



30/08/2024

# SURVEY REPORT

## Boundary Identification Survey

### KUKUM CAMPUS

Parcel 192-002-131, LOT 41

August 2024



Gilmour Pio Registered Surveyor  
Surveying & Spatial Solution  
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## 1.0 Introduction

The purpose of this survey is identify and verify boundary pegs at the eastern boundary of parcel 191-038-84, LOT 2040 at Kukum Campus, a property under lease by Solomon College of Higher Education (SICHE) now SINU.

### 1.1 Scope of Work

The scope of the survey is to

1. Identify the extend of boundary pegs and replace any missing pegs if not found
2. Identify any major encroachment issues
3. Pickup existing fence line and buildings inside PN 191-038-84
4. Produce readable survey plans

## 2.0 Location of Site

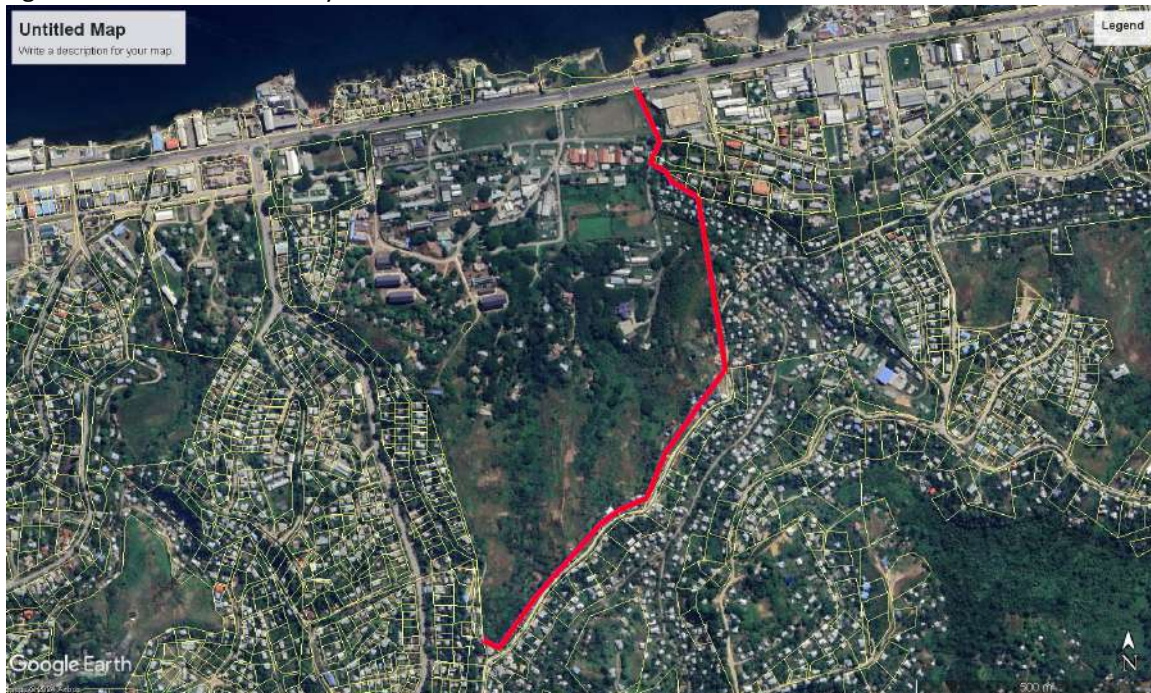
The location of survey is at the eastern boundary of Kukum Campus as highlighted in the location map below.

Figure 1.0 Location map



Source: Google Image

Figure 2.0 Site Where Survey is carried out



### 3.0 Field Survey Team

Gilmour Pio - Surveyor

Lenmour Moveni Pio- Survey Technician

Teika Alepio - Field 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:	KukumCampus, East Honiara
Coordinate of Origin	Coordinate of Origin ST 293 610,689.73mE, 8,958,004.77mN 75.5m RL
Type of Survey:	Boundary Identification and Topo Survey
Special Requirements:	Replace missing boundary and identify any encroachment issues

Figure 3.0: Survey mark of Origin ST 293



## 6.0 Survey Methodology

The following survey methodologies were used to carry out the Boundary Identification Survey of parcel 191-038-84, LOT 2040.

