

11118 RMSE COMPUTATIONS

SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
1	2011/12/14	14:47:00	15:19:00	450257.895	502395.016	246.898	-0.029	-0.044	0.000	N	TRIMBLE-R6	OHHA-BGOH-TIFF
2	2012/02/13	17:18:00	22:01:00	150257.932	502395.022	246.892	0.008	-0.008	-0.004	Y	LEICA-AT502	OHHA-BGOH-TIFF
4	2012/02/14	17:09:00	21:56:00	150257.914	502394.998	246.893	-0.010	-0.032	-0.043	N	LEICA-AT502	OHHA-BGOH-TIFF
3	2012/02/14	12:19:00	17:02:00	150257.943	502395.000	246.898	0.019	-0.030	-0.038	N	LEICA-AT502	OHHA-BGOH-TIFF
5	2012/04/09	15:17:00	20:03:00	150257.919	502395.026	246.895	-0.005	-0.004	-0.011	Y	LEICA-AT502	OHHA-BGOH-TIFF
6	2012/06/11	0:37:00	5:21:00	150257.920	502395.041	246.911	-0.004	0.011	0.015	Y	LEICA-AT502	OHHA-BGOH-TIFF
7	2012/06/13	11:46:00	21:40:00	150257.913	502395.022	246.896	-0.011	-0.008	0.000	N	LEICA-AT502	OHHA-BGOH-TIFF

AVERAGE 150257.924 502395.030 246.896 RMSE
 RMSE IN METRIC: 0.0042
 PASS/FAIL PASS
 RMSE IN US SURVEY FEET: 0.0137
 PASS/FAIL PASS

FINAL MONUMENT COORDINATES			HEIGHT	LEVELLED ELEV.
NORTHING	EASTING	HEIGHT		
150257.924	502395.030	246.896	246.910	
492971.2045	1648274.3597	810.025	810.069	
493019.6044	1648436.1872	810.025	810.069	

ENGLISH TO METRIC CONVERSION 3.280833333
 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
1	2011/12/14	14:38:00	15:10:00	151285.328	501903.269	240.974	-0.019	-0.003	0.028	N	TRIMBLE-R8	OHHA-OHAL-KNTN
2	2012/02/15	12:24:00	17:10:00	151285.341	501903.268	240.927	-0.006	-0.004	-0.016	Y	LEICA-AT502	OHHA-OHAL-KNTN
3	2012/02/15	17:13:00	22:08:00	151285.352	501903.274	240.956	0.005	0.002	0.013	Y	LEICA-AT502	OHHA-OHAL-KNTN
4	2012/04/10	11:30:00	16:14:00	151285.347	501903.274	240.946	0.000	0.002	0.003	Y	LEICA-AT502	OHHA-OHAL-KNTN

AVERAGE 151285.347 501903.272 240.943 RMSE
 RMSE IN METRIC: 0.0039
 PASS/FAIL PASS
 RMSE IN US SURVEY FEET: 0.0128
 PASS/FAIL PASS

FINAL MONUMENT COORDINATES			HEIGHT	LEVELLED ELEV.
NORTHING	EASTING	HEIGHT		
151285.347	501903.272	240.943	240.973	
496342.0081	1646660.9847	790.494	790.591	
496390.7390	1646822.6539	790.494	790.591	

ENGLISH TO METRIC CONVERSION 3.280833333
 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

11118 RMSE COMPUTATIONS

SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
1	2012/02/20	16:11:00	21:28:00	150056.911	500164.084	242.017	-0.005	-0.008	-0.011	Y	LEICA AT502	OHHA, KNTN, BGOH
2	2012/02/21	17:16:00	21:46:00	150056.918	500164.090	242.036	0.004	0.010	0.004	Y	LEICA AT502	OHHA, KNTN, BGOH
3	2012/02/21	17:16:00	21:46:00	150056.920	500164.102	242.032	0.004	0.010	0.004	Y	LEICA AT502	OHHA, KNTN, BGOH
4	2012/04/10	16:38:00	21:05:30	150056.918	500164.090	242.036	0.002	-0.002	0.008	Y	TRIMBLE R6	OHHA, KNTN, BGOH

AVERAGE 150056.916 500164.092 242.028 RMSE

RMSE IN METRIC: 0.0039 0.0075 0.0082

PASS/FAIL PASS PASS PASS

RMSE IN US SURVEY FEET: 0.0127 0.0246 0.0268

PASS/FAIL PASS PASS PASS

FINAL MONUMENT COORDINATES		
NORTHING	EASTING	HEIGHT LEVELLED ELEV.
150056.916	500164.092	242.028
492311.7330	1640955.0250	794.055
492350.0681	1641116.1340	794.078

