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Geotechnical Planning Review Report
on
Lot No. 126 (Part) & 128 in D.D. 128
Kai Pak Ling Road
Fung Kong Tsuen
Yuen Long

(Revision B)

Philip So & Associates Consulting Civil & Geotechnical Engineers Ltd.
Jun 2025

1. Section 3.1 to 3.4 and 3.6 of the GPRR: It is noted that the applicant/consultant has committed to carry out stability assessment on the existing registered man-made slopes (feature no. 6NW-A/C38, 6NW-A/C39, 6NW-A/C75, 6NW-A/F67 and 6NW-A/F94). The applicant/consultant is reminded of the requirement of making necessary site formation submission(s), including but not limited to stability assessment of the existing / proposed geotechnical features within or in the vicinity of the subject site, to the Buildings Department (BD) for approval as required under the provision of Buildings Ordinance if found applicable.	Noted.
2. Section 3.5 of the GPRR: As the layout of site formation works for the development is not available yet, it remains uncertain whether Feature No. 6NW-A/F93 would affect or be affected by the proposed development. The applicant/consultant should carry out necessary stability assessments for this feature when the layout of site formation works is available, and make necessary submission(s) to BD for approval.	Feature No. 6NW-A/F93 would be affected by the proposed development as discussed in Section 3.5.

3. Section 4 of the GPRR: It is noted that the applicant/consultant has concluded that natural terrain hazard study (NTHS) is required for the subject site. However, a map showing the catchment extent for NTHS is not included in the GPRR. The applicant/consultant shall also commit to undertake the NTHS and to carry out any necessary mitigation as part of the proposed development. The applicant/consultant should revise accordingly.	A map showing the catchment is given in Figure 3 of this report. NTHS and the necessary mitigation (if any), shall be carried out for the proposed development.
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Appendix

Appendix A – Slope information retrieved from SIS of CEDD

Appendix B – ENTLI data retrieved from SIS of CEDD

Appendix C – Historical Landslide Catchment Inventory retrieved from SIS of CEDD

1.0 Introduction

1.1 Background

Warehouses are proposed at Lot No. 126 (Part) & 128 in D.D. 128, Kai Pak Ling Road, Yuen Long. The proposed development calls for specific geotechnical engineering inputs for the assessment of its engineering effects on the adjacent slope, wall and natural hillside.

This Geotechnical Planning Review Report (GPRR) is made based on desk study and review of available documentary information and proposed development plan. The geology and site conditions are described. Potential geotechnical constraints are identified in the assessment.

To support the development proposal, this assessment is aimed at identifying the geotechnical feasibility of the proposed development and the existing slope, wall and hillside which may be affecting or be affected by the proposed development.

2.0 Site Location, Topography and Surrounding Environment

2.1 Site Description

The site is at a sloping ground with level platform at Yuen Long. The site layout plan of the proposed development site is presented in Figure 1.

According to the available SIMAR reports retrieved from Lands Department and SIS records obtained from Geotechnical Engineering Office (GEO), there are 6 registered geotechnical feature lies within or in the vicinity of the site.

2.1.1 Feature No. 6NW-A/C38

At the mid-portion of the site, there is a cut slope with Feature No. 6NW-A/C38. The slope is max. 3.2m high and 120m long with average angle of 48°. Non-dangerous goods storage site is situated on slope crest and lightly-used open area is situated at slope toe. The owner of Lot No. 126 in D.D. 128 is responsible for the maintenance of sub-division 1 of the Feature and Lands Department is responsible for the maintenance of sub-division 2 of the Feature. The location of the Feature is presented in Drawing No. LP - 01.

2.1.2 Feature No. 6NW-A/C39

At the mid-portion of the site, there is a cut slope with Feature No. 6NW-A/C39. The slope is max. 3m high and 70m long with average angle of 46°. Non-dangerous goods storage site is situated on slope crest and district open space is situated at slope toe. The owner of Lot No. 126 in D.D. 128 is responsible for the maintenance of sub-division 1 of the Feature, owner of Lot No. 127 in D.D. 128 is responsible for the maintenance of sub-division 2 of the Feature, and Lands Department is responsible for the maintenance of sub-division 3 of the Feature. The

location of the Feature is presented in Drawing No. LP-01.

2.1.3 Feature No. 6NW-A/C75

At the south-eastern portion of the site, there is a cut slope with Feature No. 6NW-A/C75. The slope is max. 4m high and 150m long with average angle of 65°. Cemetery is situated on slope crest and densely-used open area is situated at slope toe. The owner of Lot No. 130 in D.D. 128 is responsible for the maintenance of sub-division 1 of the Feature, and Lands Department is responsible for the maintenance of sub-division 2 of the Feature. The location of the Feature is presented in Drawing No. LP-01.

2.1.4 Feature No. 6NW-A/F67

Due north-east of the site, there is a fill slope with Feature No. 6NW-A/F67. The slope is max. 5.1m high and 90m long with average angle of 40°. A road with low traffic density is situated on slope crest and other non-crowded built-up facilities are situated at slope toe. The owner of Lot No. 130 in D.D. 128 is responsible for the maintenance of sub-division 1 of the Feature, and Lands Department is responsible for the maintenance of sub-division 2 of the Feature. The location of the Feature is presented in Drawing No, LP-01.

2.1.5 Feature No. 6NW-A/F93

At the north-western portion of the site, there is a fill slope with Feature No. 6NW-A/F93. The slope is max. 6m high and 245m long with average angle of 40°. For portion of the Feature situated within the site, carpark is situated on slope crest and district open space is situated at slope toe. The owner of Lot No. 129 s.B in D.D. 128 is responsible for the maintenance of sub-division 1 of the Feature, owner of Lot No. 126 in D.D. 128 is responsible for the maintenance of sub-division 2 of the Feature Lot No.

127 in D.D. 128 is responsible for the maintenance of sub-division 3 of the Feature, and Lands Department is responsible for the maintenance of sub-division 4 of the Feature. The location of the Feature is presented in Drawing No. LP-01.

2.1.6 Feature No. 6NW-A/F94

At the north-western portion of the site, there is a fill slope with Feature No. 6NW-A/F94. The slope is max. 4m high and 200m long with average angle of 35°. For portion of the Feature situated within the site, district open area is situated on slope crest and warehouses are situated at slope toe. The maintenance responsibility parties are given in the table below:-

Sub-division of Feature No. 6NW-A/F94	Maintenance Responsibility Parties
1	Lot 126 in D.D. 128
2	Lot 128 in D.D. 128
3	Lot 129 s.B in D.D. 128
4	Lot 270 s.A in D.D. 128
5	Lot 270 R.P. in D.D. 128
6	Lands Department

2.2 Proposed Development

The proposed development consists of the construction of a 3 warehouses, 1 open storage, 1 office and 1 lounge & toilet and 1 meter room. A layout plan and typical section of the proposed structure are attached in Dwg No. LP-01 and LP-02.

2.3 Desk Study

Desk study has been carried out, no relevant information could be retrieved from the Geotechnical Information Unit (GIU) of Geotechnical Engineering Office (GEO) Buildings Department (BD).

