

## ***Appendix 6***

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### **Geotechnical Planning Review Report**

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**Project:**

**Proposed NTEH at Lot 5 in DD7,**

**Mo Tat Wan, Lamma Island**

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Geotechnical Planning Review Report  
for House Redevelopment

Revision:

Date: 08/ 2025

Project no.: 20029

Designed by: HL

Check / Approved By: Eddy Kwok 



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### **Executive Summary**

It is proposed to erect a New Territories Exempted House in Lot 5 DD7, Mo Tat Wan, Lamma Island. KTA Planning Limited (KTA) is the town planning consultant and Green Engineering Consultant Company Limited (GEC) is the geotechnical consultant employed by the Client.

Geotechnical planning review report has been carried out under supervision of Registered Geotechnical Engineer, Ir Philip So Chi Wai. This is the geotechnical planning review report for the proposed NTEH. It is identified that the proposed development is geotechnical feasible and will not cause any instability to the adjoining lots and vice versa.



## **1. Introduction**

This is the geotechnical planning review report for the NTEH in Lot 5 DD 7 that involves:-

- a. General geotechnical assessment for proposed 2-storey NTEH in Lot 5.

## **2. Proposed Development**

It is proposed to erect a 2-storey NTEH of plan area 30.6 m<sup>2</sup> within the lot (Appendix B).

### 3. The Site

#### 3.1 General

The site is located on top of a small headland overlooking the edge of step rock slope above the site. The level of the site varies from 17.5 mPD at South and 15.8 mPD at North. The site area is about 91.8 m<sup>2</sup>.

#### 3.2 Site Geology

Desk study is carried out for identification of the site geology and the following documents are viewed:-

##### 3.2.1 1:20,000 scale geological map

Based on the 1:20,000 scale Hong Kong Geotechnical Survey Maps No. 15 Series HGM20. The underlying solid geology is Fine-grained biotite granite JKI\_gf South Lamma Granite, Kwai Chung Suite, late Jurassic age. Refer to the extraction of Geological Map sheet 15 in Appendix C.

##### 3.2.2 Geotechnical Area Studies Programme (GASP)

According to Geotechnical Area Studies Programme (GASP), Geotechnical Land Use map EG/2.5/GAS19/1, the Site is classified as Class II with moderate Geotechnical limitations. It is moderately suitable for development. Normal engineering cost and normal site investigation works envisaged. Engineering Geology Map EG/2.5/GAS/9/2 indicates the site geology is dominantly granophyric

rocks. Weathers to produce clayey silty sand with corestones.

Physical Constraints Mapsheet EG/2.5/GAS/9/6 indicates the Site is within zone of general instability associated with predominate insitu terrain.

### 3.2.3 Natural Terrain Hazards

There is no relevant landslide record in the Study Area. ENTLI record nearby is enclosed in Appendix C for reference.

### 3.2.4 Previous Ground Investigation Records

There is no nearby borehole records. The Site and its surrounding Study Area is remote.

### 3.2.5 Groundwater

No groundwater monitoring records were available.

## 3.3 Adjoining Structures

There are no structures nearby (within 10m measured from site boundary) all sides of the Site.

## 3.4 Adjoining Geotechnical Feature

There is no nearby registered geotechnical features.

## 3.5 Adjacent Utilities

There are no nearby utilities.

#### **4. Proposed Geotechnical Work**

##### **4.1 Proposed Foundation**

The proposed building is single storey and we recommend shallow pad or strap footing shall be adopted.

##### **4.2 Proposed Site Formation**

It is proposed that site formation work for formation of a flat platform at level 17.7 mPD will be carried out. L shape retaining wall for retaining height less than 2 m will be provided along the North West boundary line. Separate siteformation submission will be made to relevant government department for approval.

## **5. Effect on Adjacent Ground**

This is no nearby buildings or sensitive utilities that could adversely affect or be affected by the proposed house redevelopment.

## **6. Conclusions**

The proposed development only involves the construction of a 2-storey house. It is considered geotechnical feasible based on its relatively small construction scale. There are no nearby Registered Geotechnical Features, its surrounding natural sloping ground is not steep. No major geotechnical problem envisaged.

