B199)	ST12	ST2	Fixed	0.004	0.009	-1207.671	1235.014	1064.010	308°55'23"	2028.629	-2.959	11/15/2011 9:09:45 AM	11/15/2011 9:33:15 AM
ST12 --- ST8 (B198)	ST12	ST8	Fixed	0.005	0.019	2342.407	-3121.757	-3066.483	137°52'09"	4963.051	24.745	11/15/2011 10:27:45 AM	11/15/2011 11:39:30 AM
ST12 --- ST7 (B197)	ST12	ST7	Fixed	0.008	0.017	-6650.582	1439.510	-1745.347	252°50'26"	7024.420	-17.174	11/15/2011 9:09:45 AM	11/15/2011 9:49:15 AM
ST12 --- BT4 (B196)	ST12	BT4	Fixed	0.005	0.017	-3227.229	-352.282	-2302.630	226°07'32"	3979.845	10.239	11/15/2011 10:15:15 AM	11/15/2011 11:39:30 AM
ST12 --- ST20 (B190)	ST12	ST20	Fixed	0.003	0.005	-334.300	-849.690	-1385.003	179°53'39"	1658.795	4.771	11/15/2011 10:11:00 AM	11/15/2011 11:02:00 AM
ST12 --- ST20 (B191)	ST12	ST20	Fixed	0.004	0.007	-334.299	-849.691	-1385.009	179°53'38"	1658.801	4.769	11/15/2011 9:09:45 AM	11/15/2011 9:40:45 AM

ST12 --- BT1 (B189)	ST12	BT1	Fixed	0.007	0.011	-2889.368	1352.959	273.039	275°57'54"	3201.904	-8.845	11/15/2011 11:21:30 AM	11/15/2011 11:39:30 AM
ST12 --- ST15 (B188)	ST12	ST15	Fixed	0.005	0.011	-2299.749	659.985	-371.323	259°32'01"	2421.067	-5.728	11/15/2011 9:09:45 AM	11/15/2011 9:32:00 AM
ST12 --- BT6 (B187)	ST12	BT6	Fixed	0.004	0.013	21.879	-1726.617	-2409.863	167°10'44"	2964.422	15.229	11/15/2011 10:25:15 AM	11/15/2011 11:39:30 AM
ST4 --- BT11 (B288)	ST4	BT11	Fixed	0.004	0.015	-2817.703	-713.660	-2515.097	217°48'20"	3843.160	49.089	11/16/2011 10:10:15 AM	11/16/2011 11:42:45 AM
ST4 --- ST23 (B237)	ST4	ST23	Fixed	0.007	0.012	-4126.578	-1243.819	-3932.730	215°22'18"	5833.403	90.731	11/16/2011 11:01:45 AM	11/16/2011 11:38:15 AM
ST4 --- BT10 (B183)	ST4	BT10	Fixed	0.002	0.004	-687.349	-238.063	-655.956	214°16'12"	978.670	38.277	11/16/2011 10:46:45 AM	11/16/2011 11:42:00 AM
ST4 --- BT9 (B177)	ST4	BT9	Fixed	0.005	0.008	-2568.101	198.321	-1108.525	241°19'56"	2803.771	31.990	11/16/2011 10:53:30 AM	11/16/2011 11:22:45 AM
ST9 --- ST7 (B277)	ST9	ST7	Fixed	0.004	0.009	-1750.401	1692.061	1370.201	306°16'12"	2793.383	-22.372	11/15/2011 12:44:15 PM	11/15/2011 1:35:45 PM
ST9 --- ST17 (B227)	ST9	ST17	Fixed	0.006	0.012	2476.437	-2135.967	-1545.172	121°16'42"	3616.433	48.390	11/15/2011 1:01:30 PM	11/15/2011 1:35:00 PM
ST9 --- ST6 (B174)	ST9	ST6	Fixed	0.004	0.021	-3098.546	1266.248	-4.335	270°13'04"	3346.992	-26.454	11/15/2011 12:35:45 PM	11/15/2011 1:44:45 PM
ST9 --- ST19 (B172)	ST9	ST19	Fixed	0.004	0.008	710.355	1009.577	1810.946	7°30'29"	2191.490	-12.193	11/15/2011 12:57:15 PM	11/15/2011 1:35:00 PM
ST9 --- ST18 (B166)	ST9	ST18	Fixed	0.005	0.010	-1546.299	-572.753	-1657.964	211°34'56"	2338.155	16.340	11/15/2011 1:15:30 PM	11/15/2011 1:38:15 PM
BT6 --- BT3 (B265)	BT6	BT3	Fixed	0.004	0.006	-1603.665	1633.724	1386.190	308°31'58"	2676.041	-15.208	11/15/2011 10:47:00 AM	11/15/2011 11:40:15 AM
BT6 --- ST11 (B216)	BT6	ST11	Fixed	0.003	0.004	751.776	-778.727	-672.367	129°17'36"	1274.138	5.082	11/15/2011 10:51:30 AM	11/15/2011 11:40:15 AM
BT6 --- BT5 (B165)	BT6	BT5	Fixed	0.004	0.015	-3277.079	2006.634	966.856	287°08'29"	3962.120	-17.383	11/15/2011 10:29:15 AM	11/15/2011 11:56:00 AM
BT6 --- ST8 (B163)	BT6	ST8	Fixed	0.003	0.012	2320.527	-1395.138	-656.619	106°28'50"	2785.916	9.516	11/15/2011 10:27:45 AM	11/15/2011 11:52:45 AM
BT6 --- BT4 (B162)	BT6	BT4	Fixed	0.004	0.015	-3249.108	1374.334	107.233	272°09'00"	3529.221	-4.989	11/15/2011 10:25:15 AM	11/15/2011 11:49:15 AM
BT6 --- ST20 (B157)	BT6	ST20	Fixed	0.003	0.005	-356.180	876.921	1024.863	332°00'33"	1394.937	-10.451	11/15/2011 10:25:15 AM	11/15/2011 11:02:00 AM
BT6 --- BT1 (B156)	BT6	BT1	Fixed	0.008	0.013	-2911.252	3079.568	2682.913	309°59'46"	5015.326	-24.059	11/15/2011 11:21:30 AM	11/15/2011 11:43:15 AM
ST15 --- BT2 (B315)	ST15	BT2	Fixed	0.002	0.005	923.208	134.301	715.806	43°24'55"	1175.821	2.493	11/15/2011 8:50:45 AM	11/15/2011 9:32:00 AM
ST15 --- ST1 (B253)	ST15	ST1	Fixed	0.006	0.026	-2772.497	2112.539	1408.577	296°45'10"	3759.235	-11.486	11/15/2011 8:27:45 AM	11/15/2011 9:29:30 AM
ST15 --- ST14 (B154)	ST15	ST14	Fixed	0.004	0.010	-2269.052	882.875	-43.745	268°54'05"	2434.997	-8.090	11/15/2011 8:49:45 AM	11/15/2011 9:32:00 AM
ST15 --- ST2 (B153)	ST15	ST2	Fixed	0.004	0.010	1092.073	575.017	1435.347	25°04'17"	1892.895	2.787	11/15/2011 8:21:15 AM	11/15/2011 9:32:00 AM
ST15 --- ST7 (B152)	ST15	ST7	Fixed	0.007	0.016	-4350.839	779.513	-1374.012	249°19'53"	4628.464	-11.428	11/15/2011 8:34:00 AM	11/15/2011 9:32:00 AM
ST18 --- ST8 (B346)	ST18	ST8	Fixed	0.006	0.015	8788.865	-2296.540	1707.086	77°14'12"	9242.369	3.192	11/16/2011 7:53:00 AM	11/16/2011 12:29:00 PM
ST18 --- ST21 (B305)	ST18	ST21	Fixed	0.004	0.016	9734.460	-4099.138	-253.243	91°45'17"	10564.569	40.114	11/16/2011 8:47:00 AM	11/16/2011 12:36:30 PM
ST18 --- BT11 (B292)	ST18	BT11	Fixed	0.005	0.019	5205.736	-3660.571	-2098.522	112°29'07"	6699.940	87.209	11/16/2011 10:10:15 AM	11/16/2011 11:42:45 AM

ST18 --- ST23 (B241)	ST18	ST23	Fixed	0.008	0.012	3896.857	-4190.716	-3516.165	129°38'12"	6714.727	128.836	11/16/2011 11:01:45 AM	11/16/2011 11:38:15 AM
ST18 --- ST4 (B180)	ST18	ST4	Fixed	0.005	0.018	8023.438	-2946.911	416.576	86°48'36"	8556.988	38.121	11/16/2011 9:40:00 AM	11/16/2011 11:59:15 AM
ST18 --- BT9 (B140)	ST18	BT9	Fixed	0.008	0.013	5455.335	-2748.577	-691.957	98°08'48"	6146.861	70.097	11/16/2011 10:53:30 AM	11/16/2011 11:22:45 AM
ST18 --- ST16 (B62)	ST18	ST16	Fixed	0.004	0.017	6345.534	-4027.233	-1952.973	107°58'31"	7764.003	99.973	11/16/2011 9:21:00 AM	11/16/2011 11:55:45 AM
ST18 --- ST22 (B61)	ST18	ST22	Fixed	0.005	0.017	5186.433	-4995.642	-3939.919	125°40'25"	8206.874	124.931	11/16/2011 9:33:45 AM	11/16/2011 12:38:15 PM
ST18 --- BT8 (B60)	ST18	BT8	Fixed	0.004	0.017	9229.726	-3182.418	723.578	84°58'23"	9789.093	17.269	11/16/2011 9:26:00 AM	11/16/2011 12:05:15 PM
ST18 --- BT10 (B59)	ST18	BT10	Fixed	0.007	0.010	7336.090	-3184.966	-239.389	92°23'10"	8000.290	76.386	11/16/2011 10:46:45 AM	11/16/2011 11:42:00 AM
ST20 --- BT2 (B316)	ST20	BT2	Fixed	0.004	0.009	-1042.242	1643.979	1729.492	322°45'47"	2603.687	-8.004	11/15/2011 8:50:45 AM	11/15/2011 9:37:15 AM
ST20 --- ST1 (B254)	ST20	ST1	Fixed	0.006	0.030	-4737.952	3622.204	2422.271	296°53'54"	6436.653	-21.967	11/15/2011 8:27:45 AM	11/15/2011 9:29:30 AM
ST20 --- ST11 (B218)	ST20	ST11	Fixed	0.007	0.012	1107.957	-1655.646	-1697.229	141°10'06"	2616.910	15.532	11/15/2011 10:51:30 AM	11/15/2011 11:02:00 AM
ST20 --- ST5 (B206)	ST20	ST5	Fixed	0.005	0.022	-5703.063	3053.224	1067.784	281°23'02"	6556.034	-23.640	11/15/2011 8:03:45 AM	11/15/2011 9:38:45 AM
ST20 --- ST15 (B147)	ST20	ST15	Fixed	0.005	0.021	-1965.458	1509.657	1013.697	297°04'59"	2677.440	-10.472	11/15/2011 8:14:00 AM	11/15/2011 9:32:00 AM
ST20 --- ST14 (B112)	ST20	ST14	Fixed	0.006	0.015	-4234.505	2392.554	969.942	283°40'51"	4959.115	-18.586	11/15/2011 8:49:45 AM	11/15/2011 9:32:00 AM
ST20 --- ST2 (B111)	ST20	ST2	Fixed	0.004	0.019	-873.373	2084.705	2449.021	331°40'17"	3332.425	-7.726	11/15/2011 8:21:15 AM	11/15/2011 9:33:15 AM
ST20 --- ST7 (B110)	ST20	ST7	Fixed	0.008	0.041	-6316.284	2289.205	-360.335	266°28'30"	6727.542	-21.943	11/15/2011 8:34:00 AM	11/15/2011 9:40:45 AM
ST16 --- BT11 (B298)	ST16	BT11	Fixed	0.002	0.003	-1139.796	366.664	-145.552	262°06'53"	1205.973	-12.768	11/16/2011 10:10:15 AM	11/16/2011 11:42:45 AM
ST16 --- ST23 (B247)	ST16	ST23	Fixed	0.005	0.008	-2448.672	-163.496	-1563.182	229°35'45"	2909.300	28.877	11/16/2011 11:01:45 AM	11/16/2011 11:38:15 AM
ST16 --- ST4 (B186)	ST16	ST4	Fixed	0.003	0.012	1677.907	1080.323	2369.543	22°00'48"	3097.087	-61.857	11/16/2011 9:40:00 AM	11/16/2011 11:55:45 AM
ST16 --- BT9 (B146)	ST16	BT9	Fixed	0.004	0.007	-890.195	1278.641	1261.019	319°35'31"	2004.003	-29.864	11/16/2011 10:53:30 AM	11/16/2011 11:22:45 AM
ST16 --- BT10 (B15)	ST16	BT10	Fixed	0.003	0.005	990.556	842.257	1713.586	16°28'23"	2150.744	-23.578	11/16/2011 10:46:45 AM	11/16/2011 11:42:00 AM
ST22 --- BT11 (B297)	ST22	BT11	Fixed	0.003	0.010	19.303	1335.068	1841.393	347°56'58"	2274.037	-37.722	11/16/2011 10:10:15 AM	11/16/2011 11:42:45 AM
ST22 --- ST23 (B246)	ST22	ST23	Fixed	0.004	0.006	-1289.577	804.901	423.766	288°36'34"	1577.979	3.932	11/16/2011 11:01:45 AM	11/16/2011 11:38:15 AM
ST22 --- ST4 (B185)	ST22	ST4	Fixed	0.004	0.016	2837.005	2048.728	4356.494	19°40'09"	5586.822	-86.809	11/16/2011 9:40:00 AM	11/16/2011 11:59:15 AM
ST22 --- BT9 (B145)	ST22	BT9	Fixed	0.007	0.010	268.901	2247.044	3247.967	351°34'58"	3957.942	-54.814	11/16/2011 10:53:30 AM	11/16/2011 11:22:45 AM
ST22 --- BT10 (B14)	ST22	BT10	Fixed	0.005	0.009	2149.653	1810.659	3700.535	16°37'39"	4646.251	-48.528	11/16/2011 10:46:45 AM	11/16/2011 11:42:00 AM
ST22 --- BT8 (B11)	ST22	BT8	Fixed	0.004	0.015	4043.290	1813.219	4663.500	28°41'52"	6431.669	-107.655	11/16/2011 9:33:45 AM	11/16/2011 12:05:15 PM
ST22 --- ST16 (B4)	ST22	ST16	Fixed	0.002	0.009	1159.097	968.400	1986.949	16°45'51"	2495.521	-24.948	11/16/2011 9:33:45 AM	11/16/2011 11:55:45 AM

BT8 --- BT11 (B296)	BT8	BT11	Fixed	0.005	0.016	-4023.984	-478.152	-2822.103	226°12'43"	4937.300	69.936	11/16/2011 10:10:15 AM	11/16/2011 11:42:45 AM
BT8 --- ST23 (B245)	BT8	ST23	Fixed	0.008	0.012	-5332.861	-1008.304	-4239.739	221°45'20"	6885.625	111.572	11/16/2011 11:01:45 AM	11/16/2011 11:38:15 AM
BT8 --- ST4 (B184)	BT8	ST4	Fixed	0.002	0.002	-1206.278	235.511	-307.009	252°31'17"	1266.560	20.842	11/16/2011 9:40:00 AM	11/16/2011 11:59:15 AM
BT8 --- BT9 (B144)	BT8	BT9	Fixed	0.007	0.011	-3774.381	433.834	-1415.534	244°48'47"	4053.735	52.831	11/16/2011 10:53:30 AM	11/16/2011 11:22:45 AM
BT8 --- BT10 (B13)	BT8	BT10	Fixed	0.003	0.005	-1893.626	-2.551	-962.964	235°56'42"	2123.437	59.119	11/16/2011 10:46:45 AM	11/16/2011 11:42:00 AM
BT8 --- ST16 (B12)	BT8	ST16	Fixed	0.003	0.012	-2884.187	-844.811	-2676.553	216°05'05"	4023.304	82.698	11/16/2011 9:26:00 AM	11/16/2011 11:55:45 AM
BT10 --- ST23 (B244)	BT10	ST23	Fixed	0.007	0.011	-3439.230	-1005.755	-3276.772	215°35'26"	4854.949	52.455	11/16/2011 11:01:45 AM	11/16/2011 11:38:15 AM
BT10 --- BT9 (B143)	BT10	BT9	Fixed	0.005	0.007	-1880.752	436.385	-452.569	254°18'18"	1982.888	-6.288	11/16/2011 10:53:30 AM	11/16/2011 11:22:45 AM
2EO2 --- CG NW1 (B84)	2EO2	CG NW1	Fixed	0.004	0.014	-22328.364	-5244.997	-20037.906	218°11'53"	30454.127	49.283	11/15/2011 7:20:15 AM	11/15/2011 3:10:45 PM
CG NW1 --- 2EO2 (B100)	2EO2	CG NW1	Fixed	0.005	0.013	-22328.367	-5244.989	-20037.898	218°11'53"	30454.123	49.282	11/16/2011 8:25:30 AM	11/16/2011 1:00:00 PM
CG NW1 --- 2EM1 (B45)	2EM1	CG NW1	Fixed	0.005	0.014	-13205.787	-8385.966	-19351.388	201°37'48"	24881.832	54.644	11/15/2011 7:29:00 AM	11/15/2011 1:49:45 PM
CG NW1 --- 2EM1 (B40)	2EM1	CG NW1	Fixed	0.004	0.012	-13205.785	-8385.962	-19351.387	201°37'48"	24881.829	54.641	11/16/2011 6:37:30 AM	11/16/2011 12:20:30 PM
CG NW1 --- ST8 (B348)	CG NW1	ST8	Fixed	0.006	0.013	17749.602	6567.730	19330.616	31°16'35"	27050.934	-54.923	11/16/2011 6:59:15 AM	11/16/2011 12:29:00 PM
CG NW1 --- ST8 (B50)	CG NW1	ST8	Fixed	0.008	0.020	17749.592	6567.729	19330.623	31°16'34"	27050.933	-54.916	11/15/2011 10:27:45 AM	11/15/2011 11:52:45 AM
CG NW1 --- ST13 (B333)	CG NW1	ST13	Fixed	0.007	0.031	16921.482	7882.142	20700.364	27°18'30"	27872.217	-71.840	11/15/2011 9:49:30 AM	11/15/2011 11:47:15 AM
CG NW1 --- BT2 (B319)	CG NW1	BT2	Fixed	0.007	0.017	14030.637	10483.776	22741.605	18°33'48"	28702.493	-82.886	11/15/2011 8:50:45 AM	11/15/2011 9:37:15 AM
CG NW1 --- ST21 (B307)	CG NW1	ST21	Fixed	0.005	0.017	18695.194	4765.136	17370.284	36°54'47"	25958.565	-18.005	11/16/2011 8:47:00 AM	11/16/2011 12:36:30 PM
CG NW1 --- BT11 (B294)	CG NW1	BT11	Fixed	0.009	0.026	14166.471	5203.685	15525.013	31°13'25"	21649.984	29.108	11/16/2011 10:10:15 AM	11/16/2011 11:42:45 AM
CG NW1 --- ST7 (B48)	CG NW1	ST7	Fixed	0.007	0.036	8756.576	11128.977	20651.794	9°11'41"	25038.712	-96.792	11/15/2011 8:34:00 AM	11/15/2011 9:49:15 AM
CG NW1 --- ST7 (B281)	CG NW1	ST7	Fixed	0.005	0.018	8756.425	11128.593	20652.055	9°11'41"	25038.705	-96.787	11/15/2011 12:44:15 PM	11/15/2011 1:35:45 PM
CG NW1 --- BT3 (B270)	CG NW1	BT3	Fixed	0.011	0.013	13825.386	9596.585	21373.459	19°56'18"	27202.128	-79.617	11/15/2011 10:47:00 AM	11/15/2011 11:40:15 AM
CG NW1 --- ST1 (B257)	CG NW1	ST1	Fixed	0.006	0.060	10334.917	12461.988	23434.394	10°03'13"	28481.003	-96.831	11/15/2011 8:27:45 AM	11/15/2011 9:29:30 AM
CG NW1 --- ST23 (B243)	CG NW1	ST23	Fixed	0.066	0.047	12857.588	4673.516	14107.434	31°17'08"	19649.762	70.790	11/16/2011 11:01:45 AM	11/16/2011 11:38:15 AM
CG NW1 --- ST17 (B231)	CG NW1	ST17	Fixed	0.011	0.022	12983.265	7300.568	17736.650	23°48'02"	23159.781	-26.045	11/15/2011 1:01:30 PM	11/15/2011 1:35:00 PM
CG NW1 --- ST11 (B221)	CG NW1	ST11	Fixed	0.010	0.011	16180.838	7184.136	19314.874	28°08'44"	26199.211	-59.346	11/15/2011 10:51:30 AM	11/15/2011 11:40:15 AM
CG NW1 --- ST5 (B209)	CG NW1	ST5	Fixed	0.007	0.025	9369.809	11893.020	22079.893	9°12'53"	26770.432	-98.522	11/15/2011 8:03:45 AM	11/15/2011 9:38:45 AM
CG NW1 --- ST12 (B194)	CG NW1	ST12	Fixed	0.006	0.020	15407.168	9689.478	22397.132	21°47'11"	28857.953	-79.635	11/15/2011 9:09:45 AM	11/15/2011 11:39:30 AM
CG NW1 --- ST4 (B182)	CG NW1	ST4	Fixed	0.006	0.020	16984.167	5917.351	18040.115	32°12'09"	25472.139	-19.981	11/16/2011 9:40:00 AM	11/16/2011 11:59:15 AM
CG NW1 --- ST9 (B169)	CG NW1	ST9	Fixed	0.005	0.031	10506.830	9436.543	19281.829	15°10'15"	23898.716	-74.438	11/15/2011 12:35:45 PM	11/15/2011 1:59:15 PM

CG NW1 --- BT6 (B160)	CG NW1	BT6	Fixed	0.018	0.037	15429.064	7962.870	19987.236	25°26'18"	26473.645	-64.437	11/15/2011 10:25:15 AM	11/15/2011 12:12:00 PM
CG NW1 --- ST15 (B150)	CG NW1	ST15	Fixed	0.008	0.049	13107.413	10349.450	22025.812	17°32'27"	27639.531	-85.348	11/15/2011 8:14:00 AM	11/15/2011 9:32:00 AM
CG NW1 --- BT9 (B142)	CG NW1	BT9	Fixed	0.008	0.013	14416.066	6115.678	16931.576	28°49'05"	23061.309	11.997	11/16/2011 10:53:30 AM	11/16/2011 11:22:45 AM
CG NW1 --- ST18 (B132)	CG NW1	ST18	Fixed	0.010	0.024	8960.531	8863.786	17623.854	13°25'38"	21665.419	-58.100	11/15/2011 1:15:30 PM	11/15/2011 1:38:15 PM
CG NW1 --- BT1 (B124)	CG NW1	BT1	Fixed	0.013	0.016	12517.795	11042.431	22670.160	15°30'20"	28150.571	-88.479	11/15/2011 11:21:30 AM	11/15/2011 11:43:15 AM
CG NW1 --- ST20 (B108)	CG NW1	ST20	Fixed	0.007	0.025	15072.867	8839.776	21012.122	23°05'12"	27326.485	-74.858	11/15/2011 7:55:45 AM	11/15/2011 9:40:45 AM
CG NW1 --- ST20 (B116)	CG NW1	ST20	Fixed	0.011	0.013	15072.867	8839.782	21012.125	23°05'12"	27326.490	-74.861	11/15/2011 10:11:00 AM	11/15/2011 11:02:00 AM
CG NW1 --- ST3 (B56)	CG NW1	ST3	Fixed	0.006	0.021	12087.372	11723.754	23387.818	13°47'54"	28817.077	-91.194	11/15/2011 7:47:00 AM	11/15/2011 9:44:30 AM
CG NW1 --- BT5 (B55)	CG NW1	BT5	Fixed	0.073	0.105	12151.965	9969.480	20954.152	16°49'52"	26192.356	-81.762	11/15/2011 10:29:15 AM	11/15/2011 11:56:00 AM
CG NW1 --- ST6 (B54)	CG NW1	ST6	Fixed	0.006	0.031	7408.289	10702.802	19277.484	7°10'49"	23258.839	-100.907	11/15/2011 12:28:30 PM	11/15/2011 1:44:45 PM
CG NW1 --- ST14 (B53)	CG NW1	ST14	Fixed	0.008	0.020	10838.370	11232.345	21982.054	12°37'57"	26958.167	-93.464	11/15/2011 8:49:45 AM	11/15/2011 9:32:00 AM
CG NW1 --- BT7 (B52)	CG NW1	BT7	Fixed	0.004	0.019	14480.396	7234.460	18462.272	25°59'42"	24551.764	-40.060	11/15/2011 10:32:30 AM	11/15/2011 2:22:00 PM
CG NW1 --- ST2 (B51)	CG NW1	ST2	Fixed	0.008	0.039	14199.500	10924.492	23461.142	18°01'10"	29517.342	-82.594	11/15/2011 8:21:15 AM	11/15/2011 9:33:15 AM
CG NW1 --- ST19 (B49)	CG NW1	ST19	Fixed	0.008	0.021	11217.186	10446.112	21092.780	14°31'32"	26072.105	-86.622	11/15/2011 12:57:15 PM	11/15/2011 1:35:00 PM
CG NW1 --- BT4 (B47)	CG NW1	BT4	Fixed	0.014	0.026	12179.942	9337.194	20094.493	18°04'32"	25283.034	-69.400	11/15/2011 10:15:15 AM	11/15/2011 11:49:15 AM
CG NW1 --- BT12 (B46)	CG NW1	BT12	Fixed	0.005	0.032	11442.666	8482.148	18503.520	18°40'38"	23349.175	-47.827	11/15/2011 12:24:30 PM	11/15/2011 2:06:45 PM
CG NW1 --- ST16 (B28)	CG NW1	ST16	Fixed	0.004	0.019	15306.264	4837.019	15670.562	33°36'43"	22431.372	41.876	11/16/2011 9:21:00 AM	11/16/2011 11:55:45 AM
CG NW1 --- ST22 (B27)	CG NW1	ST22	Fixed	0.007	0.019	14147.164	3868.616	13683.610	35°41'12"	20056.971	66.826	11/16/2011 9:33:45 AM	11/16/2011 12:38:15 PM
CG NW1 --- BT8 (B26)	CG NW1	BT8	Fixed	0.004	0.017	18190.462	5681.849	18347.108	33°58'29"	26451.725	-40.844	11/16/2011 9:26:00 AM	11/16/2011 12:05:15 PM
CG NW1 --- BT10 (B25)	CG NW1	BT10	Fixed	0.018	0.016	16296.822	5679.288	17384.149	32°07'23"	24494.077	18.288	11/16/2011 10:46:45 AM	11/16/2011 11:42:00 AM
ST3 --- BT2 (B324)	ST3	BT2	Fixed	0.004	0.008	1943.262	-1239.974	-646.217	108°57'45"	2393.877	8.303	11/15/2011 8:50:45 AM	11/15/2011 9:37:15 AM
ST3 --- ST1 (B262)	ST3	ST1	Fixed	0.003	0.007	-1752.455	738.232	46.573	271°47'41"	1902.051	-5.637	11/15/2011 8:27:45 AM	11/15/2011 9:29:30 AM
ST3 --- ST5 (B214)	ST3	ST5	Fixed	0.004	0.014	-2717.559	169.262	-1307.920	238°56'01"	3020.483	-7.324	11/15/2011 8:03:45 AM	11/15/2011 9:38:45 AM
ST3 --- ST15 (B155)	ST3	ST15	Fixed	0.003	0.014	1020.052	-1374.280	-1362.021	138°15'52"	2187.155	5.815	11/15/2011 8:14:00 AM	11/15/2011 9:32:00 AM
ST3 --- ST20 (B113)	ST3	ST20	Fixed	0.005	0.018	2985.500	-2883.962	-2375.704	126°34'54"	4782.404	16.317	11/15/2011 7:55:45 AM	11/15/2011 9:40:45 AM
ST3 --- ST7 (B18)	ST3	ST7	Fixed	0.006	0.031	-3330.784	-594.760	-2736.041	221°20'48"	4351.037	-5.624	11/15/2011 8:34:00 AM	11/15/2011 9:44:30 AM
ST3 --- ST2 (B6)	ST3	ST2	Fixed	0.003	0.014	2112.131	-799.249	73.312	87°54'22"	2259.335	8.582	11/15/2011 8:21:15 AM	11/15/2011 9:33:15 AM
ST3 --- ST14 (B1)	ST3	ST14	Fixed	0.004	0.009	-1248.998	-491.399	-1405.769	210°13'57"	1943.503	-2.282	11/15/2011 8:49:45 AM	11/15/2011 9:32:00 AM
BT5 --- BT3 (B275)	BT5	BT3	Fixed	0.003	0.005	1673.415	-372.902	419.328	73°32'36"	1764.887	2.165	11/15/2011 10:47:00 AM	11/15/2011 11:40:15 AM