2.3.1 Geotechnical Map

The geology of the Study Area is shown on the Hong Kong Geological Survey (HKGS) Map Sheet 6 (Yuen Long), 1:20,000 – scale HGM20 Series: Edition II - 1988. The local geology of the Study Area is presented in Figure 1 and 2 and described below.

2.3.2 Solid Geology

The 1:20,000 scale geological maps indicated that regional area around the Site is underlain by Mesozoic Upper Jurassic Repulse Bay Volcanic Group block-bearing tuff and tuffite and andesite with tuff and tuffite, and Quaternary Pleistocene silt/sand, gravelly, clayey with cobbles and boulders.

2.3.3 Superficial Geology

Entire Site are surrounded by Quaternary Pleistocene debris flow deposits (Qpd) and terraced alluvium (Qpa).

2.4 Enhanced Natural Terrain Landslide Inventory

In 1995, the GEO compiled the Natural Terrain Landslide Inventory (NTLI) from an interpretation of high – altitude (8,000ft and above) aerial photographs dated from 1945 to 1994 (King, 1999). In 2007, the GEO produced an Enhanced Natural Terrain Landslide Inventory (ENTLI) using low-altitude (8,000ft and below) aerial photographs to update the NTLI.

In accordance with GEO Report No. 138 (GEO, 2016), landslides are classed as either “Relict” or “Recent”, depending on their appearance in aerial photographs. “Relict” landslides are defined as those where the main scarp is well-defined but vegetation has re-established on the scar on the earliest set of available aerial photographs. “Recent” landslides are defined as having occurred within the timespan of the aerial photograph coverage. These are typically identified as having a light tone on the

aerial photographs and are bare of vegetation.

The ENTLI has recorded 14 natural terrain landslides within and study area. ENTLI data retrieved from SIS of CEDD is presented in Appendix B.

2.5 Historical Landslide Catchment (HLC) Inventory

Historical Landslide Catchments (HLCs) have been defined by GEO based on the results of the ENTLI. According to the inventory, there are 3 HLC within the site consist of 2 nos. Open Hillslope Landslide Catchment Nos. 6NW-A/OH28 & 6NW-A/OH29 and 1 No. Channelised Debris Flow Catchment No. 6NW-A/DF4. The Historical Landslide Catchment Inventory is presented in Appendix C.

Open Hillslope Landslide No. 6NW-A/OH28

In according to information retrieved from Slope Information System of CEDD, Open Hillslope Landslide Catchment No. 6NW-A/OH28 is situated at the north-eastern portion of Study Area. The plan area of the catchment is 3953m² with maximum elevation difference of 31m. According to the Enhanced Natural Terrain Landslide Inventory (ENTLI) database 3 natural terrain landslides which were recorded as relict landslide were identified within Catchment No. 6NW-A/OH28. The locations of these ENTLI features are shown on Figure 3.

Open Hillslope Landslide No. 6NW-A/OH29

In according to information retrieved from Slope Information System of CEDD, Open Hillslope Landslide Catchment No. 6NW-A/OH29 is situated at the northern portion of Study Area. The plan area of the catchment is 885m² with maximum elevation difference of 22m. According to the Enhanced Natural Terrain Landslide Inventory (ENTLI) database 1 natural terrain landslide which was recorded as relict landslide

was identified within Catchment No. 6NW-A/OH29. The location of this ENTLI feature is shown on Figure 3.

Channelised Debris Flow No. 6NW-A/DF4

In according to information retrieved from Slope Information System of CEDD, Channelised Debris Catchment No. 6NW-A/DF4 is situated at the southern portion of Study Area. The plan area of the catchment is 18971m² with maximum elevation difference of 90m. According to the Enhanced Natural Terrain Landslide Inventory (ENTLI) database 10 natural terrain landslides were identified within Catchment No. 6NW-A/DF4. 7 of which were recorded as relict landslide and 3 were recorded as recent landslides occurred. The locations of these ENTLI features are shown on Figure 3.

2.6 Reported Landslide Incidents

The GEO landslide incidents database has no record of reported landslide incident within or in the vicinity of the Site.

2.7 Ground Investigation

No Ground Investigation Works within the site has been carried out. No nearby GI Information could be retrieved from GIU of CEDD nor Buildings Department.

3.0 Impacts of proposed works on existing Features and natural hillside

3.1 Feature No. 6NW-A/C38

Feature No. 6NW-A/C38 is located at mid-portion of the site. An open storage area and meter room are situated on slope crest. Warehouse, office and parking space are situated at slope toe. Stability assessment on the existing slope shall be checked to ensure the existing slope will not affect the proposed development or vice versa.

In order to fulfill the above-mentioned objectives for detailed design to be carried out in future, a comprehensive investigation programme will be implement comprising the following:-

- I Detailed ground investigation including in-situ and laboratory soil testing to identify the soil parameters together with the monitoring of groundwater table;
- II Establishment of geological and hydrogeological model based on the findings from topographic survey and the ground investigation works.

3.2 Feature No. 6NW-A/C39

Feature No. 6NW-A/C39 is located at mid-portion of the site. An office and parking space are on slope crest. Access road is situated along at slope toe. Stability assessment on the existing slope shall be checked to ensure the existing slope and toe wall will not affect the proposed development or vice versa.

In order to fulfill the above-mentioned objectives for detailed design to be carried out in future, a comprehensive investigation programme will be implement comprising the following:-

- I Detailed ground investigation including in-situ and laboratory soil testing to identify the soil parameters together with the monitoring of groundwater table;
- II Establishment of geological and hydrogeological model based on the findings from topographic survey and the ground investigation works.

3.3 Feature No. 6NW-A/C75

Feature No. 6NW-A/C75 is located at south-east portion of the site. An open storage area and meter room are situated at slope toe. Stability assessment on the existing slope shall be checked to ensure the existing slope and toe wall will not affect the proposed development or vice versa.

In order to fulfill the above-mentioned objectives for detailed design to be carried out in future, a comprehensive investigation programme will be implement comprising the following:-

- I Detailed ground investigation including in-situ and laboratory soil testing to identify the soil parameters together with the monitoring of groundwater table;
- II Establishment of geological and hydrogeological model based on the findings from topographic survey and the ground investigation works.

3.4 Feature No. 6NW-A/F67

Feature No. 6NW-A/F67 is located due north-east of the site. A staff lounge & restroom, warehouses and parking space are situated near the slope toe. Stability assessment on the existing slope shall be checked to ensure the existing slope and toe wall will not affect the proposed development or vice versa.

In order to fulfill the above-mentioned objectives for detailed design to be carried out in future, a comprehensive investigation programme will be implemented comprising the following:-

- I Detailed ground investigation including in-situ and laboratory soil testing to identify the soil parameters together with the monitoring of groundwater table;
- II Establishment of geological and hydrogeological model based on the findings from topographic survey and the ground investigation works.