## **Appendix A**

### **Lot Index Plan**



# 地段索引圖 LOT INDEX PLAN

## 免責聲明

本圖則乃地段索引圖的複本，顯示地段界線的大概位置，包括根據政府撥地、臨時政府撥地、短期租約及政府土地租用牌照而臨時佔用土地的位置。臨時佔用土地的情況可憑藉短期通知出現或終止，因此應向有關的分區地政專員核證。本圖則所示的資料必須透過實地測量予以核實。當有更佳或新的地界證據時，地段索引圖可能會被修訂而無須事先通知。

## Disclaimer

This plan is a copy of the lot index plan showing the approximate location of lot boundaries, including the temporary occupation of land under Government Land Allocations, Temporary Government Land Allocations, Short Term Tenancies and Government Land Licences. The temporary occupation of land may be created or terminated at short notice and should be confirmed with the District Lands Officer. The information shown on this plan MUST be verified by field survey. The lot index plan may be revised without prior notification as better or new boundary evidence becomes available.



地政總署測繪處  
Survey and Mapping Office  
Lands Department

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比例尺 SCALE 1:1 000  
米 10 0 10 20 30 40 50 metres

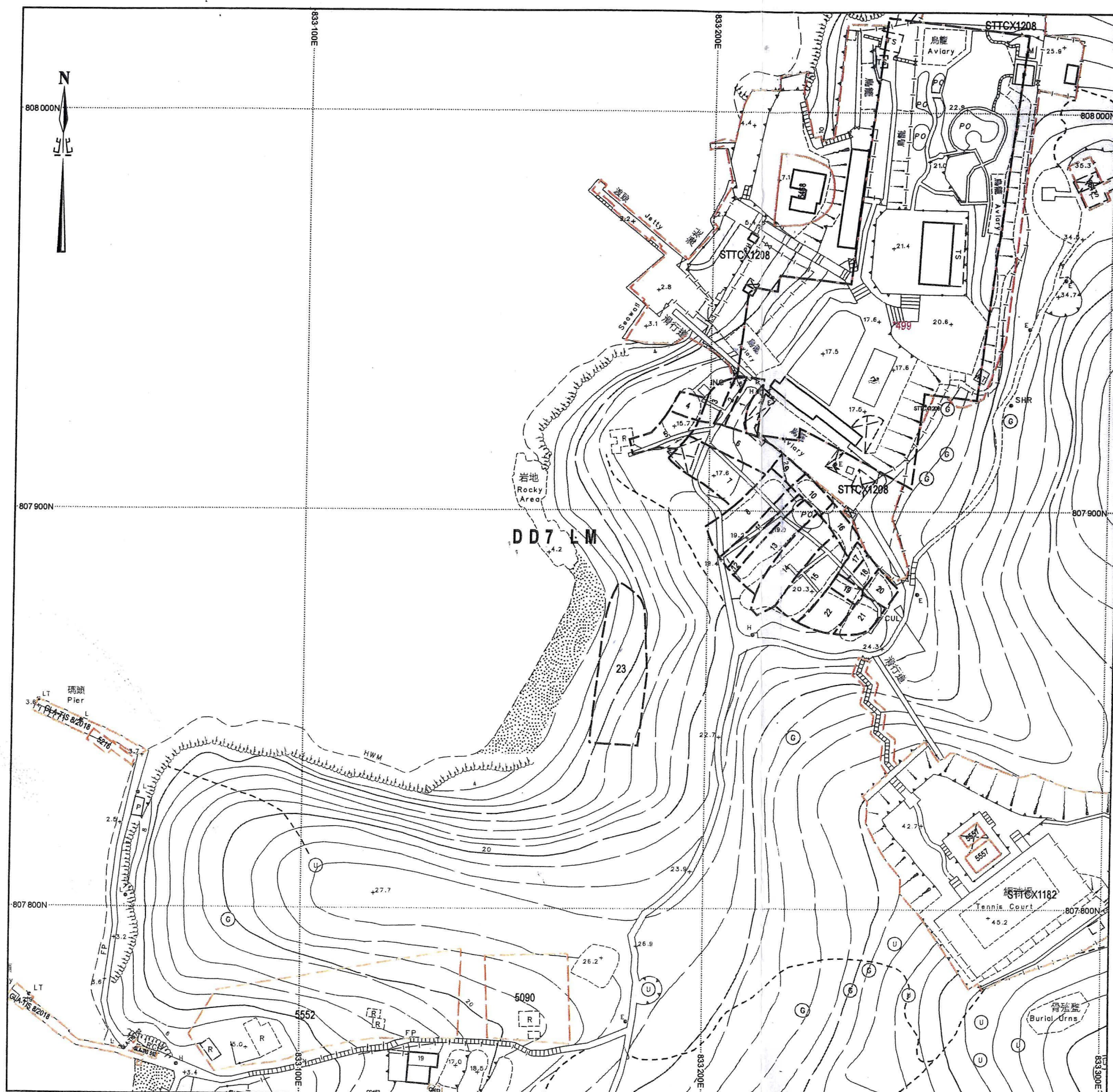
Locality : DD7 LM

Lot Index Plan No. : HK0111052018

District Survey Office : Hong Kong

Date : 10-May-2018

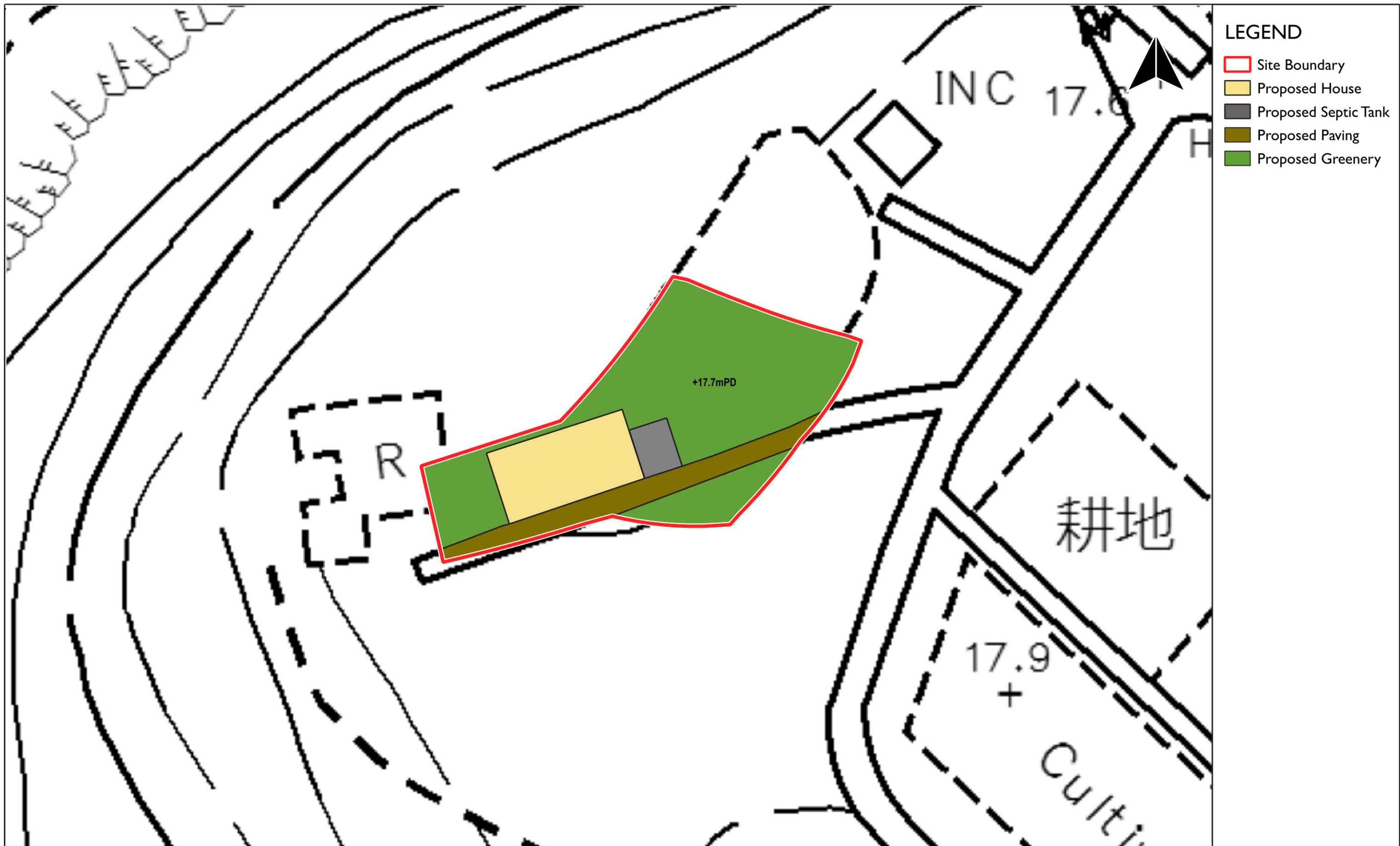
Reference No. : 15-NW-18A,15-NW-18C



## **Appendix B**

### **Proposed Site and House Layout Plan**



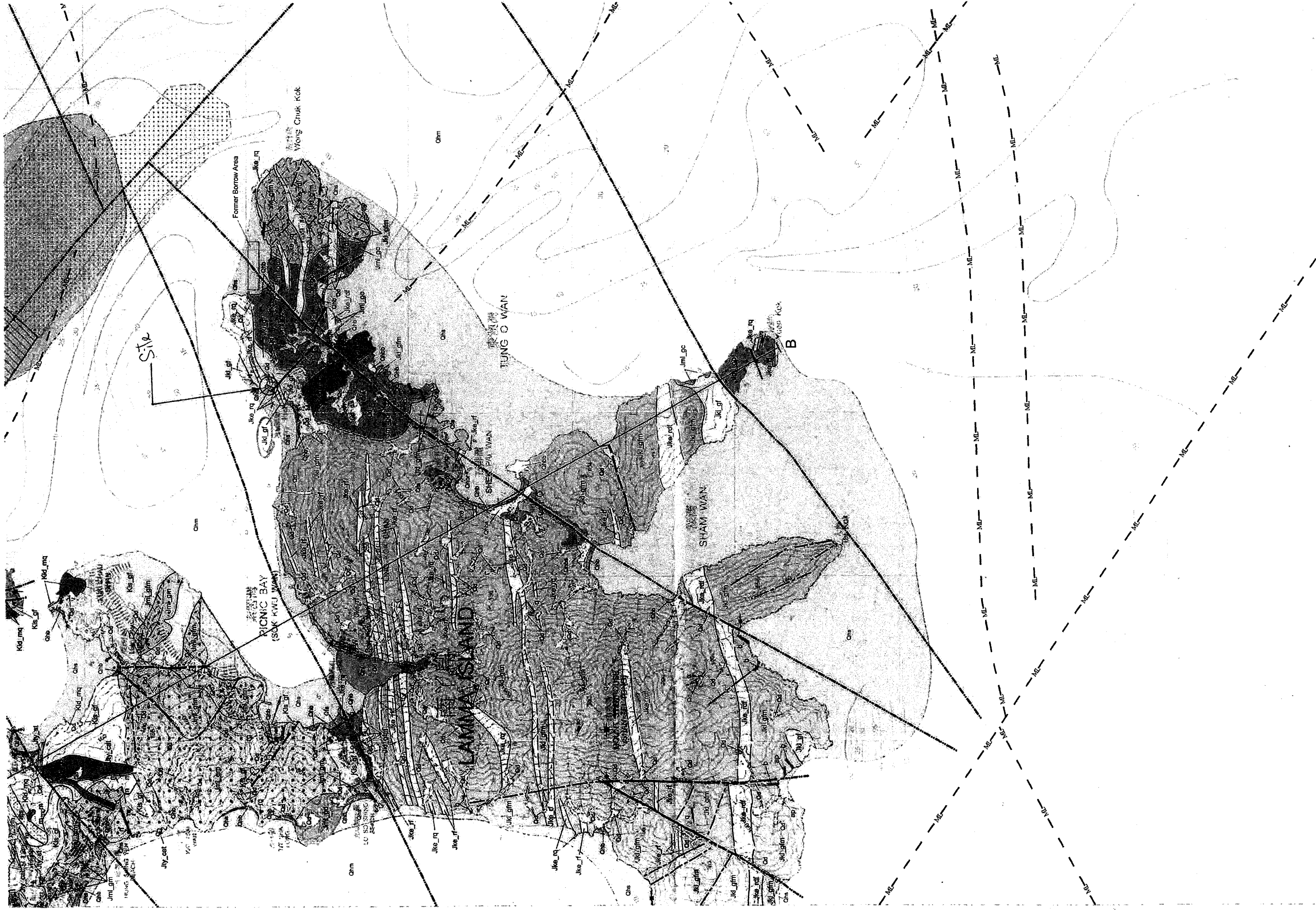


## **Appendix C**

### **Geological Map and GASP**







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07

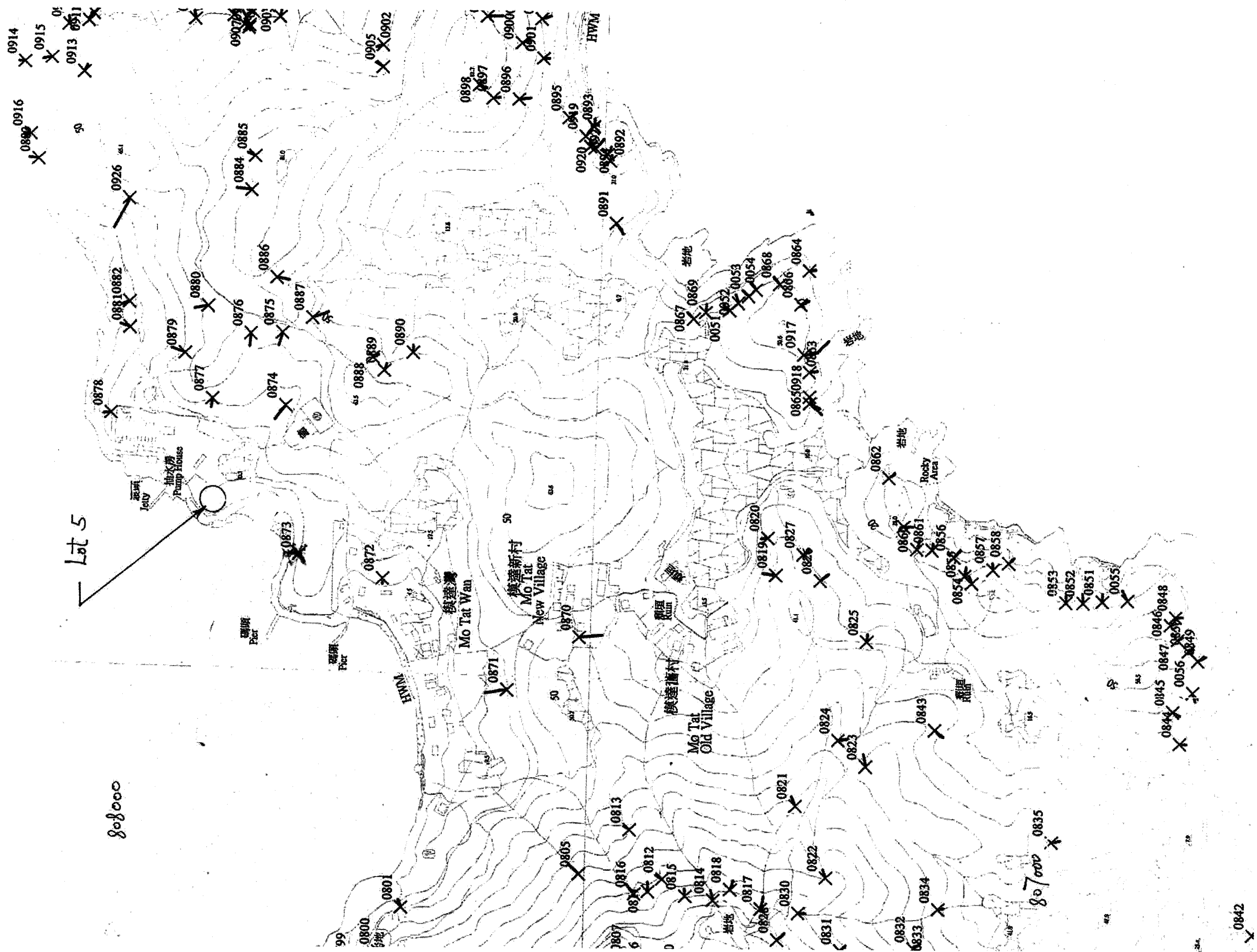
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ENTLI_NO	Group	Year	Prev. Year	Width	Source Gradient (Deg)	Cover	Crown Elevation (mPD)	Toe Elevation (mPD)	Elevation Difference (m)	Gully
15NWC0830E	Relict	1963	-	1.00	19.50	C	122.00	118.00	4.00	N
