



12/06/2024

SURVEY REPORT

Boundary Identification Survey

Parcel 192-002-131 & 192-007-031

Panatina Campus

June 2024



Gilmour Pio Registered Surveyor
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1.0 Introduction

On Completion of our initial survey carried out in April 2024 at eastern boundary of parcel 192-002-131, further request was issued to carry out further survey to identify boundary pegs at the Eastern, Southern and Western boundary of parcel 192-002-131, and parcel 192-007-031 at SINU Panatina Campus. A total distance of 1.96km to survey

1.1 Scope of Work

The scope of works for survey:-

1. Identify and confirm the extend of boundary pegs from peg 344a, TCVIII, 440, 443, to corner peg 2 and follow the western boundary north to peg BT2, TS3, M18, PS7, P42, P54A P52, and close off at peg TCVII 1
2. Replace any missing pegs if not found with Iron rods
3. Identify any major encroachment issues
4. Pickup existing fence line and buildings inside PN 192-002-131 and PN 192-007-031
5. Produce survey plans
6. Carry out Household survey of settlements in the above parcels

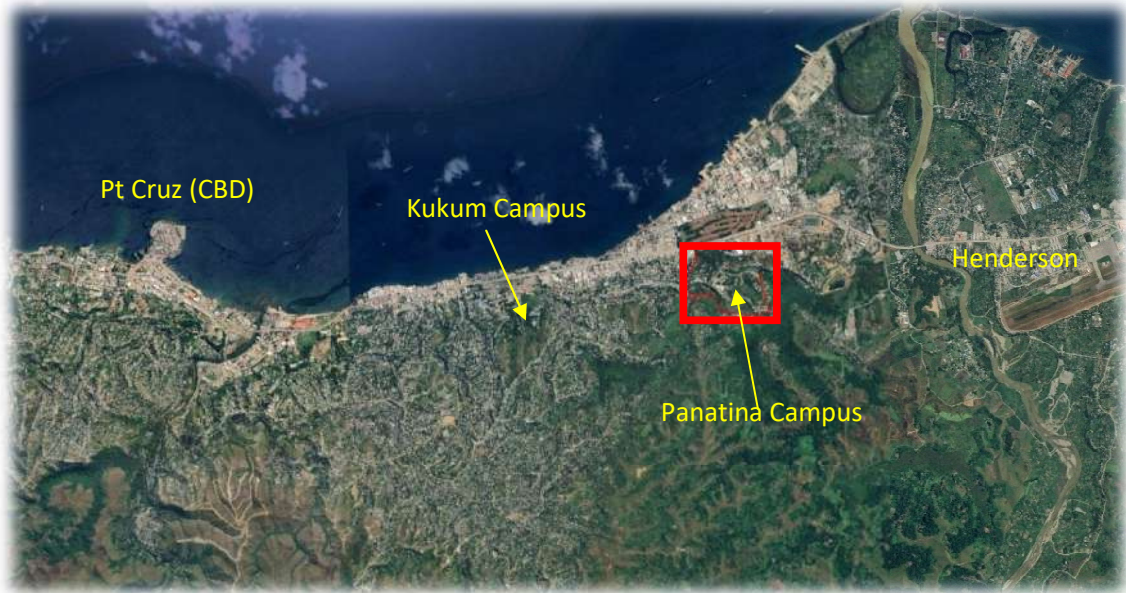
Figure 1.0: Map showing area to Survey in red



2.0 Location of Site

Panatina Campus is located 5.9km from Central Business District (CBD) East of Honiara and 290m south of Friendship Hall complex as shown on location map below

Figure 1.0: Location map



Source: Google Image

Figure 2.0 Site Where Survey is carried out Southern Boundary



Panatina Campus Southern Boundary

3.0 Field Survey Team

Gilmour Pio - Surveyor

Lenmour Moveni Pio- Survey Technician

Teika Alepio- Survey Technician

Say Kay - Field Survey Technician

4.0 Instrument and Equipment Used

No	Description
1	Total Station Topcon GM50
1	Tripod Legs, Prism Pole. Tape, Radio
2	Magnet 7.3 software

5.0 Datum

The survey datum used is based on GUX 1 Astro, UTM Zones 57s

Location of Survey:	Panatina Campus, East Honiara
Coordinate of Origin	Coordinate of Origin ST 74A 610,689.73mE, 8,958,004.77mN 75.5m RL
Type of Survey:	Boundary Identification
Special Requirements:	Replace missing boundary and identify any major encroachment issues

Figure 3.0: Survey mark of Origin ST74A



Lands Department
Standard traverse mark (ST)
ST74A

6.0 Survey Methodology

The following survey methodologies were used to carry out the Boundary Identification Survey of parcel 192-002-131 and parcel 192-007-031.

6.1 Survey Control

The survey control used to commenced survey is based on series of GPS control network setup around the Panatina campus perimeter boundary. Using Lands Department Standard Survey mark ST73A as Base Reference Station and fixing 11 GPS point using Static survey method. The GPS coordinates are shown in table 1.0 below.