## 6.1 Survey Control

The survey control used to commenced survey is based on three (3) GPS control survey marks established on site K1, K2 and K3 whose coordinates are describe as per figure 4.0 below

Figure 4.0: Coordinate of Origin

Projection		UTMSouth-Zone_57 : 156E to 162E		
Points				
Name	Grid Northing (m)	Grid Easting (m)	Elevation (m)	Code
K1	8957742.916	609032.135	26.804	
K2	8957868.930	608937.482	6.074	
K3	8958003.537	608928.141	5.899	
ST293	8955996.057	608028.448	78.421	

1. Set-up at K2 and orientation done to survey marks K1. Check that difference is within tolerance of 0.005. The distance was measured and difference of 0.009 was noted and accepted to commence survey. A check shot to the third survey mark K3 was done with a difference of 0.012 was observed. This gave us the confidence to commence survey of Kukum Campus Eastern boundary

## 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 SINU Kukum Campus property boundary of parcel 192-038-84

PT	East	North	Code
RF2x	608728.998	8957109.159	BDY
JDH9	608273.273	8957707.027	BDY

HE10	608351.619	8958025.969	BDY
HE11	608366.79	8957892.258	BDY
AK3	608312.059	8957870.863	BDY
AK2	608307.855	8957845.215	BDY
AK1	608304.624	8957825.503	BDY
JDH28	608300.332	8957799.322	BDY
JDH5	608297.797	8957779.672	BDY
JDH6	608292.145	8957762.931	BDY
JDH7	608286.204	8957745.332	BDY
JDH9	608280.34	8957727.961	BDY
AK8	608264.113	8957679.32	BDY
ED84	608288.35	8957681.159	BDY
ED90	608277.69	8957641.474	BDY
472B	608302.15	8957629.524	BDY
472C	608464.855	8957483.19	BDY
472D	608571.31	8957146.34	BDY
ST242	608583.964	8956978.892	BDY
HE1	608616.314	8956962.922	BDY
HE2	608693.358	8957069.837	BDY
HE5	608868.169	8957248.532	BDY
HE6	608924.206	8957272.04	BDY
a	609060.262	8957720.272	BDY
TL1	608977.214	8957927.078	BDY
FX	608968.542	8957945.902	BDY
F	608933.892	8957965.315	BDY
X	608905.06	8958117.68	BDY
O	608799.073	8958092.571	BDY
BX	608497.001	8958049.979	BDY
P8	608938.364	8957975.382	BDY
TL5	609032.925	8957894.15	BDY
B5	609005.327	8957910.451	BDY
G20	608953.431	8958009.303	BDY
HE3	608762.906	8957146.57	BDY
HE4	608825.609	8957217.44	BDY
JW4X	608651.92	8957012.332	BDY
HE7	608962.502	8957364.253	BDY
HE9	609069.514	8957508.385	BDY
T	609088.84	8957538.35	BDY
HE8	609035.262	8957466.558	BDY
SDO	608900.444	8957262.072	BDY
HE5X	608910.374	8957266.237	BDY
749B	608468.521	8957471.605	BDY
K4a	608396.029	8957545.091	BDY
H14X	608559.714	8957183.027	BDY

HA1X	608565.627	8957164.317	BDY
P2	608344.514	8957591.421	BDY
K2A	608366.82	8957571.36	BDY
LS8	608414.661	8957528.333	BDY
LS7	608442.546	8957503.254	BDY
VH5	608493.147	8957393.666	BDY
VH4	608501.686	8957366.645	BDY