15NWC0831E	Relict	1963	-	2.00	56.50	B	121.00	110.00	11.00	N
15NWC0832E	Relict	1963	-	1.00	26.50	C	80.00	75.00	5.00	N
15NWC0833E	Relict	1963	-	1.00	37.50	C	76.00	71.00	5.00	N
15NWC0834E	Relict	1963	-	1.00	22.00	C	61.00	59.00	2.00	N
15NWC0835E	Relict	1963	-	1.00	33.50	C	39.00	34.00	5.00	N
15NWC0836E	Relict	1963	-	2.00	32.50	D	16.00	5.00	11.00	N
15NWC0837E	Relict	1963	-	1.00	36.00	C	10.00	5.00	5.00	N
15NWC0838E	Relict	1963	-	1.00	36.00	C	14.00	9.00	5.00	N
15NWC0839E	Relict	1963	-	1.00	38.50	C	10.00	7.00	3.00	N
15NWC0840E	Relict	1963	-	1.00	29.50	C	10.00	6.00	4.00	N
15NWC0841E	Relict	1963	-	2.00	26.50	C	16.00	8.00	8.00	N
15NWC0842E	Relict	1963	-	2.00	42.50	C	16.00	8.00	8.00	N
15NWC0843E	Relict	1963	-	2.00	40.50	C	45.00	37.00	8.00	N
15NWC0844E	Relict	1963	-	1.00	35.00	C	16.00	12.00	4.00	N
15NWC0845E	Relict	1963	-	2.00	36.00	C	32.00	25.00	7.00	N
15NWC0846E	Relict	1963	-	1.00	38.50	C	43.00	38.00	5.00	N