BT5 --- ST11 (B226)	BT5	ST11	Fixed	0.006	0.009	4028.859	-2785.352	-1639.232	112°27'24"	5164.605	22.453	11/15/2011 10:51:30 AM	11/15/2011 11:40:15 AM
BT5 --- BT1 (B129)	BT5	BT1	Fixed	0.005	0.007	365.829	1072.939	1716.049	358°24'56"	2056.527	-6.686	11/15/2011 11:21:30 AM	11/15/2011 11:43:15 AM
BT5 --- ST20 (B121)	BT5	ST20	Fixed	0.006	0.010	2920.900	-1129.707	58.003	88°48'24"	3132.094	6.925	11/15/2011 10:29:15 AM	11/15/2011 11:02:00 AM
BT5 --- ST8 (B8)	BT5	ST8	Fixed	0.005	0.019	5597.612	-3401.768	-1623.482	106°50'47"	6747.932	26.890	11/15/2011 10:29:15 AM	11/15/2011 11:52:45 AM
ST6 --- ST7 (B286)	ST6	ST7	Fixed	0.004	0.007	1348.144	425.813	1374.534	33°42'35"	1971.721	4.080	11/15/2011 12:44:15 PM	11/15/2011 1:35:45 PM
ST6 --- ST17 (B236)	ST6	ST17	Fixed	0.008	0.016	5574.984	-3402.213	-1540.840	106°20'40"	6709.573	74.839	11/15/2011 1:01:30 PM	11/15/2011 1:35:00 PM
ST6 --- ST18 (B137)	ST6	ST18	Fixed	0.006	0.014	1552.247	-1838.998	-1653.631	133°20'40"	2919.418	42.791	11/15/2011 1:15:30 PM	11/15/2011 1:38:15 PM
ST6 --- ST19 (B10)	ST6	ST19	Fixed	0.007	0.013	3808.901	-256.672	1815.281	59°14'57"	4226.886	14.262	11/15/2011 12:57:15 PM	11/15/2011 1:35:00 PM
BT7 --- ST13 (B337)	BT7	ST13	Fixed	0.004	0.014	2441.083	647.685	2238.082	36°58'20"	3374.154	-31.786	11/15/2011 10:32:30 AM	11/15/2011 11:47:15 AM
BT7 --- ST7 (B285)	BT7	ST7	Fixed	0.007	0.015	-5723.962	3894.144	2189.760	291°27'44"	7260.394	-56.751	11/15/2011 12:44:15 PM	11/15/2011 1:35:45 PM
BT7 --- BT3 (B274)	BT7	BT3	Fixed	0.005	0.008	-655.006	2362.126	2911.165	337°05'55"	3805.276	-39.570	11/15/2011 10:47:00 AM	11/15/2011 11:40:15 AM
BT7 --- ST17 (B235)	BT7	ST17	Fixed	0.004	0.007	-1497.119	66.117	-725.617	238°14'47"	1664.836	14.006	11/15/2011 1:01:30 PM	11/15/2011 1:35:00 PM
BT7 --- ST11 (B225)	BT7	ST11	Fixed	0.003	0.005	1700.435	-50.326	852.607	57°10'09"	1902.658	-19.279	11/15/2011 10:51:30 AM	11/15/2011 11:40:15 AM
BT7 --- ST12 (B200)	BT7	ST12	Fixed	0.005	0.019	926.780	2455.023	3934.836	359°27'09"	4729.118	-39.594	11/15/2011 10:32:30 AM	11/15/2011 11:39:30 AM
BT7 --- ST9 (B173)	BT7	ST9	Fixed	0.005	0.022	-3973.554	2202.095	819.546	282°32'56"	4615.851	-34.397	11/15/2011 12:35:45 PM	11/15/2011 1:59:15 PM
BT7 --- BT6 (B164)	BT7	BT6	Fixed	0.003	0.004	948.657	728.400	1524.976	18°25'49"	1937.778	-24.359	11/15/2011 10:32:30 AM	11/15/2011 12:12:00 PM
BT7 --- ST18 (B136)	BT7	ST18	Fixed	0.009	0.018	-5519.858	1629.329	-838.409	260°12'54"	5815.644	-18.041	11/15/2011 1:15:30 PM	11/15/2011 1:38:15 PM
BT7 --- BT1 (B128)	BT7	BT1	Fixed	0.009	0.014	-1962.594	3807.973	4207.891	327°27'32"	6004.321	-48.421	11/15/2011 11:21:30 AM	11/15/2011 11:43:15 AM
BT7 --- ST20 (B120)	BT7	ST20	Fixed	0.006	0.010	592.476	1605.319	2549.837	359°12'50"	3070.395	-34.809	11/15/2011 10:32:30 AM	11/15/2011 11:02:00 AM
BT7 --- BT12 (B23)	BT7	BT12	Fixed	0.004	0.021	-3037.733	1247.678	41.250	270°57'50"	3284.010	-7.758	11/15/2011 12:24:30 PM	11/15/2011 2:06:45 PM
BT7 --- BT4 (B20)	BT7	BT4	Fixed	0.004	0.015	-2300.450	2102.738	1632.205	304°04'01"	3517.837	-29.353	11/15/2011 10:32:30 AM	11/15/2011 11:49:15 AM
BT7 --- ST19 (B9)	BT7	ST19	Fixed	0.007	0.014	-3263.203	3211.661	2630.504	306°58'21"	5279.874	-46.574	11/15/2011 12:57:15 PM	11/15/2011 1:35:00 PM
BT7 --- ST8 (B7)	BT7	ST8	Fixed	0.004	0.014	3269.186	-666.734	868.353	72°17'53"	3447.369	-14.850	11/15/2011 10:32:30 AM	11/15/2011 11:52:45 AM
BT7 --- BT5 (B3)	BT7	BT5	Fixed	0.004	0.016	-2328.421	2735.038	2491.829	313°26'45"	4371.156	-41.747	11/15/2011 10:32:30 AM	11/15/2011 11:56:00 AM
BT7 --- ST6 (B2)	BT7	ST6	Fixed	0.006	0.029	-7072.105	3468.340	815.215	277°22'50"	7918.152	-60.845	11/15/2011 12:28:30 PM	11/15/2011 1:44:45 PM
ST2 --- BT2 (B322)	ST2	BT2	Fixed	0.002	0.004	-168.869	-440.726	-719.527	179°36'16"	860.457	-0.276	11/15/2011 8:50:45 AM	11/15/2011 9:33:15 AM
ST2 --- ST1 (B260)	ST2	ST1	Fixed	0.005	0.024	-3864.583	1537.490	-26.745	269°41'48"	4159.009	-14.230	11/15/2011 8:27:45 AM	11/15/2011 9:29:30 AM
ST2 --- ST14 (B5)	ST2	ST14	Fixed	0.005	0.012	-3361.130	307.848	-1479.079	241°27'07"	3684.823	-10.860	11/15/2011 8:49:45 AM	11/15/2011 9:32:00 AM

ST19 --- ST17 (B234)	ST19	ST17	Fixed	0.007	0.014	1766.081	-3145.542	-3356.120	145°18'11"	4926.475	60.580	11/15/2011 1:01:30 PM	11/15/2011 1:35:00 PM
ST19 --- ST18 (B135)	ST19	ST18	Fixed	0.009	0.017	-2256.655	-1582.329	-3468.912	199°56'33"	4430.160	28.532	11/15/2011 1:15:30 PM	11/15/2011 1:35:00 PM
BT4 --- BT3 (B272)	BT4	BT3	Fixed	0.004	0.005	1645.446	259.401	1278.950	43°01'30"	2099.966	-10.233	11/15/2011 10:47:00 AM	11/15/2011 11:40:15 AM
BT4 --- ST11 (B223)	BT4	ST11	Fixed	0.006	0.009	4000.888	-2153.053	-779.607	101°44'13"	4609.526	10.059	11/15/2011 10:51:30 AM	11/15/2011 11:40:15 AM
BT4 --- BT1 (B126)	BT4	BT1	Fixed	0.006	0.011	337.863	1705.245	2575.670	354°09'09"	3107.179	-19.087	11/15/2011 11:21:30 AM	11/15/2011 11:43:15 AM
BT4 --- ST20 (B118)	BT4	ST20	Fixed	0.007	0.009	2892.928	-497.408	917.627	69°02'00"	3075.270	-5.468	11/15/2011 10:15:15 AM	11/15/2011 11:02:00 AM
BT4 --- BT5 (B21)	BT4	BT5	Fixed	0.002	0.003	-27.969	632.303	859.622	345°54'53"	1067.359	-12.398	11/15/2011 10:29:15 AM	11/15/2011 11:49:15 AM
BT4 --- ST8 (B19)	BT4	ST8	Fixed	0.006	0.020	5569.639	-2769.471	-763.857	98°26'48"	6266.509	14.499	11/15/2011 10:27:45 AM	11/15/2011 11:49:15 AM
BT12 --- ST7 (B283)	BT12	ST7	Fixed	0.006	0.014	-2686.225	2646.470	2148.502	306°48'37"	4339.468	-49.002	11/15/2011 12:44:15 PM	11/15/2011 1:35:45 PM
BT12 --- ST17 (B233)	BT12	ST17	Fixed	0.004	0.010	1540.613	-1181.560	-766.867	116°28'59"	2087.240	21.764	11/15/2011 1:01:30 PM	11/15/2011 1:35:00 PM
BT12 --- ST9 (B171)	BT12	ST9	Fixed	0.002	0.005	-935.822	954.410	778.300	307°46'25"	1546.423	-26.631	11/15/2011 12:35:45 PM	11/15/2011 1:59:15 PM
BT12 --- ST18 (B134)	BT12	ST18	Fixed	0.006	0.013	-2482.120	381.661	-879.665	246°53'13"	2660.710	-10.295	11/15/2011 1:15:30 PM	11/15/2011 1:38:15 PM
BT12 --- ST6 (B24)	BT12	ST6	Fixed	0.005	0.026	-4034.367	2220.665	773.960	281°52'11"	4669.157	-53.093	11/15/2011 12:28:30 PM	11/15/2011 1:44:45 PM
BT12 --- ST19 (B22)	BT12	ST19	Fixed	0.006	0.013	-225.468	1963.987	2589.247	343°18'18"	3257.214	-38.824	11/15/2011 12:57:15 PM	11/15/2011 1:35:00 PM

Acceptance Summary

Processed	Passed	Flag	Fail
351	351	0	0

SECTION 3.4

NETWORK ADJUSTMENT REPORT

A TEAM P.A., INC.
1920 W. PEORIA AVE.
PHOENIX, AZ 85029
USA

Phone: 602-906-0020
Fax: 602-906-0019
stone.wahl@ateam.net

Project Information		**Coordinate System**	
Name:	C:\Documents and Settings\clint.fischer\My Documents\Trimble Business Center\1993-12 TBC FINAL\1993-12 FINAL.vce	Name:	US State Plane 1983
Size:	5 MB	Datum:	NAD 1983 (Conus)
Modified:	12/30/2011 10:12:37 AM (UTC:-7)	Zone:	Arizona Central 0202
Time zone:	US Mountain Standard Time	Geoid:	GEOID99 (Conus)
Reference number:		Vertical datum:	NAVD88
Description:	NAD83 Metric Template		

Network Adjustment Report

Adjustment Settings

Set-Up Errors

GNSS

Error in Height of Antenna: 0.002 m

Centering Error: 0.002 m

Covariance Display

Horizontal:

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

Three-Dimensional

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

Adjustment Statistics

Number of Iterations for Successful Adjustment:	2
Network Reference Factor:	1.00
Chi Square Test (95%):	Passed
Precision Confidence Level:	95%
Degrees of Freedom:	926

Post Processed Vector Statistics

Reference Factor:	1.00
Redundancy Number:	926.00
A Priori Scalar:	1.26

Control Point Constraints

Point ID	Type	North σ (Meter)	East σ (Meter)	Height σ (Meter)	Elevation σ (Meter)
2CK1	Global	Fixed	Fixed	Fixed	
2EM1	Global	Fixed	Fixed	Fixed	
2EO2	Global	Fixed	Fixed	Fixed	
Fixed = 0.000001(Meter)					

Adjusted Grid Coordinates

Point ID	Northing (Meter)	Northing Error (Meter)	Easting (Meter)	Easting Error (Meter)	Elevation (Meter)	Elevation Error (Meter)	Constraint
2CK1	254151.659	?	224722.571	?	379.831	?	LLh
2EM1	244525.013	?	234882.620	?	440.749	?	LLh
2EO2	245368.266	?	244516.843	?	446.013	?	LLh
BT1	248510.285	0.003	233253.170	0.003	406.995	0.005	
BT10	242136.099	0.003	238759.681	0.002	513.596	0.005	
BT11	239903.817	0.003	236961.064	0.002	524.441	0.007	
BT12	243504.229	0.003	233211.268	0.003	447.606	0.007	
	248595.451		234864.934				

BT2		0.003		0.003	412.574	0.006	
BT3	246958.248	0.003	235005.640	0.002	415.792	0.004	
BT4	245420.230	0.002	233576.120	0.002	426.029	0.005	
BT5	246454.858	0.002	233314.237	0.002	413.650	0.005	
BT6	245296.435	0.002	237102.841	0.002	430.948	0.005	
BT7	243456.771	0.002	236494.629	0.002	455.299	0.005	
BT8	243329.989	0.002	240515.474	0.002	454.466	0.005	
BT9	241594.782	0.003	236852.300	0.003	507.337	0.006	
CG NW1	221377.364	0.003	225762.725	0.003	495.881	0.022	
ST1	249424.593	0.003	230698.598	0.003	398.717	0.007	
ST11	244492.012	0.003	238090.785	0.002	436.004	0.004	
ST12	248185.115	0.002	236438.220	0.002	415.778	0.005	
ST13	246157.032	0.002	238517.352	0.002	423.520	0.005	
ST14	247687.849	0.003	231624.491	0.003	402.030	0.006	
ST15	247739.708	0.003	234058.705	0.003	410.079	0.007	
ST16	240072.280	0.002	238155.101	0.002	537.188	0.007	
ST17	242577.346	0.003	235081.198	0.003	469.323	0.007	
ST18	242454.902	0.002	230766.491	0.002	437.368	0.007	
ST19	246621.936	0.003	232269.281	0.003	408.831	0.007	
ST2	249455.792	0.002	234857.095	0.003	412.866	0.007	
ST20	246526.484	0.002	236445.218	0.002	420.523	0.004	
ST21	242150.288	0.002	241325.680	0.002	477.289	0.005	
ST22	237681.271	0.003	237441.261	0.003	562.181	0.008	

ST23	238181.101	0.003	235944.688	0.003	566.125	0.008	
ST24	240424.247	0.006	233853.458	0.006	644.792	0.012	
ST3	249368.788	0.002	232599.649	0.003	404.318	0.007	
ST4	242946.255	0.002	239308.562	0.002	475.318	0.005	
ST5	247805.168	0.003	230015.723	0.003	397.020	0.007	
ST6	244455.220	0.003	228640.438	0.003	394.642	0.010	
ST7	246096.981	0.002	229732.036	0.002	398.706	0.006	
ST8	244512.680	0.002	239775.979	0.002	440.414	0.004	
ST9	244448.897	0.003	231987.103	0.003	421.008	0.008	

Adjusted Geodetic Coordinates

Point ID	Latitude	Longitude	Height (Meter)	Height Error (Meter)	Constraint
2CK1	N33°17'31.58479"	W111°47'40.79498"	350.000	?	LLh
2EM1	N33°12'18.52624"	W111°41'08.89604"	411.180	?	LLh
2EO2	N33°12'45.05531"	W111°34'56.76754"	416.520	?	LLh
BT1	N33°14'28.00933"	W111°42'11.50328"	377.334	0.005	
BT10	N33°11'00.67402"	W111°38'39.42334"	484.104	0.005	
BT11	N33°09'48.35533"	W111°39'49.06812"	494.929	0.007	
BT12	N33°11'45.50425"	W111°42'13.51570"	418.021	0.007	
BT2	N33°14'30.66281"	W111°41'09.23212"	382.934	0.006	
BT3	N33°13'37.50561"	W111°41'03.93698"	386.186	0.004	
BT4	N33°12'47.67776"	W111°41'59.27501"	396.425	0.005	
BT5	N33°13'21.28166"	W111°42'09.30683"	384.026	0.005	
BT6	N33°12'43.40105"	W111°39'43.08956"	401.398	0.005	
BT7	N33°11'43.72888"	W111°40'06.74599"	425.766	0.005	
BT8	N33°11'39.27689"	W111°37'31.51191"	424.977	0.005	
BT9	N33°10'43.25663"	W111°39'53.10907"	477.823	0.006	
CG NW1	N32°59'47.59884"	W111°47'02.19381"	465.914	0.022	
ST1	N33°14'57.84825"	W111°43'50.12607"	368.994	0.007	

ST11	N33°12'17.20803"	W111°39'05.01585"	406.478	0.004	
ST12	N33°14'17.22557"	W111°40'08.49175"	386.170	0.005	
ST13	N33°13'11.22272"	W111°38'48.37815"	393.970	0.005	
ST14	N33°14'01.41483"	W111°43'14.48033"	372.356	0.006	
ST15	N33°14'02.94029"	W111°41'40.44796"	380.445	0.007	
ST16	N33°09'53.72804"	W111°39'02.96574"	507.693	0.007	
ST17	N33°11'15.28615"	W111°41'01.39533"	439.778	0.007	
ST18	N33°11'11.59205"	W111°43'47.98364"	407.734	0.007	
ST19	N33°13'26.77298"	W111°42'49.65344"	379.187	0.007	
ST2	N33°14'58.59185"	W111°41'09.46157"	383.212	0.007	
ST20	N33°13'23.38239"	W111°40'08.37318"	390.945	0.004	
ST21	N33°11'00.90692"	W111°37'00.36028"	447.818	0.005	
ST22	N33°08'36.16791"	W111°39'30.74545"	532.653	0.008	
ST23	N33°08'52.50961"	W111°40'28.45063"	536.579	0.008	
ST24	N33°10'05.47747"	W111°41'48.96964"	615.230	0.012	
ST3	N33°14'55.92079"	W111°42'36.68392"	374.630	0.007	
ST4	N33°11'26.92662"	W111°38'18.15038"	445.824	0.005	
ST5	N33°14'05.31687"	W111°44'16.61570"	367.314	0.007	
ST6	N33°12'16.64289"	W111°45'09.94338"	364.945	0.010	
ST7	N33°13'09.88083"	W111°44'27.68487"	369.019	0.006	
ST8	N33°12'17.73551"	W111°37'59.94025"	410.902	0.004	
ST9	N33°12'16.24878"	W111°43'00.71248"	391.389	0.008	

Adjusted ECEF Coordinates

Point ID	X (Meter)	X Error (Meter)	Y (Meter)	Y Error (Meter)	Z (Meter)	Z Error (Meter)	3D Error (Meter)	Constraint
2CK1	-1981548.664	?	-4955563.188	?	3481275.835	?	?	LLh
2EM1	-1974102.628	?	-4964280.662	?	3473243.027	?	?	LLh
2EO2	-1964980.189	?	-4967421.999	?	3473929.817	?	?	LLh
BT1	-1974790.573	0.003	-4961624.107	0.005	3476561.746	0.004	0.007	
BT10	-1971011.546	0.003	-4966987.248	0.004	3471275.741	0.003	0.006	
BT11	-1973141.939	0.003	-4967462.948	0.006	3469416.671	0.004	0.008	
BT12	-1975865.902	0.003	-4964184.886	0.006	3472395.454	0.005	0.008	
BT2	-1973277.744	0.003	-4962182.777	0.004	3476633.191	0.004	0.007	
BT3	-1973483.021	0.003	-4963070.043	0.004	3475265.091	0.003	0.005	
BT4	-1975128.618	0.003	-4963329.825	0.004	3473986.409	0.003	0.006	
BT5	-1975156.438	0.003	-4962697.145	0.004	3474845.764	0.003	0.006	

BT6	-1971879.348	0.003	-4964703.757	0.004	3473878.893	0.003	0.006	
BT7	-1972828.007	0.002	-4965432.164	0.004	3472353.922	0.003	0.006	
BT8	-1969117.916	0.003	-4966984.696	0.004	3472238.708	0.003	0.006	
BT9	-1972892.302	0.003	-4966550.869	0.005	3470823.174	0.004	0.007	
CG NW1	-1987308.574	0.007	-4972667.096	0.017	3453891.960	0.013	0.023	
ST1	-1976973.497	0.004	-4960204.657	0.006	3477326.040	0.005	0.008	
ST11	-1971127.539	0.003	-4965482.404	0.004	3473206.470	0.003	0.005	
ST12	-1971901.199	0.002	-4962977.059	0.004	3476288.704	0.003	0.005	
ST13	-1970386.894	0.003	-4964784.400	0.004	3474591.951	0.003	0.006	
ST14	-1976470.035	0.003	-4961434.280	0.005	3475873.690	0.004	0.007	
ST15	-1974200.982	0.004	-4962317.154	0.006	3475917.436	0.004	0.008	
ST16	-1972002.142	0.003	-4967829.608	0.005	3469562.222	0.004	0.007	
ST17	-1974325.101	0.004	-4965365.973	0.006	3471628.252	0.005	0.009	
ST18	-1978347.836	0.003	-4963802.764	0.006	3471515.462	0.004	0.008	
ST19	-1976091.340	0.004	-4962220.817	0.006	3474984.644	0.005	0.008	
ST2	-1973109.030	0.003	-4961742.440	0.006	3477352.995	0.004	0.008	
ST20	-1972235.499	0.002	-4963826.755	0.003	3474903.699	0.003	0.005	
ST21	-1968613.183	0.003	-4967901.411	0.005	3471261.886	0.004	0.006	
ST22	-1973161.237	0.003	-4968798.006	0.007	3467575.267	0.005	0.009	
ST23	-1974450.782	0.004	-4967993.021	0.007	3467998.977	0.005	0.009	
ST24	-1975959.723	0.006	-4966140.541	0.010	3469924.081	0.008	0.014	
ST3	-1975221.041	0.003	-4960942.888	0.005	3477279.467	0.004	0.008	
ST4	-1970324.197	0.003	-4966749.181	0.004	3471931.697	0.003	0.006	
ST5	-1977938.567	0.003	-4960773.541	0.006	3475971.484	0.004	0.008	
ST6	-1979900.127	0.004	-4961963.858	0.008	3473169.156	0.006	0.011	
ST7	-1978551.979	0.003	-4961538.037	0.005	3474543.694	0.004	0.007	
ST8	-1969558.937	0.002	-4966099.207	0.003	3473222.491	0.003	0.005	
ST9	-1976801.572	0.004	-4963230.083	0.006	3473173.478	0.005	0.009	

Error Ellipse Components

Point ID	Semi-major axis (Meter)	Semi-minor axis (Meter)	Azimuth
BT1	0.004	0.004	172°
BT10	0.003	0.003	180°
BT11	0.003	0.003	177°
BT12	0.004	0.003	143°
BT2	0.003	0.003	90°

BT3	0.003	0.003	165°
BT4	0.003	0.003	158°
BT5	0.003	0.003	169°
BT6	0.003	0.003	2°
BT7	0.003	0.003	155°
BT8	0.003	0.003	5°
BT9	0.004	0.003	174°
CG NW1	0.003	0.003	162°
ST1	0.004	0.003	80°
ST11	0.003	0.003	178°
ST12	0.003	0.002	170°
ST13	0.003	0.003	168°
ST14	0.003	0.003	88°
ST15	0.003	0.003	80°
ST16	0.003	0.003	3°
ST17	0.004	0.004	146°
ST18	0.003	0.003	150°
ST19	0.004	0.004	148°
ST2	0.003	0.003	80°
ST20	0.002	0.002	130°
ST21	0.003	0.003	52°
ST22	0.003	0.003	43°
ST23	0.004	0.003	179°
ST24	0.008	0.007	169°
ST3	0.003	0.003	77°
ST4	0.003	0.003	2°
ST5	0.003	0.003	77°
ST6	0.004	0.004	152°
ST7	0.003	0.003	108°
ST8	0.002	0.002	15°
ST9	0.004	0.003	146°

Adjusted GPS Observations

Transformation Parameters

Deflection in Latitude:	-0.653 sec **(95%)**	0.088 sec
Deflection in Longitude:	0.434 sec **(95%)**	0.149 sec
Azimuth Rotation:	0.166 sec **(95%)**	0.016 sec

Scale Factor: 1.00000036 **(95%)** 0.00000008

Observation ID		Observation	A-posteriori Error	Residual	Standardized Residual
2EO2 --> ST21 (PV303)	**Az.**	224°56'36"	0.111 sec	-0.133 sec	-0.765
	ΔHt.	31.281 m	0.006 m	-0.003 m	-0.268
	Ellip Dist.	4532.390 m	0.003 m	0.017 m	4.098
2CK1 --> ST21 (PV304)	**Az.**	125°55'40"	0.026 sec	0.060 sec	1.469
	ΔHt.	97.815 m	0.006 m	-0.006 m	-0.478
	Ellip Dist.	20488.424 m	0.002 m	-0.013 m	-3.568
2EO2 --> ST8 (PV344)	**Az.**	259°57'11"	0.081 sec	-0.351 sec	-2.178
	ΔHt.	-5.630 m	0.005 m	0.003 m	0.232
	Ellip Dist.	4817.880 m	0.002 m	0.014 m	3.501
2EM1 --> 2EO2 (PV248)	**Az.**	85°07'28"	0.016 sec	-0.148 sec	-1.779
	ΔHt.	5.363 m	0.005 m	0.002 m	0.224
	Ellip Dist.	9671.936 m	0.001 m	0.014 m	3.472
2EO2 --> BT10 (PV101)	**Az.**	240°52'21"	0.081 sec	-0.241 sec	-1.680
	ΔHt.	67.562 m	0.005 m	-0.004 m	-0.637
	Ellip Dist.	6603.003 m	0.003 m	0.015 m	3.328
CG NW1 --> ST18 (PV132)	**Az.**	13°25'38"	0.023 sec	0.023 sec	0.390
	ΔHt.	-58.102 m	0.006 m	0.001 m	0.027
	Ellip Dist.	21665.438 m	0.002 m	0.020 m	3.310
2EM1 --> 2CK1 (PV64)	**Az.**	313°34'57"	0.016 sec	0.196 sec	3.255
	ΔHt.	-61.171 m	0.004 m	0.000 m	0.044
	Ellip Dist.	13997.735 m	0.001 m	0.002 m	0.381
2EO2 --> BT8 (PV102)	**Az.**	243°11'20"	0.112 sec	-0.324 sec	-1.835
	ΔHt.	8.442 m	0.005 m	0.006 m	0.512
	Ellip Dist.	4491.005 m	0.002 m	0.012 m	3.247
2CK1 --> ST8 (PV345)	**Az.**	122°41'57"	0.022 sec	0.061 sec	1.368
	ΔHt.	60.903 m	0.005 m	0.012 m	1.138
	Ellip Dist.	17876.681 m	0.002 m	-0.012 m	-3.182
2CK1 --> ST22 (PV81)	**Az.**	142°23'27"	0.026 sec	-0.004 sec	-0.105
	ΔHt.	182.628 m	0.006 m	-0.012 m	-0.963
	Ellip Dist.	20811.573 m	0.002 m	-0.012 m	-3.139

2EO2 --> ST13 (PV331)	Az.	277°40'23"	0.086 sec	-0.080 sec	-0.541
	ΔHt.	-22.560 m	0.006 m	-0.006 m	-0.331
	Ellip Dist.	6051.663 m	0.002 m	0.014 m	3.124
2CK1 --> BT8 (PV80)	Az.	124°29'12"	0.027 sec	0.064 sec	1.533
	ΔHt.	74.976 m	0.005 m	0.000 m	0.015
	Ellip Dist.	19146.640 m	0.002 m	-0.012 m	-3.114
2EM1 --> 2EO2 (PV99)	Az.	85°07'28"	0.016 sec	-0.265 sec	-3.101
	ΔHt.	5.363 m	0.005 m	0.004 m	0.368
	Ellip Dist.	9671.936 m	0.001 m	0.013 m	2.920
2EM1 --> 2CK1 (PV77)	Az.	313°34'57"	0.016 sec	0.183 sec	3.084
	ΔHt.	-61.171 m	0.004 m	-0.002 m	-0.237
	Ellip Dist.	13997.735 m	0.001 m	-0.002 m	-0.605
2CK1 --> ST16 (PV82)	Az.	136°24'49"	0.026 sec	0.065 sec	1.584
	ΔHt.	157.676 m	0.006 m	-0.014 m	-1.094
	Ellip Dist.	19461.090 m	0.002 m	-0.012 m	-3.041
2EO2 --> 2CK1 (PV249)	Az.	294°06'42"	0.016 sec	-0.057 sec	-1.590
	ΔHt.	-66.534 m	0.005 m	-0.002 m	-0.185
	Ellip Dist.	21657.540 m	0.002 m	-0.011 m	-3.041
2EO2 --> 2CK1 (PV97)	Az.	294°06'42"	0.016 sec	-0.029 sec	-0.743
	ΔHt.	-66.534 m	0.005 m	0.002 m	0.180
	Ellip Dist.	21657.540 m	0.002 m	-0.012 m	-3.029
2EM1 --> ST8 (PV33)	Az.	90°16'15"	0.073 sec	-0.085 sec	-0.479
	ΔHt.	-0.267 m	0.004 m	0.003 m	0.301
	Ellip Dist.	4893.828 m	0.002 m	0.012 m	3.012
2EM1 --> 2EO2 (PV85)	Az.	85°07'28"	0.016 sec	-0.114 sec	-1.273
	ΔHt.	5.363 m	0.005 m	-0.003 m	-0.226
	Ellip Dist.	9671.936 m	0.001 m	0.012 m	2.972
2CK1 --> CG NW1 (PV78)	Az.	178°14'56"	0.011 sec	0.067 sec	2.857
	ΔHt.	115.812 m	0.005 m	0.003 m	0.393
	Ellip Dist.	32794.008 m	0.002 m	-0.004 m	-1.159
CG NW1 --> ST17 (PV231)	Az.	23°48'02"	0.030 sec	-0.017 sec	-0.353
	ΔHt.	-26.049 m	0.008 m	-0.003 m	-0.196
	Ellip Dist.	23159.796 m	0.003 m	0.015 m	2.780