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

The table below is a summary of the boundary identification survey

Table 2.0 Boundary Identification Summary table

a	609060.262	8957720.272	Found concrete with iron pin
B5	609005.327	8957910.451	not found replaced
C82	608953.427	8958009.302	Found concrete
F	608933.892	8957965.315	Found nail on ground (Inside road)
FX	608968.542	8957945.902	not found replaced
HE7	608962.502	8957364.253	Not found ontop of building
HE9	609069.514	8957508.385	Found Fence Post
P8	608938.364	8957975.382	not found replaced
T	609088.84	8957538.35	Found Fence Post
TL1	608977.214	8957927.078	not found replaced
TL5	609032.925	8957894.15	not found replaced

## Replaced Boundary Pegs



B5 replaced with Iron pin



TL1 replaced with Iron pin



A Found Concrete with  
Iron pin



T Found Iron fence post

### Encroachments Issues

From the Boundary identification survey it was found that there are encroachment issues identified along the eastern and southern boundary of SINU parcel 191-038-84, mostly residential buildings. A total of 75 household this includes permanent, semi-permanent and building foundations were identified encroaching into parcel 191-038-84 as table .

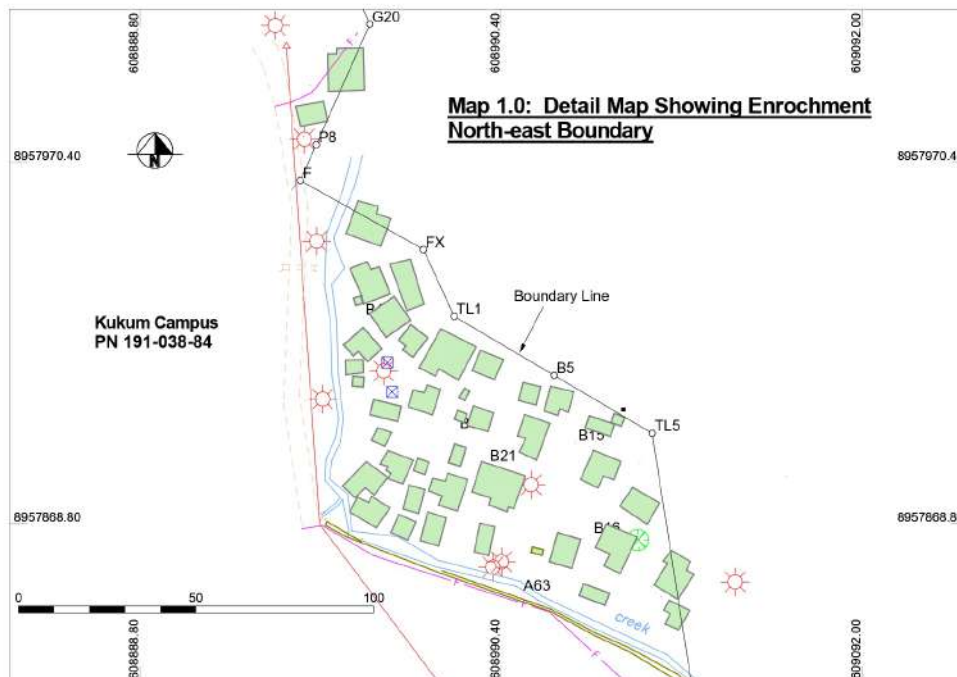
Table 3.0: List of Household encroaching into SINU Kukum Campus

No	Zone Number	Total Household
1	North-east	40
2	East	10
3	South-east	25
<b>Total</b>		<b>75</b>

Figure 6.0: Encroachments into SINU Kukum Campus



Figure 6.0: Map showing Encroachments North East Boundary





South Boundary encroachment, existing fence line not SINU boundary building encroach inside SINU boundary



East Boundary drive inside SINU boundary



East Boundary buildings inside SINU boundary

SINU parcel 191-038-84

## 6.0 Conclusion

The survey went well with no reported incident and boundary of SINU kukum campus was re- identified and confirmed