15NWC0847E	Relict	1963	-	1.00	44.00	C	44.00	39.00	5.00	N
15NWC0848E	Relict	1963	-	1.00	31.00	C	37.00	31.00	6.00	N
15NWC0849E	Relict	1963	-	1.00	23.50	C	37.00	33.00	4.00	N
15NWC0850E	Relict	1963	-	1.00	36.50	C	42.00	36.00	6.00	N
15NWC0851E	Relict	1963	-	1.00	22.00	C	25.00	20.00	5.00	N
15NWC0852E	Relict	1963	-	2.00	24.50	C	29.00	22.00	7.00	N
15NWC0853E	Relict	1963	-	1.00	37.00	C	30.00	22.00	8.00	N
15NWC0854E	Relict	1963	-	1.00	24.00	C	35.00	30.00	5.00	Y
15NWC0855E	Relict	1963	-	1.00	39.00	C	30.00	23.00	7.00	Y
15NWC0856E	Relict	1963	-	2.00	36.00	B	21.00	14.00	7.00	Y
15NWC0857E	Relict	1963	-	1.00	44.00	C	34.00	29.00	5.00	Y
15NWC0858E	Relict	1963	-	1.00	40.50	B	24.00	19.00	5.00	Y
15NWC0859E	Relict	1963	-	1.00	39.00	C	16.00	11.00	5.00	Y
15NWC0860E	Relict	1963	-	1.00	31.00	C	18.00	11.00	7.00	Y
15NWC0861E	Relict	1963	-	1.00	21.00	B	19.00	15.00	4.00	Y
15NWC0862E	Relict	1963	-	2.00	43.50	C	19.00	14.00	5.00	Y