3.5 Feature No. 6NW-A/F93

Feature No. 6NW-A/F93 is located at north-west portion of the site. An existing slope with Feature No. 6NW-A/F94 is situated at slope toe. For the portion of the Feature situated within the site, it is a sloping ground with maximum slope angle of 14°. It is considered that the Feature is unlikely to affect the proposed development. However, the stability of the existing slope should be checked to determine if it will be affected by the proposed development

- I Detailed ground investigation including in-situ and laboratory soil testing to identify the soil parameters together with the monitoring of groundwater table;

- II Establishment of geological and hydrogeological model based on the findings from topographic survey and the ground investigation works.

3.6 Feature No. 6NW-A/F94

Feature No. 6NW-A/F94 is located at north-west portion of the site. Warehouses and parking space are situated at slope toe. A slope with Feature No. 6NW-A/F93 is situated on slope crest. Stability assessment on the existing slope shall be checked to ensure the existing slope and toe wall will not affect the proposed development or vice versa.

In order to fulfill the above-mentioned objectives for detailed design to be carried out in future, a comprehensive investigation programme will be implement comprising the following:-

- I Detailed ground investigation including in-situ and laboratory soil testing to identify the soil parameters together with the monitoring of groundwater table;
- II Establishment of geological and hydrogeological model based on the findings from topographic survey and the ground investigation works.

4.0 Natural Terrain Hazard Assessment

According to Clause 2 and Figure 2.1 – Graphical Presentation of the Alert Criteria of Geo Report No. 337 – Review of Alert Criteria in Respect of Natural Terrain Hazards. The Alert Criteria should be applied if the site fall under category below:-

Where there is natural terrain outside the site, but within the same catchment, that is at an angular elevation of 20° or more from the site and where there is ground sloping at more than 15° within 50m horizontally upslope of the site, provided that there is credible debris flowpath to the site.

The proposed development is situated near toe area of natural hillside is 14m high approx with slope angle range from 26° to 33° which is larger than the 20° as required in the Alert Criteria. As such, the subject site is required for a Natural Terrain Hazard Study (NTHS). The Natural Terrain Hazard Study Area is presented in Figure 3.

NTHS and the necessary mitigation (if any) shall be carried out for the proposed development.

5.0 Conclusions

Based on the above discussion, it can be concluded that the proposed development is considered to be feasible from geotechnical point of view. The construction would be straight forward unlikely posting particular problems to the surrounding area under careful planning, proper execution and vigilant supervision.

Site investigation is proposed to reveal/confirm the subsoils and the ground regime within and in the vicinity of the site as well as to determine the engineering properties of subsoils and rock. The ground investigation field works should be preceded under supervision of suitably qualified engineers and technically competent persons conforming the requirements specified in the “Code of Practice for Site Supervision 2009” published by the BD.

6.0 References

Geotechnical Engineering Office (2016). Guidelines for Natural Terrain Hazard Studies. Geotechnical Engineering Office, Hong Kong. GEO Report No. 138 2nd Edition.

Geotechnical Engineering Office (2004). Technical Guidance Note 22: Guidelines on Geomorphological Mapping for Natural Terrain Hazard Studies. Geotechnical Engineering Office, Hong Kong.

Geotechnical Engineering Office (2014). Technical Guidance Note No. 36: Guidelines on Enhanced Approach for Natural Terrain Hazard Studies. Geotechnical Engineering Office, Civil Engineering Department, Hong Kong.