ST20 --> ST15 (PV147)	Az.	297°04'59"	0.226 sec	0.003 sec	0.011
	ΔHt.	-10.501 m	0.007 m	-0.054 m	-2.758
	Ellip Dist.	2677.443 m	0.003 m	0.003 m	0.674
2EO2 --> ST4 (PV178)	Az.	245°14'35"	0.088 sec	-0.262 sec	-1.799
	ΔHt.	29.285 m	0.006 m	0.002 m	0.153
	Ellip Dist.	5744.410 m	0.002 m	0.011 m	2.705
2EO2 --> ST11 (PV219)	Az.	262°25'05"	0.085 sec	0.060 sec	0.382
	ΔHt.	-10.058 m	0.005 m	0.006 m	0.776
	Ellip Dist.	6486.109 m	0.003 m	0.013 m	2.662
2EM1 --> ST9 (PV170)	Az.	268°37'14"	0.208 sec	0.402 sec	0.982
	ΔHt.	-19.798 m	0.007 m	-0.123 m	-2.641
	Ellip Dist.	2896.791 m	0.003 m	-0.011 m	-1.961
2CK1 --> ST15 (PV149)	Az.	124°32'52"	0.051 sec	-0.015 sec	-0.163
	ΔHt.	30.444 m	0.008 m	-0.072 m	-2.545
	Ellip Dist.	11327.014 m	0.003 m	0.001 m	0.115
2CK1 --> BT11 (PV291)	Az.	139°24'19"	0.028 sec	0.086 sec	1.904
	ΔHt.	144.909 m	0.006 m	-0.039 m	-2.128
	Ellip Dist.	18784.282 m	0.003 m	-0.010 m	-2.526
CG NW1 --> ST21 (PV307)	Az.	36°54'47"	0.020 sec	-0.078 sec	-2.515
	ΔHt.	-17.997 m	0.006 m	0.008 m	0.621
	Ellip Dist.	25958.565 m	0.003 m	-0.002 m	-0.520
2EO2 --> ST8 (PV90)	Az.	259°57'11"	0.081 sec	-0.055 sec	-0.294
	ΔHt.	-5.630 m	0.005 m	0.010 m	0.756
	Ellip Dist.	4817.880 m	0.002 m	0.011 m	2.460
2EM1 --> ST4 (PV181)	Az.	109°45'29"	0.102 sec	-0.208 sec	-1.225
	ΔHt.	34.648 m	0.005 m	0.006 m	0.511
	Ellip Dist.	4699.525 m	0.002 m	0.009 m	2.459
2EM1 --> ST13 (PV334)	Az.	65°56'46"	0.124 sec	-0.042 sec	-0.208
	ΔHt.	-17.197 m	0.005 m	0.003 m	0.239
	Ellip Dist.	3984.685 m	0.002 m	0.009 m	2.416
2EM1 --> CG NW1 (PV45)	Az.	201°37'48"	0.013 sec	-0.033 sec	-0.941
	ΔHt.	54.641 m	0.005 m	-0.007 m	-0.582
	Ellip Dist.	24881.822 m	0.002 m	-0.010 m	-2.407

2EO2 --> ST16 (PV104)	Az.	230°24'23"	0.061 sec	-0.076 sec	-0.775
	ΔHt.	91.142 m	0.006 m	0.004 m	0.315
	Ellip Dist.	8278.379 m	0.002 m	0.009 m	2.356
2CK1 --> BT4 (PV66)	Az.	134°40'09"	0.042 sec	0.052 sec	0.745
	ΔHt.	46.416 m	0.006 m	-0.012 m	-0.681
	Ellip Dist.	12435.957 m	0.003 m	0.010 m	2.323
2CK1 --> BT1 (PV123)	Az.	123°32'39"	0.065 sec	-0.076 sec	-0.636
	ΔHt.	27.334 m	0.006 m	0.006 m	0.541
	Ellip Dist.	10228.217 m	0.003 m	0.014 m	2.316
2CK1 --> BT5 (PV74)	Az.	131°55'20"	0.046 sec	0.049 sec	0.633
	ΔHt.	34.020 m	0.006 m	-0.018 m	-1.040
	Ellip Dist.	11536.167 m	0.003 m	0.010 m	2.297
2EM1 --> ST23 (PV242)	Az.	170°37'20"	0.086 sec	-0.351 sec	-2.295
	ΔHt.	125.381 m	0.005 m	0.010 m	1.232
	Ellip Dist.	6432.804 m	0.003 m	0.000 m	-0.065
2EM1 --> BT8 (PV42)	Az.	102°06'15"	0.083 sec	-0.159 sec	-1.135
	ΔHt.	13.805 m	0.005 m	0.006 m	0.488
	Ellip Dist.	5758.754 m	0.002 m	0.009 m	2.276
2EM1 --> BT10 (PV41)	Az.	121°45'59"	0.112 sec	-0.316 sec	-1.646
	ΔHt.	72.925 m	0.004 m	0.008 m	1.262
	Ellip Dist.	4554.379 m	0.002 m	0.010 m	2.257
2EM1 --> ST22 (PV43)	Az.	159°37'38"	0.069 sec	-0.260 sec	-2.240
	ΔHt.	121.457 m	0.006 m	0.002 m	0.177
	Ellip Dist.	7307.080 m	0.002 m	0.000 m	-0.121
2EM1 --> ST20 (PV109)	Az.	38°06'24"	0.153 sec	0.180 sec	0.581
	ΔHt.	-20.226 m	0.004 m	-0.003 m	-0.301
	Ellip Dist.	2539.450 m	0.002 m	0.009 m	2.230
2EM1 --> BT11 (PV293)	Az.	155°54'36"	0.096 sec	-0.359 sec	-2.225
	ΔHt.	83.738 m	0.006 m	-0.003 m	-0.224
	Ellip Dist.	5067.562 m	0.002 m	0.003 m	0.706
2EM1 --> ST24 (PV176)	Az.	194°12'53"	0.278 sec	-0.396 sec	-2.210
	ΔHt.	204.034 m	0.011 m	0.009 m	1.447
	Ellip Dist.	4228.337 m	0.006 m	-0.001 m	-0.332

2CK1 --> CG NW1 (PV63)	**Az.**	178°14'56"	0.011 sec	0.057 sec	2.202
	ΔHt.	115.812 m	0.005 m	-0.003 m	-0.302
	Ellip Dist.	32794.008 m	0.002 m	-0.003 m	-0.870
ST15 --> ST2 (PV153)	**Az.**	25°04'17"	0.363 sec	0.138 sec	0.328
	ΔHt.	2.774 m	0.008 m	-0.015 m	-2.201
	Ellip Dist.	1892.893 m	0.003 m	-0.001 m	-0.352
CG NW1 --> ST7 (PV48)	**Az.**	9°11'42"	0.019 sec	0.051 sec	1.299
	ΔHt.	-96.808 m	0.006 m	-0.026 m	-0.892
	Ellip Dist.	25038.703 m	0.002 m	-0.009 m	-2.161
2EM1 --> BT4 (PV30)	**Az.**	304°32'44"	0.312 sec	0.977 sec	2.149
	ΔHt.	-14.755 m	0.005 m	-0.002 m	-0.574
	Ellip Dist.	1583.927 m	0.002 m	-0.001 m	-0.198
2EO2 --> BT11 (PV290)	**Az.**	234°18'29"	0.056 sec	-0.068 sec	-0.716
	ΔHt.	78.375 m	0.006 m	-0.005 m	-0.262
	Ellip Dist.	9325.541 m	0.002 m	0.009 m	2.137
2EM1 --> ST16 (PV44)	**Az.**	143°48'46"	0.086 sec	-0.307 sec	-2.136
	ΔHt.	96.505 m	0.005 m	0.006 m	0.514
	Ellip Dist.	5526.450 m	0.002 m	0.004 m	0.965
2EO2 --> ST18 (PV98)	**Az.**	258°13'13"	0.033 sec	-0.123 sec	-2.135
	ΔHt.	-8.824 m	0.006 m	0.009 m	0.686
	Ellip Dist.	14056.895 m	0.002 m	-0.001 m	-0.202
ST8 --> ST20 (PV119)	**Az.**	301°18'46"	0.124 sec	-0.243 sec	-1.026
	ΔHt.	-19.958 m	0.005 m	0.014 m	1.952
	Ellip Dist.	3892.578 m	0.002 m	0.010 m	2.135
2CK1 --> BT12 (PV65)	**Az.**	141°30'12"	0.043 sec	0.143 sec	2.113
	ΔHt.	68.005 m	0.008 m	0.018 m	0.678
	Ellip Dist.	13618.427 m	0.003 m	0.003 m	0.811
2CK1 --> ST18 (PV76)	**Az.**	152°44'27"	0.035 sec	0.129 sec	2.112
	ΔHt.	57.709 m	0.006 m	0.007 m	0.670
	Ellip Dist.	13167.261 m	0.002 m	0.000 m	0.116
2EM1 --> 2CK1 (PV175)	**Az.**	313°34'57"	0.016 sec	0.119 sec	2.089
	ΔHt.	-61.171 m	0.004 m	0.000 m	-0.005
	Ellip Dist.	13997.735 m	0.001 m	-0.005 m	-1.235

2EM1 --> ST12 (PV195)	Az.	23°09'10"	0.103 sec	0.130 sec	0.658
	ΔHt.	-24.995 m	0.005 m	-0.005 m	-0.398
	Ellip Dist.	3977.335 m	0.002 m	0.008 m	2.084
ST6 --> ST7 (PV286)	Az.	33°42'34"	0.352 sec	-0.343 sec	-0.901
	ΔHt.	4.082 m	0.009 m	0.007 m	1.252
	Ellip Dist.	1971.729 m	0.003 m	0.007 m	2.058
BT6 --> ST8 (PV163)	Az.	106°28'50"	0.200 sec	0.073 sec	0.266
	ΔHt.	9.508 m	0.005 m	-0.002 m	-0.200
	Ellip Dist.	2785.923 m	0.003 m	0.007 m	2.045
2EM1 --> BT5 (PV38)	Az.	321°01'33"	0.198 sec	0.613 sec	2.032
	ΔHt.	-27.151 m	0.005 m	-0.001 m	-0.148
	Ellip Dist.	2487.025 m	0.002 m	0.001 m	0.246
CG NW1 --> ST6 (PV54)	Az.	7°10'49"	0.027 sec	0.021 sec	0.593
	ΔHt.	-100.890 m	0.010 m	0.011 m	0.344
	Ellip Dist.	23258.846 m	0.003 m	0.009 m	2.026
2CK1 --> ST23 (PV240)	Az.	144°58'19"	0.030 sec	-0.060 sec	-1.202
	ΔHt.	186.552 m	0.005 m	0.011 m	1.375
	Ellip Dist.	19520.957 m	0.003 m	-0.010 m	-2.017
2EM1 --> CG NW1 (PV40)	Az.	201°37'48"	0.013 sec	-0.045 sec	-1.400
	ΔHt.	54.641 m	0.005 m	-0.003 m	-0.334
	Ellip Dist.	24881.822 m	0.002 m	-0.008 m	-2.003
2EM1 --> ST20 (PV117)	Az.	38°06'24"	0.153 sec	0.153 sec	0.481
	ΔHt.	-20.226 m	0.004 m	-0.005 m	-0.948
	Ellip Dist.	2539.450 m	0.002 m	0.008 m	1.996
CG NW1 --> ST16 (PV28)	Az.	33°36'43"	0.023 sec	-0.071 sec	-1.986
	ΔHt.	41.864 m	0.006 m	-0.011 m	-0.741
	Ellip Dist.	22431.377 m	0.003 m	0.004 m	0.975
2EM1 --> ST11 (PV222)	Az.	90°42'57"	0.165 sec	-0.197 sec	-0.762
	ΔHt.	-4.696 m	0.004 m	-0.001 m	-0.213
	Ellip Dist.	3208.634 m	0.002 m	0.008 m	1.976
2EO2 --> BT6 (PV158)	Az.	269°37'41"	0.070 sec	-0.013 sec	-0.104
	ΔHt.	-15.138 m	0.006 m	0.001 m	0.026
	Ellip Dist.	7415.020 m	0.002 m	0.009 m	1.972

ST8 --> ST11 (PV224)	**Az.**	269°27'09"	0.347 sec	0.258 sec	0.583
	ΔHt.	-4.428 m	0.005 m	0.000 m	0.090
	Ellip Dist.	1685.475 m	0.003 m	0.007 m	1.941
2EO2 --> CG NW1 (PV100)	**Az.**	218°11'53"	0.012 sec	-0.051 sec	-1.939
	ΔHt.	49.278 m	0.005 m	-0.003 m	-0.319
	Ellip Dist.	30454.124 m	0.002 m	0.002 m	0.388
ST18 --> BT9 (PV140)	**Az.**	98°08'48"	0.106 sec	0.004 sec	0.023
	ΔHt.	70.099 m	0.006 m	0.003 m	0.383
	Ellip Dist.	6146.870 m	0.003 m	0.010 m	1.938
2EO2 --> BT7 (PV92)	**Az.**	256°46'51"	0.055 sec	0.071 sec	0.695
	ΔHt.	9.224 m	0.006 m	-0.005 m	-0.328
	Ellip Dist.	8247.547 m	0.002 m	0.008 m	1.922
2EO2 --> ST15 (PV148)	**Az.**	282°57'33"	0.052 sec	-0.067 sec	-0.777
	ΔHt.	-36.089 m	0.008 m	-0.064 m	-1.909
	Ellip Dist.	10724.615 m	0.003 m	0.001 m	0.130
2EM1 --> BT9 (PV141)	**Az.**	146°13'04"	0.155 sec	-0.478 sec	-1.888
	ΔHt.	66.638 m	0.005 m	0.008 m	1.256
	Ellip Dist.	3531.038 m	0.003 m	0.008 m	1.720
2EO2 --> ST7 (PV88)	**Az.**	273°00'17"	0.030 sec	-0.116 sec	-1.857
	ΔHt.	-47.530 m	0.006 m	-0.008 m	-0.267
	Ellip Dist.	14804.123 m	0.002 m	-0.004 m	-0.707
CG NW1 --> ST1 (PV257)	**Az.**	10°03'13"	0.022 sec	0.026 sec	0.849
	ΔHt.	-96.820 m	0.008 m	-0.001 m	-0.024
	Ellip Dist.	28480.995 m	0.003 m	-0.008 m	-1.842
CG NW1 --> BT8 (PV26)	**Az.**	33°58'29"	0.020 sec	-0.055 sec	-1.840
	ΔHt.	-40.836 m	0.006 m	0.013 m	1.015
	Ellip Dist.	26451.724 m	0.003 m	-0.001 m	-0.253
CG NW1 --> ST8 (PV348)	**Az.**	31°16'34"	0.016 sec	-0.057 sec	-1.838
	ΔHt.	-54.908 m	0.005 m	0.014 m	1.284
	Ellip Dist.	27050.931 m	0.002 m	-0.002 m	-0.522
2EM1 --> ST1 (PV258)	**Az.**	319°37'51"	0.090 sec	0.135 sec	0.802
	ΔHt.	-42.179 m	0.007 m	0.053 m	1.824
	Ellip Dist.	6443.586 m	0.003 m	0.005 m	1.025

ST13 --> ST8 (PV336)	**Az.**	142°43'00"	0.262 sec	-0.318 sec	-0.903
	ΔHt.	16.930 m	0.005 m	0.004 m	0.449
	Ellip Dist.	2070.947 m	0.003 m	0.006 m	1.813
CG NW1 --> BT11 (PV294)	**Az.**	31°13'24"	0.025 sec	-0.070 sec	-1.796
	ΔHt.	29.097 m	0.006 m	-0.013 m	-0.527
	Ellip Dist.	21649.984 m	0.003 m	0.004 m	0.775
CG NW1 --> ST12 (PV194)	**Az.**	21°47'11"	0.016 sec	0.048 sec	1.481
	ΔHt.	-79.636 m	0.006 m	-0.013 m	-0.790
	Ellip Dist.	28857.945 m	0.002 m	-0.007 m	-1.755
CG NW1 --> ST15 (PV150)	**Az.**	17°32'27"	0.022 sec	0.029 sec	0.733
	ΔHt.	-85.367 m	0.008 m	-0.054 m	-1.747
	Ellip Dist.	27639.527 m	0.003 m	-0.004 m	-0.983
2CK1 --> BT3 (PV269)	**Az.**	125°02'28"	0.043 sec	0.060 sec	0.792
	ΔHt.	36.185 m	0.005 m	-0.002 m	-0.232
	Ellip Dist.	12550.576 m	0.003 m	0.008 m	1.746
CG NW1 --> BT2 (PV319)	**Az.**	18°33'48"	0.020 sec	0.004 sec	0.100
	ΔHt.	-82.874 m	0.006 m	0.011 m	0.924
	Ellip Dist.	28702.485 m	0.003 m	-0.008 m	-1.727
2EO2 --> ST22 (PV103)	**Az.**	222°48'41"	0.049 sec	-0.015 sec	-0.184
	ΔHt.	116.094 m	0.007 m	-0.009 m	-0.618
	Ellip Dist.	10448.610 m	0.003 m	0.008 m	1.723
CG NW1 --> ST22 (PV27)	**Az.**	35°41'12"	0.027 sec	-0.071 sec	-1.723
	ΔHt.	66.816 m	0.007 m	-0.013 m	-0.904
	Ellip Dist.	20056.977 m	0.003 m	0.008 m	1.581
2CK1 --> ST12 (PV193)	**Az.**	117°03'21"	0.034 sec	0.104 sec	1.605
	ΔHt.	36.176 m	0.005 m	-0.020 m	-1.329
	Ellip Dist.	13148.734 m	0.002 m	0.007 m	1.721
ST12 --> ST8 (PV198)	**Az.**	137°52'08"	0.099 sec	-0.104 sec	-0.600
	ΔHt.	24.728 m	0.005 m	0.001 m	0.060
	Ellip Dist.	4963.059 m	0.002 m	0.007 m	1.721
2EM1 --> ST7 (PV282)	**Az.**	287°05'56"	0.077 sec	0.268 sec	1.712
	ΔHt.	-42.167 m	0.006 m	0.002 m	0.191
	Ellip Dist.	5385.640 m	0.002 m	-0.003 m	-0.734

2EM1 --> ST21 (PV306)	Az.	110°21'32"	0.071 sec	-0.187 sec	-1.590
	ΔHt.	36.644 m	0.005 m	0.005 m	0.416
	Ellip Dist.	6867.388 m	0.002 m	0.007 m	1.702
2EM1 --> ST8 (PV347)	Az.	90°16'15"	0.073 sec	-0.154 sec	-0.973
	ΔHt.	-0.267 m	0.004 m	0.011 m	1.150
	Ellip Dist.	4893.828 m	0.002 m	0.007 m	1.686
ST20 --> ST1 (PV254)	Az.	296°53'54"	0.097 sec	-0.022 sec	-0.156
	ΔHt.	-21.954 m	0.007 m	0.044 m	1.682
	Ellip Dist.	6436.654 m	0.003 m	0.000 m	0.056
CG NW1 --> ST2 (PV51)	Az.	18°01'10"	0.020 sec	0.011 sec	0.322
	ΔHt.	-82.594 m	0.008 m	0.015 m	0.492
	Ellip Dist.	29517.334 m	0.003 m	-0.007 m	-1.675
2EO2 --> ST20 (PV114)	Az.	278°20'56"	0.051 sec	-0.009 sec	-0.057
	ΔHt.	-25.589 m	0.005 m	0.001 m	0.087
	Ellip Dist.	8155.037 m	0.002 m	0.009 m	1.648
2EO2 --> ST12 (PV192)	Az.	289°24'21"	0.052 sec	-0.126 sec	-1.208
	ΔHt.	-30.358 m	0.006 m	-0.017 m	-0.922
	Ellip Dist.	8556.403 m	0.002 m	0.008 m	1.643
ST22 --> ST23 (PV246)	Az.	288°36'35"	0.434 sec	0.289 sec	0.595
	ΔHt.	3.924 m	0.006 m	-0.007 m	-1.627
	Ellip Dist.	1577.981 m	0.003 m	0.002 m	0.674
2EO2 --> ST24 (PV250)	Az.	245°18'31"	0.111 sec	-0.015 sec	-0.175
	ΔHt.	198.672 m	0.011 m	-0.012 m	-1.384
	Ellip Dist.	11754.843 m	0.006 m	0.007 m	1.613
ST8 --> BT3 (PV273)	Az.	297°17'52"	0.107 sec	-0.046 sec	-0.271
	ΔHt.	-24.719 m	0.005 m	0.000 m	0.054
	Ellip Dist.	5361.181 m	0.003 m	0.007 m	1.610
2EM1 --> BT6 (PV161)	Az.	70°58'00"	0.209 sec	-0.022 sec	-0.068
	ΔHt.	-9.775 m	0.005 m	-0.006 m	-0.641
	Ellip Dist.	2350.639 m	0.002 m	0.006 m	1.609
2EO2 --> BT12 (PV86)	Az.	260°49'14"	0.053 sec	0.124 sec	0.906
	ΔHt.	1.472 m	0.008 m	0.017 m	0.320
	Ellip Dist.	11459.262 m	0.003 m	0.011 m	1.609

2CK1 --> ST4 (PV179)	**Az.**	127°35'58"	0.028 sec	0.045 sec	1.019
	ΔHt.	95.819 m	0.005 m	-0.022 m	-1.604
	Ellip Dist.	18395.015 m	0.002 m	-0.004 m	-1.033
2EM1 --> ST19 (PV32)	**Az.**	308°52'11"	0.188 sec	0.399 sec	1.581
	ΔHt.	-31.992 m	0.007 m	0.003 m	0.311
	Ellip Dist.	3350.932 m	0.003 m	0.006 m	1.044
CG NW1 --> ST9 (PV169)	**Az.**	15°10'15"	0.026 sec	0.017 sec	0.472
	ΔHt.	-74.439 m	0.008 m	-0.004 m	-0.157
	Ellip Dist.	23898.722 m	0.003 m	0.006 m	1.552
ST9 --> ST7 (PV277)	**Az.**	306°16'13"	0.229 sec	0.427 sec	1.550
	ΔHt.	-22.369 m	0.008 m	0.006 m	0.907
	Ellip Dist.	2793.386 m	0.003 m	0.004 m	0.914
ST8 --> ST21 (PV339)	**Az.**	146°53'27"	0.194 sec	-0.195 sec	-0.756
	ΔHt.	36.911 m	0.005 m	-0.002 m	-0.224
	Ellip Dist.	2825.582 m	0.003 m	0.005 m	1.524
2CK1 --> ST20 (PV115)	**Az.**	123°06'34"	0.030 sec	0.107 sec	1.520
	ΔHt.	40.945 m	0.005 m	0.000 m	-0.062
	Ellip Dist.	13985.751 m	0.002 m	0.004 m	0.849
2EM1 --> ST5 (PV210)	**Az.**	304°06'19"	0.091 sec	0.238 sec	1.507
	ΔHt.	-43.866 m	0.007 m	0.013 m	0.634
	Ellip Dist.	5869.638 m	0.003 m	0.001 m	0.255
CG NW1 --> BT4 (PV47)	**Az.**	18°04'32"	0.022 sec	0.057 sec	1.491
	ΔHt.	-69.396 m	0.006 m	0.007 m	0.285
	Ellip Dist.	25283.031 m	0.003 m	-0.004 m	-0.817
2CK1 --> BT10 (PV79)	**Az.**	130°37'48"	0.029 sec	0.025 sec	0.507
	ΔHt.	134.095 m	0.005 m	0.008 m	1.181
	Ellip Dist.	18479.155 m	0.003 m	-0.007 m	-1.479
2EM1 --> ST2 (PV34)	**Az.**	359°49'48"	0.113 sec	0.174 sec	0.837
	ΔHt.	-27.953 m	0.007 m	0.010 m	0.456
	Ellip Dist.	4931.308 m	0.003 m	0.006 m	1.471
ST18 --> ST23 (PV241)	**Az.**	129°38'12"	0.098 sec	-0.218 sec	-1.460
	ΔHt.	128.842 m	0.006 m	0.006 m	0.774
	Ellip Dist.	6714.732 m	0.003 m	0.006 m	1.131

ST7 --> ST18 (PV278)	**Az.**	164°14'25"	0.147 sec	-0.179 sec	-0.710
	ΔHt.	38.705 m	0.007 m	-0.016 m	-1.459
	Ellip Dist.	3786.502 m	0.003 m	0.004 m	0.738
ST7 --> ST19 (PV284)	**Az.**	78°24'24"	0.282 sec	0.449 sec	1.446
	ΔHt.	10.175 m	0.008 m	-0.005 m	-0.659
	Ellip Dist.	2591.230 m	0.003 m	-0.001 m	-0.182
2EM1 --> BT3 (PV271)	**Az.**	3°01'15"	0.207 sec	0.429 sec	1.366
	ΔHt.	-24.986 m	0.004 m	-0.002 m	-0.359
	Ellip Dist.	2436.571 m	0.003 m	0.005 m	1.433
BT7 --> ST8 (PV7)	**Az.**	72°17'54"	0.146 sec	0.282 sec	1.217
	ΔHt.	-14.854 m	0.005 m	-0.001 m	-0.121
	Ellip Dist.	3447.374 m	0.002 m	0.005 m	1.433
2EM1 --> ST6 (PV37)	**Az.**	269°29'09"	0.101 sec	0.231 sec	1.425
	ΔHt.	-46.249 m	0.009 m	0.006 m	0.238
	Ellip Dist.	6243.167 m	0.003 m	-0.004 m	-0.929
CG NW1 --> ST7 (PV281)	**Az.**	9°11'42"	0.019 sec	0.034 sec	0.972
	ΔHt.	-96.808 m	0.006 m	-0.015 m	-1.417
	Ellip Dist.	25038.703 m	0.002 m	-0.001 m	-0.156
ST22 --> BT10 (PV14)	**Az.**	16°37'39"	0.132 sec	0.001 sec	0.006
	ΔHt.	-48.532 m	0.006 m	-0.004 m	-0.759
	Ellip Dist.	4646.257 m	0.003 m	0.006 m	1.412
ST18 --> BT10 (PV59)	**Az.**	92°23'10"	0.076 sec	-0.054 sec	-0.452
	ΔHt.	76.386 m	0.006 m	0.001 m	0.106
	Ellip Dist.	8000.296 m	0.003 m	0.006 m	1.402
2EO2 --> BT9 (PV138)	**Az.**	243°58'14"	0.069 sec	-0.141 sec	-1.054
	ΔHt.	61.275 m	0.006 m	-0.006 m	-0.630
	Ellip Dist.	8543.863 m	0.003 m	0.007 m	1.378
2EM1 --> BT2 (PV320)	**Az.**	359°52'39"	0.134 sec	0.194 sec	0.833
	ΔHt.	-28.233 m	0.006 m	-0.003 m	-0.326
	Ellip Dist.	4070.858 m	0.003 m	0.006 m	1.363
2CK1 --> ST6 (PV73)	**Az.**	158°03'56"	0.058 sec	0.021 sec	0.259
	ΔHt.	14.922 m	0.010 m	-0.005 m	-0.170
	Ellip Dist.	10459.059 m	0.003 m	0.006 m	1.362