15NWC0863E	Relict	1963	-	2.00	38.50	C	34.00	26.00	8.00	N
15NWC0864E	Relict	1963	-	1.00	45.50	B	28.00	25.00	3.00	N
15NWC0865E	Relict	1963	-	1.00	36.50	C	20.00	11.00	9.00	N
15NWC0866E	Relict	1963	-	1.00	39.50	C	40.00	33.00	7.00	N
15NWC0867E	Relict	1963	-	2.00	35.50	C	25.00	13.00	12.00	N
15NWC0868E	Relict	1963	-	1.00	48.00	C	37.00	25.00	12.00	N
15NWC0869E	Relict	1963	-	1.00	42.00	C	28.00	19.00	9.00	N
15NWC0870E	Relict	1963	-	2.00	27.00	D	39.00	31.00	8.00	N
15NWC0871E	Relict	1963	-	2.00	22.00	C	29.00	20.00	9.00	N
15NWC0872E	Relict	1963	-	1.00	31.00	C	15.00	12.00	3.00	N
15NWC0873E	Relict	1963	-	1.00	38.50	C	20.00	9.00	11.00	N
15NWC0874E	Relict	1963	-	1.00	12.50	C	36.00	32.00	4.00	N
15NWC0875E	Relict	1963	-	1.00	20.00	C	56.00	49.00	7.00	N
15NWC0876E	Relict	1963	-	1.00	14.50	C	54.00	50.00	4.00	N
15NWC0877E	Relict	1963	-	2.00	39.00	C	43.00	36.00	7.00	N