Table 1.0: GPS Control Network Coordinate List

STN	East	North	RL	Comment
ST73A	610688.037	8958005.335	36.172	Existing Lands Survey mark
P1	610933.788	8957836.1	31.570	GPS Control
P3	611232.894	8957864.91	31.855	GPS Control
P2	611124.322	8957784.115	32.767	GPS Control
P4	611112.028	8958104.982	25.113	GPS Control
P5	611136.703	8958151.819	6.309	GPS Control
P6	610512.985	8958024.867	37.124	GPS Control
P7	610656.161	8957904.604	9.056	GPS Control
P8	610792.311	8957816.824	9.744	GPS Control
P9	610450.36	8958119.196	32.595	GPS Control
P10	610521.894	8958219.441	30.760	GPS Control
P11	610561.279	8958238.814	30.078	GPS Control

Figure 4.0: GPS Control Network Layout



Set-up at a GPS surveyed point and orientate to another visible GPS control. Check that difference in distance and bearing is within tolerance of ± 0.005 . A check shot to a third GPS control mark was and note the difference.

6.2 Topographical survey

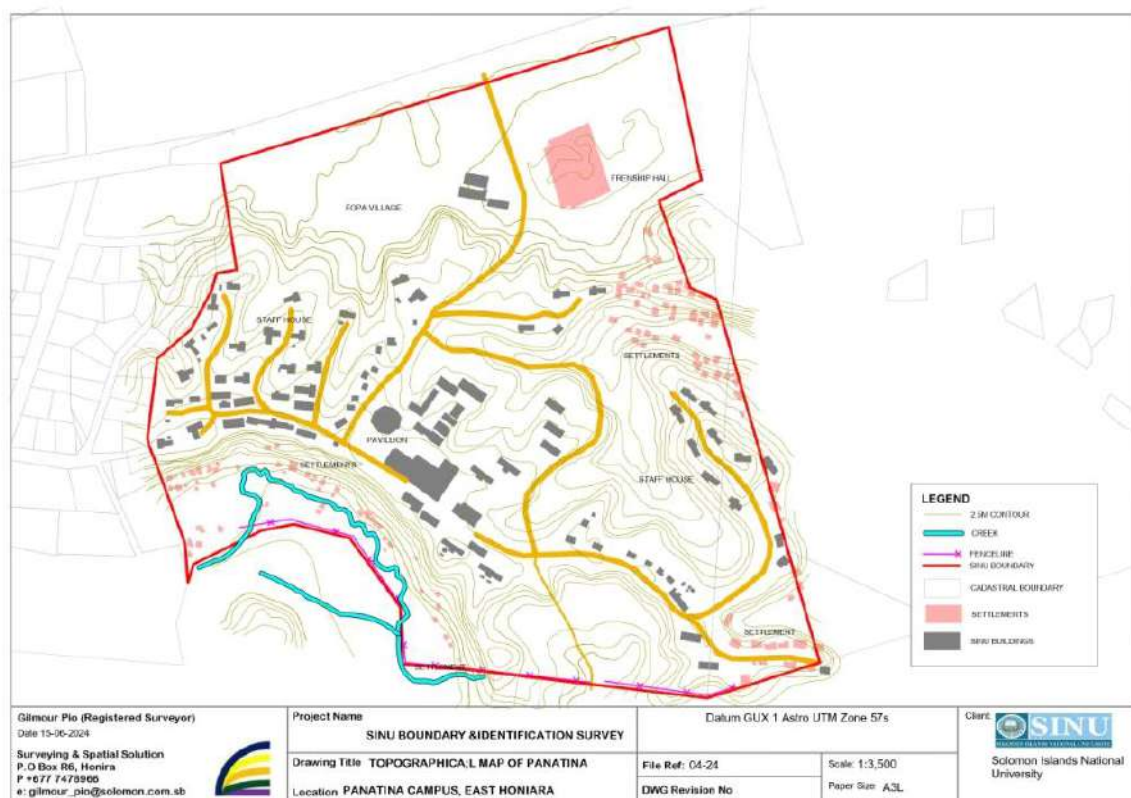
Field Data Pickup

The topographical survey was done by radiation technique using Total Station, Horizontal bearing, and Horizontal distance and Difference in height are key data collected for each feature. All data collected were recorded in the instrument data recorder and downloaded directly in Magnet Software for data processing

6.3 Processing Methodology

Processing of data was done using Magnet 7.2 software. Data in the surveying instrument were uploaded directly into Magnet and reduced as shown Figure 4.0 below.

Figure 5.0 Topo Survey



6.4 Boundary Identification Survey

From Lands Department survey records the following coordinates below enclosed property boundary of PN 192-002-131

Table1.0 Boundary Coordinate

STN	East	North
BT2	610479.10	8957895.33
TEL7	610538.80	8958294.00
TCV11	610526.76	8958371.33
P52	610546.89	8958238.01
P57	610444.77	8958126.95
M18	610433.93	8958017.69
P54A	610521.26	8958233.91
L55	610540.60	8958282.26
P42	610488.02	8958163.22
2	610755.89	8957742.09
444	610761.91	8957741.62
443	610826.88	8957736.63
442	610873.92	8957730.85
441	611097.30	8957703.63
440	611145.56	8957698.08
TCIII	611086.63	8958321.91
TCII	611141.15	8958347.52
TCI	611100.20	8958539.73
TCCX	610622.76	8958397.79
TCIV	611126.15	8958212.66
TCV	611159.38	8958198.18
CJ1	611112.55	8958250.27
439	611148.70	8957740.38
438	611154.46	8957816.03
437	611158.15	8957869.60
436	611166.09	8957983.91
346	611171.16	8958064.97
345	611174.15	8958109.73
344a	611176.43	8958138.33

The boundary identification survey was done by radiation survey technique, calculating bearing and distance of boundary pegs to the survey mark on site.