2CK1 --> ST19 (PV68)	Az.	135°00'09"	0.060 sec	0.123 sec	1.344
	ΔHt.	29.178 m	0.008 m	-0.007 m	-0.548
	Ellip Dist.	10661.686 m	0.003 m	0.007 m	1.271
2CK1 --> ST24 (PV105)	Az.	146°26'12"	0.072 sec	0.015 sec	0.276
	ΔHt.	265.205 m	0.011 m	-0.002 m	-0.229
	Ellip Dist.	16488.401 m	0.006 m	-0.006 m	-1.312
BT12 --> ST7 (PV283)	Az.	306°48'38"	0.147 sec	0.248 sec	1.212
	ΔHt.	-49.001 m	0.008 m	0.008 m	0.762
	Ellip Dist.	4339.472 m	0.003 m	0.006 m	1.299
ST2 --> ST1 (PV260)	Az.	269°41'48"	0.162 sec	0.030 sec	0.153
	ΔHt.	-14.227 m	0.008 m	0.027 m	1.299
	Ellip Dist.	4159.009 m	0.003 m	0.000 m	-0.008
ST18 --> ST22 (PV61)	Az.	125°40'25"	0.073 sec	-0.038 sec	-0.337
	ΔHt.	124.918 m	0.007 m	-0.017 m	-1.294
	Ellip Dist.	8206.875 m	0.003 m	0.001 m	0.295
2EO2 --> BT2 (PV317)	Az.	288°40'15"	0.054 sec	-0.128 sec	-1.293
	ΔHt.	-33.596 m	0.006 m	0.003 m	0.241
	Ellip Dist.	10178.061 m	0.003 m	0.002 m	0.443
2CK1 --> ST18 (PV131)	Az.	152°44'27"	0.035 sec	-0.106 sec	-1.280
	ΔHt.	57.709 m	0.006 m	0.002 m	0.140
	Ellip Dist.	13167.261 m	0.002 m	0.000 m	0.080
2EM1 --> BT12 (PV29)	Az.	238°42'42"	0.300 sec	0.474 sec	1.187
	ΔHt.	6.834 m	0.007 m	-0.003 m	-0.472
	Ellip Dist.	1958.607 m	0.003 m	-0.005 m	-1.278
CG NW1 --> ST11 (PV221)	Az.	28°08'44"	0.022 sec	-0.053 sec	-1.277
	ΔHt.	-59.337 m	0.005 m	0.011 m	1.023
	Ellip Dist.	26199.213 m	0.003 m	0.002 m	0.324
BT8 --> BT10 (PV13)	Az.	235°56'42"	0.289 sec	0.054 sec	0.155
	ΔHt.	59.120 m	0.004 m	0.001 m	0.181
	Ellip Dist.	2123.442 m	0.003 m	0.005 m	1.273
BT7 --> ST9 (PV173)	Az.	282°32'56"	0.142 sec	0.073 sec	0.425
	ΔHt.	-34.384 m	0.008 m	0.015 m	0.837
	Ellip Dist.	4615.856 m	0.003 m	0.005 m	1.265

ST15 --> ST7 (PV152)	**Az.**	249°19'52"	0.133 sec	-0.124 sec	-0.646
	ΔHt.	-11.440 m	0.008 m	-0.014 m	-1.259
	Ellip Dist.	4628.467 m	0.003 m	0.003 m	0.522
2EM1 --> ST14 (PV36)	**Az.**	314°16'35"	0.122 sec	0.267 sec	1.251
	ΔHt.	-38.821 m	0.006 m	-0.004 m	-0.324
	Ellip Dist.	4541.238 m	0.003 m	0.002 m	0.519
ST21 --> ST4 (PV301)	**Az.**	291°41'55"	0.277 sec	-0.025 sec	-0.077
	ΔHt.	-1.996 m	0.005 m	0.000 m	-0.047
	Ellip Dist.	2168.682 m	0.003 m	0.004 m	1.247
ST1 --> ST14 (PV261)	**Az.**	152°02'21"	0.362 sec	0.114 sec	0.293
	ΔHt.	3.359 m	0.007 m	0.008 m	1.246
	Ellip Dist.	1968.324 m	0.003 m	0.001 m	0.235
CG NW1 --> ST19 (PV49)	**Az.**	14°31'32"	0.027 sec	0.005 sec	0.126
	ΔHt.	-86.633 m	0.008 m	-0.005 m	-0.337
	Ellip Dist.	26072.111 m	0.003 m	0.007 m	1.242
CG NW1 --> BT12 (PV46)	**Az.**	18°40'38"	0.026 sec	-0.011 sec	-0.303
	ΔHt.	-47.807 m	0.008 m	0.032 m	1.236
	Ellip Dist.	23349.176 m	0.003 m	0.001 m	0.323
ST8 --> BT10 (PV349)	**Az.**	203°18'30"	0.213 sec	-0.266 sec	-0.897
	ΔHt.	73.192 m	0.004 m	0.004 m	0.785
	Ellip Dist.	2584.999 m	0.003 m	0.005 m	1.212
BT4 --> ST8 (PV19)	**Az.**	98°26'48"	0.091 sec	0.049 sec	0.341
	ΔHt.	14.487 m	0.005 m	-0.003 m	-0.188
	Ellip Dist.	6266.513 m	0.003 m	0.005 m	1.205
CG NW1 --> ST4 (PV182)	**Az.**	32°12'09"	0.021 sec	0.016 sec	0.506
	ΔHt.	-19.993 m	0.006 m	-0.018 m	-1.204
	Ellip Dist.	25472.140 m	0.003 m	0.000 m	0.106
ST8 --> ST22 (PV351)	**Az.**	199°01'25"	0.075 sec	-0.131 sec	-1.203
	ΔHt.	121.724 m	0.006 m	-0.011 m	-0.861
	Ellip Dist.	7220.016 m	0.003 m	-0.001 m	-0.222
ST6 --> ST18 (PV137)	**Az.**	133°20'40"	0.228 sec	-0.340 sec	-1.190
	ΔHt.	42.788 m	0.010 m	-0.011 m	-1.108
	Ellip Dist.	2919.421 m	0.003 m	0.003 m	0.665

2EO2 --> BT3 (PV268)	**Az.**	279°40'25"	0.056 sec	-0.060 sec	-0.534
	ΔHt.	-30.349 m	0.005 m	-0.003 m	-0.309
	Ellip Dist.	9644.063 m	0.003 m	0.006 m	1.188
CG NW1 --> ST3 (PV56)	**Az.**	13°47'54"	0.020 sec	0.013 sec	0.404
	ΔHt.	-91.181 m	0.008 m	0.013 m	0.684
	Ellip Dist.	28817.072 m	0.003 m	-0.005 m	-1.188
ST13 --> ST20 (PV330)	**Az.**	280°15'26"	0.268 sec	-0.143 sec	-0.392
	ΔHt.	-3.029 m	0.005 m	0.004 m	0.878
	Ellip Dist.	2105.006 m	0.003 m	0.004 m	1.186
BT3 --> BT1 (PV266)	**Az.**	311°39'23"	0.313 sec	-0.005 sec	-0.014
	ΔHt.	-8.851 m	0.006 m	-0.003 m	-0.553
	Ellip Dist.	2341.154 m	0.004 m	0.005 m	1.185
ST18 --> ST4 (PV180)	**Az.**	86°48'36"	0.068 sec	0.012 sec	0.121
	ΔHt.	38.109 m	0.006 m	-0.014 m	-1.031
	Ellip Dist.	8556.993 m	0.003 m	0.005 m	1.180
ST12 --> ST13 (PV327)	**Az.**	134°25'25"	0.194 sec	-0.005 sec	-0.021
	ΔHt.	7.798 m	0.006 m	0.004 m	0.356
	Ellip Dist.	2904.732 m	0.003 m	0.004 m	1.179
2CK1 --> ST9 (PV168)	**Az.**	143°14'40"	0.048 sec	0.065 sec	0.933
	ΔHt.	41.373 m	0.008 m	0.004 m	0.144
	Ellip Dist.	12122.106 m	0.003 m	0.005 m	1.176
ST21 --> BT10 (PV308)	**Az.**	269°50'51"	0.243 sec	-0.069 sec	-0.232
	ΔHt.	36.281 m	0.005 m	0.000 m	-0.079
	Ellip Dist.	2566.271 m	0.003 m	0.004 m	1.176
BT3 --> ST20 (PV267)	**Az.**	106°49'21"	0.388 sec	0.179 sec	0.333
	ΔHt.	4.760 m	0.004 m	-0.006 m	-1.168
	Ellip Dist.	1503.073 m	0.003 m	0.001 m	0.272
ST8 --> BT8 (PV350)	**Az.**	148°08'20"	0.381 sec	-0.335 sec	-0.671
	ΔHt.	14.072 m	0.004 m	0.001 m	0.272
	Ellip Dist.	1394.978 m	0.003 m	0.004 m	1.166
2EM1 --> BT1 (PV125)	**Az.**	337°53'18"	0.144 sec	0.269 sec	1.149
	ΔHt.	-33.837 m	0.006 m	0.000 m	-0.021
	Ellip Dist.	4305.925 m	0.003 m	0.001 m	0.203

ST18 --> BT11 (PV292)	**Az.**	112°29'07"	0.088 sec	-0.021 sec	-0.161
	ΔHt.	87.200 m	0.007 m	-0.018 m	-1.144
	Ellip Dist.	6699.944 m	0.003 m	0.004 m	0.981
CG NW1 --> ST20 (PV116)	**Az.**	23°05'12"	0.016 sec	0.047 sec	1.140
	ΔHt.	-74.867 m	0.005 m	-0.002 m	-0.275
	Ellip Dist.	27326.484 m	0.002 m	-0.005 m	-0.957
ST12 --> ST20 (PV190)	**Az.**	179°53'38"	0.287 sec	-0.251 sec	-0.559
	ΔHt.	4.769 m	0.004 m	-0.004 m	-0.954
	Ellip Dist.	1658.799 m	0.002 m	0.004 m	1.132
2EM1 --> ST15 (PV151)	**Az.**	345°45'05"	0.174 sec	0.311 sec	1.130
	ΔHt.	-30.726 m	0.007 m	0.010 m	0.529
	Ellip Dist.	3318.911 m	0.003 m	0.004 m	0.949
ST16 --> ST23 (PV247)	**Az.**	229°35'45"	0.229 sec	0.050 sec	0.170
	ΔHt.	28.876 m	0.006 m	-0.002 m	-0.350
	Ellip Dist.	2909.305 m	0.003 m	0.005 m	1.124
CG NW1 --> ST13 (PV333)	**Az.**	27°18'30"	0.019 sec	-0.013 sec	-0.374
	ΔHt.	-71.838 m	0.006 m	-0.005 m	-0.244
	Ellip Dist.	27872.213 m	0.003 m	-0.005 m	-1.120
BT4 --> ST20 (PV118)	**Az.**	69°02'00"	0.192 sec	0.160 sec	0.490
	ΔHt.	-5.471 m	0.005 m	-0.006 m	-1.111
	Ellip Dist.	3075.272 m	0.003 m	0.002 m	0.632
ST8 --> ST23 (PV341)	**Az.**	211°20'01"	0.083 sec	-0.154 sec	-1.110
	ΔHt.	125.648 m	0.005 m	0.003 m	0.364
	Ellip Dist.	7401.203 m	0.003 m	0.001 m	0.169
BT7 --> ST7 (PV285)	**Az.**	291°27'44"	0.074 sec	0.150 sec	1.106
	ΔHt.	-56.753 m	0.006 m	0.003 m	0.273
	Ellip Dist.	7260.397 m	0.003 m	0.004 m	0.792
ST8 --> ST16 (PV352)	**Az.**	200°12'31"	0.112 sec	-0.177 sec	-1.105
	ΔHt.	96.773 m	0.005 m	-0.002 m	-0.150
	Ellip Dist.	4727.419 m	0.003 m	0.002 m	0.512
2EM1 --> ST18 (PV133)	**Az.**	243°25'39"	0.094 sec	0.532 sec	1.101
	ΔHt.	-3.461 m	0.005 m	-0.009 m	-0.619
	Ellip Dist.	4607.809 m	0.002 m	-0.004 m	-0.582

2EO2 --> ST1 (PV255)	**Az.**	286°32'34"	0.040 sec	-0.073 sec	-1.095
	ΔHt.	-47.542 m	0.008 m	0.038 m	0.933
	Ellip Dist.	14402.636 m	0.003 m	0.002 m	0.422
2EO2 --> ST2 (PV91)	**Az.**	293°07'08"	0.053 sec	-0.101 sec	-1.095
	ΔHt.	-33.316 m	0.008 m	0.020 m	0.595
	Ellip Dist.	10489.930 m	0.003 m	0.002 m	0.367
BT12 --> ST9 (PV171)	**Az.**	307°46'24"	0.451 sec	-0.229 sec	-0.524
	ΔHt.	-26.632 m	0.007 m	0.001 m	0.310
	Ellip Dist.	1546.426 m	0.004 m	0.004 m	1.083
ST12 --> ST1 (PV252)	**Az.**	282°19'18"	0.109 sec	0.036 sec	0.177
	ΔHt.	-17.184 m	0.007 m	-0.014 m	-1.079
	Ellip Dist.	5872.486 m	0.003 m	0.006 m	1.053
2CK1 --> ST13 (PV332)	**Az.**	120°09'39"	0.033 sec	0.057 sec	1.078
	ΔHt.	43.974 m	0.006 m	0.004 m	0.228
	Ellip Dist.	15945.485 m	0.003 m	0.000 m	0.115
2EM1 --> ST3 (PV39)	**Az.**	334°53'28"	0.099 sec	0.188 sec	1.077
	ΔHt.	-36.540 m	0.007 m	0.007 m	0.450
	Ellip Dist.	5355.327 m	0.002 m	0.004 m	0.950
2CK1 --> BT7 (PV71)	**Az.**	132°19'19"	0.028 sec	0.057 sec	1.077
	ΔHt.	75.757 m	0.005 m	-0.010 m	-0.746
	Ellip Dist.	15906.303 m	0.002 m	-0.003 m	-0.719
ST20 --> ST7 (PV110)	**Az.**	266°28'30"	0.076 sec	-0.149 sec	-1.072
	ΔHt.	-21.941 m	0.006 m	0.005 m	0.161
	Ellip Dist.	6727.545 m	0.003 m	0.003 m	0.644
2EM1 --> ST18 (PV57)	**Az.**	243°25'39"	0.094 sec	0.045 sec	0.267
	ΔHt.	-3.461 m	0.005 m	0.010 m	1.067
	Ellip Dist.	4607.809 m	0.002 m	-0.004 m	-0.961
CG NW1 --> BT9 (PV142)	**Az.**	28°49'05"	0.026 sec	-0.001 sec	-0.028
	ΔHt.	11.997 m	0.006 m	0.002 m	0.241
	Ellip Dist.	23061.315 m	0.003 m	0.006 m	1.059
CG NW1 --> BT6 (PV160)	**Az.**	25°26'18"	0.020 sec	-0.056 sec	-1.055
	ΔHt.	-64.416 m	0.006 m	0.013 m	0.498
	Ellip Dist.	26473.648 m	0.003 m	0.005 m	0.558

BT7 --> ST17 (PV235)	**Az.**	238°14'47"	0.441 sec	0.249 sec	0.552
	ΔHt.	14.006 m	0.007 m	0.002 m	0.378
	Ellip Dist.	1664.840 m	0.003 m	0.004 m	1.044
BT5 --> ST8 (PV8)	**Az.**	106°50'47"	0.084 sec	0.021 sec	0.164
	ΔHt.	26.884 m	0.006 m	0.007 m	0.404
	Ellip Dist.	6747.936 m	0.003 m	0.004 m	1.041
ST1 --> BT2 (PV312)	**Az.**	101°21'27"	0.162 sec	-0.012 sec	-0.058
	ΔHt.	13.946 m	0.007 m	0.010 m	1.034
	Ellip Dist.	4248.442 m	0.003 m	0.001 m	0.156
2EO2 --> 2CK1 (PV83)	**Az.**	294°06'42"	0.016 sec	-0.022 sec	-0.563
	ΔHt.	-66.534 m	0.005 m	-0.001 m	-0.114
	Ellip Dist.	21657.540 m	0.002 m	-0.004 m	-1.033
ST9 --> ST18 (PV166)	**Az.**	211°34'55"	0.294 sec	-0.391 sec	-1.028
	ΔHt.	16.336 m	0.008 m	-0.008 m	-0.998
	Ellip Dist.	2338.152 m	0.003 m	-0.003 m	-0.839
BT5 --> ST20 (PV121)	**Az.**	88°48'25"	0.186 sec	0.062 sec	0.216
	ΔHt.	6.925 m	0.005 m	-0.006 m	-1.024
	Ellip Dist.	3132.095 m	0.003 m	0.003 m	0.653
2CK1 --> ST20 (PV107)	**Az.**	123°06'34"	0.030 sec	-0.026 sec	-0.380
	ΔHt.	40.945 m	0.005 m	-0.021 m	-1.022
	Ellip Dist.	13985.751 m	0.002 m	-0.004 m	-0.844
ST8 --> BT11 (PV340)	**Az.**	211°34'12"	0.101 sec	-0.155 sec	-1.019
	ΔHt.	84.006 m	0.006 m	-0.009 m	-0.614
	Ellip Dist.	5400.993 m	0.003 m	0.001 m	0.303
ST7 --> ST17 (PV276)	**Az.**	123°26'25"	0.108 sec	0.127 sec	0.838
	ΔHt.	70.759 m	0.008 m	-0.004 m	-0.291
	Ellip Dist.	6403.840 m	0.004 m	0.005 m	1.009
CG NW1 --> ST5 (PV209)	**Az.**	9°12'53"	0.022 sec	0.037 sec	1.005
	ΔHt.	-98.507 m	0.008 m	0.018 m	0.731
	Ellip Dist.	26770.430 m	0.003 m	-0.002 m	-0.475
2EO2 --> CG NW1 (PV84)	**Az.**	218°11'53"	0.012 sec	0.003 sec	0.092
	ΔHt.	49.278 m	0.005 m	-0.008 m	-0.663
	Ellip Dist.	30454.124 m	0.002 m	-0.004 m	-0.983

ST22 --> BT9 (PV145)	Az.	351°34'58"	0.166 sec	0.028 sec	0.123
	ΔHt.	-54.819 m	0.006 m	-0.004 m	-0.590
	Ellip Dist.	3957.947 m	0.003 m	0.005 m	0.979
ST22 --> ST16 (PV4)	Az.	16°45'51"	0.237 sec	0.016 sec	0.056
	ΔHt.	-24.951 m	0.006 m	-0.004 m	-0.497
	Ellip Dist.	2495.524 m	0.003 m	0.003 m	0.975
CG NW1 --> ST23 (PV243)	Az.	31°17'08"	0.031 sec	0.067 sec	0.562
	ΔHt.	70.740 m	0.006 m	-0.029 m	-0.973
	Ellip Dist.	19649.729 m	0.003 m	-0.012 m	-0.358
BT8 --> ST4 (PV184)	Az.	252°31'18"	0.468 sec	0.222 sec	0.409
	ΔHt.	20.843 m	0.005 m	0.001 m	0.302
	Ellip Dist.	1266.563 m	0.003 m	0.003 m	0.972
2CK1 --> BT9 (PV139)	Az.	136°03'29"	0.033 sec	-0.006 sec	-0.096
	ΔHt.	127.809 m	0.005 m	0.009 m	0.970
	Ellip Dist.	17460.351 m	0.003 m	-0.003 m	-0.549
ST18 --> ST8 (PV346)	Az.	77°14'11"	0.055 sec	-0.040 sec	-0.463
	ΔHt.	3.194 m	0.006 m	0.000 m	-0.039
	Ellip Dist.	9242.366 m	0.002 m	-0.004 m	-0.969
ST2 --> BT2 (PV322)	Az.	179°36'16"	0.779 sec	-0.014 sec	-0.018
	ΔHt.	-0.280 m	0.006 m	-0.003 m	-0.962
	Ellip Dist.	860.458 m	0.003 m	0.001 m	0.377
ST12 --> ST7 (PV197)	Az.	252°50'26"	0.077 sec	0.016 sec	0.102
	ΔHt.	-17.172 m	0.006 m	0.002 m	0.193
	Ellip Dist.	7024.425 m	0.003 m	0.005 m	0.953
BT11 --> ST23 (PV287)	Az.	210°40'42"	0.330 sec	0.318 sec	0.802
	ΔHt.	41.643 m	0.006 m	-0.003 m	-0.638
	Ellip Dist.	2000.380 m	0.003 m	0.004 m	0.952
ST8 --> BT9 (PV343)	Az.	225°12'43"	0.147 sec	-0.220 sec	-0.948
	ΔHt.	66.905 m	0.005 m	0.004 m	0.496
	Ellip Dist.	4131.001 m	0.003 m	0.002 m	0.522
ST16 --> BT10 (PV15)	Az.	16°28'23"	0.279 sec	-0.113 sec	-0.323
	ΔHt.	-23.581 m	0.005 m	-0.003 m	-0.617
	Ellip Dist.	2150.748 m	0.003 m	0.003 m	0.946

2CK1 --> ST1 (PV256)	Az.	128°24'40"	0.079 sec	0.067 sec	0.484
	ΔHt.	18.991 m	0.008 m	0.030 m	0.946
	Ellip Dist.	7620.323 m	0.003 m	-0.001 m	-0.246
ST22 --> BT11 (PV297)	Az.	347°56'58"	0.267 sec	0.136 sec	0.430
	ΔHt.	-37.718 m	0.007 m	0.002 m	0.169
	Ellip Dist.	2274.040 m	0.003 m	0.003 m	0.920
2EO2 --> ST20 (PV106)	Az.	278°20'56"	0.051 sec	-0.074 sec	-0.678
	ΔHt.	-25.589 m	0.005 m	0.003 m	0.127
	Ellip Dist.	8155.037 m	0.002 m	0.005 m	0.918
ST23 --> BT9 (PV238)	Az.	15°01'18"	0.199 sec	0.004 sec	0.015
	ΔHt.	-58.743 m	0.005 m	-0.008 m	-0.914
	Ellip Dist.	3532.606 m	0.004 m	0.004 m	0.800
BT8 --> BT9 (PV144)	Az.	244°48'47"	0.165 sec	0.021 sec	0.088
	ΔHt.	52.833 m	0.005 m	0.001 m	0.191
	Ellip Dist.	4053.739 m	0.003 m	0.004 m	0.911
ST16 --> BT9 (PV146)	Az.	319°35'31"	0.321 sec	-0.094 sec	-0.239
	ΔHt.	-29.867 m	0.005 m	-0.003 m	-0.637
	Ellip Dist.	2004.007 m	0.003 m	0.004 m	0.905
CG NW1 --> ST14 (PV53)	Az.	12°37'57"	0.022 sec	0.004 sec	0.098
	ΔHt.	-93.462 m	0.007 m	0.008 m	0.601
	Ellip Dist.	26958.162 m	0.003 m	-0.004 m	-0.898
BT6 --> ST20 (PV157)	Az.	332°00'33"	0.398 sec	-0.396 sec	-0.756
	ΔHt.	-10.451 m	0.005 m	0.004 m	0.893
	Ellip Dist.	1394.937 m	0.003 m	0.000 m	0.107
2EO2 --> ST23 (PV239)	Az.	230°12'20"	0.053 sec	-0.082 sec	-0.860
	ΔHt.	120.018 m	0.006 m	-0.002 m	-0.260
	Ellip Dist.	11187.488 m	0.003 m	0.004 m	0.892
ST12 --> BT6 (PV187)	Az.	167°10'43"	0.189 sec	-0.120 sec	-0.469
	ΔHt.	15.220 m	0.005 m	0.001 m	0.041
	Ellip Dist.	2964.426 m	0.003 m	0.003 m	0.891
2EO2 --> ST3 (PV96)	Az.	288°44'23"	0.042 sec	-0.063 sec	-0.885
	ΔHt.	-41.903 m	0.008 m	0.012 m	0.585
	Ellip Dist.	12571.900 m	0.003 m	0.000 m	0.069

2CK1 --> ST7 (PV67)	**Az.**	148°11'17"	0.048 sec	0.093 sec	0.882
	ΔHt.	19.004 m	0.006 m	0.005 m	0.146
	Ellip Dist.	9486.310 m	0.002 m	0.001 m	0.221
BT6 --> ST11 (PV216)	**Az.**	129°17'36"	0.496 sec	-0.040 sec	-0.072
	ΔHt.	5.079 m	0.005 m	-0.003 m	-0.878
	Ellip Dist.	1274.139 m	0.003 m	0.001 m	0.293
ST18 --> ST21 (PV305)	**Az.**	91°45'17"	0.055 sec	-0.045 sec	-0.562
	ΔHt.	40.105 m	0.006 m	-0.011 m	-0.876
	Ellip Dist.	10564.566 m	0.003 m	-0.003 m	-0.767
CG NW1 --> BT7 (PV52)	**Az.**	25°59'42"	0.019 sec	-0.005 sec	-0.147
	ΔHt.	-40.055 m	0.006 m	0.005 m	0.301
	Ellip Dist.	24551.767 m	0.002 m	0.003 m	0.875
CG NW1 --> BT3 (PV270)	**Az.**	19°56'18"	0.021 sec	0.057 sec	0.531
	ΔHt.	-79.627 m	0.005 m	-0.013 m	-0.717
	Ellip Dist.	27202.116 m	0.003 m	-0.011 m	-0.858
BT12 --> ST17 (PV233)	**Az.**	116°28'59"	0.358 sec	0.302 sec	0.853
	ΔHt.	21.758 m	0.008 m	-0.004 m	-0.514
	Ellip Dist.	2087.240 m	0.004 m	0.000 m	-0.009
CG NW1 --> BT10 (PV25)	**Az.**	32°07'23"	0.022 sec	-0.033 sec	-0.850
	ΔHt.	18.284 m	0.005 m	-0.002 m	-0.272
	Ellip Dist.	24494.081 m	0.003 m	0.003 m	0.527
ST12 --> ST11 (PV215)	**Az.**	156°01'43"	0.145 sec	-0.067 sec	-0.325
	ΔHt.	20.300 m	0.005 m	0.003 m	0.457
	Ellip Dist.	4046.357 m	0.003 m	0.004 m	0.849
ST12 --> ST3 (PV203)	**Az.**	287°16'25"	0.148 sec	0.022 sec	0.092
	ΔHt.	-11.545 m	0.007 m	0.001 m	0.086
	Ellip Dist.	4017.306 m	0.003 m	0.004 m	0.841
BT11 --> BT10 (PV295)	**Az.**	38°59'53"	0.215 sec	-0.144 sec	-0.531
	ΔHt.	-10.814 m	0.005 m	-0.003 m	-0.529
	Ellip Dist.	2866.988 m	0.003 m	0.003 m	0.828
CG NW1 --> BT5 (PV55)	**Az.**	16°49'52"	0.021 sec	0.021 sec	0.473
	ΔHt.	-81.792 m	0.006 m	-0.016 m	-0.824
	Ellip Dist.	26192.332 m	0.003 m	-0.004 m	-0.749

2CK1 --> BT6 (PV159)	**Az.**	125°38'31"	0.034 sec	0.000 sec	-0.005
	ΔHt.	51.396 m	0.005 m	-0.014 m	-0.823
	Ellip Dist.	15222.694 m	0.003 m	0.000 m	0.070
2EM1 --> BT7 (PV35)	**Az.**	123°39'29"	0.216 sec	-0.251 sec	-0.492
	ΔHt.	14.586 m	0.005 m	-0.010 m	-0.807
	Ellip Dist.	1934.016 m	0.002 m	-0.004 m	-0.730
2EO2 --> BT1 (PV122)	**Az.**	285°46'11"	0.057 sec	-0.086 sec	-0.803
	ΔHt.	-39.199 m	0.006 m	0.008 m	0.670
	Ellip Dist.	11694.769 m	0.003 m	-0.001 m	-0.212
ST20 --> ST14 (PV112)	**Az.**	283°40'51"	0.122 sec	-0.044 sec	-0.237
	ΔHt.	-18.595 m	0.006 m	-0.008 m	-0.796
	Ellip Dist.	4959.115 m	0.003 m	0.000 m	-0.058
BT4 --> BT1 (PV126)	**Az.**	354°09'09"	0.231 sec	-0.235 sec	-0.796
	ΔHt.	-19.082 m	0.006 m	0.005 m	0.668
	Ellip Dist.	3107.180 m	0.004 m	0.000 m	0.049
ST20 --> BT2 (PV316)	**Az.**	322°45'47"	0.228 sec	-0.055 sec	-0.183
	ΔHt.	-8.007 m	0.006 m	-0.005 m	-0.794
	Ellip Dist.	2603.688 m	0.003 m	0.000 m	0.107
ST20 --> ST11 (PV218)	**Az.**	141°10'06"	0.225 sec	-0.172 sec	-0.468
	ΔHt.	15.530 m	0.004 m	-0.006 m	-0.794
	Ellip Dist.	2616.913 m	0.003 m	0.003 m	0.708
ST12 --> BT3 (PV264)	**Az.**	229°33'32"	0.313 sec	-0.309 sec	-0.787
	ΔHt.	0.009 m	0.005 m	0.002 m	0.501
	Ellip Dist.	1886.307 m	0.003 m	-0.001 m	-0.162
ST5 --> ST1 (PV251)	**Az.**	22°57'43"	0.393 sec	0.096 sec	0.242
	ΔHt.	1.687 m	0.007 m	0.002 m	0.407
	Ellip Dist.	1757.682 m	0.003 m	0.003 m	0.779
ST2 --> ST14 (PV5)	**Az.**	241°27'07"	0.182 sec	-0.048 sec	-0.212
	ΔHt.	-10.868 m	0.007 m	-0.006 m	-0.779
	Ellip Dist.	3684.824 m	0.003 m	0.001 m	0.247
ST7 --> ST1 (PV259)	**Az.**	16°17'35"	0.191 sec	-0.038 sec	-0.142
	ΔHt.	-0.013 m	0.008 m	0.007 m	0.777
	Ellip Dist.	3465.480 m	0.003 m	0.002 m	0.446