Signature

Gilmour Pio  
License Surveyor

# Annex

Points



Project Summary	
Project name	GPS 12-08-24
Linear unit	Meters
Projection	UTMSouth-Zone_57 : 156E to 162E

Points				
Name	Grid Northing (m)	Grid Easting (m)	Elevation (m)	Code
K1	8957742.916	609032.135	26.804	
K2	8957868.930	608937.482	6.074	
K3	8958003.537	608928.141	5.899	
ST293	8955996.057	608028.448	78.421	
{1	0.000	0.000	1.000	0}

GNSS Observations					
Name	dN (m)	dE (m)	dHt (m)	Horz RMS	Vert RMS
K1-ST293	-1746.859	-1003.686	51.617	0.002	0.004
K2-ST293	-1872.872	-909.034	72.347	0.001	0.003
K3-ST293	-2007.480	-899.693	72.522	0.003	0.004

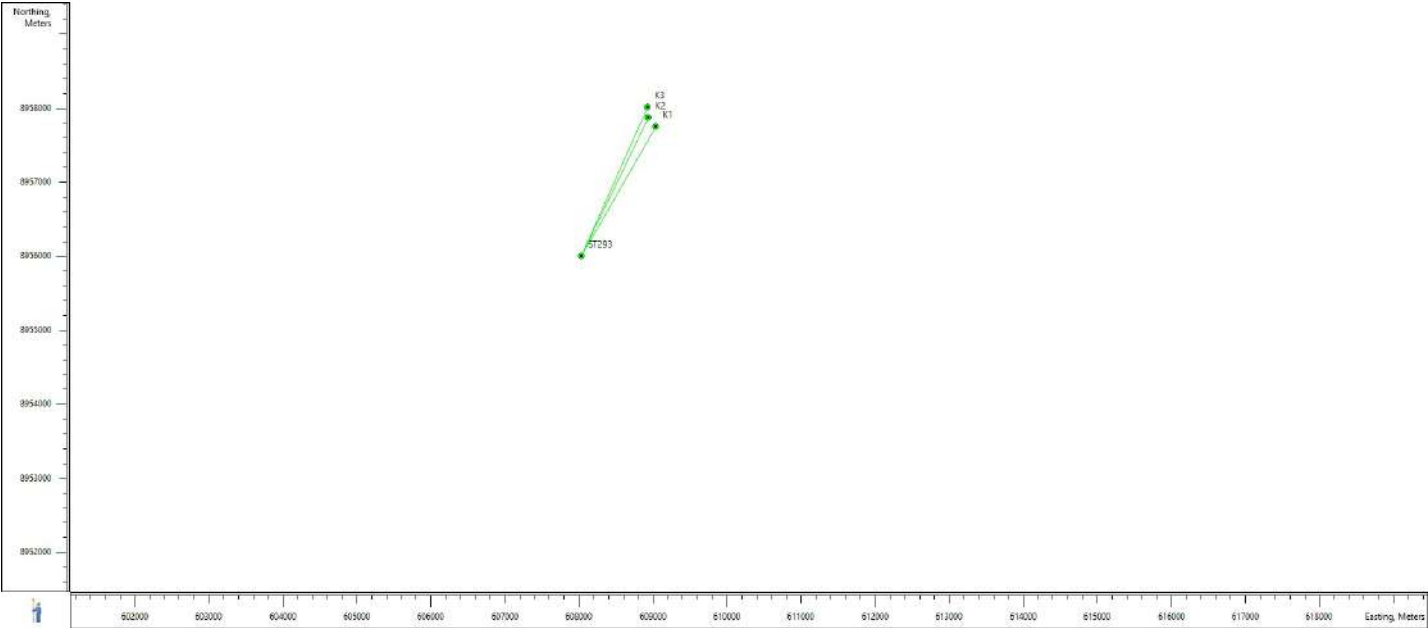
GNSS Occupations	
Point Name	Original Name
ST293	PP009_0811xa_7PJ4
K3	PP009_0812ad_M58G
K1	PP009_0811xc_M58G
K2	PP009_0812aa_M58G