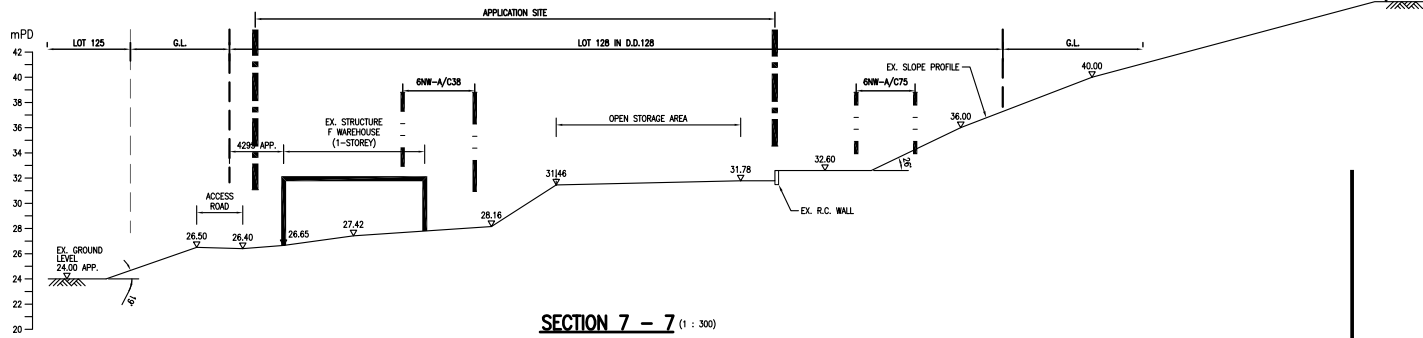
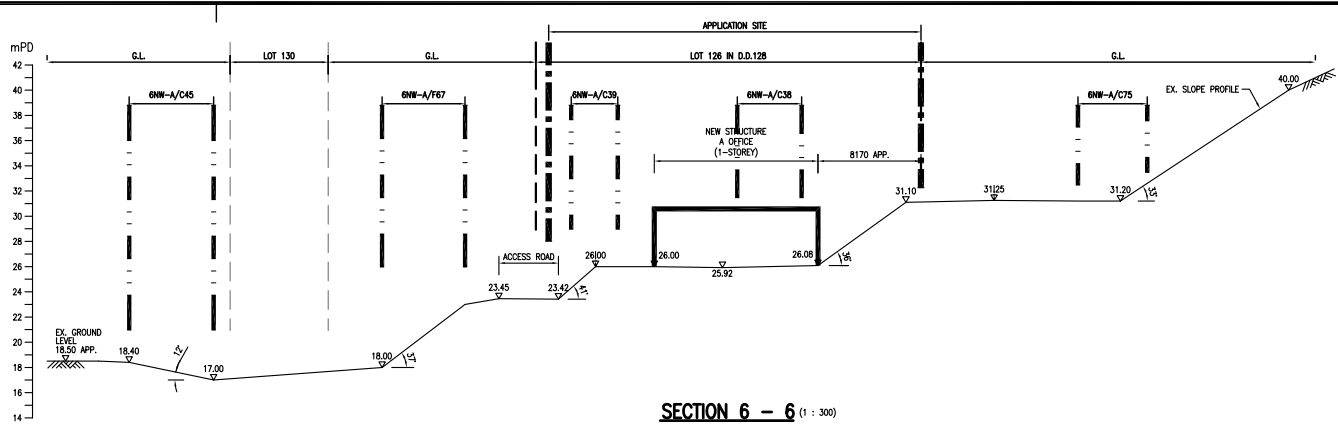
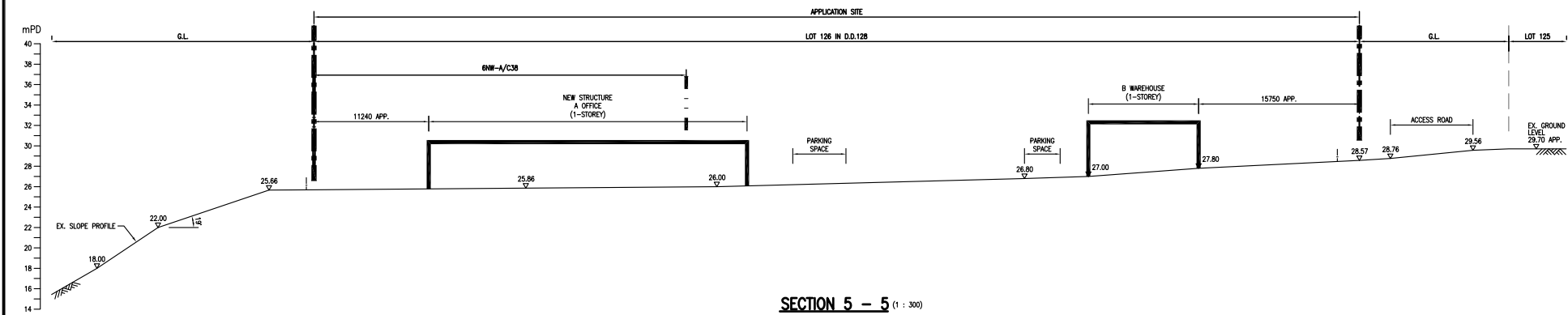
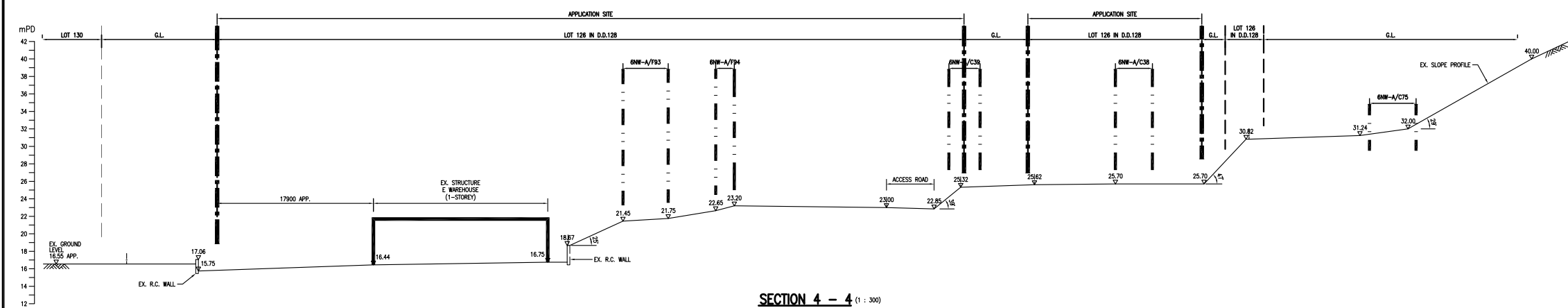
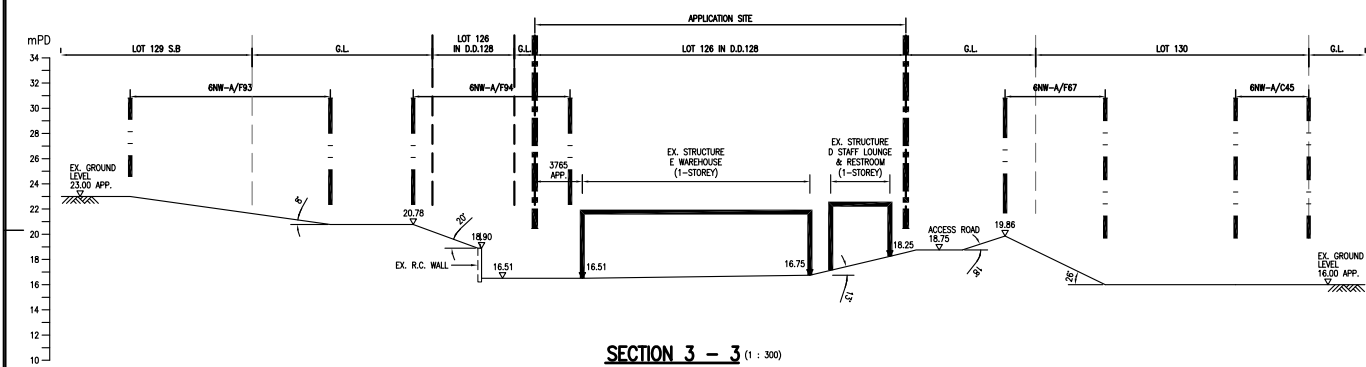
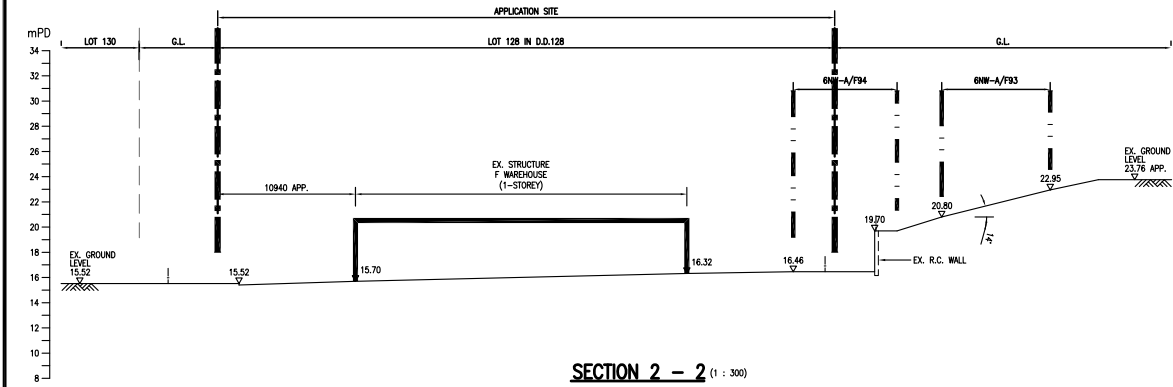
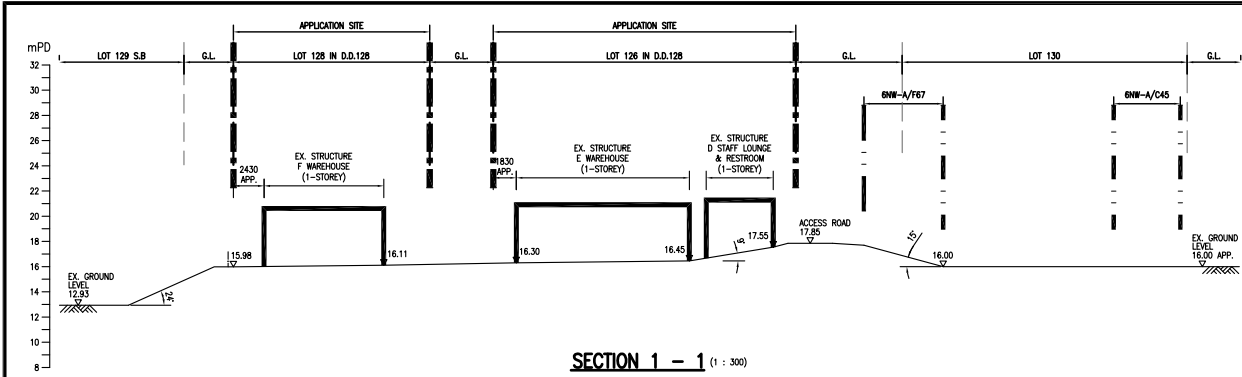
King, J.P. (1999). Natural Terrain Landslide Study The Natural Terrain Landslide Inventory. GEO Report No. 74, Geotechnical Engineering Office, Hong Kong.