ENGLISH TO METRIC CONVERSION 3.280833333

GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
4	2012/02/22	17:00:00	21:59:00	151349.941	500816.752	239.288	0.001	-0.001	0.001	Y	LEICA AT502	OHHA, OHAL, KNTN
2	2012/02/22	17:00:00	21:59:00	151349.946	500816.747	239.300	0.009	-0.006	0.013	Y	LEICA AT502	OHHA, OHAL, KNTN
3	2012/02/22	17:00:00	21:59:00	151349.954	500816.772	239.328	0.014	0.007	0.030	Y	LEICA AT502	OHHA, OHAL, KNTN
4	2012/04/10	16:33:00	20:50:00	151349.935	500816.760	239.273	-0.010	0.007	-0.014	Y	TRIMBLE R8	OHHA, OHAL, KNTN

AVERAGE 151349.945 500816.753 239.287 RMSE

RMSE IN METRIC: 0.0078 0.0054 0.0110

PASS/FAIL PASS PASS PASS

RMSE IN US SURVEY FEET: 0.0256 0.0176 0.0362

PASS/FAIL PASS PASS PASS

FINAL MONUMENT COORDINATES		
NORTHING	EASTING	HEIGHT LEVELLED ELEV.
151349.945	500816.753	239.287
496553.9445	1643096.2970	785.061
496602.6962	1643257.6162	785.102

ENGLISH TO METRIC CONVERSION 3.280833333

GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

11118 RMSE COMPUTATIONS

MONUMENT #	SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
	1	2012/02/15	12:31:00	17:23:00	151556.662	501502.914	241.904	-0.010	-0.006	-0.013	Y	LEICA AT502	OHHA, OHAL, KNTN
	2	2012/02/15	17:25:00	22:14:00	151556.677	501502.920	241.915	0.005	0.000	-0.002	Y	LEICA AT502	OHHA, OHAL, KNTN
	3	2011/12/20	14:19:00	18:49:30	151556.676	501502.925	241.931	0.004	0.005	0.014	Y	TRIMBLE R6	OHHA, OHAL, KNTN

AVERAGE 151556.672 501502.920 241.917 RMSE RMSE RMSE

RMSE IN METRIC: 0.0068 0.0045 0.0111

PASS/FAIL PASS PASS PASS

RMSE IN US SURVEY FEET: 0.0225 0.0148 0.0364

PASS/FAIL PASS PASS PASS

FINAL MONUMENT COORDINATES			
NORTHING	EASTING	HEIGHT	LEVELED ELEV.
151556.672	501502.920	241.917	241.920
497232.1802	1645347.4954	793.688	793.698
497280.9985	1645509.0357	793.688	793.698

ENGLISH TO METRIC CONVERSION 3.280833333

GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

MONUMENT #	SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
	1	2012/02/16	11:27:00	16:11:00	153389.090	501468.499	240.267	-0.004	-0.005	0.000	Y	LEICA AT502	OHHA, KNTN, BGOH
	2	2012/02/16	16:12:00	20:52:30	153389.092	501468.510	240.265	-0.002	0.006	-0.002	Y	LEICA AT502	OHHA, KNTN, BGOH
	3	2012/02/24	22:05:00	2:45:00	453386.108	501468.507	240.223	0.014	0.003	-0.044	N	LEICA-AT502	OHHA--KNTN--BGOH
	4	2012/04/11	20:15:00	0:55:00	153389.101	501468.504	240.270	0.007	0.000	0.003	Y	TRIMBLE R6	OHHA, KNTN, BGOH

AVERAGE 153389.094 501468.504 240.267 RMSE RMSE RMSE

RMSE IN METRIC: 0.0048 0.0045 0.0021

PASS/FAIL PASS PASS PASS

RMSE IN US SURVEY FEET: 0.0157 0.0148 0.0067

PASS/FAIL PASS PASS PASS

FINAL MONUMENT COORDINATES			
NORTHING	EASTING	HEIGHT	LEVELED ELEV.
153389.094	501468.504	240.267	240.271
503244.0536	1645234.5845	788.277	788.288
503293.4621	1645396.1136	788.277	788.288