BT11 --> BT9 (PV289)	**Az.**	356°27'30"	0.377 sec	-0.332 sec	-0.740
	ΔHt.	-17.100 m	0.006 m	-0.003 m	-0.683
	Ellip Dist.	1694.616 m	0.003 m	0.002 m	0.462
ST3 --> BT2 (PV324)	**Az.**	108°57'45"	0.270 sec	-0.038 sec	-0.120
	ΔHt.	8.307 m	0.007 m	0.004 m	0.728
	Ellip Dist.	2393.877 m	0.003 m	0.000 m	0.135
ST21 --> BT9 (PV302)	**Az.**	263°05'07"	0.149 sec	-0.028 sec	-0.125
	ΔHt.	29.994 m	0.006 m	0.001 m	0.180
	Ellip Dist.	4508.152 m	0.003 m	0.003 m	0.728
BT10 --> ST23 (PV244)	**Az.**	215°35'26"	0.140 sec	0.029 sec	0.152
	ΔHt.	52.456 m	0.005 m	0.001 m	0.152
	Ellip Dist.	4854.953 m	0.003 m	0.003 m	0.725
BT7 --> ST11 (PV225)	**Az.**	57°10'09"	0.318 sec	0.069 sec	0.175
	ΔHt.	-19.282 m	0.005 m	-0.003 m	-0.724
	Ellip Dist.	1902.658 m	0.003 m	-0.001 m	-0.143
2EO2 --> BT4 (PV87)	**Az.**	270°27'19"	0.049 sec	-0.032 sec	-0.356
	ΔHt.	-20.117 m	0.006 m	0.017 m	0.714
	Ellip Dist.	10941.846 m	0.003 m	0.002 m	0.418
ST17 --> ST18 (PV228)	**Az.**	268°30'07"	0.171 sec	0.115 sec	0.470
	ΔHt.	-32.054 m	0.008 m	-0.008 m	-0.713
	Ellip Dist.	4316.854 m	0.003 m	-0.002 m	-0.485
2EM1 --> ST7 (PV31)	**Az.**	287°05'56"	0.077 sec	0.117 sec	0.705
	ΔHt.	-42.167 m	0.006 m	-0.005 m	-0.177
	Ellip Dist.	5385.640 m	0.002 m	-0.003 m	-0.560
BT7 --> ST18 (PV136)	**Az.**	260°12'54"	0.097 sec	0.140 sec	0.699
	ΔHt.	-18.048 m	0.006 m	-0.007 m	-0.514
	Ellip Dist.	5815.643 m	0.003 m	-0.001 m	-0.210
ST4 --> ST23 (PV237)	**Az.**	215°22'18"	0.114 sec	0.056 sec	0.336
	ΔHt.	90.733 m	0.005 m	0.001 m	0.155
	Ellip Dist.	5833.406 m	0.003 m	0.003 m	0.684
BT5 --> ST11 (PV226)	**Az.**	112°27'24"	0.126 sec	0.016 sec	0.091
	ΔHt.	22.456 m	0.005 m	0.004 m	0.667
	Ellip Dist.	5164.607 m	0.003 m	0.002 m	0.393

ST8 --> ST4 (PV342)	**Az.**	196°46'13"	0.323 sec	-0.181 sec	-0.423
	ΔHt.	34.915 m	0.004 m	0.002 m	0.667
	Ellip Dist.	1634.826 m	0.003 m	0.002 m	0.507
BT7 --> BT1 (PV128)	**Az.**	327°27'32"	0.116 sec	-0.122 sec	-0.664
	ΔHt.	-48.423 m	0.006 m	-0.003 m	-0.293
	Ellip Dist.	6004.317 m	0.003 m	-0.003 m	-0.595
CG NW1 --> BT1 (PV124)	**Az.**	15°30'20"	0.024 sec	0.028 sec	0.660
	ΔHt.	-88.478 m	0.006 m	0.002 m	0.214
	Ellip Dist.	28150.575 m	0.003 m	0.004 m	0.498
ST12 --> BT2 (PV314)	**Az.**	284°45'13"	0.372 sec	0.144 sec	0.305
	ΔHt.	-3.238 m	0.006 m	-0.004 m	-0.659
	Ellip Dist.	1626.069 m	0.003 m	0.002 m	0.463
2EO2 --> ST5 (PV207)	**Az.**	279°43'21"	0.037 sec	-0.013 sec	-0.217
	ΔHt.	-49.229 m	0.008 m	0.010 m	0.384
	Ellip Dist.	14705.813 m	0.003 m	-0.003 m	-0.657
BT7 --> BT12 (PV23)	**Az.**	270°57'50"	0.196 sec	0.142 sec	0.610
	ΔHt.	-7.752 m	0.008 m	0.009 m	0.554
	Ellip Dist.	3284.013 m	0.003 m	0.002 m	0.657
BT6 --> BT3 (PV265)	**Az.**	308°31'58"	0.233 sec	0.050 sec	0.176
	ΔHt.	-15.211 m	0.005 m	-0.003 m	-0.578
	Ellip Dist.	2676.044 m	0.003 m	0.002 m	0.655
ST12 --> BT4 (PV196)	**Az.**	226°07'32"	0.149 sec	-0.082 sec	-0.384
	ΔHt.	10.241 m	0.006 m	0.010 m	0.651
	Ellip Dist.	3979.846 m	0.003 m	0.001 m	0.175
ST18 --> ST16 (PV62)	**Az.**	107°58'31"	0.074 sec	-0.052 sec	-0.498
	ΔHt.	99.967 m	0.006 m	-0.008 m	-0.624
	Ellip Dist.	7764.005 m	0.003 m	0.002 m	0.640
ST9 --> ST6 (PV174)	**Az.**	270°13'04"	0.228 sec	-0.023 sec	-0.099
	ΔHt.	-26.451 m	0.010 m	-0.012 m	-0.627
	Ellip Dist.	3346.992 m	0.004 m	0.000 m	-0.110
2EM1 --> ST17 (PV232)	**Az.**	174°18'17"	0.324 sec	-0.088 sec	-0.215
	ΔHt.	28.592 m	0.007 m	-0.001 m	-0.211
	Ellip Dist.	1957.948 m	0.003 m	-0.003 m	-0.624

ST15 --> BT2 (PV315)	Az.	43°24'55"	0.568 sec	-0.015 sec	-0.025
	ΔHt.	2.493 m	0.007 m	0.000 m	0.003
	Ellip Dist.	1175.823 m	0.003 m	0.002 m	0.621
ST19 --> ST18 (PV135)	Az.	199°56'33"	0.167 sec	-0.139 sec	-0.566
	ΔHt.	28.531 m	0.008 m	-0.006 m	-0.490
	Ellip Dist.	4430.158 m	0.003 m	-0.003 m	-0.619
ST3 --> ST5 (PV214)	Az.	238°56'01"	0.210 sec	0.051 sec	0.210
	ΔHt.	-7.326 m	0.008 m	0.008 m	0.618
	Ellip Dist.	3020.484 m	0.003 m	0.001 m	0.378
ST4 --> BT9 (PV177)	Az.	241°19'56"	0.236 sec	-0.042 sec	-0.135
	ΔHt.	31.990 m	0.005 m	-0.001 m	-0.089
	Ellip Dist.	2803.774 m	0.003 m	0.002 m	0.617
ST3 --> ST7 (PV18)	Az.	221°20'48"	0.139 sec	-0.009 sec	-0.042
	ΔHt.	-5.627 m	0.008 m	0.005 m	0.201
	Ellip Dist.	4351.040 m	0.003 m	0.002 m	0.598
ST13 --> BT3 (PV325)	Az.	283°00'01"	0.176 sec	0.011 sec	0.048
	ΔHt.	-7.789 m	0.005 m	-0.002 m	-0.451
	Ellip Dist.	3602.288 m	0.003 m	0.002 m	0.583
2CK1 --> ST11 (PV220)	Az.	125°55'05"	0.034 sec	-0.006 sec	-0.092
	ΔHt.	56.475 m	0.005 m	0.005 m	0.582
	Ellip Dist.	16494.539 m	0.003 m	0.000 m	-0.050
2CK1 --> ST2 (PV70)	Az.	114°55'40"	0.050 sec	0.023 sec	0.265
	ΔHt.	33.218 m	0.007 m	-0.017 m	-0.578
	Ellip Dist.	11170.664 m	0.003 m	-0.001 m	-0.101
BT6 --> BT4 (PV162)	Az.	272°09'00"	0.179 sec	0.116 sec	0.509
	ΔHt.	-4.980 m	0.006 m	0.004 m	0.329
	Ellip Dist.	3529.223 m	0.003 m	0.002 m	0.578
2EO2 --> ST14 (PV93)	Az.	280°22'58"	0.043 sec	-0.044 sec	-0.570
	ΔHt.	-44.184 m	0.007 m	-0.004 m	-0.301
	Ellip Dist.	13100.563 m	0.003 m	-0.001 m	-0.121
BT10 --> BT9 (PV143)	Az.	254°18'18"	0.344 sec	0.017 sec	0.041
	ΔHt.	-6.287 m	0.005 m	0.001 m	0.122
	Ellip Dist.	1982.890 m	0.003 m	0.002 m	0.570

ST21 --> ST23 (PV300)	Az.	233°45'02"	0.101 sec	-0.026 sec	-0.169
	ΔHt.	88.737 m	0.006 m	0.002 m	0.263
	Ellip Dist.	6687.132 m	0.003 m	0.003 m	0.559
ST12 --> ST15 (PV188)	Az.	259°32'01"	0.252 sec	0.065 sec	0.179
	ΔHt.	-5.731 m	0.007 m	-0.004 m	-0.553
	Ellip Dist.	2421.069 m	0.003 m	0.002 m	0.418
ST13 --> BT1 (PV329)	Az.	294°14'03"	0.129 sec	-0.026 sec	-0.135
	ΔHt.	-16.639 m	0.006 m	-0.005 m	-0.552
	Ellip Dist.	5766.768 m	0.004 m	0.000 m	-0.047
ST7 --> ST14 (PV17)	Az.	50°02'41"	0.255 sec	-0.097 sec	-0.296
	ΔHt.	3.346 m	0.007 m	0.002 m	0.283
	Ellip Dist.	2472.533 m	0.003 m	0.002 m	0.545
2CK1 --> ST7 (PV280)	Az.	148°11'17"	0.048 sec	0.045 sec	0.463
	ΔHt.	19.004 m	0.006 m	0.001 m	0.132
	Ellip Dist.	9486.310 m	0.002 m	0.002 m	0.543
ST21 --> ST16 (PV311)	Az.	236°55'23"	0.156 sec	-0.002 sec	-0.010
	ΔHt.	59.861 m	0.006 m	0.000 m	0.003
	Ellip Dist.	3791.214 m	0.003 m	0.002 m	0.538
ST12 --> ST2 (PV199)	Az.	308°55'23"	0.301 sec	0.108 sec	0.266
	ΔHt.	-2.957 m	0.007 m	-0.001 m	-0.208
	Ellip Dist.	2028.632 m	0.003 m	0.002 m	0.527
2CK1 --> BT2 (PV318)	Az.	118°46'55"	0.049 sec	0.045 sec	0.515
	ΔHt.	32.938 m	0.006 m	0.001 m	0.057
	Ellip Dist.	11565.669 m	0.003 m	-0.002 m	-0.330
ST9 --> ST17 (PV227)	Az.	121°16'42"	0.209 sec	0.038 sec	0.164
	ΔHt.	48.390 m	0.008 m	0.000 m	0.024
	Ellip Dist.	3616.435 m	0.004 m	0.002 m	0.508
BT7 --> BT4 (PV20)	Az.	304°04'01"	0.166 sec	0.065 sec	0.287
	ΔHt.	-29.341 m	0.006 m	0.007 m	0.505
	Ellip Dist.	3517.838 m	0.003 m	0.002 m	0.439
ST7 --> BT2 (PV321)	Az.	64°08'29"	0.108 sec	-0.086 sec	-0.503
	ΔHt.	13.934 m	0.006 m	0.001 m	0.090
	Ellip Dist.	5709.220 m	0.003 m	0.002 m	0.489

ST5 --> ST15 (PV205)	**Az.**	91°01'32"	0.162 sec	0.053 sec	0.270
	ΔHt.	13.140 m	0.008 m	-0.009 m	-0.500
	Ellip Dist.	4043.898 m	0.003 m	0.001 m	0.374
BT2 --> ST14 (PV323)	**Az.**	254°28'47"	0.200 sec	-0.038 sec	-0.154
	ΔHt.	-10.588 m	0.006 m	-0.004 m	-0.499
	Ellip Dist.	3365.465 m	0.003 m	0.001 m	0.127
CG NW1 --> ST8 (PV50)	**Az.**	31°16'34"	0.016 sec	-0.003 sec	-0.093
	ΔHt.	-54.908 m	0.005 m	0.007 m	0.496
	Ellip Dist.	27050.931 m	0.002 m	-0.002 m	-0.407
ST20 --> ST2 (PV111)	**Az.**	331°40'17"	0.182 sec	-0.045 sec	-0.188
	ΔHt.	-7.727 m	0.007 m	0.008 m	0.485
	Ellip Dist.	3332.425 m	0.003 m	0.000 m	0.125
ST16 --> ST4 (PV186)	**Az.**	22°00'48"	0.188 sec	-0.112 sec	-0.482
	ΔHt.	-61.857 m	0.006 m	0.000 m	0.045
	Ellip Dist.	3097.089 m	0.003 m	0.002 m	0.478
2EO2 --> BT5 (PV95)	**Az.**	275°43'24"	0.047 sec	-0.041 sec	-0.473
	ΔHt.	-32.514 m	0.006 m	-0.002 m	-0.108
	Ellip Dist.	11256.209 m	0.003 m	0.002 m	0.481
ST9 --> ST19 (PV172)	**Az.**	7°30'30"	0.350 sec	0.162 sec	0.478
	ΔHt.	-12.195 m	0.008 m	0.002 m	0.318
	Ellip Dist.	2191.492 m	0.004 m	0.001 m	0.320
BT7 --> BT3 (PV274)	**Az.**	337°05'55"	0.154 sec	-0.092 sec	-0.432
	ΔHt.	-39.572 m	0.005 m	-0.003 m	-0.475
	Ellip Dist.	3805.277 m	0.003 m	0.001 m	0.348
ST12 --> ST5 (PV204)	**Az.**	266°45'01"	0.094 sec	0.082 sec	0.474
	ΔHt.	-18.871 m	0.007 m	-0.004 m	-0.320
	Ellip Dist.	6434.335 m	0.003 m	0.002 m	0.405
ST5 --> BT2 (PV313)	**Az.**	80°50'31"	0.134 sec	-0.024 sec	-0.132
	ΔHt.	15.633 m	0.007 m	0.004 m	0.472
	Ellip Dist.	4913.653 m	0.003 m	0.000 m	-0.020
ST20 --> ST5 (PV206)	**Az.**	281°23'02"	0.089 sec	-0.006 sec	-0.046
	ΔHt.	-23.640 m	0.007 m	0.009 m	0.471
	Ellip Dist.	6556.034 m	0.003 m	0.000 m	0.052

CG NW1 --> ST20 (PV108)	Az.	23°05'12"	0.016 sec	0.016 sec	0.469
	ΔHt.	-74.867 m	0.005 m	-0.004 m	-0.204
	Ellip Dist.	27326.484 m	0.002 m	-0.001 m	-0.269
ST7 --> ST2 (PV16)	Az.	56°51'24"	0.100 sec	-0.060 sec	-0.388
	ΔHt.	14.214 m	0.008 m	0.002 m	0.137
	Ellip Dist.	6128.213 m	0.003 m	0.002 m	0.467
ST12 --> BT1 (PV189)	Az.	275°57'54"	0.222 sec	0.043 sec	0.141
	ΔHt.	-8.841 m	0.006 m	0.002 m	0.319
	Ellip Dist.	3201.906 m	0.003 m	0.002 m	0.467
BT12 --> ST19 (PV22)	Az.	343°18'18"	0.229 sec	-0.018 sec	-0.073
	ΔHt.	-38.827 m	0.008 m	0.005 m	0.465
	Ellip Dist.	3257.215 m	0.004 m	0.001 m	0.249
ST21 --> BT8 (PV309)	Az.	325°41'00"	0.419 sec	-0.091 sec	-0.191
	ΔHt.	-22.839 m	0.005 m	-0.001 m	-0.261
	Ellip Dist.	1431.258 m	0.003 m	0.002 m	0.465
BT8 --> BT11 (PV296)	Az.	226°12'43"	0.122 sec	0.031 sec	0.189
	ΔHt.	69.933 m	0.006 m	-0.006 m	-0.421
	Ellip Dist.	4937.302 m	0.003 m	0.002 m	0.457
ST22 --> ST4 (PV185)	Az.	19°40'09"	0.107 sec	0.003 sec	0.020
	ΔHt.	-86.809 m	0.006 m	-0.001 m	-0.084
	Ellip Dist.	5586.824 m	0.003 m	0.002 m	0.455
2CK1 --> ST8 (PV69)	Az.	122°41'57"	0.022 sec	0.022 sec	0.455
	ΔHt.	60.903 m	0.005 m	0.002 m	0.155
	Ellip Dist.	17876.681 m	0.002 m	-0.001 m	-0.247
BT7 --> ST20 (PV120)	Az.	359°12'50"	0.167 sec	-0.111 sec	-0.402
	ΔHt.	-34.812 m	0.005 m	0.003 m	0.452
	Ellip Dist.	3070.397 m	0.003 m	0.001 m	0.153
ST15 --> ST14 (PV154)	Az.	268°54'05"	0.276 sec	0.074 sec	0.230
	ΔHt.	-8.094 m	0.007 m	-0.003 m	-0.451
	Ellip Dist.	2434.998 m	0.003 m	0.000 m	0.090
BT4 --> BT5 (PV21)	Az.	345°54'52"	0.568 sec	-0.060 sec	-0.093
	ΔHt.	-12.397 m	0.005 m	0.001 m	0.448
	Ellip Dist.	1067.359 m	0.003 m	0.000 m	0.018

BT8 --> ST23 (PV245)	**Az.**	221°45'20"	0.097 sec	-0.002 sec	-0.012
	ΔHt.	111.576 m	0.005 m	0.003 m	0.392
	Ellip Dist.	6885.628 m	0.003 m	0.002 m	0.447
BT3 --> ST11 (PV263)	**Az.**	128°45'57"	0.164 sec	-0.013 sec	-0.062
	ΔHt.	20.290 m	0.004 m	0.001 m	0.165
	Ellip Dist.	3950.106 m	0.003 m	0.002 m	0.445
BT4 --> ST11 (PV223)	**Az.**	101°44'13"	0.143 sec	0.040 sec	0.208
	ΔHt.	10.059 m	0.005 m	0.001 m	0.148
	Ellip Dist.	4609.528 m	0.003 m	0.002 m	0.444
ST3 --> ST15 (PV155)	**Az.**	138°15'52"	0.308 sec	0.084 sec	0.253
	ΔHt.	5.813 m	0.008 m	-0.005 m	-0.435
	Ellip Dist.	2187.156 m	0.003 m	0.001 m	0.332
ST3 --> ST1 (PV262)	**Az.**	271°47'41"	0.346 sec	0.097 sec	0.260
	ΔHt.	-5.640 m	0.007 m	-0.002 m	-0.434
	Ellip Dist.	1902.052 m	0.003 m	0.000 m	0.083
ST12 --> ST14 (PV201)	**Az.**	264°14'17"	0.130 sec	0.078 sec	0.344
	ΔHt.	-13.825 m	0.006 m	0.000 m	-0.009
	Ellip Dist.	4839.801 m	0.003 m	0.002 m	0.433
BT7 --> ST19 (PV9)	**Az.**	306°58'21"	0.131 sec	-0.039 sec	-0.229
	ΔHt.	-46.579 m	0.008 m	0.001 m	0.052
	Ellip Dist.	5279.875 m	0.004 m	0.002 m	0.424
ST4 --> BT10 (PV183)	**Az.**	214°16'12"	0.617 sec	-0.303 sec	-0.423
	ΔHt.	38.277 m	0.004 m	0.000 m	-0.138
	Ellip Dist.	978.671 m	0.003 m	0.001 m	0.269
ST21 --> BT11 (PV299)	**Az.**	242°55'45"	0.124 sec	-0.009 sec	-0.054
	ΔHt.	47.094 m	0.006 m	0.000 m	0.016
	Ellip Dist.	4909.267 m	0.003 m	0.002 m	0.421
2EO2 --> ST6 (PV94)	**Az.**	266°53'30"	0.041 sec	0.057 sec	0.286
	ΔHt.	-51.612 m	0.010 m	0.023 m	0.419
	Ellip Dist.	15904.112 m	0.003 m	-0.002 m	-0.186
BT8 --> ST16 (PV12)	**Az.**	216°05'05"	0.146 sec	-0.019 sec	-0.102
	ΔHt.	82.700 m	0.005 m	0.003 m	0.259
	Ellip Dist.	4023.306 m	0.003 m	0.002 m	0.417

BT7 --> BT6 (PV164)	Az.	18°25'49"	0.294 sec	0.084 sec	0.227
	ΔHt.	-24.361 m	0.005 m	-0.002 m	-0.410
	Ellip Dist.	1937.778 m	0.003 m	0.000 m	-0.032
BT12 --> ST18 (PV134)	Az.	246°53'13"	0.252 sec	-0.058 sec	-0.170
	ΔHt.	-10.296 m	0.008 m	-0.002 m	-0.164
	Ellip Dist.	2660.709 m	0.003 m	-0.002 m	-0.402
BT6 --> BT5 (PV165)	Az.	287°08'29"	0.158 sec	0.057 sec	0.284
	ΔHt.	-17.376 m	0.006 m	0.000 m	0.033
	Ellip Dist.	3962.122 m	0.003 m	0.001 m	0.401
2CK1 --> ST5 (PV208)	Az.	140°14'16"	0.069 sec	-0.008 sec	-0.065
	ΔHt.	17.305 m	0.007 m	-0.009 m	-0.392
	Ellip Dist.	8264.906 m	0.003 m	0.001 m	0.270
ST6 --> ST19 (PV10)	Az.	59°14'57"	0.199 sec	0.009 sec	0.042
	ΔHt.	14.257 m	0.010 m	-0.001 m	-0.135
	Ellip Dist.	4226.888 m	0.004 m	0.002 m	0.389
BT5 --> BT3 (PV275)	Az.	73°32'37"	0.364 sec	0.064 sec	0.155
	ΔHt.	2.165 m	0.005 m	0.000 m	0.068
	Ellip Dist.	1764.889 m	0.003 m	0.001 m	0.384
ST5 --> ST14 (PV213)	Az.	94°16'08"	0.409 sec	-0.153 sec	-0.330
	ΔHt.	5.045 m	0.007 m	0.002 m	0.377
	Ellip Dist.	1613.195 m	0.003 m	0.001 m	0.311
BT4 --> BT3 (PV272)	Az.	43°01'30"	0.307 sec	0.096 sec	0.268
	ΔHt.	-10.231 m	0.005 m	0.002 m	0.377
	Ellip Dist.	2099.966 m	0.003 m	0.000 m	0.088
ST13 --> ST11 (PV326)	Az.	194°31'03"	0.362 sec	-0.016 sec	-0.038
	ΔHt.	12.502 m	0.005 m	-0.001 m	-0.209
	Ellip Dist.	1718.951 m	0.003 m	0.001 m	0.375
ST11 --> BT1 (PV217)	Az.	309°51'34"	0.120 sec	-0.068 sec	-0.375
	ΔHt.	-29.141 m	0.006 m	-0.002 m	-0.196
	Ellip Dist.	6289.390 m	0.004 m	0.002 m	0.278
BT5 --> BT1 (PV129)	Az.	358°24'56"	0.345 sec	-0.139 sec	-0.351
	ΔHt.	-6.685 m	0.006 m	0.000 m	-0.018
	Ellip Dist.	2056.528 m	0.004 m	0.001 m	0.365

BT7 --> ST6 (PV2)	Az.	277°22'50"	0.087 sec	0.035 sec	0.307
	ΔHt.	-60.835 m	0.010 m	0.010 m	0.362
	Ellip Dist.	7918.152 m	0.003 m	0.000 m	0.111
ST13 --> BT4 (PV335)	Az.	261°40'01"	0.128 sec	0.028 sec	0.162
	ΔHt.	2.443 m	0.006 m	0.002 m	0.162
	Ellip Dist.	4996.329 m	0.003 m	0.001 m	0.361
ST3 --> ST20 (PV113)	Az.	126°34'54"	0.122 sec	-0.058 sec	-0.340
	ΔHt.	16.314 m	0.007 m	-0.004 m	-0.246
	Ellip Dist.	4782.405 m	0.003 m	0.001 m	0.357
ST13 --> BT6 (PV328)	Az.	238°49'53"	0.370 sec	0.032 sec	0.075
	ΔHt.	7.422 m	0.005 m	0.001 m	0.354
	Ellip Dist.	1655.891 m	0.003 m	0.001 m	0.334
ST12 --> BT5 (PV202)	Az.	241°09'19"	0.165 sec	-0.044 sec	-0.194
	ΔHt.	-2.156 m	0.006 m	0.005 m	0.344
	Ellip Dist.	3571.478 m	0.003 m	0.000 m	0.010
ST22 --> BT8 (PV11)	Az.	28°41'52"	0.093 sec	-0.020 sec	-0.170
	ΔHt.	-107.652 m	0.006 m	0.004 m	0.335
	Ellip Dist.	6431.670 m	0.003 m	0.000 m	0.072
BT12 --> ST6 (PV24)	Az.	281°52'11"	0.160 sec	0.030 sec	0.164
	ΔHt.	-53.083 m	0.010 m	-0.008 m	-0.334
	Ellip Dist.	4669.159 m	0.004 m	0.001 m	0.310
ST18 --> BT8 (PV60)	Az.	84°58'23"	0.059 sec	-0.027 sec	-0.329
	ΔHt.	17.266 m	0.006 m	-0.004 m	-0.283
	Ellip Dist.	9789.093 m	0.003 m	0.000 m	0.109
ST12 --> ST20 (PV191)	Az.	179°53'38"	0.287 sec	-0.010 sec	-0.021
	ΔHt.	4.769 m	0.004 m	0.001 m	0.211
	Ellip Dist.	1658.799 m	0.002 m	-0.001 m	-0.320
ST6 --> ST17 (PV236)	Az.	106°20'40"	0.120 sec	0.007 sec	0.047
	ΔHt.	74.841 m	0.010 m	0.000 m	0.035
	Ellip Dist.	6709.574 m	0.004 m	0.001 m	0.300
ST4 --> BT11 (PV288)	Az.	217°48'20"	0.156 sec	-0.060 sec	-0.298
	ΔHt.	49.090 m	0.006 m	0.000 m	0.031
	Ellip Dist.	3843.161 m	0.003 m	0.001 m	0.278

BT6 --> BT1 (PV156)	**Az.**	309°59'46"	0.146 sec	-0.060 sec	-0.284
	ΔHt.	-24.062 m	0.006 m	-0.003 m	-0.291
	Ellip Dist.	5015.327 m	0.004 m	0.002 m	0.295
ST3 --> ST14 (PV1)	**Az.**	210°13'57"	0.342 sec	0.028 sec	0.072
	ΔHt.	-2.281 m	0.007 m	0.002 m	0.288
	Ellip Dist.	1943.504 m	0.003 m	0.001 m	0.260
ST8 --> BT1 (PV127)	**Az.**	301°39'29"	0.090 sec	-0.007 sec	-0.045
	ΔHt.	-33.569 m	0.006 m	-0.002 m	-0.157
	Ellip Dist.	7651.063 m	0.003 m	0.002 m	0.279
2CK1 --> ST3 (PV75)	**Az.**	121°19'57"	0.059 sec	0.028 sec	0.275
	ΔHt.	24.631 m	0.007 m	-0.002 m	-0.116
	Ellip Dist.	9216.324 m	0.003 m	0.000 m	-0.092
ST19 --> ST17 (PV234)	**Az.**	145°18'11"	0.159 sec	-0.004 sec	-0.024
	ΔHt.	60.585 m	0.009 m	0.000 m	0.038
	Ellip Dist.	4926.476 m	0.004 m	0.001 m	0.253
ST16 --> BT11 (PV298)	**Az.**	262°06'53"	0.500 sec	-0.048 sec	-0.083
	ΔHt.	-12.767 m	0.005 m	0.001 m	0.250
	Ellip Dist.	1205.973 m	0.003 m	0.000 m	0.130
ST13 --> BT5 (PV338)	**Az.**	273°25'26"	0.121 sec	0.014 sec	0.084
	ΔHt.	-9.954 m	0.006 m	-0.004 m	-0.246
	Ellip Dist.	5212.119 m	0.003 m	0.001 m	0.220
BT7 --> ST12 (PV200)	**Az.**	359°27'09"	0.110 sec	-0.043 sec	-0.242
	ΔHt.	-39.582 m	0.006 m	0.002 m	0.144
	Ellip Dist.	4729.120 m	0.003 m	0.001 m	0.240
ST5 --> ST7 (PV211)	**Az.**	189°31'38"	0.361 sec	-0.101 sec	-0.235
	ΔHt.	1.699 m	0.007 m	-0.001 m	-0.143
	Ellip Dist.	1731.750 m	0.003 m	0.001 m	0.180
2CK1 --> ST14 (PV72)	**Az.**	133°11'22"	0.062 sec	0.008 sec	0.066
	ΔHt.	22.350 m	0.007 m	-0.002 m	-0.133
	Ellip Dist.	9456.990 m	0.003 m	0.001 m	0.231
ST3 --> ST2 (PV6)	**Az.**	87°54'22"	0.280 sec	-0.057 sec	-0.179
	ΔHt.	8.587 m	0.008 m	0.003 m	0.228
	Ellip Dist.	2259.335 m	0.003 m	0.000 m	0.114