Landslide data for public retrieved from Location of Landslide Incidents of CEDD.

Geotechnical Engineering Office (2007). Technical Guidance Note No. 15. Guidelines for Classification of Consequence-to-life Category for Slope Feature.

GEO Report No. 337 – Review of Alert Criteria In Respect of Natural Terrain Hazards.

Figures



B.D. REF.

-

LEGENDS

- - -

LOT BOUNDARY LINE

- - -

FEATURE BOUNDARY LINE

- - -

APPLICATION SITE

A	17/06/24	GENERAL REVISION	
REV.	DATE	DESCRIPTION	

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Philip C.W. So

RPE (Civil & Geotechnical)

Registered Structural Engineer

Registered Geotechnical Engineer

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PROJECT :

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IN D.D.128, KAI PAK LING ROAD,

YUEN LONG.

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SECTIONS

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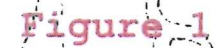
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YUEN LONG 元朗

Sheet 6 編號

SOLID AND SUPERFICIAL GEOLOGY 基岩和表土地質圖

Series HGM20 組別

Scale 1:20 000 比例

SUPERFICIAL DEPOSITS 地表沉積

GENERIC CLASSIFICATION 通用分類		主要沉積物	PRINCIPAL MATERIALS
QUATERNARY 第四系 更新世-全新世 更新世-全新世 更新世-全新世 更新世-全新世 更新世-全新世 更新世-全新世 更新世-全新世 更新世-全新世 更新世-全新世	Fill 填土	填土	Detrital sand and gravel
	Alluvium 沖積物	沖積物	Coarse sand and gravel, silt, sand, and gravel
	Beach deposits 海灘沉積物	海灘沉積物	Sand
	Raised beach deposits 高灘沉積物	高灘沉積物	Sand
	Marine sand 海洋砂	海洋砂	Sand, part silty
	Clayey silt deposits 粘粉土沉積物	粘粉土沉積物	Unconsolidated, silty, clayey silt
	Loose (fine) silt deposits 松散(細)粉土沉積物	松散(細)粉土沉積物	Silt, part silty
	Loose (fine) silt deposits 松散(細)粉土沉積物	松散(細)粉土沉積物	Silt, part silty
	Loose (fine) silt deposits 松散(細)粉土沉積物	松散(細)粉土沉積物	Silt, part silty
	Loose (fine) silt deposits 松散(細)粉土沉積物	松散(細)粉土沉積物	Silt, part silty

SOLID GEOLOGY 基岩地質

SEDIMENTARY AND VOLCANIC ROCKS 沉積岩和火山岩

NAMED ROCK DIVISIONS 命名岩系		主要沉積岩/火山岩	PRINCIPAL ROCK TYPES/CHARACTERS
MESOZOIC 中生代 上白堊統 上白堊統 上白堊統 上白堊統 上白堊統 上白堊統 上白堊統 上白堊統 上白堊統	Ts'ao Shien Formation, undivided 上白堊統, 未分層	JTM	粗粒砂岩, 泥岩, 頁岩
	Adze Chau Formation, undivided 上白堊統, 未分層	JAC	粗粒砂岩, 泥岩, 頁岩
	Shing Mun Formation, undivided 上白堊統, 未分層	JSM	粗粒砂岩, 泥岩, 頁岩
	Maga Liu Member 上白堊統, 未分層	JML	粗粒砂岩, 泥岩, 頁岩
	Shek Lung Kung Member 上白堊統, 未分層	JSLK	粗粒砂岩, 泥岩, 頁岩
	Yuen Tin Tsai Formation, undivided 上白堊統, 未分層	JYT	粗粒砂岩, 泥岩, 頁岩
	Ts'ao Shien Formation, undivided 上白堊統, 未分層	JTS	粗粒砂岩, 泥岩, 頁岩
	Ts'ao Shien Formation, undivided 上白堊統, 未分層	JTS	粗粒砂岩, 泥岩, 頁岩
	Ts'ao Shien Formation, undivided 上白堊統, 未分層	JTS	粗粒砂岩, 泥岩, 頁岩
	Ts'ao Shien Formation, undivided 上白堊統, 未分層	JTS	粗粒砂岩, 泥岩, 頁岩

MAJOR INTRUSIVE IGNEOUS ROCKS 主要侵入火成岩

MESOZOIC 中生代 白堊紀 白堊紀 白堊紀 白堊紀 白堊紀 白堊紀 白堊紀 白堊紀	Granite 花崗岩	gt	粗粒花崗岩, 中粒花崗岩
	Granite 花崗岩	gt	粗粒花崗岩, 中粒花崗岩
	Granite 花崗岩	gt	粗粒花崗岩, 中粒花崗岩
	Granite 花崗岩	gt	粗粒花崗岩, 中粒花崗岩
	Granite 花崗岩	gt	粗粒花崗岩, 中粒花崗岩
	Granite 花崗岩	gt	粗粒花崗岩, 中粒花崗岩
	Granite 花崗岩	gt	粗粒花崗岩, 中粒花崗岩
	Granite 花崗岩	gt	粗粒花崗岩, 中粒花崗岩
	Granite 花崗岩	gt	粗粒花崗岩, 中粒花崗岩
	Granite 花崗岩	gt	粗粒花崗岩, 中粒花崗岩

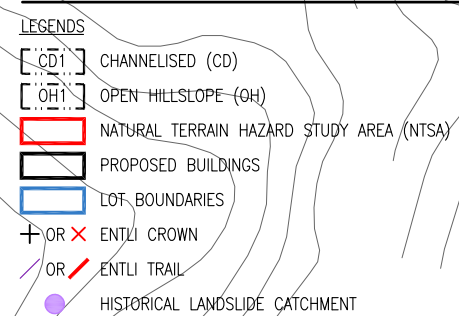
MINOR INTRUSIVE IGNEOUS ROCKS 次要侵入火成岩 (脈岩)

MESOZOIC 中生代 白堊紀 白堊紀 白堊紀 白堊紀 白堊紀 白堊紀 白堊紀 白堊紀	Basalt 玄武岩	b	Basalt
	Andesite 安山岩	a	Andesite
	Andesite 安山岩	a	Andesite
	Andesite 安山岩	a	Andesite
	Andesite 安山岩	a	Andesite
	Andesite 安山岩	a	Andesite
	Andesite 安山岩	a	Andesite
	Andesite 安山岩	a	Andesite
	Andesite 安山岩	a	Andesite
	Andesite 安山岩	a	Andesite