ENGLISH TO METRIC CONVERSION 3.280833333

GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

11118 RMSE COMPUTATIONS

MONUMENT #	SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	NORTHING (m)	EASTING (m)	HEIGHT (m)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
	1	2012/02/22	12:30:00	14:45:00	154910.6927	501680.478	238.051	0.048	-0.043	-0.020	0.048	-0.043	-0.020	N	LEICA-AT502	OHHA-OHAL-BGOH
	2	2012/02/22	22:13:00	3:04:00	154910.930	501680.500	238.073	0.009	0.048	0.002	0.009	0.048	0.002	N	LEICA-AT502	OHHA-OHAL-BGOH
	3	2012/02/23	11:18:00	16:00:00	154910.910	501680.493	238.083	-0.009	0.002	0.012	0.011	0.009	0.000	Y	LEICA-AT502	OHHA-OHAL-BGOH
	4	2012/02/23	16:03:00	20:39:00	154910.910	501680.493	238.083	-0.009	0.002	0.012	0.011	0.009	0.000	Y	LEICA-AT502	OHHA-OHAL-BGOH
	5	2012/06/11	0:51:00	5:41:00	154910.916	501680.479	238.058	-0.003	-0.072	-0.013	-0.003	-0.072	-0.013	Y	LEICA-AT502	OHHA-OHAL-BGOH
	<p>AVERAGE 154910.919 501680.491 238.071 RMSE 0.0084 0.0286 0.0102 RMSE 0.0087 0.0286 0.0102</p> <p>RMSE IN METRIC: PASS PASS PASS PASS PASS PASS PASS PASS PASS PASS PASS PASS PASS PASS PASS</p> <p>RMSE IN US SURVEY FEET: PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL</p>															

FINAL MONUMENT COORDINATES			
NORTHING	EASTING	HEIGHT	LEVELED ELEV.
154910.919	501680.491	238.071	238.103
508236.9056	1645930.0763	781.070	781.176
508286.8043	1646091.6737	781.070	781.176

ENGLISH TO METRIC CONVERSION 3.280833333
 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

MONUMENT #	SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	NORTHING (m)	EASTING (m)	HEIGHT (m)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
	1	2012/04/09	20:48:00	1:31:30	155394.247	501880.211	237.086	-0.005	0.001	0.007	-0.005	0.001	0.007	Y	TRIMBLE R6	KNTN-OHAL-OHHA
	2	2012/04/10	1:34:00	6:17:00	155394.250	501880.204	237.066	-0.002	-0.006	-0.013	-0.002	-0.006	-0.013	Y	TRIMBLE R6	KNTN-OHAL-OHHA
	3	2012/04/10	6:20:00	11:00:30	155394.258	501880.216	237.084	0.006	0.006	0.005	0.006	0.006	0.005	Y	TRIMBLE R6	KNTN-OHAL-OHHA
	<p>AVERAGE 155394.252 501880.210 237.079 RMSE 0.0046 0.0152 0.0090 RMSE 0.0049 0.0152 0.0090</p> <p>RMSE IN METRIC: PASS PASS PASS PASS PASS PASS PASS PASS PASS PASS PASS PASS PASS PASS PASS</p> <p>RMSE IN US SURVEY FEET: PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL PASS/FAIL</p>															

FINAL MONUMENT COORDINATES			
NORTHING	EASTING	HEIGHT	LEVELED ELEV.
155394.252	501880.210	237.079	237.096
509822.6406	1646585.3232	777.816	777.871
509872.6950	1646746.9850	777.816	777.871

ENGLISH TO METRIC CONVERSION 3.280833333
 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

11118 RMSE COMPUTATIONS

SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	NORTHING (m)	EASTING (m)	HEIGHT (m)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
1	2012/04/09	21:02:00	1:43:00	156546.862	502313.980	246.894	-0.009	0.000	-0.002	0.000	0.000	-0.002	Y	LEICA AT502	OHHA, OHAL, KNTN
2	2012/04/10	1:46:00	6:32:00	156546.874	502313.978	246.895	0.003	-0.002	-0.001	0.003	-0.002	-0.001	Y	LEICA AT502	OHHA, OHAL, KNTN
3	2012/04/10	11:13:00	16:01:00	156546.876	502313.982	246.900	0.005	0.002	0.004	0.005	0.002	0.004	Y	LEICA AT502	OHHA, OHAL, KNTN
<p>AVERAGE 156546.871 502313.980 246.896 RMSE</p> <p>RMSE IN METRIC: 0.0062 0.0016 0.0026</p> <p>PASS/FAIL PASS PASS PASS</p> <p>RMSE IN US SURVEY FEET: 0.0203 0.0054 0.0086</p> <p>PASS/FAIL PASS PASS PASS</p>															

FINAL MONUMENT COORDINATES			HEIGHT	LEVELED ELEV.
NORTHING	EASTING			
156546.871	502313.980	246.896	246.893	
513604.1915	1648008.4492	810.026	810.015	
513654.6171	1648170.2507	810.026	810.015	