Figure 6.0: Radiation survey –Boundary Ident.



The table below is a summary of the boundary identification survey done in parts of

eastern, southern and western side of parcel 192-002-131, Panatina campus.

Table 2.0 Boundary Identification Summary table

STN	East	North	Comment
440	611145.5590	8957698.0830	Found in good Condition
443	610826.8810	8957736.6320	Replaced with Iron Tube
344a	611176.4270	8958138.3270	Replaced with Iron Tube
P42	610488.0180	8958163.2250	Replaced with Iron Tube
P52	610546.8870	8958238.0050	Replaced with Iron Tube
P54	610514.4560	8958211.1640	Replaced with Iron Tube
P57	610444.7720	8958126.9530	Not Replaced -concrete driveway
P97	610431.9570	8958027.5620	Replaced with Iron Tube
P54A	610521.2590	8958233.9070	Corner on Fence Line
T13	610755.8900	8957742.0890	Replaced with Iron Tube
T14	610753.8800	8957813.7480	Replaced with Iron Tube
T15	610689.6450	8957900.6320	Replaced with Iron Tube
T16	610618.4550	8957918.3230	Replaced with Iron Tube
T17	610577.1100	8957910.7290	Replaced with Iron Tube
T18	610489.9090	8957868.8800	Replaced with Iron Tube
T19	610482.7690	8957846.2260	Replaced with Iron Tube
T20	610479.0970	8957895.3260	Replaced with Iron Tube
TCV11	610526.7630	8958371.3260	Replaced with concrete in Iron pin
TCVIII	611289.3820	8957741.6850	Not Found -position inside Creek

7. Encroachments Issues

1. A total of 16 buildings were found settling inside SINU property parcel 192-007-031, this is mostly on the eastern side of the boundary. Most of the building belongs to Patterson Tavake.
2. In the southern boundary of parcel 192-003-131 a total of 56 buildings were found
3. From Peg P57 to peg P42, along the western boundary, the property belonging to John Prasad on parcel 192-002-083 encroached into parcel 192-002-131 with a total encroached area of 225.6m sq