METAMORPHIC ROCKS 變質岩

Metamorphic rocks 變質岩	Metamorphic rocks 變質岩
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Figure 2



Appendix A

Slope Information retrieved from SIS of CEDD



BASIC INFORMATION

Location: Storage area near Ngau Hom Shek, Yuen Long

Date of Formation: pre-1977

Date of Construction/

Modification:

Approximate Coordinates: Easting : 816212 Northing : 835405

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Non-dangerous goods storage site

Distance of Facility from Crest (m): 0

Facility at Toe: Lightly-used open area/facilities

Distance of Facility from Toe (m): 0.3

Consequence-to-life Category: 3

Remarks: TGN 15 case - provided by SP Division (31 MAR 2004)

SLOPE PART

(1) Max. Height (m): 3.2 Length (m): 120 Average Angle (deg): 48

WALL PART

N/A



MAINTENANCE RESPONSIBILITY

Mixed Feature Party: DD128 Lot126 Agent: N/A
Mixed Feature Party: Lands D Agent: Lands D

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 14-06-2001
Data Source: EI(Lands D)
Slope Part Drainage: N/A

Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)
Surface Protection (%): Bare: 0 Vegetated: 100 Chunam: 0 Shotcrete: 0 Other Cover: 0
Material Description: Material type: Soil Geology: Decomposed granite
Berm: No. of Berms: N/A Min. Berm Width (m): N/A
Weepholes: Size (mm): N/A Spacing (m): N/A



STAGE 1 STUDY REPORT

Inspected On: 02-09-1997

Weather: Mainly Fine

District: MW

Section No: 1-1

Height(m): H1 : 3 , H2 : 0

Type of Toe Facility: Lightly-used open area/facilities

Distance from Toe(m): 0.3

Type of Crest Facility: Non-dangerous goods storage site

Distance from Crest(m): 0

Consequence Category: 1

Engineering Judgement: U

Section No: 2-2

Type of Toe Facility: N/A

Distance from Toe(m): 0

Type of Crest Facility: N/A

Distance from Crest(m): 0

Consequence Category: 1

Engineering Judgement: U



Sign of Seepage:	Slope : No signs of seepage Wall : N/A
Criterion A satisfied:	N
Sign of Distress:	Slope : N/A Wall : N/A
Criterion D satisfied:	N
Non-routine maintenance required:	N
Note:	N/A
Masonry wall/Masonry facing:	N
Note:	N/A
Consequence category (for critical section):	1
Observations:	TGN 15 case - provided by SP Division (31 MAR 2004)
Emergency Action Required:	N
Action By:	N/A

ACTION TO INITIATE PREVENTIVE WORKS

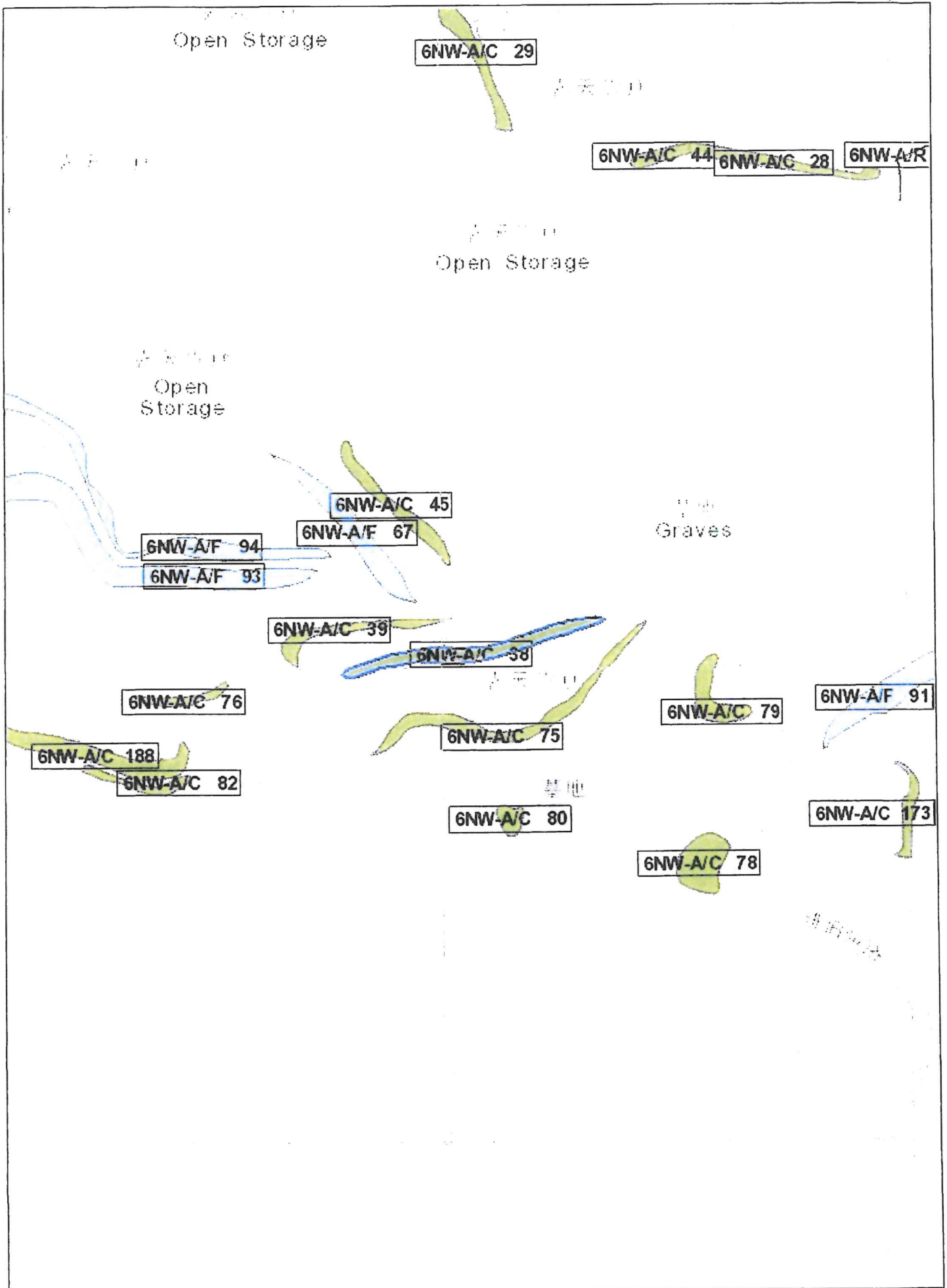
Criterion A/Criterion D:	N/A
Action By:	N/A
Further Study:	N
Action By:	N/A

OTHER EXTERNAL ACTION

Check / repair Services:	N
Action By:	N/A
Non-routine Maintenance:	N
Action By:	N/A