2EO2 --> ST9 (PV167)	Az.	265°59'12"	0.050 sec	0.023 sec	0.081
	ΔHt.	-25.160 m	0.008 m	-0.001 m	-0.016
	Ellip Dist.	12564.578 m	0.003 m	-0.006 m	-0.221
2CK1 --> ST17 (PV230)	Az.	138°14'22"	0.041 sec	-0.008 sec	-0.124
	ΔHt.	89.763 m	0.007 m	0.001 m	0.076
	Ellip Dist.	15534.229 m	0.003 m	0.001 m	0.213
ST21 --> ST22 (PV310)	Az.	221°09'39"	0.101 sec	-0.007 sec	-0.054
	ΔHt.	84.813 m	0.007 m	-0.003 m	-0.212
	Ellip Dist.	5921.759 m	0.003 m	0.000 m	0.097
BT7 --> BT5 (PV3)	Az.	313°26'45"	0.133 sec	0.017 sec	0.091
	ΔHt.	-41.738 m	0.006 m	0.000 m	-0.012
	Ellip Dist.	4371.157 m	0.003 m	0.001 m	0.205
BT7 --> ST13 (PV337)	Az.	36°58'20"	0.171 sec	0.043 sec	0.187
	ΔHt.	-31.784 m	0.006 m	-0.001 m	-0.041
	Ellip Dist.	3374.155 m	0.003 m	0.001 m	0.171
ST5 --> ST2 (PV212)	Az.	71°16'18"	0.126 sec	-0.013 sec	-0.083
	ΔHt.	15.913 m	0.008 m	0.003 m	0.130
	Ellip Dist.	5115.508 m	0.003 m	0.000 m	-0.110

Covariance Terms

From Point	To Point		Components	A-posteriori Error	Horiz. Precision (Ratio)	3D Precision (Ratio)
2CK1	BT1	Az.	123°32'38"	0.062 sec	1 : 3340974	1 : 3337911
		ΔHt.	27.334 m	0.005 m		
		ΔElev.	27.164 m	0.005 m		
		Ellip Dist.	10228.221 m	0.003 m		
2CK1	BT10	Az.	130°37'48"	0.028 sec	1 : 7396815	1 : 7389207
		ΔHt.	134.104 m	0.005 m		
		ΔElev.	133.765 m	0.005 m		
		Ellip Dist.	18479.162 m	0.002 m		
2CK1	BT11	Az.	139°24'19"	0.027 sec	1 : 7614417	1 : 7611932
		ΔHt.	144.929 m	0.007 m		
		ΔElev.	144.610 m	0.007 m		

		Ellip Dist.	18784.289 m	0.002 m		
2CK1	BT12	**Az.**	141°30'11"	0.041 sec	1 : 4758394	1 : 4760032
		ΔHt.	68.021 m	0.007 m		
		ΔElev.	67.775 m	0.007 m		
		Ellip Dist.	13618.432 m	0.003 m		
2CK1	BT2	**Az.**	118°46'54"	0.046 sec	1 : 4437899	1 : 4440869
		ΔHt.	32.934 m	0.006 m		
		ΔElev.	32.743 m	0.006 m		
		Ellip Dist.	11565.673 m	0.003 m		
2CK1	BT3	**Az.**	125°02'28"	0.040 sec	1 : 5083240	1 : 5081083
		ΔHt.	36.186 m	0.004 m		
		ΔElev.	35.961 m	0.004 m		
		Ellip Dist.	12550.580 m	0.002 m		
2CK1	BT4	**Az.**	134°40'08"	0.039 sec	1 : 5031992	1 : 5029521
		ΔHt.	46.425 m	0.005 m		
		ΔElev.	46.198 m	0.005 m		
		Ellip Dist.	12435.962 m	0.002 m		
2CK1	BT5	**Az.**	131°55'20"	0.043 sec	1 : 4770022	1 : 4768059
		ΔHt.	34.026 m	0.005 m		
		ΔElev.	33.819 m	0.005 m		
		Ellip Dist.	11536.171 m	0.002 m		
2CK1	BT6	**Az.**	125°38'31"	0.032 sec	1 : 6474138	1 : 6471817
		ΔHt.	51.398 m	0.005 m		
		ΔElev.	51.117 m	0.005 m		
		Ellip Dist.	15222.699 m	0.002 m		
2CK1	BT7	**Az.**	132°19'19"	0.026 sec	1 : 7685417	1 : 7680784
		ΔHt.	75.766 m	0.005 m		
		ΔElev.	75.468 m	0.005 m		
		Ellip Dist.	15906.308 m	0.002 m		
2CK1	BT8	**Az.**	124°29'12"	0.026 sec	1 : 8103806	1 : 8102816
		ΔHt.	74.977 m	0.005 m		
		ΔElev.	74.635 m	0.005 m		
		Ellip Dist.	19146.647 m	0.002 m		
2CK1	BT9	**Az.**	136°03'29"	0.032 sec	1 : 6342841	1 : 6331866
		ΔHt.	127.823 m	0.006 m		
		ΔElev.	127.506 m	0.006 m		
		Ellip Dist.	17460.357 m	0.003 m		

2CK1	CG NW1	**Az.**	178°14'56"	0.017 sec	1 : 11852341	1 : 11866984
		ΔHt.	115.914 m	0.022 m		
		ΔElev.	116.050 m	0.022 m		
		Ellip Dist.	32794.019 m	0.003 m		
2CK1	ST1	**Az.**	128°24'40"	0.075 sec	1 : 2760282	1 : 2762236
		ΔHt.	18.994 m	0.007 m		
		ΔElev.	18.886 m	0.007 m		
		Ellip Dist.	7620.325 m	0.003 m		
2CK1	ST11	**Az.**	125°55'05"	0.032 sec	1 : 6526816	1 : 6523783
		ΔHt.	56.478 m	0.004 m		
		ΔElev.	56.173 m	0.004 m		
		Ellip Dist.	16494.545 m	0.003 m		
2CK1	ST12	**Az.**	117°03'21"	0.031 sec	1 : 6668388	1 : 6668246
		ΔHt.	36.170 m	0.005 m		
		ΔElev.	35.947 m	0.005 m		
		Ellip Dist.	13148.739 m	0.002 m		
2CK1	ST13	**Az.**	120°09'39"	0.031 sec	1 : 6748284	1 : 6746002
		ΔHt.	43.970 m	0.005 m		
		ΔElev.	43.689 m	0.005 m		
		Ellip Dist.	15945.491 m	0.002 m		
2CK1	ST14	**Az.**	133°11'22"	0.059 sec	1 : 3524673	1 : 3527222
		ΔHt.	22.356 m	0.006 m		
		ΔElev.	22.199 m	0.006 m		
		Ellip Dist.	9456.993 m	0.003 m		
2CK1	ST15	**Az.**	124°32'52"	0.048 sec	1 : 4254649	1 : 4257383
		ΔHt.	30.445 m	0.007 m		
		ΔElev.	30.248 m	0.007 m		
		Ellip Dist.	11327.018 m	0.003 m		
2CK1	ST16	**Az.**	136°24'49"	0.025 sec	1 : 8144185	1 : 8142898
		ΔHt.	157.693 m	0.007 m		
		ΔElev.	157.356 m	0.007 m		
		Ellip Dist.	19461.097 m	0.002 m		
2CK1	ST17	**Az.**	138°14'22"	0.040 sec	1 : 4641090	1 : 4646731
		ΔHt.	89.778 m	0.007 m		
		ΔElev.	89.492 m	0.007 m		
		Ellip Dist.	15534.234 m	0.003 m		

2CK1	ST18	Az.	152°44'26"	0.033 sec	1 : 6105569	1 : 6106025
		ΔHt.	57.734 m	0.007 m		
		ΔElev.	57.537 m	0.007 m		
		Ellip Dist.	13167.265 m	0.002 m		
2CK1	ST19	Az.	135°00'08"	0.058 sec	1 : 3210268	1 : 3212573
		ΔHt.	29.187 m	0.007 m		
		ΔElev.	29.000 m	0.007 m		
		Ellip Dist.	10661.690 m	0.003 m		
2CK1	ST2	Az.	114°55'40"	0.047 sec	1 : 4258088	1 : 4261250
		ΔHt.	33.212 m	0.007 m		
		ΔElev.	33.035 m	0.007 m		
		Ellip Dist.	11170.668 m	0.003 m		
2CK1	ST20	Az.	123°06'34"	0.027 sec	1 : 7489874	1 : 7489631
		ΔHt.	40.945 m	0.004 m		
		ΔElev.	40.692 m	0.004 m		
		Ellip Dist.	13985.756 m	0.002 m		
2CK1	ST21	Az.	125°55'40"	0.025 sec	1 : 8510133	1 : 8507798
		ΔHt.	97.818 m	0.005 m		
		ΔElev.	97.458 m	0.005 m		
		Ellip Dist.	20488.431 m	0.002 m		
2CK1	ST22	Az.	142°23'27"	0.026 sec	1 : 8369346	1 : 8369589
		ΔHt.	182.653 m	0.008 m		
		ΔElev.	182.350 m	0.008 m		
		Ellip Dist.	20811.580 m	0.002 m		
2CK1	ST23	Az.	144°58'19"	0.030 sec	1 : 6716020	1 : 6702328
		ΔHt.	186.579 m	0.008 m		
		ΔElev.	186.294 m	0.008 m		
		Ellip Dist.	19520.964 m	0.003 m		
2CK1	ST24	Az.	146°26'12"	0.071 sec	1 : 2638919	1 : 2634649
		ΔHt.	265.230 m	0.012 m		
		ΔElev.	264.961 m	0.012 m		
		Ellip Dist.	16488.406 m	0.006 m		
2CK1	ST3	Az.	121°19'57"	0.056 sec	1 : 3691167	1 : 3693183
		ΔHt.	24.630 m	0.007 m		
		ΔElev.	24.487 m	0.007 m		
		Ellip Dist.	9216.328 m	0.002 m		
2CK1	ST4	Az.	127°35'58"	0.027 sec	1 : 7813923	1 : 7812753

		ΔHt.	95.824 m	0.005 m		
		ΔElev.	95.487 m	0.005 m		
		Ellip Dist.	18395.022 m	0.002 m		
2CK1	ST5	Az.	140°14'16"	0.066 sec	1 : 3260465	1 : 3261768
		ΔHt.	17.314 m	0.007 m		
		ΔElev.	17.189 m	0.007 m		
		Ellip Dist.	8264.909 m	0.003 m		
2CK1	ST6	Az.	158°03'56"	0.056 sec	1 : 3319510	1 : 3321070
		ΔHt.	14.944 m	0.010 m		
		ΔElev.	14.810 m	0.010 m		
		Ellip Dist.	10459.063 m	0.003 m		
2CK1	ST7	Az.	148°11'17"	0.045 sec	1 : 4577211	1 : 4580619
		ΔHt.	19.019 m	0.006 m		
		ΔElev.	18.875 m	0.006 m		
		Ellip Dist.	9486.313 m	0.002 m		
2CK1	ST8	Az.	122°41'57"	0.021 sec	1 : 10074106	1 : 10070246
		ΔHt.	60.902 m	0.004 m		
		ΔElev.	60.582 m	0.004 m		
		Ellip Dist.	17876.687 m	0.002 m		
2CK1	ST9	Az.	143°14'40"	0.047 sec	1 : 4049577	1 : 4051644
		ΔHt.	41.389 m	0.008 m		
		ΔElev.	41.177 m	0.008 m		
		Ellip Dist.	12122.111 m	0.003 m		
2EM1	2CK1	Az.	313°34'57"	0.000 sec	1 : 0	1 : 0
		ΔHt.	-61.180 m	0.000 m		
		ΔElev.	-60.918 m	0.000 m		
		Ellip Dist.	13997.740 m	0.000 m		
2EM1	2EO2	Az.	85°07'27"	0.000 sec	1 : 0	1 : 0
		ΔHt.	5.340 m	0.000 m		
		ΔElev.	5.264 m	0.000 m		
		Ellip Dist.	9671.940 m	0.000 m		
2EM1	BT1	Az.	337°53'18"	0.144 sec	1 : 1367296	1 : 1363671
		ΔHt.	-33.846 m	0.005 m		
		ΔElev.	-33.754 m	0.005 m		
		Ellip Dist.	4305.926 m	0.003 m		
2EM1	BT10	Az.	121°45'59"	0.115 sec	1 : 1833467	1 : 1829116
		ΔHt.	72.924 m	0.005 m		

		ΔElev.	72.847 m	0.005 m		
		Ellip Dist.	4554.380 m	0.002 m		
2EM1	BT11	Az.	155°54'36"	0.099 sec	1 : 2035772	1 : 2034966
		ΔHt.	83.749 m	0.007 m		
		ΔElev.	83.691 m	0.007 m		
		Ellip Dist.	5067.564 m	0.002 m		
2EM1	BT12	Az.	238°42'42"	0.301 sec	1 : 720390	1 : 720555
		ΔHt.	6.841 m	0.007 m		
		ΔElev.	6.857 m	0.007 m		
		Ellip Dist.	1958.608 m	0.003 m		
2EM1	BT2	Az.	359°52'39"	0.133 sec	1 : 1595104	1 : 1596259
		ΔHt.	-28.246 m	0.006 m		
		ΔElev.	-28.176 m	0.006 m		
		Ellip Dist.	4070.859 m	0.003 m		
2EM1	BT3	Az.	3°01'15"	0.205 sec	1 : 974399	1 : 973296
		ΔHt.	-24.994 m	0.004 m		
		ΔElev.	-24.957 m	0.004 m		
		Ellip Dist.	2436.572 m	0.003 m		
2EM1	BT4	Az.	304°32'44"	0.312 sec	1 : 646208	1 : 645343
		ΔHt.	-14.755 m	0.005 m		
		ΔElev.	-14.720 m	0.005 m		
		Ellip Dist.	1583.928 m	0.002 m		
2EM1	BT5	Az.	321°01'33"	0.197 sec	1 : 1021027	1 : 1019677
		ΔHt.	-27.154 m	0.005 m		
		ΔElev.	-27.099 m	0.005 m		
		Ellip Dist.	2487.026 m	0.002 m		
2EM1	BT6	Az.	70°57'59"	0.210 sec	1 : 1004270	1 : 1004841
		ΔHt.	-9.782 m	0.005 m		
		ΔElev.	-9.801 m	0.005 m		
		Ellip Dist.	2350.640 m	0.002 m		
2EM1	BT7	Az.	123°39'29"	0.218 sec	1 : 936238	1 : 935129
		ΔHt.	14.586 m	0.005 m		
		ΔElev.	14.550 m	0.005 m		
		Ellip Dist.	1934.016 m	0.002 m		
2EM1	BT8	Az.	102°06'15"	0.086 sec	1 : 2446328	1 : 2446095
		ΔHt.	13.797 m	0.005 m		

		ΔElev.	13.717 m	0.005 m		
		Ellip Dist.	5758.756 m	0.002 m		
2EM1	BT9	Az.	146°13'04"	0.157 sec	1 : 1271188	1 : 1265276
		ΔHt.	66.643 m	0.006 m		
		ΔElev.	66.587 m	0.006 m		
		Ellip Dist.	3531.039 m	0.003 m		
2EM1	CG NW1	Az.	201°37'48"	0.023 sec	1 : 9081582	1 : 9089420
		ΔHt.	54.734 m	0.022 m		
		ΔElev.	55.132 m	0.022 m		
		Ellip Dist.	24881.830 m	0.003 m		
2EM1	ST1	Az.	319°37'50"	0.090 sec	1 : 2366250	1 : 2370114
		ΔHt.	-42.186 m	0.007 m		
		ΔElev.	-42.033 m	0.007 m		
		Ellip Dist.	6443.589 m	0.003 m		
2EM1	ST11	Az.	90°42'57"	0.166 sec	1 : 1286332	1 : 1286437
		ΔHt.	-4.702 m	0.004 m		
		ΔElev.	-4.745 m	0.004 m		
		Ellip Dist.	3208.635 m	0.002 m		
2EM1	ST12	Az.	23°09'10"	0.102 sec	1 : 1996247	1 : 1997009
		ΔHt.	-25.010 m	0.005 m		
		ΔElev.	-24.971 m	0.005 m		
		Ellip Dist.	3977.336 m	0.002 m		
2EM1	ST13	Az.	65°56'46"	0.124 sec	1 : 1707832	1 : 1708733
		ΔHt.	-17.210 m	0.005 m		
		ΔElev.	-17.229 m	0.005 m		
		Ellip Dist.	3984.686 m	0.002 m		
2EM1	ST14	Az.	314°16'34"	0.122 sec	1 : 1692834	1 : 1696975
		ΔHt.	-38.824 m	0.006 m		
		ΔElev.	-38.719 m	0.006 m		
		Ellip Dist.	4541.239 m	0.003 m		
2EM1	ST15	Az.	345°45'04"	0.173 sec	1 : 1306981	1 : 1308215
		ΔHt.	-30.735 m	0.007 m		
		ΔElev.	-30.670 m	0.007 m		
		Ellip Dist.	3318.912 m	0.003 m		
2EM1	ST16	Az.	143°48'46"	0.089 sec	1 : 2304222	1 : 2302922
		ΔHt.	96.513 m	0.007 m		
		ΔElev.	96.438 m	0.007 m		

		Ellip Dist.	5526.452 m	0.002 m		
2EM1	ST17	**Az.**	174°18'17"	0.325 sec	1 : 597046	1 : 599294
		ΔHt.	28.598 m	0.007 m		
		ΔElev.	28.574 m	0.007 m		
		Ellip Dist.	1957.949 m	0.003 m		
2EM1	ST18	**Az.**	243°25'38"	0.097 sec	1 : 2195944	1 : 2195698
		ΔHt.	-3.446 m	0.007 m		
		ΔElev.	-3.381 m	0.007 m		
		Ellip Dist.	4607.811 m	0.002 m		
2EM1	ST19	**Az.**	308°52'11"	0.187 sec	1 : 1014141	1 : 1016474
		ΔHt.	-31.993 m	0.007 m		
		ΔElev.	-31.918 m	0.007 m		
		Ellip Dist.	3350.933 m	0.003 m		
2EM1	ST2	**Az.**	359°49'48"	0.112 sec	1 : 1976992	1 : 1977892
		ΔHt.	-27.968 m	0.007 m		
		ΔElev.	-27.883 m	0.007 m		
		Ellip Dist.	4931.310 m	0.002 m		
2EM1	ST20	**Az.**	38°06'23"	0.152 sec	1 : 1365963	1 : 1365573
		ΔHt.	-20.235 m	0.004 m		
		ΔElev.	-20.226 m	0.004 m		
		Ellip Dist.	2539.451 m	0.002 m		
2EM1	ST21	**Az.**	110°21'32"	0.074 sec	1 : 2829334	1 : 2828202
		ΔHt.	36.638 m	0.005 m		
		ΔElev.	36.540 m	0.005 m		
		Ellip Dist.	6867.391 m	0.002 m		
2EM1	ST22	**Az.**	159°37'38"	0.073 sec	1 : 2914094	1 : 2915822
		ΔHt.	121.473 m	0.008 m		
		ΔElev.	121.431 m	0.008 m		
		Ellip Dist.	7307.082 m	0.003 m		
2EM1	ST23	**Az.**	170°37'20"	0.089 sec	1 : 2173260	1 : 2165816
		ΔHt.	125.399 m	0.008 m		
		ΔElev.	125.376 m	0.008 m		
		Ellip Dist.	6432.806 m	0.003 m		
2EM1	ST24	**Az.**	194°12'53"	0.278 sec	1 : 679151	1 : 679826
		ΔHt.	204.050 m	0.012 m		
		ΔElev.	204.043 m	0.012 m		

		Ellip Dist.	4228.337 m	0.006 m		
2EM1	ST3	**Az.**	334°53'28"	0.099 sec	1 : 2207414	1 : 2209254
		ΔHt.	-36.550 m	0.007 m		
		ΔElev.	-36.431 m	0.007 m		
		Ellip Dist.	5355.329 m	0.002 m		
2EM1	ST4	**Az.**	109°45'29"	0.105 sec	1 : 2006992	1 : 2006300
		ΔHt.	34.644 m	0.005 m		
		ΔElev.	34.568 m	0.005 m		
		Ellip Dist.	4699.527 m	0.002 m		
2EM1	ST5	**Az.**	304°06'19"	0.091 sec	1 : 2272454	1 : 2275545
		ΔHt.	-43.866 m	0.007 m		
		ΔElev.	-43.729 m	0.007 m		
		Ellip Dist.	5869.640 m	0.003 m		
2EM1	ST6	**Az.**	269°29'09"	0.102 sec	1 : 2146793	1 : 2147150
		ΔHt.	-46.236 m	0.010 m		
		ΔElev.	-46.108 m	0.010 m		
		Ellip Dist.	6243.169 m	0.003 m		
2EM1	ST7	**Az.**	287°05'55"	0.077 sec	1 : 2550034	1 : 2555463
		ΔHt.	-42.161 m	0.006 m		
		ΔElev.	-42.043 m	0.006 m		
		Ellip Dist.	5385.642 m	0.002 m		
2EM1	ST8	**Az.**	90°16'15"	0.076 sec	1 : 2757067	1 : 2757126
		ΔHt.	-0.278 m	0.004 m		
		ΔElev.	-0.336 m	0.004 m		
		Ellip Dist.	4893.830 m	0.002 m		
2EM1	ST9	**Az.**	268°37'14"	0.208 sec	1 : 1027186	1 : 1027135
		ΔHt.	-19.791 m	0.008 m		
		ΔElev.	-19.741 m	0.008 m		
		Ellip Dist.	2896.793 m	0.003 m		
2EO2	2CK1	**Az.**	294°06'42"	0.000 sec	1 : 0	1 : 0
		ΔHt.	-66.520 m	0.000 m		
		ΔElev.	-66.182 m	0.000 m		
		Ellip Dist.	21657.548 m	0.000 m		
2EO2	BT1	**Az.**	285°46'11"	0.055 sec	1 : 3879537	1 : 3875550
		ΔHt.	-39.186 m	0.005 m		
		ΔElev.	-39.018 m	0.005 m		
		Ellip Dist.	11694.773 m	0.003 m		

2EO2	BT10	Az.	240°52'21"	0.079 sec	1 : 2663328	1 : 2664757
		ΔHt.	67.584 m	0.005 m		
		ΔElev.	67.583 m	0.005 m		
		Ellip Dist.	6603.005 m	0.002 m		
2EO2	BT11	Az.	234°18'29"	0.055 sec	1 : 3824192	1 : 3828717
		ΔHt.	78.409 m	0.007 m		
		ΔElev.	78.427 m	0.007 m		
		Ellip Dist.	9325.544 m	0.002 m		
2EO2	BT12	Az.	260°49'14"	0.051 sec	1 : 4167732	1 : 4167160
		ΔHt.	1.501 m	0.007 m		
		ΔElev.	1.593 m	0.007 m		
		Ellip Dist.	11459.266 m	0.003 m		
2EO2	BT2	Az.	288°40'15"	0.052 sec	1 : 3888904	1 : 3891937
		ΔHt.	-33.586 m	0.006 m		
		ΔElev.	-33.440 m	0.006 m		
		Ellip Dist.	10178.065 m	0.003 m		
2EO2	BT3	Az.	279°40'24"	0.053 sec	1 : 3968168	1 : 3966555
		ΔHt.	-30.334 m	0.004 m		
		ΔElev.	-30.221 m	0.004 m		
		Ellip Dist.	9644.066 m	0.002 m		
2EO2	BT4	Az.	270°27'19"	0.047 sec	1 : 4618354	1 : 4616620
		ΔHt.	-20.095 m	0.005 m		
		ΔElev.	-19.984 m	0.005 m		
		Ellip Dist.	10941.850 m	0.002 m		
2EO2	BT5	Az.	275°43'23"	0.045 sec	1 : 4777397	1 : 4774808
		ΔHt.	-32.494 m	0.005 m		
		ΔElev.	-32.363 m	0.005 m		
		Ellip Dist.	11256.213 m	0.002 m		
2EO2	BT6	Az.	269°37'41"	0.067 sec	1 : 3181791	1 : 3180966
		ΔHt.	-15.122 m	0.005 m		
		ΔElev.	-15.065 m	0.005 m		
		Ellip Dist.	7415.023 m	0.002 m		
2EO2	BT7	Az.	256°46'51"	0.052 sec	1 : 4047465	1 : 4048294
		ΔHt.	9.246 m	0.005 m		
		ΔElev.	9.286 m	0.005 m		
		Ellip Dist.	8247.550 m	0.002 m		

2EO2	BT8	Az.	243°11'20"	0.110 sec	1 : 1898222	1 : 1898457
		ΔHt.	8.457 m	0.005 m		
		ΔElev.	8.453 m	0.005 m		
		Ellip Dist.	4491.006 m	0.002 m		
2EO2	BT9	Az.	243°58'14"	0.067 sec	1 : 3191981	1 : 3192629
		ΔHt.	61.303 m	0.006 m		
		ΔElev.	61.323 m	0.006 m		
		Ellip Dist.	8543.866 m	0.003 m		
2EO2	CG NW1	Az.	218°11'53"	0.019 sec	1 : 11216715	1 : 11223605
		ΔHt.	49.394 m	0.022 m		
		ΔElev.	49.867 m	0.022 m		
		Ellip Dist.	30454.134 m	0.003 m		
2EO2	ST1	Az.	286°32'34"	0.039 sec	1 : 5074778	1 : 5079778
		ΔHt.	-47.526 m	0.007 m		
		ΔElev.	-47.297 m	0.007 m		
		Ellip Dist.	14402.642 m	0.003 m		
2EO2	ST11	Az.	262°25'05"	0.082 sec	1 : 2599672	1 : 2599563
		ΔHt.	-10.042 m	0.004 m		
		ΔElev.	-10.009 m	0.004 m		
		Ellip Dist.	6486.111 m	0.002 m		
2EO2	ST12	Az.	289°24'21"	0.048 sec	1 : 4351640	1 : 4351209
		ΔHt.	-30.350 m	0.005 m		
		ΔElev.	-30.235 m	0.005 m		
		Ellip Dist.	8556.407 m	0.002 m		
2EO2	ST13	Az.	277°40'23"	0.082 sec	1 : 2588547	1 : 2587109
		ΔHt.	-22.550 m	0.005 m		
		ΔElev.	-22.493 m	0.005 m		
		Ellip Dist.	6051.665 m	0.002 m		
2EO2	ST14	Az.	280°22'57"	0.041 sec	1 : 4793663	1 : 4798534
		ΔHt.	-44.164 m	0.006 m		
		ΔElev.	-43.983 m	0.006 m		
		Ellip Dist.	13100.568 m	0.003 m		
2EO2	ST15	Az.	282°57'33"	0.050 sec	1 : 3908515	1 : 3911847
		ΔHt.	-36.075 m	0.007 m		
		ΔElev.	-35.934 m	0.007 m		
		Ellip Dist.	10724.619 m	0.003 m		
2EO2	ST16	Az.	230°24'23"	0.060 sec	1 : 3463040	1 : 3465768

		ΔHt.	91.173 m	0.007 m		
		ΔElev.	91.174 m	0.007 m		
		Ellip Dist.	8278.382 m	0.002 m		
2EO2	ST18	Az.	258°13'13"	0.032 sec	1 : 6682322	1 : 6681446
		ΔHt.	-8.786 m	0.007 m		
		ΔElev.	-8.645 m	0.007 m		
		Ellip Dist.	14056.900 m	0.002 m		
2EO2	ST2	Az.	293°07'08"	0.050 sec	1 : 3986199	1 : 3989862
		ΔHt.	-33.308 m	0.007 m		
		ΔElev.	-33.147 m	0.007 m		
		Ellip Dist.	10489.934 m	0.003 m		
2EO2	ST20	Az.	278°20'56"	0.047 sec	1 : 4370363	1 : 4370321
		ΔHt.	-25.575 m	0.004 m		
		ΔElev.	-25.490 m	0.004 m		
		Ellip Dist.	8155.040 m	0.002 m		
2EO2	ST21	Az.	224°56'36"	0.109 sec	1 : 1818851	1 : 1820047
		ΔHt.	31.298 m	0.005 m		
		ΔElev.	31.276 m	0.005 m		
		Ellip Dist.	4532.391 m	0.002 m		
2EO2	ST22	Az.	222°48'41"	0.049 sec	1 : 4029391	1 : 4037880
		ΔHt.	116.133 m	0.008 m		
		ΔElev.	116.167 m	0.008 m		
		Ellip Dist.	10448.613 m	0.003 m		
2EO2	ST23	Az.	230°12'19"	0.053 sec	1 : 3923561	1 : 3925842
		ΔHt.	120.059 m	0.008 m		
		ΔElev.	120.112 m	0.008 m		
		Ellip Dist.	11187.492 m	0.003 m		
2EO2	ST24	Az.	245°18'30"	0.111 sec	1 : 2098199	1 : 2104917
		ΔHt.	198.710 m	0.012 m		
		ΔElev.	198.779 m	0.012 m		
		Ellip Dist.	11754.847 m	0.006 m		
2EO2	ST3	Az.	288°44'23"	0.040 sec	1 : 4967082	1 : 4970878
		ΔHt.	-41.890 m	0.007 m		
		ΔElev.	-41.695 m	0.007 m		
		Ellip Dist.	12571.904 m	0.003 m		
2EO2	ST4	Az.	245°14'35"	0.086 sec	1 : 2446915	1 : 2447690
		ΔHt.	29.304 m	0.005 m		