## **Appendix D**

### **Topographic Survey Plan**

Table with 6 columns: TREE NO., GIRTH (m), HEIGHT (m), SPREAD (m), NORTHING (m), EASTING (m), LEVEL (mPD). It lists 159 trees with their respective measurements.

NOTES:

SUBJECT LOT COORDINATES & DIMENSIONS:

Boundary Point Bearing Distance Northing Easting

SUBJECT LOT NO. - LOT 5 IN D.D.7 LAMMA

A 114°29'25" 5.417 807925.164 833189.064

B 103°19'33" 4.109 807923.000 833188.005

C 202°48'55" 3.316 807919.943 833185.719

D 217°37'09" 2.416 807918.029 833185.244

E 232°09'44" 4.180 807915.445 833181.943

F 288°44'47" 4.744 807915.444 833187.189

G 253°22'55" 7.221 807913.379 833180.280

H 345°34'10" 5.497 807910.703 833178.910

I 250°34'35" 7.141 807920.540 833185.619

J 37°24'01" 4.299 807923.357 833188.421

K 16°14'30" 2.299 807925.164 833189.064

AREA = 121.4 sq.m. (about)

SUBJECT LOT NO. - LOT 23 IN D.D.7 LAMMA

A 123°03'42" 4.399 807892.388 833177.849

B 137°17'35" 3.888 807877.130 833184.173

C 172°11'42" 8.187 807889.948 833185.282

D 175°00'44" 9.458 807883.288 833185.610

E 188°40'51" 19.297 807840.432 833183.365

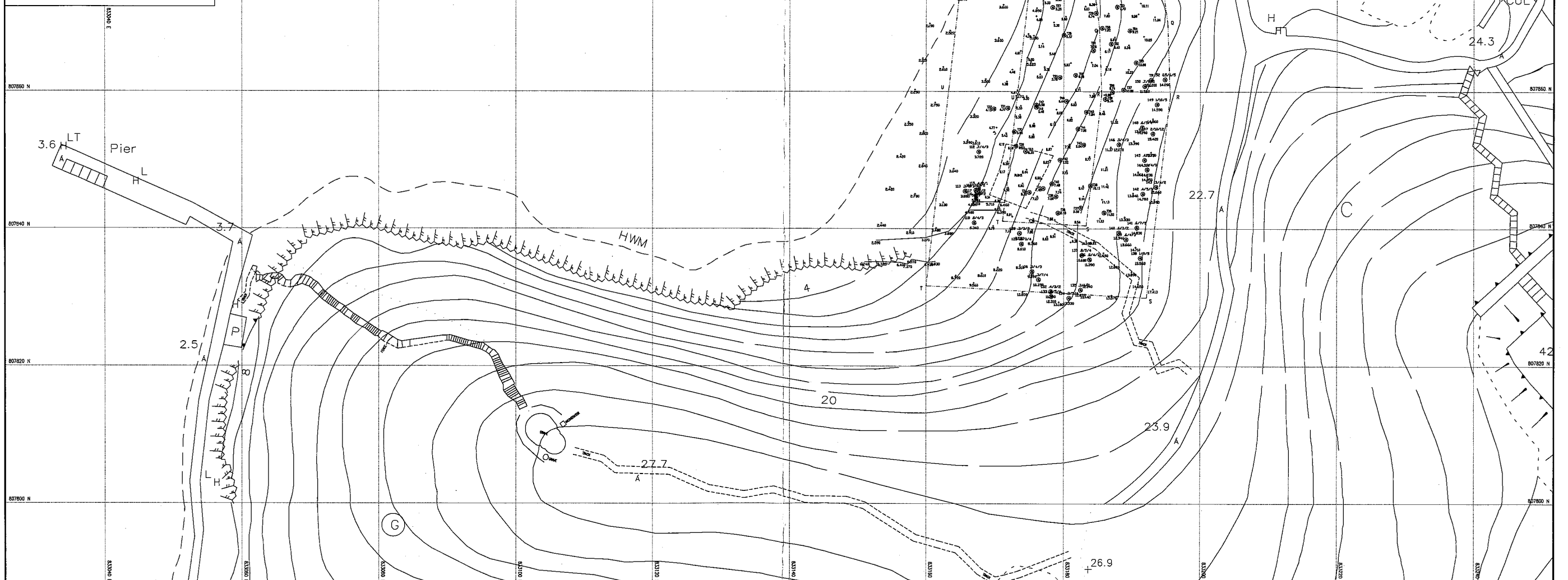