Figure 7.0: Encroachments PN 192-007-031

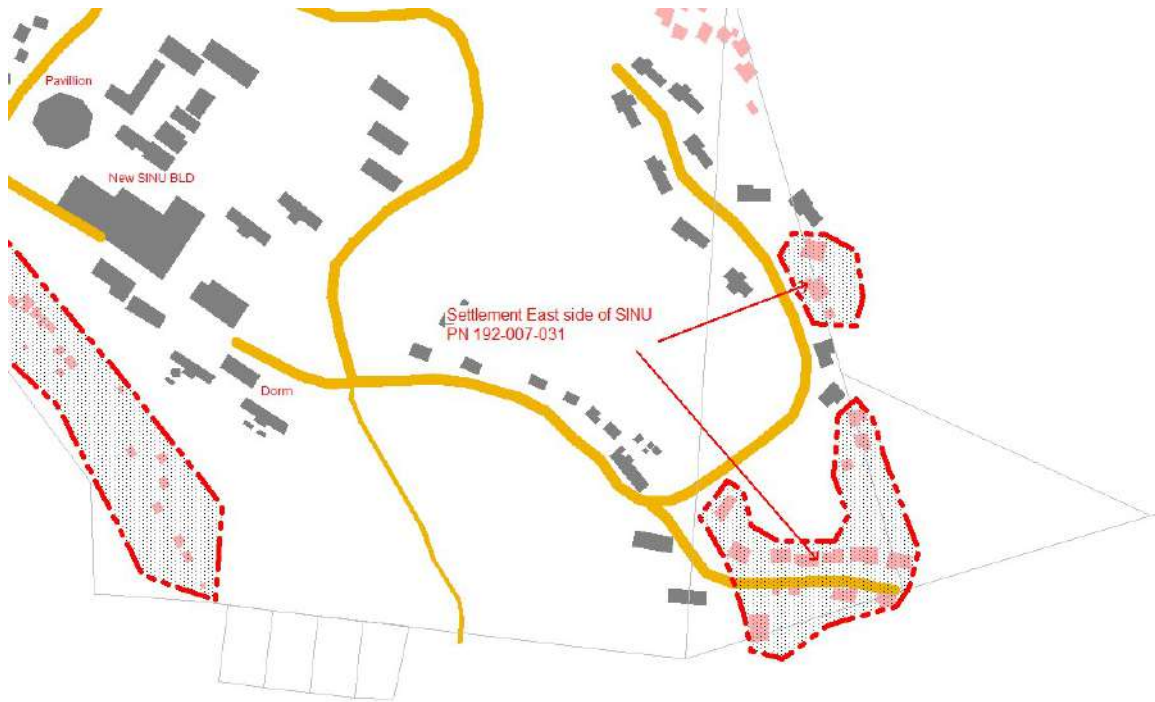


Figure 8.0: Map showing Encroachments

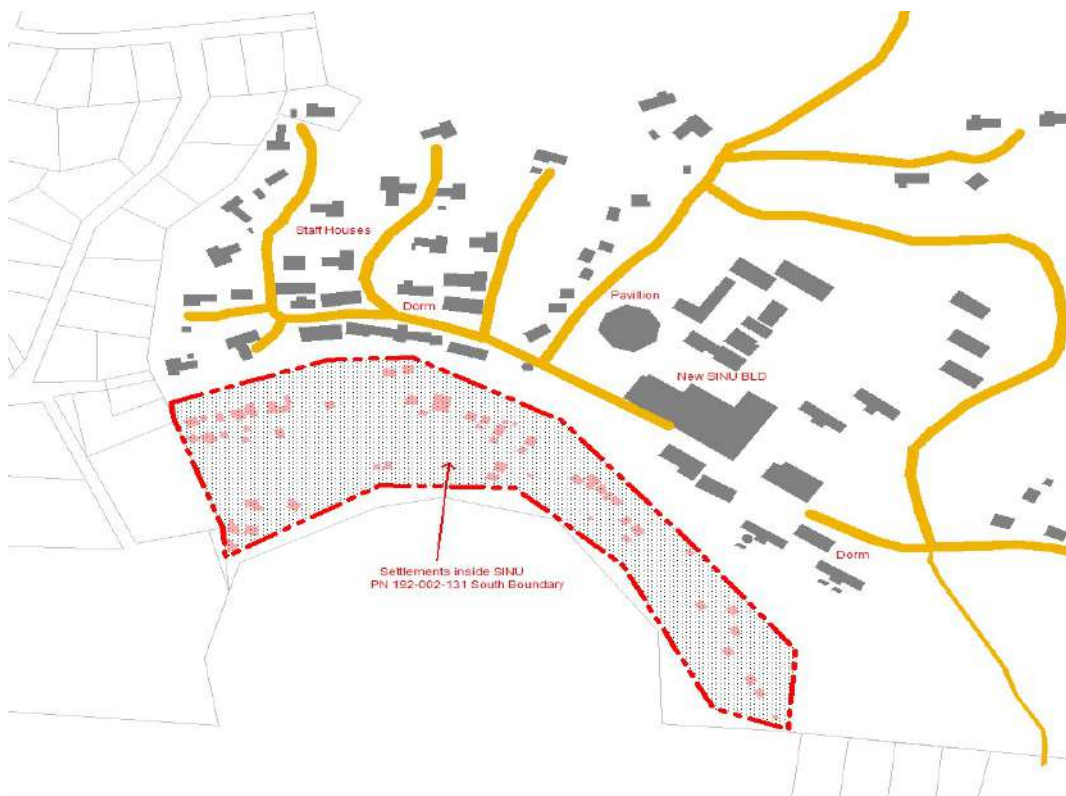


Figure 9.0: Map showing Encroachments



Figure 9.0: Map showing Settlements, southern boundary



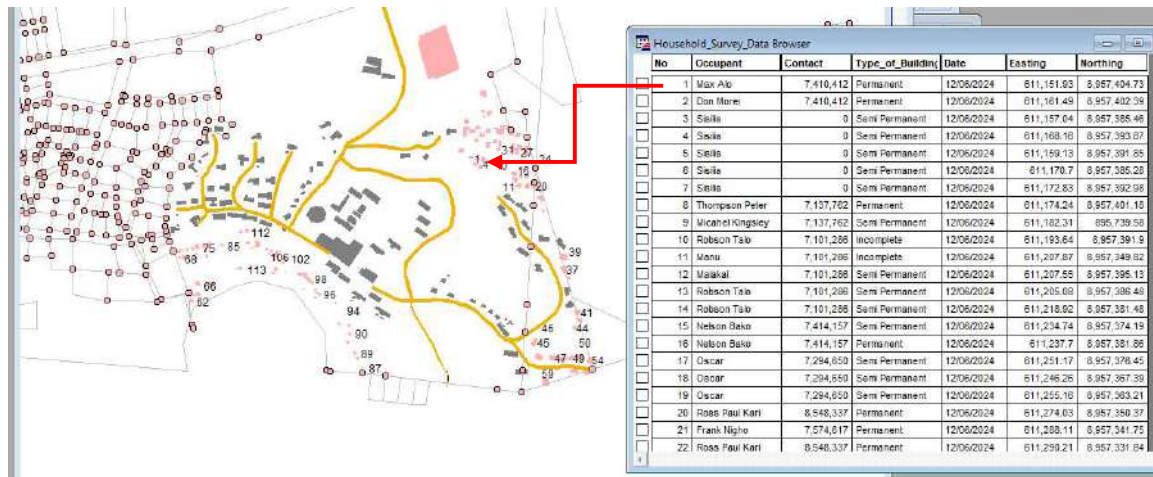
6.0 Household Survey

Household survey was also conducted after the boundary identifications survey. Key data collected are:-

- House Owner
- Contact
- Type of House (Permanent, Semi-Permanent, Temporary)
- GPS Location
- House Photo

Each household mapped during topo survey were allocated with unique number. The questioner form were then used, using the numbering system as link

Figure 10.0: Household data Link to Map



6.0 Household Survey Findings

From the household survey a total of 112 household were surveyed of which 34 permanent houses, 67 semi-permanent houses 1 shed and 1 Church building.