		ΔElev.	29.304 m	0.005 m		
		Ellip Dist.	5744.412 m	0.002 m		
2EO2	ST5	Az.	279°43'21"	0.035 sec	1 : 5549567	1 : 5553533
		ΔHt.	-49.206 m	0.007 m		
		ΔElev.	-48.993 m	0.007 m		
		Ellip Dist.	14705.818 m	0.003 m		
2EO2	ST6	Az.	266°53'30"	0.040 sec	1 : 5491649	1 : 5491109
		ΔHt.	-51.576 m	0.010 m		
		ΔElev.	-51.372 m	0.010 m		
		Ellip Dist.	15904.118 m	0.003 m		
2EO2	ST7	Az.	273°00'17"	0.028 sec	1 : 7031492	1 : 7036285
		ΔHt.	-47.501 m	0.006 m		
		ΔElev.	-47.307 m	0.006 m		
		Ellip Dist.	14804.128 m	0.002 m		
2EO2	ST8	Az.	259°57'11"	0.077 sec	1 : 2710555	1 : 2710203
		ΔHt.	-5.618 m	0.004 m		
		ΔElev.	-5.600 m	0.004 m		
		Ellip Dist.	4817.882 m	0.002 m		
2EO2	ST9	Az.	265°59'11"	0.048 sec	1 : 4472247	1 : 4471349
		ΔHt.	-25.131 m	0.008 m		
		ΔElev.	-25.005 m	0.008 m		
		Ellip Dist.	12564.583 m	0.003 m		
BT1	BT3	Az.	131°38'46"	0.313 sec	1 : 650649	1 : 649895
		ΔHt.	8.852 m	0.006 m		
		ΔElev.	8.797 m	0.006 m		
		Ellip Dist.	2341.155 m	0.004 m		
BT1	BT6	Az.	129°58'24"	0.147 sec	1 : 1399857	1 : 1397883
		ΔHt.	24.064 m	0.006 m		
		ΔElev.	23.953 m	0.006 m		
		Ellip Dist.	5015.329 m	0.004 m		
BT1	ST11	Az.	129°49'52"	0.121 sec	1 : 1701425	1 : 1699046
		ΔHt.	29.144 m	0.006 m		
		ΔElev.	29.009 m	0.006 m		
		Ellip Dist.	6289.392 m	0.004 m		
BT1	ST12	Az.	95°56'47"	0.224 sec	1 : 966860	1 : 966313
		ΔHt.	8.836 m	0.006 m		

		ΔElev.	8.783 m	0.006 m		
		Ellip Dist.	3201.907 m	0.003 m		
BT1	ST13	Az.	114°12'11"	0.130 sec	1 : 1621282	1 : 1619936
		ΔHt.	16.636 m	0.006 m		
		ΔElev.	16.525 m	0.006 m		
		Ellip Dist.	5766.770 m	0.004 m		
BT10	BT11	Az.	219°00'30"	0.216 sec	1 : 948733	1 : 948856
		ΔHt.	10.825 m	0.006 m		
		ΔElev.	10.844 m	0.006 m		
		Ellip Dist.	2866.989 m	0.003 m		
BT10	BT9	Az.	254°18'18"	0.345 sec	1 : 629178	1 : 629135
		ΔHt.	-6.281 m	0.005 m		
		ΔElev.	-6.260 m	0.005 m		
		Ellip Dist.	1982.890 m	0.003 m		
BT10	CG NW1	Az.	212°11'57"	0.028 sec	1 : 7251445	1 : 7251437
		ΔHt.	-18.190 m	0.020 m		
		ΔElev.	-17.715 m	0.020 m		
		Ellip Dist.	24494.090 m	0.003 m		
BT10	ST18	Az.	272°25'59"	0.078 sec	1 : 2741839	1 : 2738765
		ΔHt.	-76.370 m	0.006 m		
		ΔElev.	-76.228 m	0.006 m		
		Ellip Dist.	8000.299 m	0.003 m		
BT10	ST21	Az.	89°49'56"	0.244 sec	1 : 867247	1 : 868338
		ΔHt.	-36.286 m	0.005 m		
		ΔElev.	-36.307 m	0.005 m		
		Ellip Dist.	2566.272 m	0.003 m		
BT10	ST23	Az.	215°35'26"	0.141 sec	1 : 1440848	1 : 1439825
		ΔHt.	52.475 m	0.006 m		
		ΔElev.	52.529 m	0.006 m		
		Ellip Dist.	4854.954 m	0.003 m		
BT10	ST4	Az.	34°16'00"	0.617 sec	1 : 329830	1 : 329542
		ΔHt.	-38.280 m	0.005 m		
		ΔElev.	-38.279 m	0.005 m		
		Ellip Dist.	978.671 m	0.003 m		
BT11	ST21	Az.	62°54'13"	0.125 sec	1 : 1647036	1 : 1648827
		ΔHt.	-47.111 m	0.007 m		
		ΔElev.	-47.151 m	0.007 m		

		Ellip Dist.	4909.269 m	0.003 m		
BT12	CG NW1	**Az.**	198°43'16"	0.031 sec	1 : 6678771	1 : 6682327
		ΔHt.	47.892 m	0.021 m		
		ΔElev.	48.274 m	0.021 m		
		Ellip Dist.	23349.185 m	0.003 m		
BT12	ST17	**Az.**	116°28'59"	0.359 sec	1 : 550790	1 : 551433
		ΔHt.	21.757 m	0.008 m		
		ΔElev.	21.717 m	0.008 m		
		Ellip Dist.	2087.241 m	0.004 m		
BT12	ST18	**Az.**	246°53'13"	0.253 sec	1 : 849739	1 : 849412
		ΔHt.	-10.287 m	0.008 m		
		ΔElev.	-10.238 m	0.008 m		
		Ellip Dist.	2660.710 m	0.003 m		
BT12	ST9	**Az.**	307°46'24"	0.452 sec	1 : 436467	1 : 436936
		ΔHt.	-26.632 m	0.007 m		
		ΔElev.	-26.598 m	0.007 m		
		Ellip Dist.	1546.427 m	0.004 m		
BT3	ST13	**Az.**	102°58'47"	0.177 sec	1 : 1192549	1 : 1192156
		ΔHt.	7.784 m	0.005 m		
		ΔElev.	7.728 m	0.005 m		
		Ellip Dist.	3602.289 m	0.003 m		
BT4	BT1	**Az.**	354°09'08"	0.231 sec	1 : 846008	1 : 844796
		ΔHt.	-19.091 m	0.006 m		
		ΔElev.	-19.034 m	0.006 m		
		Ellip Dist.	3107.181 m	0.004 m		
BT4	BT3	**Az.**	43°01'30"	0.307 sec	1 : 692887	1 : 692883
		ΔHt.	-10.239 m	0.005 m		
		ΔElev.	-10.237 m	0.005 m		
		Ellip Dist.	2099.967 m	0.003 m		
BT4	BT6	**Az.**	92°07'45"	0.181 sec	1 : 1189046	1 : 1188749
		ΔHt.	4.973 m	0.006 m		
		ΔElev.	4.920 m	0.006 m		
		Ellip Dist.	3529.224 m	0.003 m		
BT4	CG NW1	**Az.**	198°07'17"	0.027 sec	1 : 7427381	1 : 7432946
		ΔHt.	69.488 m	0.022 m		
		ΔElev.	69.852 m	0.022 m		

		Ellip Dist.	25283.040 m	0.003 m		
BT4	ST11	**Az.**	101°44'13"	0.144 sec	1 : 1477775	1 : 1477290
		ΔHt.	10.053 m	0.005 m		
		ΔElev.	9.975 m	0.005 m		
		Ellip Dist.	4609.530 m	0.003 m		
BT4	ST12	**Az.**	46°06'31"	0.150 sec	1 : 1428382	1 : 1428693
		ΔHt.	-10.255 m	0.006 m		
		ΔElev.	-10.251 m	0.006 m		
		Ellip Dist.	3979.848 m	0.003 m		
BT4	ST13	**Az.**	81°38'16"	0.129 sec	1 : 1679354	1 : 1679382
		ΔHt.	-2.455 m	0.006 m		
		ΔElev.	-2.509 m	0.006 m		
		Ellip Dist.	4996.331 m	0.003 m		
BT4	ST20	**Az.**	69°02'00"	0.193 sec	1 : 1130610	1 : 1130721
		ΔHt.	-5.481 m	0.005 m		
		ΔElev.	-5.506 m	0.005 m		
		Ellip Dist.	3075.273 m	0.003 m		
BT5	BT1	**Az.**	358°24'56"	0.345 sec	1 : 566598	1 : 566216
		ΔHt.	-6.692 m	0.006 m		
		ΔElev.	-6.655 m	0.006 m		
		Ellip Dist.	2056.529 m	0.004 m		
BT5	BT3	**Az.**	73°32'36"	0.365 sec	1 : 590003	1 : 589959
		ΔHt.	2.160 m	0.005 m		
		ΔElev.	2.142 m	0.005 m		
		Ellip Dist.	1764.890 m	0.003 m		
BT5	BT4	**Az.**	165°54'47"	0.568 sec	1 : 344039	1 : 343780
		ΔHt.	12.399 m	0.005 m		
		ΔElev.	12.379 m	0.005 m		
		Ellip Dist.	1067.360 m	0.003 m		
BT5	BT6	**Az.**	107°07'09"	0.159 sec	1 : 1332813	1 : 1331889
		ΔHt.	17.372 m	0.006 m		
		ΔElev.	17.298 m	0.006 m		
		Ellip Dist.	3962.123 m	0.003 m		
BT5	BT7	**Az.**	133°25'38"	0.134 sec	1 : 1514467	1 : 1512394
		ΔHt.	41.740 m	0.006 m		
		ΔElev.	41.650 m	0.006 m		
		Ellip Dist.	4371.159 m	0.003 m		

BT5	CG NW1	Az.	196°52'32"	0.027 sec	1 : 7578052	1 : 7584499
		ΔHt.	81.888 m	0.022 m		
		ΔElev.	82.231 m	0.022 m		
		Ellip Dist.	26192.342 m	0.003 m		
BT5	ST11	Az.	112°27'24"	0.128 sec	1 : 1654965	1 : 1653836
		ΔHt.	22.452 m	0.005 m		
		ΔElev.	22.354 m	0.005 m		
		Ellip Dist.	5164.609 m	0.003 m		
BT5	ST12	Az.	61°08'13"	0.166 sec	1 : 1290895	1 : 1290895
		ΔHt.	2.144 m	0.006 m		
		ΔElev.	2.128 m	0.006 m		
		Ellip Dist.	3571.479 m	0.003 m		
BT5	ST13	Az.	93°23'36"	0.123 sec	1 : 1748558	1 : 1747992
		ΔHt.	9.944 m	0.006 m		
		ΔElev.	9.870 m	0.006 m		
		Ellip Dist.	5212.121 m	0.003 m		
BT5	ST20	Az.	88°48'24"	0.187 sec	1 : 1146063	1 : 1145756
		ΔHt.	6.919 m	0.005 m		
		ΔElev.	6.873 m	0.005 m		
		Ellip Dist.	3132.096 m	0.003 m		
BT5	ST8	Az.	106°50'46"	0.086 sec	1 : 2464330	1 : 2462659
		ΔHt.	26.876 m	0.006 m		
		ΔElev.	26.764 m	0.006 m		
		Ellip Dist.	6747.938 m	0.003 m		
BT6	BT3	Az.	308°31'58"	0.234 sec	1 : 878968	1 : 878275
		ΔHt.	-15.212 m	0.005 m		
		ΔElev.	-15.156 m	0.005 m		
		Ellip Dist.	2676.045 m	0.003 m		
BT6	ST11	Az.	129°17'36"	0.497 sec	1 : 418121	1 : 417905
		ΔHt.	5.080 m	0.005 m		
		ΔElev.	5.056 m	0.005 m		
		Ellip Dist.	1274.139 m	0.003 m		
BT6	ST12	Az.	347°10'57"	0.189 sec	1 : 1052954	1 : 1052958
		ΔHt.	-15.228 m	0.006 m		
		ΔElev.	-15.170 m	0.006 m		
		Ellip Dist.	2964.427 m	0.003 m		

BT6	ST13	Az.	58°49'23"	0.371 sec	1 : 568475	1 : 568707
		ΔHt.	-7.428 m	0.005 m		
		ΔElev.	-7.429 m	0.005 m		
		Ellip Dist.	1655.892 m	0.003 m		
BT7	BT1	Az.	327°27'31"	0.117 sec	1 : 1704084	1 : 1699927
		ΔHt.	-48.432 m	0.007 m		
		ΔElev.	-48.304 m	0.007 m		
		Ellip Dist.	6004.320 m	0.004 m		
BT7	BT12	Az.	270°57'50"	0.197 sec	1 : 1059179	1 : 1059017
		ΔHt.	-7.745 m	0.008 m		
		ΔElev.	-7.693 m	0.008 m		
		Ellip Dist.	3284.014 m	0.003 m		
BT7	BT3	Az.	337°05'54"	0.155 sec	1 : 1286638	1 : 1284960
		ΔHt.	-39.580 m	0.005 m		
		ΔElev.	-39.507 m	0.005 m		
		Ellip Dist.	3805.279 m	0.003 m		
BT7	BT4	Az.	304°04'01"	0.167 sec	1 : 1214576	1 : 1212906
		ΔHt.	-29.341 m	0.006 m		
		ΔElev.	-29.271 m	0.006 m		
		Ellip Dist.	3517.840 m	0.003 m		
BT7	BT6	Az.	18°25'49"	0.294 sec	1 : 686862	1 : 687352
		ΔHt.	-24.368 m	0.005 m		
		ΔElev.	-24.351 m	0.005 m		
		Ellip Dist.	1937.778 m	0.003 m		
BT7	CG NW1	Az.	206°03'29"	0.025 sec	1 : 8048907	1 : 8052749
		ΔHt.	40.147 m	0.021 m		
		ΔElev.	40.581 m	0.021 m		
		Ellip Dist.	24551.776 m	0.003 m		
BT7	ST11	Az.	57°10'09"	0.319 sec	1 : 659550	1 : 659816
		ΔHt.	-19.289 m	0.005 m		
		ΔElev.	-19.295 m	0.005 m		
		Ellip Dist.	1902.659 m	0.003 m		
BT7	ST12	Az.	359°27'09"	0.111 sec	1 : 1803068	1 : 1803724
		ΔHt.	-39.596 m	0.006 m		
		ΔElev.	-39.521 m	0.006 m		
		Ellip Dist.	4729.122 m	0.003 m		
BT7	ST13	Az.	36°58'20"	0.172 sec	1 : 1204944	1 : 1206142

		ΔHt.	-31.796 m	0.006 m		
		ΔElev.	-31.780 m	0.006 m		
		Ellip Dist.	3374.156 m	0.003 m		
BT7	ST17	**Az.**	238°14'47"	0.442 sec	1 : 510091	1 : 510462
		ΔHt.	14.012 m	0.007 m		
		ΔElev.	14.023 m	0.007 m		
		Ellip Dist.	1664.841 m	0.003 m		
BT7	ST18	**Az.**	260°12'54"	0.098 sec	1 : 2155931	1 : 2154987
		ΔHt.	-18.033 m	0.007 m		
		ΔElev.	-17.931 m	0.007 m		
		Ellip Dist.	5815.645 m	0.003 m		
BT7	ST19	**Az.**	306°58'21"	0.132 sec	1 : 1467344	1 : 1469758
		ΔHt.	-46.580 m	0.008 m		
		ΔElev.	-46.468 m	0.008 m		
		Ellip Dist.	5279.877 m	0.004 m		
BT7	ST20	**Az.**	359°12'49"	0.167 sec	1 : 1209983	1 : 1209877
		ΔHt.	-34.822 m	0.005 m		
		ΔElev.	-34.777 m	0.005 m		
		Ellip Dist.	3070.398 m	0.003 m		
BT7	ST7	**Az.**	291°27'44"	0.076 sec	1 : 2671966	1 : 2674256
		ΔHt.	-56.747 m	0.007 m		
		ΔElev.	-56.594 m	0.007 m		
		Ellip Dist.	7260.400 m	0.003 m		
BT7	ST8	**Az.**	72°17'53"	0.147 sec	1 : 1431760	1 : 1432870
		ΔHt.	-14.864 m	0.006 m		
		ΔElev.	-14.886 m	0.006 m		
		Ellip Dist.	3447.375 m	0.002 m		
BT7	ST9	**Az.**	282°32'56"	0.143 sec	1 : 1446524	1 : 1446639
		ΔHt.	-34.378 m	0.008 m		
		ΔElev.	-34.291 m	0.008 m		
		Ellip Dist.	4615.858 m	0.003 m		
BT8	BT10	**Az.**	235°56'41"	0.290 sec	1 : 721340	1 : 721461
		ΔHt.	59.127 m	0.005 m		
		ΔElev.	59.130 m	0.005 m		
		Ellip Dist.	2123.442 m	0.003 m		
BT8	BT11	**Az.**	226°12'43"	0.123 sec	1 : 1674227	1 : 1675760
		ΔHt.	69.952 m	0.007 m		

		ΔElev.	69.975 m	0.007 m		
		Ellip Dist.	4937.304 m	0.003 m		
BT8	BT9	Az.	244°48'47"	0.166 sec	1 : 1291274	1 : 1291378
		ΔHt.	52.846 m	0.006 m		
		ΔElev.	52.871 m	0.006 m		
		Ellip Dist.	4053.741 m	0.003 m		
BT8	CG NW1	Az.	214°03'41"	0.026 sec	1 : 7898080	1 : 7901325
		ΔHt.	40.937 m	0.022 m		
		ΔElev.	41.415 m	0.022 m		
		Ellip Dist.	26451.734 m	0.003 m		
BT8	ST18	Az.	265°01'49"	0.061 sec	1 : 3427294	1 : 3426877
		ΔHt.	-17.243 m	0.007 m		
		ΔElev.	-17.098 m	0.007 m		
		Ellip Dist.	9789.097 m	0.003 m		
BT8	ST21	Az.	145°40'43"	0.419 sec	1 : 499806	1 : 499541
		ΔHt.	22.841 m	0.005 m		
		ΔElev.	22.823 m	0.005 m		
		Ellip Dist.	1431.258 m	0.003 m		
BT8	ST23	Az.	221°45'20"	0.099 sec	1 : 2079819	1 : 2079301
		ΔHt.	111.602 m	0.008 m		
		ΔElev.	111.659 m	0.008 m		
		Ellip Dist.	6885.630 m	0.003 m		
BT8	ST4	Az.	252°31'17"	0.470 sec	1 : 448289	1 : 448441
		ΔHt.	20.847 m	0.005 m		
		ΔElev.	20.852 m	0.005 m		
		Ellip Dist.	1266.563 m	0.003 m		
BT9	BT11	Az.	176°27'27"	0.377 sec	1 : 519034	1 : 518267
		ΔHt.	17.106 m	0.006 m		
		ΔElev.	17.104 m	0.006 m		
		Ellip Dist.	1694.617 m	0.003 m		
BT9	ST21	Az.	83°03'33"	0.150 sec	1 : 1419261	1 : 1420180
		ΔHt.	-30.005 m	0.006 m		
		ΔElev.	-30.047 m	0.006 m		
		Ellip Dist.	4508.153 m	0.003 m		
BT9	ST23	Az.	195°01'37"	0.199 sec	1 : 980465	1 : 977296
		ΔHt.	58.756 m	0.006 m		

		ΔElev.	58.788 m	0.006 m		
		Ellip Dist.	3532.607 m	0.004 m		
BT9	ST4	Az.	61°19'03"	0.237 sec	1 : 899404	1 : 899392
		ΔHt.	-31.999 m	0.006 m		
		ΔElev.	-32.019 m	0.006 m		
		Ellip Dist.	2803.775 m	0.003 m		
CG NW1	BT1	Az.	15°30'20"	0.029 sec	1 : 6923723	1 : 6924588
		ΔHt.	-88.579 m	0.023 m		
		ΔElev.	-88.886 m	0.023 m		
		Ellip Dist.	28150.585 m	0.004 m		
CG NW1	BT11	Az.	31°13'24"	0.030 sec	1 : 6816192	1 : 6814613
		ΔHt.	29.015 m	0.018 m		
		ΔElev.	28.560 m	0.018 m		
		Ellip Dist.	21649.992 m	0.003 m		
CG NW1	BT2	Az.	18°33'48"	0.026 sec	1 : 7917785	1 : 7922721
		ΔHt.	-82.979 m	0.024 m		
		ΔElev.	-83.307 m	0.024 m		
		Ellip Dist.	28702.495 m	0.004 m		
CG NW1	BT3	Az.	19°56'18"	0.027 sec	1 : 7674461	1 : 7678359
		ΔHt.	-79.728 m	0.023 m		
		ΔElev.	-80.089 m	0.023 m		
		Ellip Dist.	27202.126 m	0.004 m		
CG NW1	BT6	Az.	25°26'18"	0.026 sec	1 : 7728161	1 : 7733377
		ΔHt.	-64.516 m	0.023 m		
		ΔElev.	-64.932 m	0.023 m		
		Ellip Dist.	26473.657 m	0.003 m		
CG NW1	BT9	Az.	28°49'05"	0.031 sec	1 : 6605684	1 : 6605891
		ΔHt.	11.909 m	0.019 m		
		ΔElev.	11.456 m	0.019 m		
		Ellip Dist.	23061.324 m	0.003 m		
CG NW1	ST1	Az.	10°03'13"	0.027 sec	1 : 7704487	1 : 7710296
		ΔHt.	-96.920 m	0.024 m		
		ΔElev.	-97.164 m	0.024 m		
		Ellip Dist.	28481.005 m	0.004 m		
CG NW1	ST11	Az.	28°08'44"	0.027 sec	1 : 7451926	1 : 7454765
		ΔHt.	-59.436 m	0.022 m		
		ΔElev.	-59.877 m	0.022 m		

		Ellip Dist.	26199.223 m	0.004 m		
CG NW1	ST12	**Az.**	21°47'10"	0.023 sec	1 : 8813889	1 : 8821141
		ΔHt.	-79.744 m	0.024 m		
		ΔElev.	-80.103 m	0.024 m		
		Ellip Dist.	28857.955 m	0.003 m		
CG NW1	ST13	**Az.**	27°18'30"	0.025 sec	1 : 8046136	1 : 8052081
		ΔHt.	-71.944 m	0.024 m		
		ΔElev.	-72.361 m	0.024 m		
		Ellip Dist.	27872.223 m	0.003 m		
CG NW1	ST15	**Az.**	17°32'27"	0.028 sec	1 : 7687127	1 : 7691416
		ΔHt.	-85.468 m	0.024 m		
		ΔElev.	-85.802 m	0.024 m		
		Ellip Dist.	27639.537 m	0.004 m		
CG NW1	ST17	**Az.**	23°48'02"	0.035 sec	1 : 6135078	1 : 6137733
		ΔHt.	-26.135 m	0.021 m		
		ΔElev.	-26.558 m	0.021 m		
		Ellip Dist.	23159.804 m	0.004 m		
CG NW1	ST18	**Az.**	13°25'38"	0.028 sec	1 : 7298858	1 : 7304429
		ΔHt.	-58.180 m	0.018 m		
		ΔElev.	-58.513 m	0.018 m		
		Ellip Dist.	21665.446 m	0.003 m		
CG NW1	ST20	**Az.**	23°05'12"	0.023 sec	1 : 8813594	1 : 8819389
		ΔHt.	-74.969 m	0.023 m		
		ΔElev.	-75.358 m	0.023 m		
		Ellip Dist.	27326.494 m	0.003 m		
CG NW1	ST21	**Az.**	36°54'46"	0.026 sec	1 : 7670933	1 : 7672255
		ΔHt.	-18.096 m	0.021 m		
		ΔElev.	-18.591 m	0.021 m		
		Ellip Dist.	25958.575 m	0.003 m		
CG NW1	ST23	**Az.**	31°17'08"	0.035 sec	1 : 5698427	1 : 5697731
		ΔHt.	70.665 m	0.017 m		
		ΔElev.	70.244 m	0.017 m		
		Ellip Dist.	19649.737 m	0.003 m		
CG NW1	ST4	**Az.**	32°12'09"	0.026 sec	1 : 7692744	1 : 7694288
		ΔHt.	-20.090 m	0.021 m		
		ΔElev.	-20.563 m	0.021 m		

		Ellip Dist.	25472.149 m	0.003 m		
CG NW1	ST5	**Az.**	9°12'53"	0.027 sec	1 : 7683320	1 : 7689213
		ΔHt.	-98.600 m	0.022 m		
		ΔElev.	-98.861 m	0.022 m		
		Ellip Dist.	26770.439 m	0.003 m		
CG NW1	ST9	**Az.**	15°10'14"	0.031 sec	1 : 6664942	1 : 6671438
		ΔHt.	-74.525 m	0.021 m		
		ΔElev.	-74.873 m	0.021 m		
		Ellip Dist.	23898.730 m	0.004 m		
ST1	BT2	**Az.**	101°21'27"	0.163 sec	1 : 1232332	1 : 1233088
		ΔHt.	13.940 m	0.007 m		
		ΔElev.	13.857 m	0.007 m		
		Ellip Dist.	4248.443 m	0.003 m		
ST11	BT3	**Az.**	308°47'02"	0.165 sec	1 : 1243237	1 : 1242173
		ΔHt.	-20.292 m	0.005 m		
		ΔElev.	-20.212 m	0.005 m		
		Ellip Dist.	3950.108 m	0.003 m		
ST11	ST13	**Az.**	14°30'54"	0.362 sec	1 : 553275	1 : 553072
		ΔHt.	-12.508 m	0.005 m		
		ΔElev.	-12.484 m	0.005 m		
		Ellip Dist.	1718.952 m	0.003 m		
ST12	BT2	**Az.**	284°45'13"	0.374 sec	1 : 553259	1 : 553375
		ΔHt.	-3.236 m	0.006 m		
		ΔElev.	-3.204 m	0.006 m		
		Ellip Dist.	1626.069 m	0.003 m		
ST12	BT3	**Az.**	229°33'32"	0.314 sec	1 : 672376	1 : 672430
		ΔHt.	0.016 m	0.005 m		
		ΔElev.	0.014 m	0.005 m		
		Ellip Dist.	1886.307 m	0.003 m		
ST12	ST1	**Az.**	282°19'18"	0.110 sec	1 : 1831903	1 : 1832794
		ΔHt.	-17.176 m	0.008 m		
		ΔElev.	-17.061 m	0.008 m		
		Ellip Dist.	5872.488 m	0.003 m		
ST12	ST11	**Az.**	156°01'42"	0.146 sec	1 : 1367230	1 : 1366492
		ΔHt.	20.308 m	0.005 m		
		ΔElev.	20.226 m	0.005 m		
		Ellip Dist.	4046.359 m	0.003 m		

ST12	ST13	Az.	134°25'25"	0.195 sec	1 : 1046139	1 : 1045927
		ΔHt.	7.800 m	0.006 m		
		ΔElev.	7.742 m	0.006 m		
		Ellip Dist.	2904.733 m	0.003 m		
ST12	ST5	Az.	266°45'00"	0.096 sec	1 : 2113795	1 : 2114282
		ΔHt.	-18.856 m	0.008 m		
		ΔElev.	-18.758 m	0.008 m		
		Ellip Dist.	6434.337 m	0.003 m		
ST14	BT2	Az.	74°27'38"	0.201 sec	1 : 1010613	1 : 1011030
		ΔHt.	10.578 m	0.007 m		
		ΔElev.	10.543 m	0.007 m		
		Ellip Dist.	3365.466 m	0.003 m		
ST14	CG NW1	Az.	192°40'01"	0.028 sec	1 : 7516383	1 : 7522130
		ΔHt.	93.557 m	0.022 m		
		ΔElev.	93.850 m	0.022 m		
		Ellip Dist.	26958.172 m	0.004 m		
ST14	ST1	Az.	332°02'40"	0.362 sec	1 : 588263	1 : 588461
		ΔHt.	-3.362 m	0.007 m		
		ΔElev.	-3.314 m	0.007 m		
		Ellip Dist.	1968.325 m	0.003 m		
ST14	ST12	Az.	84°12'35"	0.131 sec	1 : 1568476	1 : 1569066
		ΔHt.	13.814 m	0.007 m		
		ΔElev.	13.748 m	0.007 m		
		Ellip Dist.	4839.803 m	0.003 m		
ST14	ST15	Az.	88°53'13"	0.277 sec	1 : 710854	1 : 711255
		ΔHt.	8.089 m	0.007 m		
		ΔElev.	8.049 m	0.007 m		
		Ellip Dist.	2434.999 m	0.003 m		
ST14	ST2	Az.	61°25'58"	0.183 sec	1 : 1095144	1 : 1095428
		ΔHt.	10.856 m	0.008 m		
		ΔElev.	10.836 m	0.008 m		
		Ellip Dist.	3684.825 m	0.003 m		
ST14	ST20	Az.	103°39'09"	0.124 sec	1 : 1638618	1 : 1639827
		ΔHt.	18.588 m	0.007 m		
		ΔElev.	18.492 m	0.007 m		
		Ellip Dist.	4959.117 m	0.003 m		