ENGLISH TO METRIC CONVERSION
 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	NORTHING (m)	EASTING (m)	HEIGHT (m)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
1	2012/04/10	21:28:00	2:28:00	158293.356	502572.043	253.163	-0.002	-0.007	0.004	0.000	-0.007	0.004	Y	LEICA AT502	KNTN, OHHA, OHAL
2	2012/04/11	14:56:00	19:27:00	158293.364	502572.052	253.166	-0.019	0.002	0.012	-0.019	-0.008	0.012	N	LEICA AT502	KNTN, OHHA, OHAL
3	2012/04/11	5:53:00	11:07:00	158293.355	502572.055	253.149	-0.003	0.005	-0.010	-0.003	0.005	-0.010	Y	LEICA AT502	KNTN, OHHA, OHAL
<p>AVERAGE 158293.358 502572.050 253.159 RMSE</p> <p>RMSE IN METRIC: 0.0040 0.0051 0.0074</p> <p>PASS/FAIL PASS PASS PASS</p> <p>RMSE IN US SURVEY FEET: 0.0132 0.0167 0.0243</p> <p>PASS/FAIL PASS PASS PASS</p>															

FINAL MONUMENT COORDINATES			HEIGHT	LEVELED ELEV.
NORTHING	EASTING			
158293.358	502572.050	253.159	253.171	
519334.1264	1648855.1339	830.574	830.611	
519385.1146	1649017.0185	830.574	830.611	

ENGLISH TO METRIC CONVERSION
 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

11118 RMSE COMPUTATIONS

MONUMENT #11												
SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
1	2011/12/20	16:47:00	19:09:30	152718.114	501399.719	237.519	0.010	0.000	-0.002	Y	TRIMBLE R8	OHHA, TIFF, BGOH
2	2012/02/16	14:07:00	15:59:00	452748.406	501399.743	237.484	0.002	-0.006	-0.039	N	LEICA-AT502	OHHA, TIFF, BGOH
3	2012/02/16	16:01:00	20:42:00	152718.093	501399.713	237.516	-0.011	-0.006	-0.005	Y	LEICA-AT502	OHHA, TIFF, BGOH
4	2012/04/12	0:48:00	5:29:00	452748.434	501399.746	237.489	0.000	-0.004	-0.032	N	LEICA-AT502	OHHA, TIFF, BGOH
5	2012/06/11	18:40:00	20:26:00	452748.087	501399.675	237.494	-0.047	-0.044	-0.039	N	LEICA-AT502	OHHA, TIFF, BGOH
6	2012/08/13	11:19:00	21:49:00	152718.105	501399.724	237.527	0.001	0.005	0.006	Y	TRIMBLE R8	OHHA, TIFF, BGOH
AVERAGE				152718.104	501399.719	237.521	RMSE	RMSE	RMSE			
							RMSE IN METRIC:	0.0045	0.0046			
							PASS/FAIL	PASS	PASS			
							RMSE IN US SURVEY FEET:	0.0148	0.0152			
							PASS/FAIL	PASS	PASS			

FINAL MONUMENT COORDINATES		
NORTHING	EASTING	HEIGHT
152718.104	501399.719	237.521
501042.6462	1645008.9102	779.266
501091.8385	1645170.4171	779.343

ENGLISH TO METRIC CONVERSION 3.280833333
 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

MONUMENT #101												
SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
1	2011/12/19	14:26:00	18:59:00	450534.238	502400.155	246.112	-0.008	0.004	0.014	N	TRIMBLE R8	OHHA, KNIN, OHAL
2	2012/02/13	17:42:00	22:27:00	150534.246	502400.159	246.107	0.000	0.008	0.009	Y	LEICA AT502	OHHA, KNIN, OHAL
3	2012/02/14	17:08:00	22:01:00	150534.243	502400.147	246.103	-0.003	-0.004	0.005	Y	LEICA AT502	OHHA, KNIN, OHAL
4	2012/02/14	12:25:00	17:07:00	150534.250	502400.146	246.085	0.004	-0.005	-0.013	Y	LEICA AT502	OHHA, KNIN, OHAL
5	2012/04/09	15:26:00	20:26:00	450534.226	502400.149	246.119	-0.020	-0.032	0.012	N	LEICA-AT502	OHHA, KNIN, OHAL
AVERAGE				150534.246	502400.151	246.098	RMSE	RMSE	RMSE			
							RMSE IN METRIC:	0.0059	0.0096			
							PASS/FAIL	PASS	PASS			
							RMSE IN US SURVEY FEET:	0.0194	0.0314			
							PASS/FAIL	PASS	PASS			

FINAL MONUMENT COORDINATES		
NORTHING	EASTING	HEIGHT
150534.246	502400.151	246.098
493877.7731	1648291.1608	807.419
493926.2620	1648452.9900	807.419

ENGLISH TO METRIC CONVERSION 3.280833333
 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