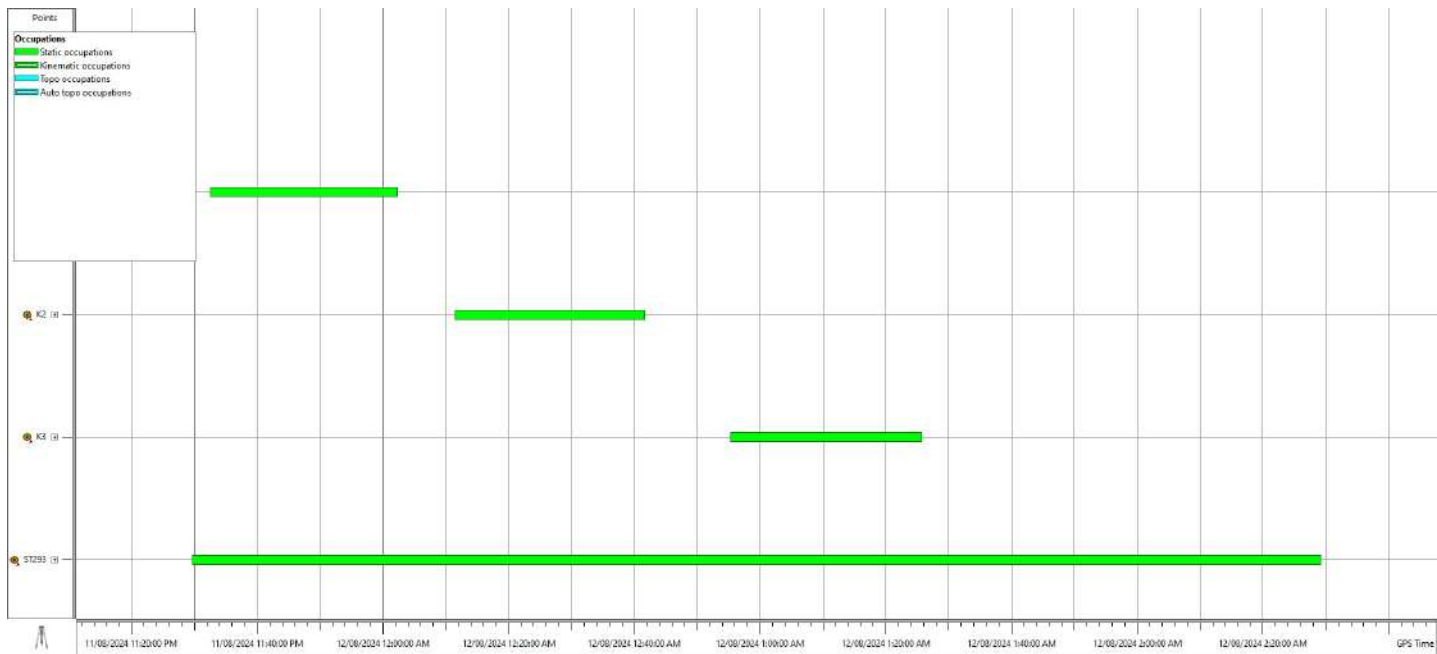
Localization data report

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

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K3	8958003.537	608928.141	5.899	
ST293	8955996.057	608028.448	78.421	
{1	0.000	0.000	1.000	0}




**LEGEND**

 SINU Kukum Campus Boundary

 Areas where nnroachment exist

Gilmour Pio (Registered Surveyor)  
Date 29-08-2024

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**Project Name** SINU BOUNDARY & IDENTIFICATION SURVEY