Most of the settlers interviewed have no formal employment but they owned more than one building and are renting them for income.

Figure 11.0: Typical Houses inside SIMU property



6.0 Conclusion

The survey went well and no incident to report on, the settlers are also cooperating during the household survey.

Signature
Gilmour Pio
License Surveyor

Annexes

1. GPS Survey Reduction
2. Boundary Pegs
3. Topographical Map
4. Household Survey Listing
5. House Photos

Points



Project Summary

Project name	Control SINU
Linear unit	Meters
Projection	UTMSouth-Zone_57 : 156E to 162E

Points

Name	Ground Northing (m)	Ground Easting (m)	Elevation (m)
S1	8958323.056	611031.906	8.239
S2	8958330.701	611103.935	9.208
S3	8958221.736	611060.275	22.399
ST73A	8958005.335	610688.037	36.172

GNSS Observations

Name	dN (m)	dE (m)	dHt (m)	Horz RMS	Vert RMS
S1-ST73A	-317.721	-343.869	27.933	0.002	0.004
S2-ST73A	-325.366	-415.898	26.964	0.004	0.006
S3-ST73A	-216.401	-372.237	13.773	0.002	0.002

GNSS Occupations

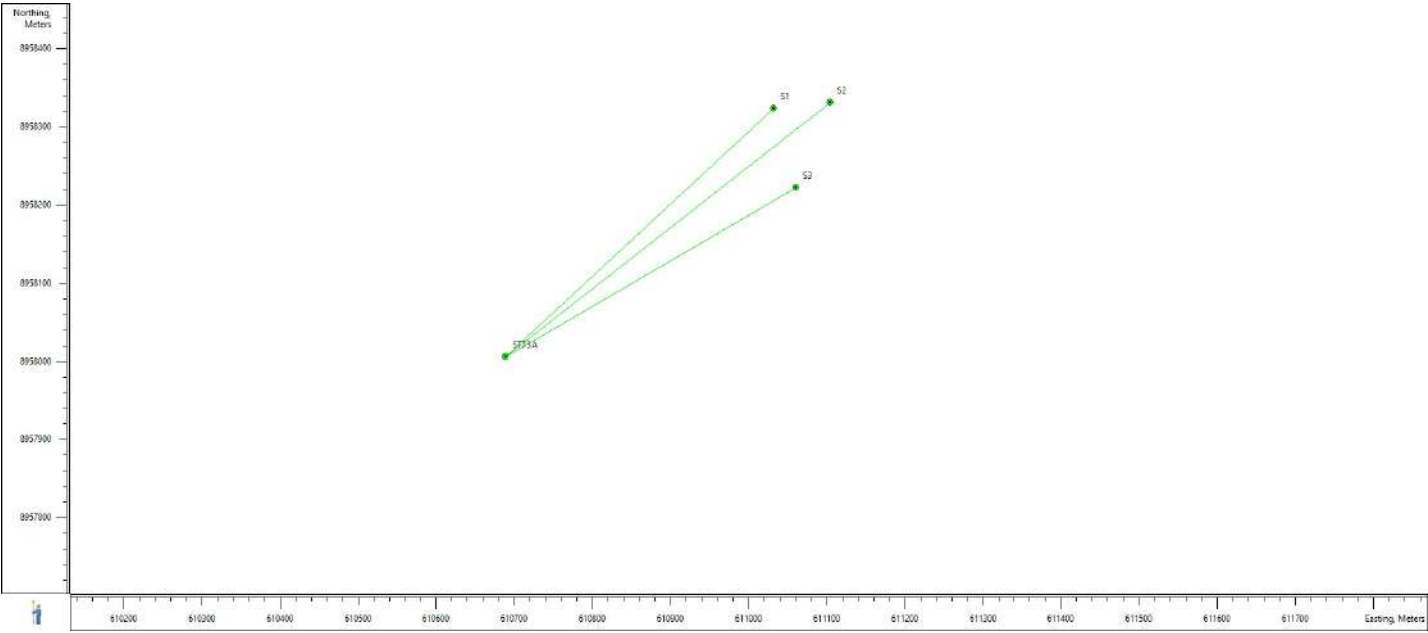
Point Name	Original Name
ST73A	PP009_0405wa_7PJ4
S3	PP009_0406aa_M58G
S1	PP009_0405wa_M58G
S2	PP009_0405xa_M58G