11118 RMSE COMPUTATIONS

MONUMENT #102												
SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT (M)	NORTHING (m)	EASTING (m)	HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
1	2014/12/19	18:25:00	0:04:00	151010.666	502225.837	244.656	151010.666	502225.837	244.656	N	TRIMBLE R6	OHHA_OHAL_KNTN
2	2012/02/14	12:35:00	17:12:00	151010.666	502225.844	244.656	151010.666	502225.844	0.000	Y	LEICA AT502	OHHA_OHAL_KNTN
3	2012/02/14	17:14:00	22:07:00	151010.661	502225.838	244.661	151010.661	502225.838	0.001	Y	LEICA AT502	OHHA_OHAL_KNTN
4	2012/04/09	16:03:00	20:38:00	151010.671	502225.829	244.651	151010.671	502225.829	-0.008	Y	TRIMBLE R6	OHHA_OHAL_KNTN
AVERAGE				151010.666	502225.837	244.656	151010.666	502225.837	RMSE			
									0.0041			
									PASS			
									0.0134			
									PASS			

MONUMENT #103												
SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT (M)	NORTHING (m)	EASTING (m)	HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
1	2012/02/20	16:02:00	21:22:00	150456.854	500121.706	242.444	150456.854	500121.706	242.444	Y	LEICA AT502	KNTN_OHHA_BGOH
2	2012/02/21	17:14:00	21:54:00	150456.868	500121.714	242.449	150456.868	500121.714	0.008	N	LEICA AT502	KNTN_OHHA_BGOH
3	2012/02/21	21:54:00	2:39:00	150456.868	500121.712	242.491	150456.868	500121.712	0.034	N	LEICA AT502	KNTN_OHHA_BGOH
4	2012/06/11	16:26:00	20:47:00	150456.870	500121.696	242.490	150456.870	500121.696	-0.008	N	TRIMBLE R6	KNTN_OHHA_BGOH
5	2012/04/11	20:01:00	0:39:00	150456.862	500121.717	242.439	150456.862	500121.717	0.011	Y	LEICA AT502	KNTN_OHHA_BGOH
6	2012/06/13	11:58:00	21:39:00	150456.848	500121.696	242.454	150456.848	500121.696	-0.010	Y	TRIMBLE R8	KNTN_OHHA_BGOH
AVERAGE				150456.854	500121.706	242.444	150456.854	500121.706	RMSE			
									0.0087			
									PASS			
									0.0284			
									PASS			

FINAL MONUMENT COORDINATES			
	NORTHING	EASTING	HEIGHT
MONUMENT COORDINATES			LEVELED ELEV.
METERS (GRID)	151010.666	502225.837	244.656
US SURVEY FEET (GRID)	495440.8267	1647719.2667	802.676
US SURVEY FEET (GROUND)	495489.4690	1647881.0398	802.676

ENGLISH TO METRIC CONVERSION 3.280833333
 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

MONUMENT #102												
SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT (M)	NORTHING (m)	EASTING (m)	HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
1	2012/02/20	16:02:00	21:22:00	150456.854	500121.706	242.444	150456.854	500121.706	242.444	Y	LEICA AT502	KNTN_OHHA_BGOH
2	2012/02/21	17:14:00	21:54:00	150456.868	500121.714	242.449	150456.868	500121.714	0.008	N	LEICA AT502	KNTN_OHHA_BGOH
3	2012/02/21	21:54:00	2:39:00	150456.868	500121.712	242.491	150456.868	500121.712	0.034	N	LEICA AT502	KNTN_OHHA_BGOH
4	2012/06/11	16:26:00	20:47:00	150456.870	500121.696	242.490	150456.870	500121.696	-0.008	N	TRIMBLE R6	KNTN_OHHA_BGOH
5	2012/04/11	20:01:00	0:39:00	150456.862	500121.717	242.439	150456.862	500121.717	0.011	Y	LEICA AT502	KNTN_OHHA_BGOH
6	2012/06/13	11:58:00	21:39:00	150456.848	500121.696	242.454	150456.848	500121.696	-0.010	Y	TRIMBLE R8	KNTN_OHHA_BGOH
AVERAGE				150456.854	500121.706	242.444	150456.854	500121.706	RMSE			
									0.0068			
									PASS			
									0.0225			
									PASS			

FINAL MONUMENT COORDINATES			
	NORTHING	EASTING	HEIGHT
MONUMENT COORDINATES			LEVELED ELEV.
METERS (GRID)	150456.854	500121.706	242.444
US SURVEY FEET (GRID)	493623.8618	1640815.9625	795.472
US SURVEY FEET (GROUND)	493672.3258	1640977.0578	795.472

ENGLISH TO METRIC CONVERSION 3.280833333
 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