**Drawing Title** Map Showing Enroachments into SINU Kukum Campus Boundary

**Location** KUKUM CAMPUS, EAST HONIARA

**Datum** GUX 1 Astro UTM Zone 57s

**File Ref:** 20-24

**DWG Revision No**

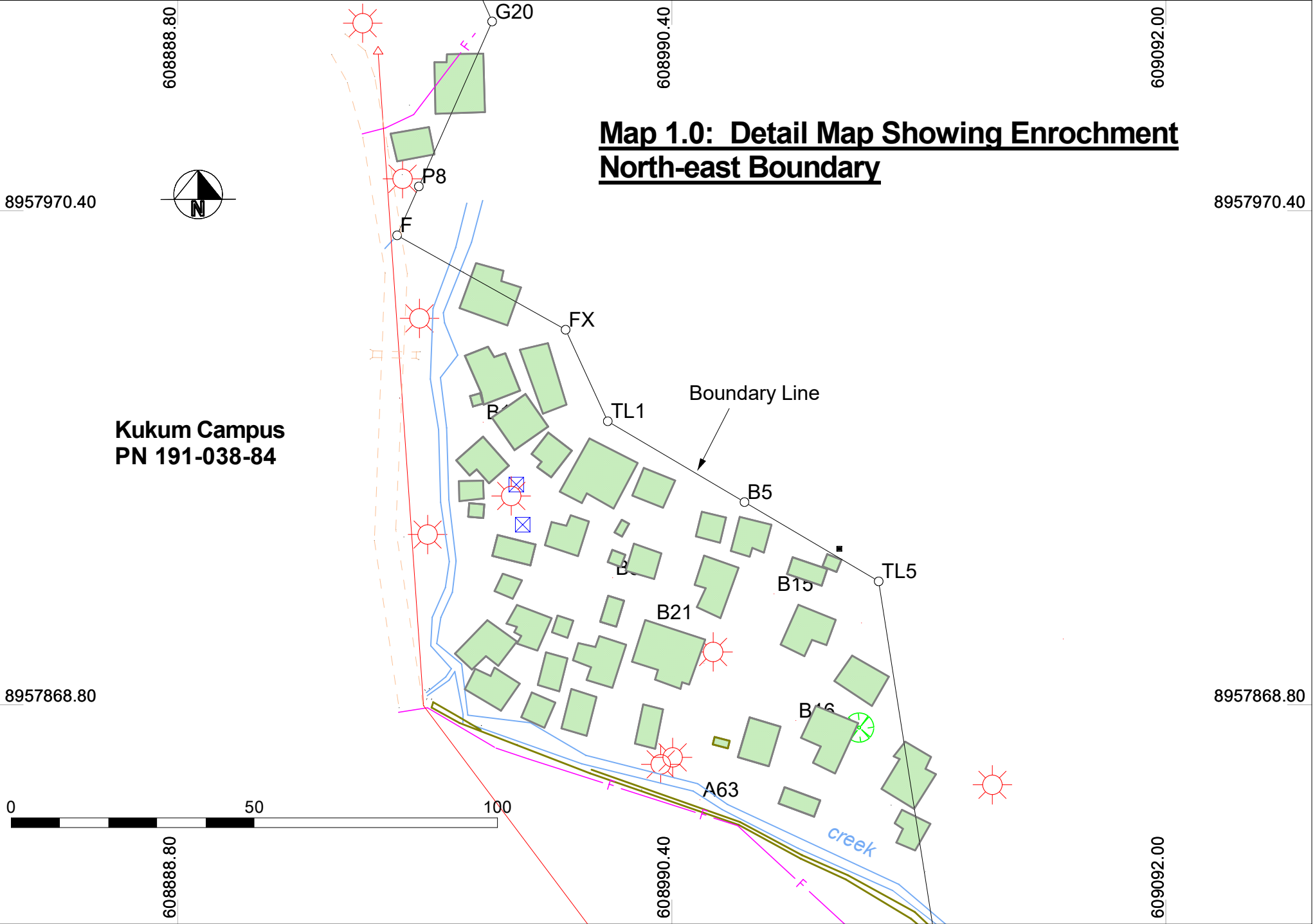
**Scale:**

**Paper Size**

**Client:**



Solomon Islands National University



## TOPOGRAPHICAL LAYOUT OF KUKUM CAMPUS