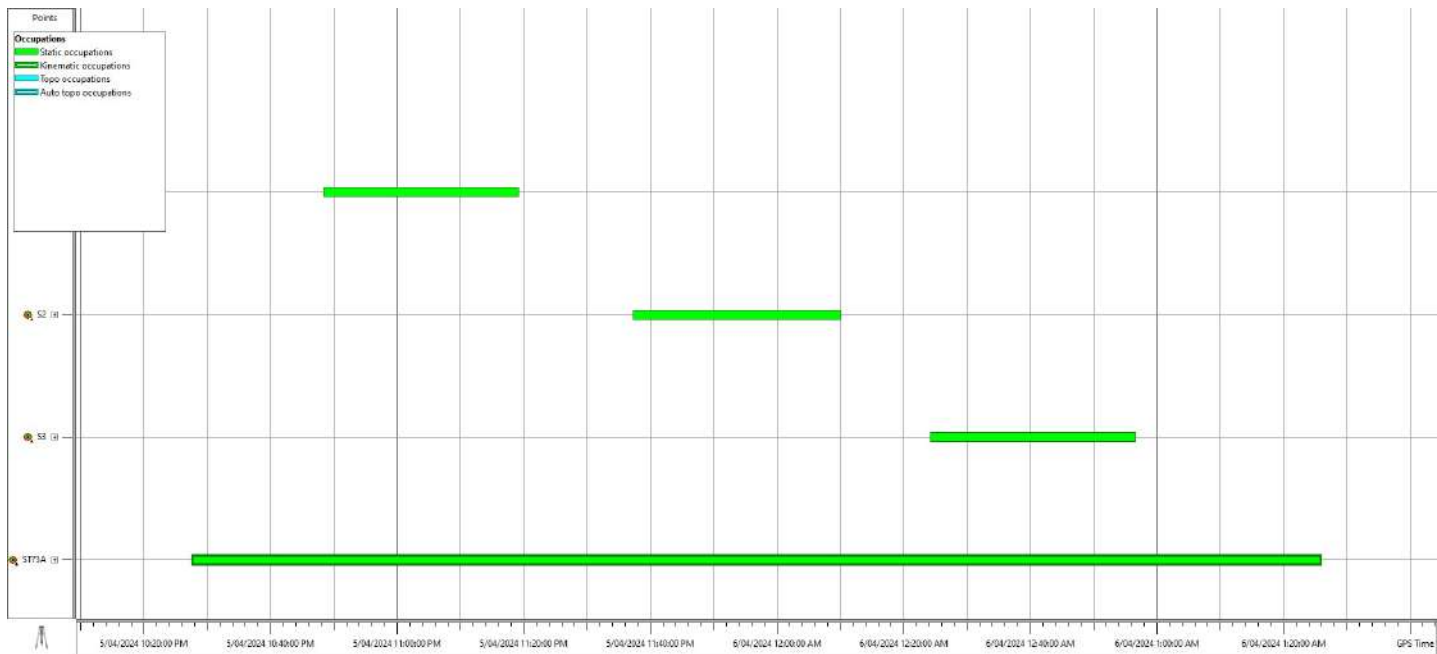
Localization
data report

No Data

Localization Quality data report

Maximum Error N	
Maximum Error E	
Maximum Error H	
Maximum Error Hz	
Maximum Error 3D	
Average Error N	
Average Error E	
Average Error H	
Average Error Hz	
Average Error 3D	
Point with Maximum Error N	
Point with Maximum Error E	
Point with Maximum Error H	
Point with Maximum Error Hz	
Point with Maximum Error 3D	
Metric Unit	m





Point Summary

Name	Ground Northing (m)	Ground Easting (m)	Elevation (m)
S1	8958323.056	611031.906	8.239
S2	8958330.701	611103.935	9.208
S3	8958221.736	611060.275	22.399
ST73A	8958005.335	610688.037	36.172

Annex 2: Boundary Pegs



441



443



444



P52



P54



P55



P57-not replaced



TCVIII



LEGEND

- 2.5M CONTOUR
- CREEK
- FENCELINE
- SINU BOUNDARY
- CADASTRAL BOUNDARY
- SETTLEMENTS
- SINU BUILDINGS

Gilmour Pio (Registered Surveyor)
Date 15-06-2024

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Project Name
SINU BOUNDARY & IDENTIFICATION SURVEY