MONUMENT #104																											
SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS															
1	2012/02/20	16:54:00	21:15:00	451554.048	500962.627	237.975	0.028	0.015	-0.015	N	LEICA-AT502	KNHN-OHHA-BGOH															
2	2012/02/21	12:09:00	16:55:00	151554.017	500962.608	237.978	-0.003	-0.001	-0.008	Y	LEICA-AT502	KNTN-OHHA-OHAL															
3	2012/02/21	16:59:00	21:29:00	151554.023	500962.608	237.990	0.003	-0.001	0.004	Y	LEICA-AT502	KNTN-OHHA-OHAL															
4	2012/04/10	16:30:00	24:00:00	451554.037	500962.642	237.981	0.017	0.033	-0.005	N	LEICA-AT502	KNHN-OHHA-OHAL															
5	2012/06/11	11:14:00	16:15:00	151554.020	500962.612	237.990	0.000	0.003	0.004	Y	TRIMBLE R6	KNTN-OHHA-OHAL															
AVERAGE				151554.020	500962.609	237.986	RMSE	RMSE	RMSE																		
							RMSE IN METRIC:	0.0019	0.0057																		
							PASS/FAIL	PASS	PASS																		
							RMSE IN US SURVEY FEET:	0.0062	0.0186																		
							PASS/FAIL	PASS	PASS																		
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">FINAL MONUMENT COORDINATES</th> </tr> <tr> <th>NORTHING</th> <th>EASTING</th> <th>HEIGHT</th> </tr> </thead> <tbody> <tr> <td>151554.020</td> <td>500962.609</td> <td>237.986</td> </tr> <tr> <td>497223.4806</td> <td>1643574.8273</td> <td>780.807</td> </tr> <tr> <td>497272.2980</td> <td>1643736.1935</td> <td>780.807</td> </tr> </tbody> </table>													FINAL MONUMENT COORDINATES			NORTHING	EASTING	HEIGHT	151554.020	500962.609	237.986	497223.4806	1643574.8273	780.807	497272.2980	1643736.1935	780.807
FINAL MONUMENT COORDINATES																											
NORTHING	EASTING	HEIGHT																									
151554.020	500962.609	237.986																									
497223.4806	1643574.8273	780.807																									
497272.2980	1643736.1935	780.807																									
ENGLISH TO METRIC CONVERSION 3.280833333 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818																											

MONUMENT #105																											
SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS															
1	2011/12/20	12:00:00	16:36:00	151812.491	501364.479	246.681	0.006	-0.003	0.009	Y	TRIMBLE R8	KNTN-OHAL-OHHA															
2	2012/02/15	12:45:00	17:30:00	151812.474	501364.479	246.682	-0.011	-0.003	-0.010	Y	LEICA-AT502	KNTN-OHAL-OHHA															
3	2012/02/15	17:33:00	22:24:00	451812.489	501364.482	246.657	-0.048	0.009	-0.045	N	LEICA-AT502	KNHN-OHAL-OHHA															
4	2012/04/10	11:38:00	16:18:30	151812.491	501364.489	246.673	0.006	0.007	0.001	Y	TRIMBLE R6	KNTN-OHAL-OHHA															
AVERAGE				151812.485	501364.482	246.672	RMSE	RMSE	RMSE																		
							RMSE IN METRIC:	0.0047	0.0078																		
							PASS/FAIL	PASS	PASS																		
							RMSE IN US SURVEY FEET:	0.0155	0.0256																		
							PASS/FAIL	PASS	PASS																		
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">FINAL MONUMENT COORDINATES</th> </tr> <tr> <th>NORTHING</th> <th>EASTING</th> <th>HEIGHT</th> </tr> </thead> <tbody> <tr> <td>151812.485</td> <td>501364.482</td> <td>246.672</td> </tr> <tr> <td>498071.4622</td> <td>1644893.3086</td> <td>809.282</td> </tr> <tr> <td>498120.3629</td> <td>1645054.8012</td> <td>809.282</td> </tr> </tbody> </table>													FINAL MONUMENT COORDINATES			NORTHING	EASTING	HEIGHT	151812.485	501364.482	246.672	498071.4622	1644893.3086	809.282	498120.3629	1645054.8012	809.282
FINAL MONUMENT COORDINATES																											
NORTHING	EASTING	HEIGHT																									
151812.485	501364.482	246.672																									
498071.4622	1644893.3086	809.282																									
498120.3629	1645054.8012	809.282																									
ENGLISH TO METRIC CONVERSION 3.280833333 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818																											