ST14	ST5	Az.	274°16'42"	0.411 sec	1 : 487104	1 : 487355
		ΔHt.	-5.042 m	0.007 m		
		ΔElev.	-5.010 m	0.007 m		
		Ellip Dist.	1613.195 m	0.003 m		
ST14	ST7	Az.	230°03'21"	0.255 sec	1 : 809346	1 : 809425
		ΔHt.	-3.337 m	0.007 m		
		ΔElev.	-3.324 m	0.007 m		
		Ellip Dist.	2472.534 m	0.003 m		
ST15	BT2	Az.	43°24'55"	0.568 sec	1 : 359062	1 : 359059
		ΔHt.	2.489 m	0.007 m		
		ΔElev.	2.494 m	0.007 m		
		Ellip Dist.	1175.823 m	0.003 m		
ST15	ST12	Az.	79°31'11"	0.253 sec	1 : 784478	1 : 784636
		ΔHt.	5.725 m	0.007 m		
		ΔElev.	5.699 m	0.007 m		
		Ellip Dist.	2421.070 m	0.003 m		
ST15	ST5	Az.	271°02'58"	0.164 sec	1 : 1189835	1 : 1190391
		ΔHt.	-13.131 m	0.008 m		
		ΔElev.	-13.059 m	0.008 m		
		Ellip Dist.	4043.899 m	0.003 m		
ST16	BT10	Az.	16°28'23"	0.279 sec	1 : 715255	1 : 714831
		ΔHt.	-23.589 m	0.005 m		
		ΔElev.	-23.591 m	0.005 m		
		Ellip Dist.	2150.749 m	0.003 m		
ST16	BT11	Az.	262°06'53"	0.502 sec	1 : 425074	1 : 424788
		ΔHt.	-12.764 m	0.005 m		
		ΔElev.	-12.747 m	0.005 m		
		Ellip Dist.	1205.974 m	0.003 m		
ST16	BT8	Az.	36°04'15"	0.147 sec	1 : 1387269	1 : 1387727
		ΔHt.	-82.716 m	0.006 m		
		ΔElev.	-82.721 m	0.006 m		
		Ellip Dist.	4023.307 m	0.003 m		
ST16	BT9	Az.	319°35'31"	0.322 sec	1 : 632156	1 : 630417
		ΔHt.	-29.870 m	0.005 m		
		ΔElev.	-29.851 m	0.005 m		
		Ellip Dist.	2004.007 m	0.003 m		
ST16	CG NW1	Az.	213°41'04"	0.028 sec	1 : 7121013	1 : 7119320

		ΔHt.	-41.779 m	0.019 m		
		ΔElev.	-41.307 m	0.019 m		
		Ellip Dist.	22431.385 m	0.003 m		
ST16	ST18	Az.	288°01'07"	0.076 sec	1 : 2758120	1 : 2755094
		ΔHt.	-99.959 m	0.007 m		
		ΔElev.	-99.819 m	0.007 m		
		Ellip Dist.	7764.008 m	0.003 m		
ST16	ST21	Az.	56°54'16"	0.157 sec	1 : 1295225	1 : 1296500
		ΔHt.	-59.875 m	0.006 m		
		ΔElev.	-59.898 m	0.006 m		
		Ellip Dist.	3791.216 m	0.003 m		
ST16	ST22	Az.	196°46'06"	0.237 sec	1 : 841731	1 : 842154
		ΔHt.	24.960 m	0.007 m		
		ΔElev.	24.993 m	0.007 m		
		Ellip Dist.	2495.525 m	0.003 m		
ST16	ST23	Az.	229°35'45"	0.229 sec	1 : 907836	1 : 907781
		ΔHt.	28.886 m	0.006 m		
		ΔElev.	28.938 m	0.006 m		
		Ellip Dist.	2909.306 m	0.003 m		
ST16	ST4	Az.	22°00'48"	0.188 sec	1 : 1067931	1 : 1068176
		ΔHt.	-61.869 m	0.006 m		
		ΔElev.	-61.870 m	0.006 m		
		Ellip Dist.	3097.090 m	0.003 m		
ST16	ST8	Az.	20°11'57"	0.113 sec	1 : 1783084	1 : 1784197
		ΔHt.	-96.790 m	0.007 m		
		ΔElev.	-96.774 m	0.007 m		
		Ellip Dist.	4727.421 m	0.003 m		
ST18	BT11	Az.	112°29'07"	0.090 sec	1 : 2345368	1 : 2341746
		ΔHt.	87.195 m	0.007 m		
		ΔElev.	87.072 m	0.007 m		
		Ellip Dist.	6699.946 m	0.003 m		
ST18	BT9	Az.	98°08'48"	0.108 sec	1 : 1993670	1 : 1990117
		ΔHt.	70.089 m	0.006 m		
		ΔElev.	69.968 m	0.006 m		
		Ellip Dist.	6146.872 m	0.003 m		
ST18	ST17	Az.	88°28'36"	0.173 sec	1 : 1241683	1 : 1241754
		ΔHt.	32.044 m	0.008 m		

		ΔElev.	31.955 m	0.008 m		
		Ellip Dist.	4316.855 m	0.003 m		
ST18	ST21	Az.	91°45'17"	0.058 sec	1 : 3607238	1 : 3605748
		ΔHt.	40.084 m	0.008 m		
		ΔElev.	39.921 m	0.008 m		
		Ellip Dist.	10564.570 m	0.003 m		
ST18	ST23	Az.	129°38'11"	0.099 sec	1 : 2093710	1 : 2084845
		ΔHt.	128.845 m	0.006 m		
		ΔElev.	128.757 m	0.006 m		
		Ellip Dist.	6714.735 m	0.003 m		
ST18	ST4	Az.	86°48'36"	0.070 sec	1 : 3024926	1 : 3023850
		ΔHt.	38.090 m	0.007 m		
		ΔElev.	37.949 m	0.007 m		
		Ellip Dist.	8556.996 m	0.003 m		
ST18	ST9	Az.	31°34'29"	0.294 sec	1 : 736180	1 : 736868
		ΔHt.	-16.345 m	0.008 m		
		ΔElev.	-16.360 m	0.008 m		
		Ellip Dist.	2338.153 m	0.003 m		
ST19	BT12	Az.	163°17'58"	0.229 sec	1 : 839545	1 : 842246
		ΔHt.	38.835 m	0.009 m		
		ΔElev.	38.775 m	0.009 m		
		Ellip Dist.	3257.216 m	0.004 m		
ST19	CG NW1	Az.	194°33'50"	0.031 sec	1 : 6603698	1 : 6612817
		ΔHt.	86.727 m	0.022 m		
		ΔElev.	87.049 m	0.022 m		
		Ellip Dist.	26072.120 m	0.004 m		
ST19	ST17	Az.	145°18'11"	0.159 sec	1 : 1159355	1 : 1163661
		ΔHt.	60.592 m	0.009 m		
		ΔElev.	60.492 m	0.009 m		
		Ellip Dist.	4926.478 m	0.004 m		
ST19	ST18	Az.	199°56'32"	0.168 sec	1 : 1261250	1 : 1263532
		ΔHt.	28.547 m	0.009 m		
		ΔElev.	28.537 m	0.009 m		
		Ellip Dist.	4430.160 m	0.004 m		
ST19	ST7	Az.	258°25'18"	0.283 sec	1 : 772303	1 : 772368
		ΔHt.	-10.168 m	0.008 m		

		ΔElev.	-10.125 m	0.008 m		
		Ellip Dist.	2591.231 m	0.003 m		
ST19	ST9	Az.	187°30'35"	0.350 sec	1 : 578008	1 : 578996
		ΔHt.	12.202 m	0.008 m		
		ΔElev.	12.177 m	0.008 m		
		Ellip Dist.	2191.493 m	0.004 m		
ST2	BT2	Az.	179°36'16"	0.777 sec	1 : 273828	1 : 273815
		ΔHt.	-0.278 m	0.006 m		
		ΔElev.	-0.292 m	0.006 m		
		Ellip Dist.	860.459 m	0.003 m		
ST2	CG NW1	Az.	198°04'22"	0.026 sec	1 : 8096593	1 : 8101157
		ΔHt.	82.702 m	0.025 m		
		ΔElev.	83.015 m	0.025 m		
		Ellip Dist.	29517.345 m	0.004 m		
ST2	ST1	Az.	269°41'48"	0.163 sec	1 : 1195800	1 : 1196493
		ΔHt.	-14.218 m	0.009 m		
		ΔElev.	-14.149 m	0.009 m		
		Ellip Dist.	4159.011 m	0.003 m		
ST2	ST12	Az.	128°54'49"	0.302 sec	1 : 688376	1 : 688562
		ΔHt.	2.958 m	0.007 m		
		ΔElev.	2.912 m	0.007 m		
		Ellip Dist.	2028.633 m	0.003 m		
ST2	ST15	Az.	205°04'34"	0.363 sec	1 : 580458	1 : 580385
		ΔHt.	-2.767 m	0.008 m		
		ΔElev.	-2.787 m	0.008 m		
		Ellip Dist.	1892.894 m	0.003 m		
ST2	ST20	Az.	151°39'44"	0.182 sec	1 : 1173440	1 : 1173840
		ΔHt.	7.733 m	0.007 m		
		ΔElev.	7.657 m	0.007 m		
		Ellip Dist.	3332.427 m	0.003 m		
ST2	ST5	Az.	251°18'00"	0.128 sec	1 : 1525841	1 : 1526264
		ΔHt.	-15.898 m	0.009 m		
		ΔElev.	-15.846 m	0.009 m		
		Ellip Dist.	5115.510 m	0.003 m		
ST2	ST7	Az.	236°53'12"	0.101 sec	1 : 1982281	1 : 1982660
		ΔHt.	-14.193 m	0.009 m		
		ΔElev.	-14.160 m	0.009 m		

		Ellip Dist.	6128.215 m	0.003 m		
ST20	BT2	**Az.**	322°45'47"	0.229 sec	1 : 902623	1 : 903007
		ΔHt.	-8.010 m	0.006 m		
		ΔElev.	-7.949 m	0.006 m		
		Ellip Dist.	2603.689 m	0.003 m		
ST20	BT3	**Az.**	286°49'51"	0.389 sec	1 : 538441	1 : 538253
		ΔHt.	-4.758 m	0.004 m		
		ΔElev.	-4.731 m	0.004 m		
		Ellip Dist.	1503.074 m	0.003 m		
ST20	BT6	**Az.**	152°00'19"	0.398 sec	1 : 508186	1 : 507987
		ΔHt.	10.454 m	0.005 m		
		ΔElev.	10.426 m	0.005 m		
		Ellip Dist.	1394.938 m	0.003 m		
ST20	ST1	**Az.**	296°53'54"	0.099 sec	1 : 2068179	1 : 2069555
		ΔHt.	-21.951 m	0.008 m		
		ΔElev.	-21.806 m	0.008 m		
		Ellip Dist.	6436.657 m	0.003 m		
ST20	ST11	**Az.**	141°10'06"	0.225 sec	1 : 901831	1 : 901157
		ΔHt.	15.533 m	0.005 m		
		ΔElev.	15.481 m	0.005 m		
		Ellip Dist.	2616.914 m	0.003 m		
ST20	ST12	**Az.**	359°53'38"	0.286 sec	1 : 698932	1 : 699003
		ΔHt.	-4.775 m	0.005 m		
		ΔElev.	-4.745 m	0.005 m		
		Ellip Dist.	1658.800 m	0.002 m		
ST20	ST13	**Az.**	100°14'42"	0.269 sec	1 : 783783	1 : 783641
		ΔHt.	3.026 m	0.005 m		
		ΔElev.	2.997 m	0.005 m		
		Ellip Dist.	2105.007 m	0.003 m		
ST20	ST15	**Az.**	297°04'59"	0.227 sec	1 : 896563	1 : 897120
		ΔHt.	-10.499 m	0.007 m		
		ΔElev.	-10.444 m	0.007 m		
		Ellip Dist.	2677.444 m	0.003 m		
ST20	ST5	**Az.**	281°23'02"	0.091 sec	1 : 2210791	1 : 2211744
		ΔHt.	-23.631 m	0.007 m		
		ΔElev.	-23.503 m	0.007 m		

		Ellip Dist.	6556.037 m	0.003 m		
ST22	BT10	**Az.**	16°37'39"	0.133 sec	1 : 1488707	1 : 1488618
		ΔHt.	-48.549 m	0.007 m		
		ΔElev.	-48.584 m	0.007 m		
		Ellip Dist.	4646.258 m	0.003 m		
ST22	BT11	**Az.**	347°56'58"	0.267 sec	1 : 761820	1 : 761772
		ΔHt.	-37.724 m	0.007 m		
		ΔElev.	-37.740 m	0.007 m		
		Ellip Dist.	2274.041 m	0.003 m		
ST22	BT8	**Az.**	28°41'52"	0.094 sec	1 : 2118287	1 : 2121404
		ΔHt.	-107.676 m	0.008 m		
		ΔElev.	-107.714 m	0.008 m		
		Ellip Dist.	6431.672 m	0.003 m		
ST22	BT9	**Az.**	351°34'58"	0.166 sec	1 : 1197022	1 : 1194544
		ΔHt.	-54.830 m	0.007 m		
		ΔElev.	-54.844 m	0.007 m		
		Ellip Dist.	3957.948 m	0.003 m		
ST22	CG NW1	**Az.**	215°45'18"	0.031 sec	1 : 6337859	1 : 6333416
		ΔHt.	-66.740 m	0.017 m		
		ΔElev.	-66.300 m	0.017 m		
		Ellip Dist.	20056.985 m	0.003 m		
ST22	ST18	**Az.**	305°42'45"	0.075 sec	1 : 2851107	1 : 2847092
		ΔHt.	-124.919 m	0.007 m		
		ΔElev.	-124.812 m	0.007 m		
		Ellip Dist.	8206.878 m	0.003 m		
ST22	ST21	**Az.**	41°08'17"	0.102 sec	1 : 1917765	1 : 1921616
		ΔHt.	-84.835 m	0.008 m		
		ΔElev.	-84.891 m	0.008 m		
		Ellip Dist.	5921.760 m	0.003 m		
ST22	ST23	**Az.**	288°36'34"	0.436 sec	1 : 496988	1 : 497190
		ΔHt.	3.926 m	0.006 m		
		ΔElev.	3.944 m	0.006 m		
		Ellip Dist.	1577.982 m	0.003 m		
ST22	ST4	**Az.**	19°40'08"	0.108 sec	1 : 1849970	1 : 1852160
		ΔHt.	-86.829 m	0.008 m		
		ΔElev.	-86.863 m	0.008 m		
		Ellip Dist.	5586.826 m	0.003 m		

ST22	ST8	**Az.**	19°00'35"	0.077 sec	1 : 2591191	1 : 2596494
		ΔHt.	-121.751 m	0.008 m		
		ΔElev.	-121.767 m	0.008 m		
		Ellip Dist.	7220.018 m	0.003 m		
ST23	BT11	**Az.**	30°40'21"	0.330 sec	1 : 608584	1 : 607867
		ΔHt.	-41.650 m	0.006 m		
		ΔElev.	-41.684 m	0.006 m		
		Ellip Dist.	2000.380 m	0.003 m		
ST23	ST21	**Az.**	53°43'08"	0.102 sec	1 : 2012024	1 : 2013340
		ΔHt.	-88.761 m	0.008 m		
		ΔElev.	-88.836 m	0.008 m		
		Ellip Dist.	6687.134 m	0.003 m		
ST3	BT2	**Az.**	108°57'45"	0.271 sec	1 : 753034	1 : 753397
		ΔHt.	8.305 m	0.007 m		
		ΔElev.	8.256 m	0.007 m		
		Ellip Dist.	2393.878 m	0.003 m		
ST3	CG NW1	**Az.**	193°50'19"	0.026 sec	1 : 8116946	1 : 8122057
		ΔHt.	91.284 m	0.024 m		
		ΔElev.	91.563 m	0.024 m		
		Ellip Dist.	28817.082 m	0.004 m		
ST3	ST1	**Az.**	271°47'41"	0.347 sec	1 : 567791	1 : 568048
		ΔHt.	-5.636 m	0.007 m		
		ΔElev.	-5.601 m	0.007 m		
		Ellip Dist.	1902.053 m	0.003 m		
ST3	ST12	**Az.**	107°15'04"	0.149 sec	1 : 1379516	1 : 1379913
		ΔHt.	11.540 m	0.007 m		
		ΔElev.	11.460 m	0.007 m		
		Ellip Dist.	4017.307 m	0.003 m		
ST3	ST14	**Az.**	210°13'57"	0.342 sec	1 : 604957	1 : 604927
		ΔHt.	-2.273 m	0.007 m		
		ΔElev.	-2.288 m	0.007 m		
		Ellip Dist.	1943.505 m	0.003 m		
ST3	ST15	**Az.**	138°15'52"	0.308 sec	1 : 691504	1 : 691793
		ΔHt.	5.816 m	0.008 m		
		ΔElev.	5.761 m	0.008 m		
		Ellip Dist.	2187.157 m	0.003 m		

ST3	ST2	Az.	87°54'22"	0.281 sec	1 : 699775	1 : 700087
		ΔHt.	8.582 m	0.008 m		
		ΔElev.	8.548 m	0.008 m		
		Ellip Dist.	2259.336 m	0.003 m		
ST3	ST20	Az.	126°34'54"	0.123 sec	1 : 1692984	1 : 1693619
		ΔHt.	16.315 m	0.007 m		
		ΔElev.	16.205 m	0.007 m		
		Ellip Dist.	4782.407 m	0.003 m		
ST3	ST5	Az.	238°56'01"	0.211 sec	1 : 938958	1 : 939067
		ΔHt.	-7.316 m	0.008 m		
		ΔElev.	-7.298 m	0.008 m		
		Ellip Dist.	3020.485 m	0.003 m		
ST3	ST7	Az.	221°20'47"	0.140 sec	1 : 1480955	1 : 1480929
		ΔHt.	-5.611 m	0.008 m		
		ΔElev.	-5.612 m	0.008 m		
		Ellip Dist.	4351.041 m	0.003 m		
ST4	BT11	Az.	217°48'20"	0.157 sec	1 : 1306062	1 : 1307085
		ΔHt.	49.105 m	0.007 m		
		ΔElev.	49.123 m	0.007 m		
		Ellip Dist.	3843.163 m	0.003 m		
ST4	ST21	Az.	111°41'13"	0.278 sec	1 : 759783	1 : 759756
		ΔHt.	1.994 m	0.005 m		
		ΔElev.	1.972 m	0.005 m		
		Ellip Dist.	2168.683 m	0.003 m		
ST4	ST23	Az.	215°22'18"	0.115 sec	1 : 1763252	1 : 1762250
		ΔHt.	90.755 m	0.007 m		
		ΔElev.	90.807 m	0.007 m		
		Ellip Dist.	5833.408 m	0.003 m		
ST5	BT2	Az.	80°50'30"	0.135 sec	1 : 1481864	1 : 1482395
		ΔHt.	15.620 m	0.008 m		
		ΔElev.	15.553 m	0.008 m		
		Ellip Dist.	4913.654 m	0.003 m		
ST5	ST1	Az.	22°57'43"	0.393 sec	1 : 534807	1 : 534765
		ΔHt.	1.680 m	0.007 m		
		ΔElev.	1.697 m	0.007 m		
		Ellip Dist.	1757.683 m	0.003 m		
ST6	BT12	Az.	101°50'34"	0.161 sec	1 : 1292094	1 : 1293218

		ΔHt.	53.077 m	0.011 m		
		ΔElev.	52.965 m	0.011 m		
		Ellip Dist.	4669.161 m	0.004 m		
ST6	BT7	**Az.**	97°20'04"	0.089 sec	1 : 2402179	1 : 2402874
		ΔHt.	60.822 m	0.010 m		
		ΔElev.	60.658 m	0.010 m		
		Ellip Dist.	7918.155 m	0.003 m		
ST6	CG NW1	**Az.**	187°11'51"	0.032 sec	1 : 6313623	1 : 6324704
		ΔHt.	100.969 m	0.020 m		
		ΔElev.	101.239 m	0.020 m		
		Ellip Dist.	23258.855 m	0.004 m		
ST6	ST17	**Az.**	106°20'40"	0.121 sec	1 : 1689137	1 : 1692118
		ΔHt.	74.834 m	0.010 m		
		ΔElev.	74.681 m	0.010 m		
		Ellip Dist.	6709.577 m	0.004 m		
ST6	ST18	**Az.**	133°20'40"	0.228 sec	1 : 839798	1 : 841777
		ΔHt.	42.789 m	0.010 m		
		ΔElev.	42.727 m	0.010 m		
		Ellip Dist.	2919.422 m	0.003 m		
ST6	ST19	**Az.**	59°14'57"	0.200 sec	1 : 1146039	1 : 1145553
		ΔHt.	14.242 m	0.011 m		
		ΔElev.	14.190 m	0.011 m		
		Ellip Dist.	4226.890 m	0.004 m		
ST6	ST7	**Az.**	33°42'34"	0.352 sec	1 : 617020	1 : 616766
		ΔHt.	4.075 m	0.009 m		
		ΔElev.	4.064 m	0.009 m		
		Ellip Dist.	1971.730 m	0.003 m		
ST6	ST9	**Az.**	90°11'53"	0.230 sec	1 : 940478	1 : 940877
		ΔHt.	26.444 m	0.011 m		
		ΔElev.	26.367 m	0.011 m		
		Ellip Dist.	3346.993 m	0.004 m		
ST7	BT12	**Az.**	126°47'24"	0.148 sec	1 : 1342603	1 : 1345054
		ΔHt.	49.002 m	0.008 m		
		ΔElev.	48.900 m	0.008 m		
		Ellip Dist.	4339.474 m	0.003 m		
ST7	BT2	**Az.**	64°08'29"	0.109 sec	1 : 1867136	1 : 1867676
		ΔHt.	13.915 m	0.007 m		

		ΔElev.	13.868 m	0.007 m		
		Ellip Dist.	5709.222 m	0.003 m		
ST7	CG NW1	Az.	189°13'06"	0.025 sec	1 : 8269124	1 : 8280985
		ΔHt.	96.895 m	0.021 m		
		ΔElev.	97.175 m	0.021 m		
		Ellip Dist.	25038.712 m	0.003 m		
ST7	ST1	Az.	16°17'35"	0.192 sec	1 : 1129608	1 : 1129528
		ΔHt.	-0.025 m	0.008 m		
		ΔElev.	0.011 m	0.008 m		
		Ellip Dist.	3465.481 m	0.003 m		
ST7	ST12	Az.	72°48'04"	0.079 sec	1 : 2654650	1 : 2654948
		ΔHt.	17.151 m	0.007 m		
		ΔElev.	17.072 m	0.007 m		
		Ellip Dist.	7024.428 m	0.003 m		
ST7	ST15	Az.	69°18'21"	0.134 sec	1 : 1454038	1 : 1454607
		ΔHt.	11.426 m	0.008 m		
		ΔElev.	11.373 m	0.008 m		
		Ellip Dist.	4628.468 m	0.003 m		
ST7	ST17	Az.	123°26'25"	0.110 sec	1 : 1756543	1 : 1761185
		ΔHt.	70.759 m	0.008 m		
		ΔElev.	70.617 m	0.008 m		
		Ellip Dist.	6403.842 m	0.004 m		
ST7	ST18	Az.	164°14'24"	0.148 sec	1 : 1379639	1 : 1382445
		ΔHt.	38.715 m	0.007 m		
		ΔElev.	38.662 m	0.007 m		
		Ellip Dist.	3786.503 m	0.003 m		
ST7	ST20	Az.	86°26'08"	0.078 sec	1 : 2591999	1 : 2593109
		ΔHt.	21.926 m	0.007 m		
		ΔElev.	21.817 m	0.007 m		
		Ellip Dist.	6727.548 m	0.003 m		
ST7	ST5	Az.	9°31'32"	0.361 sec	1 : 599809	1 : 599811
		ΔHt.	-1.705 m	0.007 m		
		ΔElev.	-1.686 m	0.007 m		
		Ellip Dist.	1731.751 m	0.003 m		
ST7	ST9	Az.	126°15'25"	0.230 sec	1 : 849349	1 : 850767
		ΔHt.	22.370 m	0.008 m		

		ΔElev.	22.302 m	0.008 m		
		Ellip Dist.	2793.387 m	0.003 m		
ST8	BT1	Az.	301°39'29"	0.092 sec	1 : 2272821	1 : 2269675
		ΔHt.	-33.568 m	0.006 m		
		ΔElev.	-33.419 m	0.006 m		
		Ellip Dist.	7651.066 m	0.003 m		
ST8	BT10	Az.	203°18'29"	0.214 sec	1 : 937323	1 : 936402
		ΔHt.	73.202 m	0.005 m		
		ΔElev.	73.183 m	0.005 m		
		Ellip Dist.	2585.000 m	0.003 m		
ST8	BT11	Az.	211°34'12"	0.102 sec	1 : 1989461	1 : 1992118
		ΔHt.	84.026 m	0.007 m		
		ΔElev.	84.027 m	0.007 m		
		Ellip Dist.	5400.995 m	0.003 m		
ST8	BT3	Az.	297°17'52"	0.108 sec	1 : 1916892	1 : 1915503
		ΔHt.	-24.716 m	0.005 m		
		ΔElev.	-24.621 m	0.005 m		
		Ellip Dist.	5361.183 m	0.003 m		
ST8	BT4	Az.	278°28'59"	0.093 sec	1 : 2284809	1 : 2283795
		ΔHt.	-14.477 m	0.006 m		
		ΔElev.	-14.385 m	0.006 m		
		Ellip Dist.	6266.516 m	0.003 m		
ST8	BT6	Az.	286°29'46"	0.201 sec	1 : 1057572	1 : 1057061
		ΔHt.	-9.504 m	0.005 m		
		ΔElev.	-9.465 m	0.005 m		
		Ellip Dist.	2785.924 m	0.003 m		
ST8	BT8	Az.	148°08'20"	0.381 sec	1 : 537431	1 : 537237
		ΔHt.	14.074 m	0.004 m		
		ΔElev.	14.053 m	0.004 m		
		Ellip Dist.	1394.978 m	0.003 m		
ST8	BT9	Az.	225°12'43"	0.148 sec	1 : 1402309	1 : 1401329
		ΔHt.	66.921 m	0.006 m		
		ΔElev.	66.923 m	0.006 m		
		Ellip Dist.	4131.002 m	0.003 m		
ST8	CG NW1	Az.	211°21'30"	0.023 sec	1 : 8958205	1 : 8964464
		ΔHt.	55.011 m	0.022 m		
		ΔElev.	55.467 m	0.022 m		

		Ellip Dist.	27050.941 m	0.003 m		
ST8	ST11	**Az.**	269°27'09"	0.348 sec	1 : 614518	1 : 614396
		ΔHt.	-4.425 m	0.005 m		
		ΔElev.	-4.409 m	0.005 m		
		Ellip Dist.	1685.476 m	0.003 m		
ST8	ST12	**Az.**	317°53'19"	0.101 sec	1 : 2031444	1 : 2031022
		ΔHt.	-24.732 m	0.006 m		
		ΔElev.	-24.635 m	0.006 m		
		Ellip Dist.	4963.060 m	0.002 m		
ST8	ST13	**Az.**	322°43'26"	0.263 sec	1 : 772455	1 : 771883
		ΔHt.	-16.932 m	0.006 m		
		ΔElev.	-16.894 m	0.006 m		
		Ellip Dist.	2070.947 m	0.003 m		
ST8	ST18	**Az.**	257°17'22"	0.057 sec	1 : 3660107	1 : 3659974
		ΔHt.	-3.169 m	0.008 m		
		ΔElev.	-3.045 m	0.008 m		
		Ellip Dist.	9242.369 m	0.003 m		
ST8	ST20	**Az.**	301°18'46"	0.125 sec	1 : 1656765	1 : 1656085
		ΔHt.	-19.958 m	0.005 m		
		ΔElev.	-19.891 m	0.005 m		
		Ellip Dist.	3892.580 m	0.002 m		
ST8	ST21	**Az.**	146°53'27"	0.195 sec	1 : 1087001	1 : 1086340
		ΔHt.	36.916 m	0.005 m		
		ΔElev.	36.876 m	0.005 m		
		Ellip Dist.	2825.583 m	0.003 m		
ST8	ST23	**Az.**	211°20'01"	0.084 sec	1 : 2373241	1 : 2372097
		ΔHt.	125.676 m	0.008 m		
		ΔElev.	125.712 m	0.008 m		
		Ellip Dist.	7401.205 m	0.003 m		
ST8	ST4	**Az.**	196°46'12"	0.323 sec	1 : 623778	1 : 623943
		ΔHt.	34.921 m	0.005 m		
		ΔElev.	34.904 m	0.005 m		
		Ellip Dist.	1634.826 m	0.003 m		
ST9	ST17	**Az.**	121°16'42"	0.210 sec	1 : 923880	1 : 925997
		ΔHt.	48.389 m	0.008 m		
		ΔElev.	48.315 m	0.008 m		

Ellip Dist.	3616.436 m	0.004 m

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