Drawing Title **TOPOGRAPHICAL MAP OF PANATINA**

Location **PANATINA CAMPUS, EAST HONIARA**

Datum GUX 1 Astro UTM Zone 57s

File Ref: 04-24

DWG Revision No

Scale: 1:3,500

Paper Size A3L



Solomon Islands National
University

Annex 4: Household Survey List

No	Occupant	Contact	Type of Building	Date	Easting	Northing
1	Max Alo	7410412	Permanent	12/06/2024	611151.93	8957404.73
2	Don Morei	7410412	Permanent	12/06/2024	611161.49	8957402.39
3	Sisilia		Semi Permanent	12/06/2024	611157.04	8957385.46
4	Sisilia		Semi Permanent	12/06/2024	611168.16	8957393.87
5	Sisilia		Semi Permanent	12/06/2024	611159.13	8957391.85
6	Sisilia		Semi Permanent	12/06/2024	611170.70	8957385.28
7	Sisilia		Semi Permanent	12/06/2024	611172.83	8957392.98
8	Thompson Peter	7137762	Permanent	12/06/2024	611174.24	8957401.18
9	Micahel Kingsley	7137762	Semi Permanent	12/06/2024	611182.31	895739.58
10	Robson Talo	7101286	Incomplete	12/06/2024	611193.64	8957391.90
11	Manu	7101286	Incomplete	12/06/2024	611207.87	8957349.82
12	Maiakai	7101286	Semi Permanent	12/06/2024	611207.55	8957395.13
13	Robson Talo	7101286	Semi Permanent	12/06/2024	611205.08	8957386.48
14	Robson Talo	7101286	Semi Permanent	12/06/2024	611218.92	8957381.48
15	Nelson Bako	7414157	Semi Permanent	12/06/2024	611234.74	8957374.19
16	Nelson Bako	7414157	Permanent	12/06/2024	611237.70	8957381.86
17	Oscar	7294650	Semi Permanent	12/06/2024	611251.17	8957376.45
18	Oscar	7294650	Semi Permanent	12/06/2024	611246.26	8957367.39
19	Oscar	7294650	Semi Permanent	12/06/2024	611255.16	8957363.21
20	Ross Paul Kari	8548337	Permanent	12/06/2024	611274.03	8957350.37
21	Frank Nigho	7574617	Permanent	12/06/2024	611288.11	8957341.75
22	Ross Paul Kari	8548337	Permanent	12/06/2024	611290.21	8957331.84
23	Nelson Bako	7414157	Incomplete	12/06/2024	611234.70	8957389.75
24	Atkin		Incomplete	12/06/2024	611281.00	8957404.00
25	Henry		Permanent	12/06/2024	611259.00	8957413.00
26	Wilfred Katai	7352630	Permanent	12/06/2024	611258.72	8957423.20
27	Wilfred Katai	7352630	Permanent	12/06/2024	611244.18	8957417.61
28	Robert Ramo	7148380	Semi Permanent	12/06/2024	611245.15	8957426.56
29	Robert Ramo	7148380	Semi Permanent	12/06/2024	611236.41	8957431.27
30	Duddley Tewata		Semi Permanent	12/06/2024	611232.95	8957420.75
31	Duddley Tewata		Incomplete	12/06/2024	611207.18	8957421.99
32	Paul Towai		Semi Permanent	12/06/2024	611208.98	8957433.50
33	Albert	7150335	Semi Permanent	12/06/2024	611209.47	8957407.86
34	Magret	7150335	Permanent	12/06/2024	611188.86	8957417.19
35	Selina		Incomplete	12/06/2024	611186.86	8957425.37
36	Tonawane		Semi Permanent	12/06/2024	611190.20	8957439.65
37	Don Kelly	7240415	Permanent	7/06/2024	611334.44	8957186.64
38	Azarea Simikera	7548072	Permanent	7/06/2024	611334.44	8957210.64
39	Azarea Simikera	7548072	Semi Permanent	7/06/2024	611340.13	8957222.48
40	Don Kelly	7240415	Semi Permanent	7/06/2024	611318.02	8957220.34
41	Alec Makini	7755304	Permanent	7/06/2024	611363.86	8957101.28
42	Alec Makini	7755304	Semi Permanent	7/06/2024	611367.64	8957086.37
43	Alec Makini	7755304	Semi Permanent	7/06/2024	611352.38	8957099.31
44	Patterson Tavake	7123706	Permanent	7/06/2024	611355.17	8957071.73
45	Patterson Tavake	7123706	Shed	7/06/2024	611275.37	8957044.24
46	Patterson Tavake	7123706	Permanent	7/06/2024	611285.21	8957071.59
47	Patterson Tavake	7123706	Permanent	7/06/2024	611310.62	8957012.82
48	Patterson Tavake	7123706	Permanent	7/06/2024	611328.06	8957010.78
49	Patterson Tavake	7123706	Permanent	7/06/2024	611347.25	8957012.46