11118 RMSE COMPUTATIONS

MONUMENT #106												
SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
1	2012/02/21	22:11:00	2:54:00	153702.281	501427.256	236.454	0.002	0.000	0.002	Y	LEICA AT502	OHHA, OHAL, KNTN
2	2012/02/22	12:22:00	17:06:00	153702.274	501427.254	236.447	-0.005	-0.002	-0.005	Y	LEICA AT502	OHHA, OHAL, KNTN
3	2012/02/22	17:08:00	22:06:00	153702.282	501427.258	236.454	0.003	0.002	0.002	Y	LEICA AT502	OHHA, OHAL, KNTN
<p>AVERAGE 153702.279 501427.256 236.452 RMSE</p> <p>RMSE IN METRIC: 0.0036 0.0016 0.0033</p> <p>PASS/FAIL PASS PASS PASS</p> <p>RMSE IN US SURVEY FEET: 0.0117 0.0054 0.0108</p> <p>PASS/FAIL PASS PASS PASS</p>												

FINAL MONUMENT COORDINATES		
NORTHING	EASTING	HEIGHT LEVELED ELEV.
153702.279	501427.256	236.452
504271.5603	1645099.2556	775.759
504321.0697	1645260.7714	775.759

ENGLISH TO METRIC CONVERSION 3.280833333
 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

MONUMENT #107												
SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	△ NORTHING (m)	△ EASTING (m)	△ HEIGHT (m)	INCLUDE Y/N	ANTENNA	CORS
1	2012/02/23	11:08:00	15:50:00	155177.853	501705.428	238.963	0.004	-0.006	-0.005	Y	LEICA AT502	OHHA, KNTN, OHAL
2	2012/02/23	15:52:00	20:44:00	155177.852	501705.428	238.974	0.003	-0.006	0.006	Y	LEICA AT502	OHHA, KNTN, OHAL
3	2012/04/12	1:03:00	5:39:00	155177.843	501705.446	238.968	-0.006	0.012	0.000	Y	TRIMBLE R6	OHHA, KNTN, OHAL
<p>AVERAGE 155177.849 501705.434 238.968 RMSE</p> <p>RMSE IN METRIC: 0.0045 0.0085 0.0045</p> <p>PASS/FAIL PASS PASS PASS</p> <p>RMSE IN US SURVEY FEET: 0.0148 0.0278 0.0148</p> <p>PASS/FAIL PASS PASS PASS</p>												

FINAL MONUMENT COORDINATES		
NORTHING	EASTING	HEIGHT LEVELED ELEV.
155177.849	501705.434	238.991
509112.5606	1646011.9112	784.015
509162.5453	1646173.5167	784.015

ENGLISH TO METRIC CONVERSION 3.280833333
 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

11118 RMSE COMPUTATIONS

MONUMENT #108																									
SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	NORTHING (m)	EASTING (m)	HEIGHT (m)	CORS															
1	2012/04/09	20:55:00	1:38:00	155918.091	502072.404	243.951	-0.005	0.003	0.005	OHAL, OHHA, KNTN															
2	2012/04/10	1:41:00	6:24:00	155918.092	502072.402	243.946	-0.004	0.001	0.000	OHAL, OHHA, KNTN															
3	2012/04/10	6:29:00	11:06:00	155918.104	502072.398	243.940	0.008	-0.003	-0.006	OHAL, OHHA, KNTN															
AVERAGE				155918.096	502072.401	243.946																			
				RMSE IN METRIC:	0.0059																				
				PASS/FAIL	PASS																				
				RMSE IN US SURVEY FEET:	0.0194																				
				PASS/FAIL	PASS																				
<table border="1"> <thead> <tr> <th colspan="3">FINAL MONUMENT COORDINATES</th> </tr> <tr> <th>NORTHING</th> <th>EASTING</th> <th>HEIGHT</th> </tr> </thead> <tbody> <tr> <td>155918.096</td> <td>502072.401</td> <td>243.946</td> </tr> <tr> <td>511541.2855</td> <td>1647215.8699</td> <td>800.345</td> </tr> <tr> <td>511591.5086</td> <td>1647377.5935</td> <td>800.345</td> </tr> </tbody> </table>											FINAL MONUMENT COORDINATES			NORTHING	EASTING	HEIGHT	155918.096	502072.401	243.946	511541.2855	1647215.8699	800.345	511591.5086	1647377.5935	800.345
FINAL MONUMENT COORDINATES																									
NORTHING	EASTING	HEIGHT																							
155918.096	502072.401	243.946																							
511541.2855	1647215.8699	800.345																							
511591.5086	1647377.5935	800.345																							
ENGLISH TO METRIC CONVERSION 3.280833333 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818																									