F 23°05'20" 12.229 807841.050 833171.155

G 6°30'04" 18.433 807859.408 833173.274

H 6°13'25" 15.202 807874.518 833174.322

I 20°22'58" 8.404 807882.388 833177.849

AREA = 445.2 sq.m. (about)



APPROVATIONS:

DATE OF SURVEY: OCTOBER 2017

NOTES:

1. All dimensions are in metres.

2. All spot level positions are indicated by a cross.

3. All levels are in metres to Principal Datum (PD) unless noted otherwise.

4. All co-ordinates are refer to Hong Kong (1980) metric grid co-ordinates system.

5. Channels are U shaped except where stated, widths are given.

KEY MAP

SCALE 1 : 200

DATE OF SURVEY : OCTOBER 2017

KING WONG DEVELOPMENT

LOT NOS. 5 & 23 IN D.D.7 LAMMA

BOUNDARY & TOPOGRAPHIC SURVEY

LAND MARKER (1980) H.K. CO., LTD.

HEAD OFFICE: 1/F, WATSON CHATEL PEARL ROAD, YUEN LONG

YUEN LONG BRANCH OFFICE: 1/F, WATSON CHATEL PEARL ROAD, YUEN LONG

TEL: 2643 9138 FAX: 2558 9921

NEW TERRACES, HONG KONG

TEL: 2643 9508 FAX: 2648 9170

E-MAIL: ADDRESS@landmarker.com

PLAN NO. 4982/01

REVISION NO. DESCRIPTIONS DATE

0 10-10-2017

1 10-10-2017

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