Annex 4: Household Survey List

50	Patterson Tavake	7123706	Permanent	7/06/2024	611359.07	8957043.33
51	Patterson Tavake	7123706	Permanent	7/06/2024	611366.21	8957042.29
52	Patterson Tavake	7123706	Permanent	7/06/2024	611364.70	8957033.53
53	Patterson Tavake	7123706	Permanent	7/06/2024	611367.63	8957013.51
54	Patterson Tavake	7123706	Permanent	7/06/2024	611385.23	8957008.65
55	Patterson Tavake	7123706	Permanent	7/06/2024	611379.11	8956988.00
56	Patterson Tavake	7123706	Permanent	7/06/2024	611355.60	8956988.28
57	Patterson Tavake	7123706	Permanent	7/06/2024	611319.62	8956993.19
58	Patterson Tavake	7123706	Permanent	7/06/2024	611310.73	8956994.31
59	Patterson Tavake	7123706	Permanent	7/06/2024	611285.12	8956983.10
60	Patterson Tavake	7123706	Permanent	7/06/2024	611295.60	8956971.03
61	Patterson Tavake	7123706	Permanent	7/06/2024	611305.59	8956983.04
62	Fred Ramo	7810176	Semi Permanent	11/06/2024	610593.23	8957126.15
63	Geston Foatala	7810176	Semi Permanent	11/06/2024	610607.96	8957137.00
64	Geston Foatala	7810176	Semi Permanent	11/06/2024	610597.20	8957139.97
65	Geston Foatala	7810176	Semi Permanent	11/06/2024	610610.33	8957146.14
66	Reginald Gereaa	7810176	Semi Permanent	11/06/2024	610608.69	8957158.17
67	Gordon Alifereni	7810176	Semi Permanent	11/06/2024	610633.41	8957158.65
68	John Ramo	8793235	Semi Permanent	11/06/2024	610570.55	8957211.58
69	John Ramo	8793235	Semi Permanent	11/06/2024	610569.62	8957222.93
70	John Ramo	8793235	Incomplete	11/06/2024	610578.70	8957210.86
71	John Ramo	8793235	Semi Permanent	11/06/2024	610577.55	8957228.06
72	John Ramo	8793235	Semi Permanent	11/06/2024	610585.85	8957227.17
73	John Ramo	8793235	Semi Permanent	11/06/2024	610588.89	8957214.10
74	Ruth Alaiasi	8793235	Semi Permanent	11/06/2024	610596.85	8957229.09
75	Ruth Alaiasi	8793235	Semi Permanent	11/06/2024	610607.43	8957232.13
76	Ruth Alaiasi	8793235	Permanent	11/06/2024	610609.05	8957221.11
77	Ruth Alaiasi	8793235	Semi Permanent	11/06/2024	610603.40	8957218.61
78	Watson Mamam	7593563	Semi Permanent	11/06/2024	610626.37	8957233.34
79	Watson Mamam	7593563	Semi Permanent	11/06/2024	610626.71	8957222.02
80	Watson Mamam	7593563	Incomplete	11/06/2024	610631.23	8957240.07
81	Watson Mamam	7593563	Semi Permanent	11/06/2024	610619.77	8957233.36
82	Watson Mamam	7593563	Incomplete	11/06/2024	610624.02	8957215.87
83	Watson Mamam	7593563	Incomplete	11/06/2024	610620.39	895722.85
84	Watson Mamam	7593563	Semi Permanent	11/06/2024	610612.39	8957237.25
85	Unknown 1	7593563	Semi Permanent	11/06/2024	610655.67	8957235.49
86	Unknown 2	7593563	Semi Permanent	11/06/2024	610680.63	8957241.79
87	Stall		Semi Permanent	7/06/2024	610938.37	8956994.13
88	Nelson Lynett		Semi Permanent	7/06/2024	610928.96	8957008.57
89	Jessie Meltoro	7954205	Semi Permanent	7/06/2024	610921.87	8957022.95
90	James Rimana		Semi Permanent	7/06/2024	610912.87	8957062.95
91	Alfred Mae	7290764	Semi Permanent	7/06/2024	610907.28	8957080.61
92	David Osiramo	7478905	Semi Permanent	7/06/2024	610906.00	8957042.00
93	John Feru	7419034	Semi Permanent	7/06/2024	610888.00	8957079.00
94	Moses Megi		Semi Permanent	7/06/2024	610896.33	8957107.94
95	Jimmy Taufa		Semi Permanent	7/06/2024	610880.23	8957122.01
96	Fox Wasia	7656479	Semi Permanent	7/06/2024	610849.37	8957139.57
97	Paul Naufa		Semi Permanent	7/06/2024	610836.10	8957161.88
98	Emmanuel Manu	7536265	Semi Permanent	7/06/2024	610829.96	8957170.89
99	Agustine Aeni	7747740	Semi Permanent	7/06/2024	610826.49	8957174.60

Annex 4: Household Survey List

100	Michael Huta	7214025	Semi Permanent	7/06/2024	610811.94	8957181.19
101	Settla Lolopae	7354732	Semi Permanent	7/06/2024	610821.35	8957179.28
102	Jenny Hill		Semi Permanent	11/06/2024	610783.37	8957210.65
103	David & Sofie		Semi Permanent	11/06/2024	610766.24	8957217.37
104	Michael Wate	7798130	Semi Permanent	11/06/2024	610761.73	8957210.76
105	Michael Wate	7798130	Semi Permanent	11/06/2024	610752.20	8957210.79
106	Robert Makau	7475457	Semi Permanent	11/06/2024	610742.41	8957213.58
107	Peter Hou		Semi Permanent	11/06/2024	610751.51	8957217.19
108	Peter Hou		Semi Permanent	11/06/2024	610746.40	8957228.42
109	Peter Hou		Semi Permanent	11/06/2024	610755.47	8957225.50
110	Redley Sanaku	8499364	Permanent	11/06/2024	610726.04	8957236.20
111	Redley Sanaku	8499364	Permanent	11/06/2024	610711.17	8957237.85
112	John Faoka	8499364	Semi Permanent	11/06/2024	610703.34	8957262.92
113	Sam Sirofa	7723178	Semi Permanent	11/06/2024	610695.18	8957188.65

Annex 5: HOUSE PHOTOS



HOUSE 1



HOUSE 2



HOUSE 3



HOUSE 4



HOUSE 5



HOUSE 6



HOUSE 7



HOUSE 8



HOUSE 9



HOUSE 10



HOUSE 11



HOUSE 12



HOUSE 13



HOUSE 14