MONUMENT #109																									
SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	NORTHING (m)	EASTING (m)	HEIGHT (m)	CORS															
1	2012/04/11	10:43:00	15:13:00	157131.691	502498.391	254.368	-0.001	-0.005	-0.009	OHHA, OHAL, KNTN															
2	2012/04/11	15:16:00	19:23:00	157131.685	502498.391	254.361	-0.007	-0.005	0.004	OHHA, OHAL, KNTN															
3	2012/04/10	21:45:00	2:41:00	157131.701	502498.405	254.361	0.009	0.009	0.004	OHHA, OHAL, KNTN															
AVERAGE				157131.692	502498.396	254.377																			
				RMSE IN METRIC:	0.0066																				
				PASS/FAIL	PASS																				
				RMSE IN US SURVEY FEET:	0.0217																				
				PASS/FAIL	PASS																				
<table border="1"> <thead> <tr> <th colspan="3">FINAL MONUMENT COORDINATES</th> </tr> <tr> <th>NORTHING</th> <th>EASTING</th> <th>HEIGHT</th> </tr> </thead> <tbody> <tr> <td>157131.692</td> <td>502498.396</td> <td>254.377</td> </tr> <tr> <td>515522.8939</td> <td>1648613.4863</td> <td>834.567</td> </tr> <tr> <td>515573.5079</td> <td>1648775.3472</td> <td>834.567</td> </tr> </tbody> </table>											FINAL MONUMENT COORDINATES			NORTHING	EASTING	HEIGHT	157131.692	502498.396	254.377	515522.8939	1648613.4863	834.567	515573.5079	1648775.3472	834.567
FINAL MONUMENT COORDINATES																									
NORTHING	EASTING	HEIGHT																							
157131.692	502498.396	254.377																							
515522.8939	1648613.4863	834.567																							
515573.5079	1648775.3472	834.567																							
ENGLISH TO METRIC CONVERSION 3.280833333 GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818																									

11118 RMSE COMPUTATIONS

MONUMENT #110										
SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	NORTHING (m)	EASTING (m)	HEIGHT (m)	CORS
1	2012/04/10	24:56:00	2:32:30	458607.686	502576.417	252.625	0.022	0.007	-0.007	KNIN, OHHA, OHAL
2	2012/04/11	10:32:00	15:02:00	158607.667	502576.412	252.682	-0.007	0.002	0.000	KNIN, OHHA, OHAL
3	2012/04/11	15:04:00	19:34:00	158607.683	502576.418	252.672	0.009	0.008	-0.010	KNIN, OHHA, OHAL
4	2012/06/11	11:14:00	16:06:00	158607.671	502576.399	252.682	-0.003	-0.011	0.010	KNIN, OHHA, OHAL

AVERAGE **158607.674** **502576.410** **252.682** **RMSE**

RMSE IN METRIC: 0.0068 0.0079 0.0082

PASS/FAIL PASS PASS PASS

RMSE IN US SURVEY FEET: 0.0223 0.0260 0.0268

PASS/FAIL PASS PASS PASS

FINAL MONUMENT COORDINATES			
	NORTHING	EASTING	HEIGHT
MONUMENT COORDINATES	158607.674	502576.410	252.682
METERS (GRID)	520365.3426	1648869.4372	829.008
US SURVEY FEET (GROUND)	520416.4321	1649031.3232	829.008
US SURVEY FEET (GROUND)			828.967

ENGLISH TO METRIC CONVERSION 3.280833333

GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818

MONUMENT #111										
SESSION	OBSERVATION DATE	START TIME	END TIME	NORTHING (m)	EASTING (m)	HEIGHT(M)	NORTHING (m)	EASTING (m)	HEIGHT (m)	CORS
1	2011/12/20	19:03:00	23:33:00	152972.743	501407.809	236.936	0.008	-0.003	0.000	OHHA, KNTN, BGOH
2	2012/02/16	4:06:00	20:47:00	462972.759	604407.849	236.984	0.024	0.007	0.048	OHHA, KNTN, BGOH
3	2012/04/11	20:09:00	0:49:00	152972.734	501407.813	236.942	-0.001	0.001	0.006	OHHA, KNTN, BGOH
4	2012/04/12	0:52:00	5:32:30	152972.728	501407.813	236.929	-0.007	0.001	-0.007	OHHA, KNTN, BGOH

AVERAGE **152972.735** **501407.812** **236.936** **RMSE**

RMSE IN METRIC: 0.0062 0.0019 0.0053

PASS/FAIL PASS PASS PASS

RMSE IN US SURVEY FEET: 0.0202 0.0062 0.0174

PASS/FAIL PASS PASS PASS

FINAL MONUMENT COORDINATES			
	NORTHING	EASTING	HEIGHT
MONUMENT COORDINATES	152972.735	501407.812	236.936
METERS (GRID)	501878.0480	1645035.4619	777.346
US SURVEY FEET (GROUND)	501927.3224	1645196.9715	777.346
US SURVEY FEET (GROUND)			777.396

ENGLISH TO METRIC CONVERSION 3.280833333

GRID TO GROUND MULTIPLIER (SCALE FACTOR) 1.00009818