PHOTO







BASIC INFORMATION

Location: Storage area near Ngau Hom Shek, Yuen Long

Date of Formation: post-1977

Date of Construction/

Modification:

Approximate Coordinates: Easting : 816162 Northing : 835418

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Non-dangerous goods storage site

Distance of Facility from Crest (m): 0

Facility at Toe: District open space

Distance of Facility from Toe (m): 0

Consequence-to-life Category: 3

Remarks: N/A

SLOPE PART

(1) Max. Height (m): 3 Length (m): 70 Average Angle (deg): 46

WALL PART

N/A



MAINTENANCE RESPONSIBILITY

Mixed Feature	Party: DD128 LOT126	Agent: N/A
Mixed Feature	Party: DD128 LOT127	Agent: N/A
Mixed Feature	Party: Lands D	Agent: Lands D

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection:	14-06-2001
Data Source:	EI(Lands D)
Slope Part Drainage:	N/A

Wall Part Drainage:	N/A
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SLOPE PART

Slope Part (1)

Surface Protection (%):	Bare: 0	Vegetated: 100	Chunam: 0	Shotcrete: 0	Other Cover: 0
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Material Description:	Material type: Soil	Geology: Decomposed granite
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Berm:	No. of Berms: N/A	Min. Berm Width (m): N/A
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Weepholes:	Size (mm): N/A	Spacing (m): N/A
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WALL PART

N/A

SERVICES

N/A



STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: MW

Section No: 1-1

Height(m):

Type of Toe Facility: District open space

Distance from Toe(m): 0

Type of Crest Facility: Non-dangerous goods storage site

Distance from Crest(m): 0

Consequence Category:

Engineering Judgement:

Section No: 2-2

Type of Toe Facility:

Distance from Toe(m):

Type of Crest Facility:

Distance from Crest(m):

Consequence Category:

Engineering Judgement:



Sign of Seepage:

Criterion A satisfied:

Sign of Distress:

Criterion D satisfied:

Non-routine maintenance required:

Note:

Masonry wall/Masonry facing:

Note:

Consequence category (for critical section):

Observations: N/A

Emergency Action Required:

Action By: N/A

ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D: N/A

Action By: N/A

Further Study:

Action By: N/A

OTHER EXTERNAL ACTION

Check / repair Services:

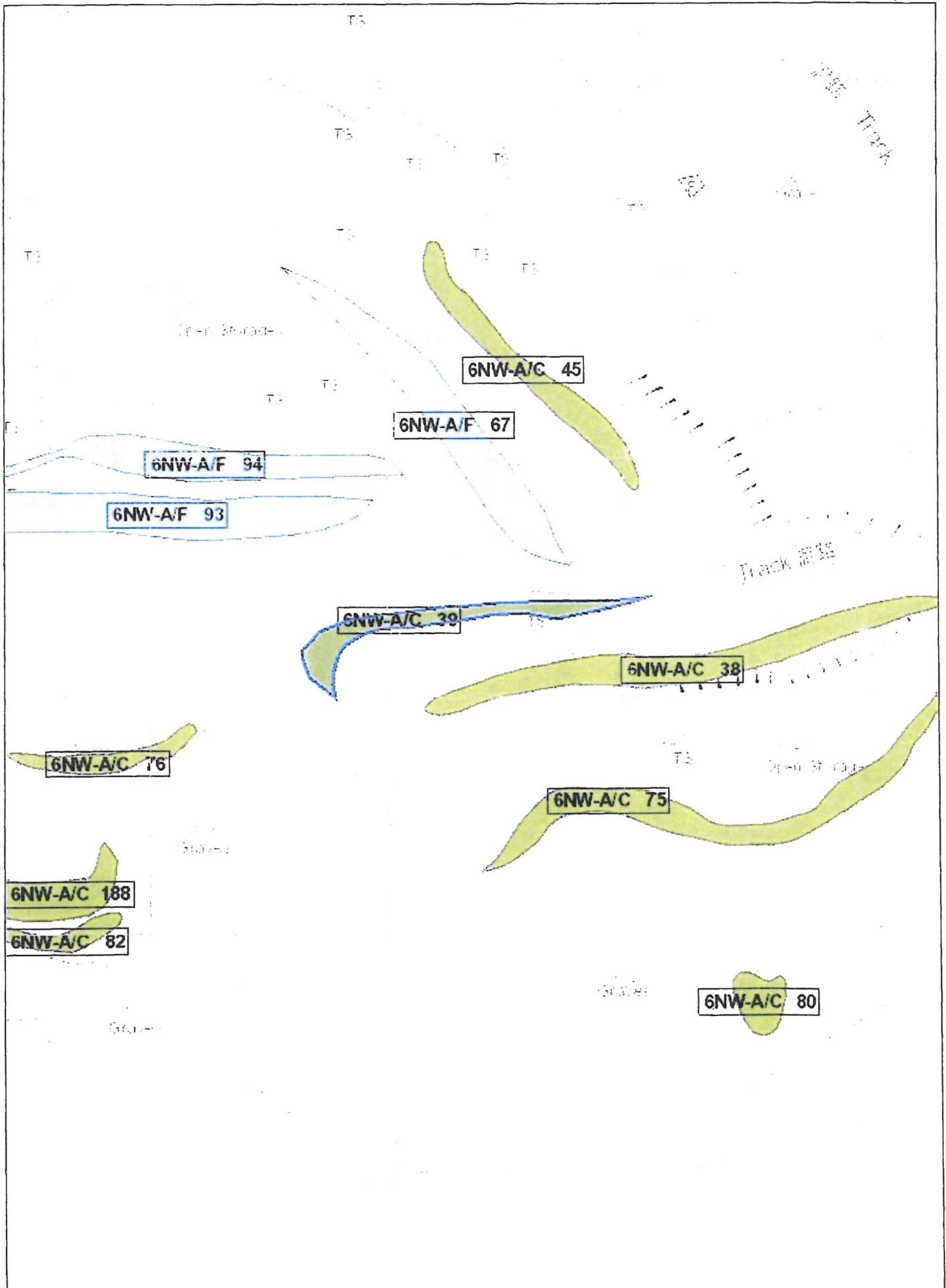
Action By: N/A

Non-routine Maintenance:

Action By: N/A

PHOTO







BASIC INFORMATION

Location: 350m West of Fung Kong Tsuen, Yuen Long

Date of Formation: post-1977

Date of Construction/
Modification:

Approximate Coordinates: Easting : 816233 Northing : 835370

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Cemetery

Distance of Facility from Crest (m): 1

Facility at Toe: Densely-used open area/facilities

Distance of Facility from Toe (m): 0

Consequence-to-life Category: 2

Remarks: N/A

SLOPE PART

(1) Max. Height (m): 4 Length (m): 150 Average Angle (deg): 65

WALL PART

N/A



MAINTENANCE RESPONSIBILITY

Mixed Feature Party: Lands D Agent: Lands D
Mixed Feature Party: DD128 LOT 126 Agent: N/A

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 04-06-2015
Data Source: EI(Lands D)
Slope Part Drainage: N/A

Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)
Surface Protection (%): Bare: 0 Vegetated: 100 Chunam: 0 Shotcrete: 0 Other Cover: 0
Material Description: Material type: Soil Geology: N/A
Berm: No. of Berms: N/A Min. Berm Width (m): N/A
Weepholes: Size (mm): N/A Spacing (m): N/A



WALL PART

N/A

SERVICES

N/A



STAGE 1 STUDY REPORT

Inspected On: 25-02-2000

Weather: Some Rain

District: MW

Section No: 1-1

Height(m): H1 : 4 , H2 : 0

Type of Toe Facility: Densely-used open area/facilities

Distance from Toe(m): 0

Type of Crest Facility: Cemetery

Distance from Crest(m): 1

Consequence Category: 3

Engineering Judgement: U

Section No: 2-2

Type of Toe Facility: N/A

Distance from Toe(m): 0

Type of Crest Facility: N/A

Distance from Crest(m): 0

Consequence Category: 3

Engineering Judgement: U



Sign of Seepage: Slope : No signs of seepage
Wall : N/A

Criterion A satisfied: N

Sign of Distress: Slope : N/A
Wall : N/A

Criterion D satisfied: N

Non-routine maintenance required: N

Note: N/A

Masonry wall/Masonry facing: N

Note: N/A

Consequence category (for critical section): 3

Observations: N/A

Emergency Action Required: N

Action By: N/A

ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D: N/A

Action By: N/A

Further Study: N

Action By: N/A

OTHER EXTERNAL ACTION

Check / repair Services: N

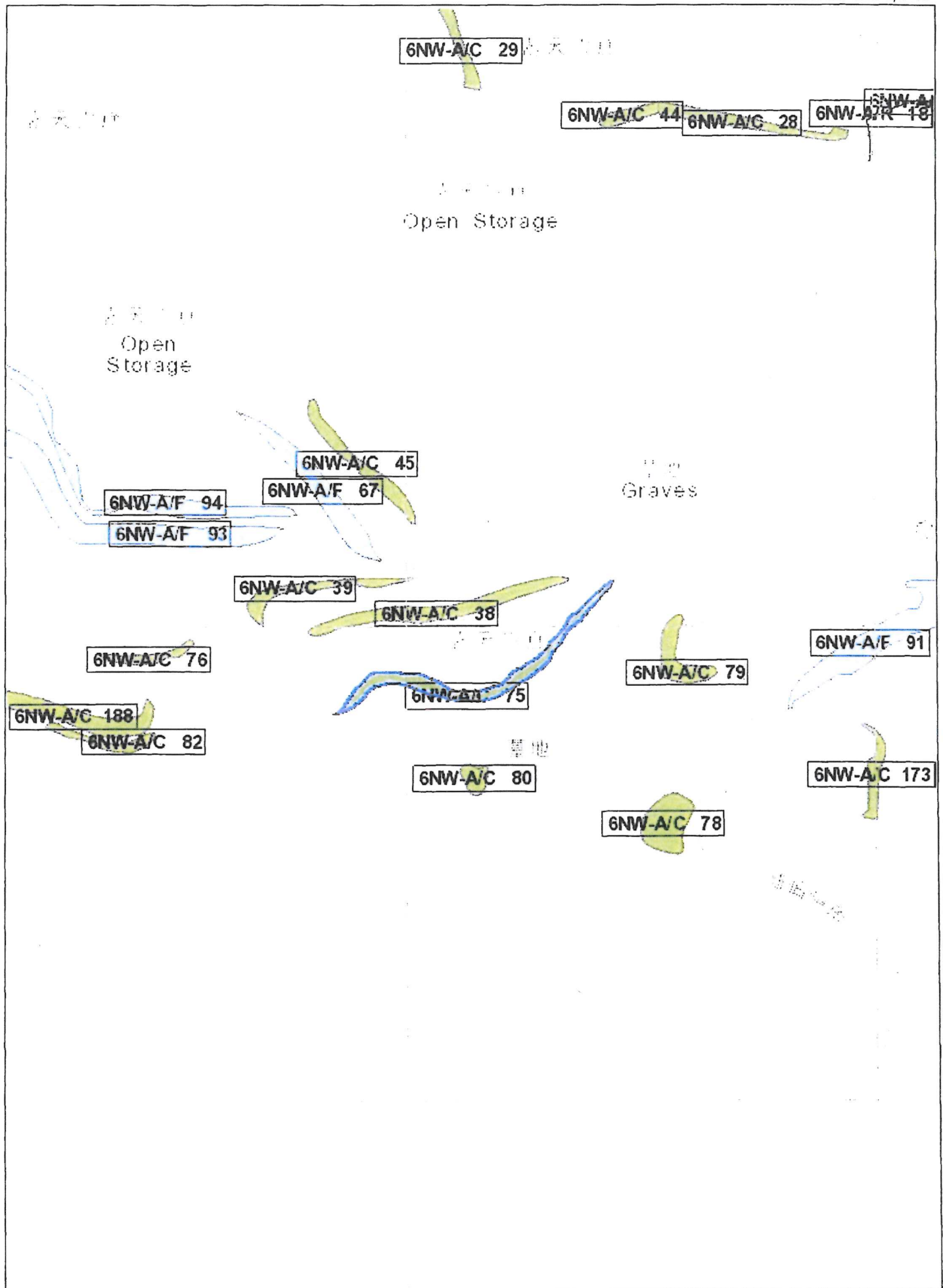
Action By: N/A

Non-routine Maintenance: N

Action By: N/A

PHOTO







BASIC INFORMATION

Location: 300M SOUTH EAST OF TIN HAU TEMPLE, SHA KONG TSUEN, DEEP BAY

Date of Formation: post-1977

Date of Construction/
Modification:

Approximate Coordinates: Easting : 816155 Northing : 835470

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Other non-crowded built-up facilities

Distance of Facility from Crest (m): 0

Facility at Toe: Road/footpath with low traffic density

Distance of Facility from Toe (m): 0

Consequence-to-life Category: 2

Remarks: N/A

SLOPE PART

(1) Max. Height (m): 5.1 Length (m): 90 Average Angle (deg): 40

WALL PART

N/A



MAINTENANCE RESPONSIBILITY

Mixed Feature Party: DD128 LOT130 Agent: N/A
Mixed Feature Party: Lands D Agent: Lands D

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 25-11-2002
Data Source: Agreement CE 59/2002 (GE)
Slope Part Drainage: N/A

Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)

Surface Protection (%): Bare: 100 Vegetated: 0 Chunam: 0 Shotcrete: 0 Other Cover: 0
Material Description: Material type: Soil Geology: N/A
Berm: No. of Berms: N/A Min. Berm Width (m): N/A
Weepholes: Size (mm): N/A Spacing (m): N/A



WALL PART

N/A

SERVICES

N/A



STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: MW

Section No: 1-1

Height(m):

Type of Toe Facility: Road/footpath with low traffic density

Distance from Toe(m): 0

Type of Crest Facility: Other non-crowded built-up facilities

Distance from Crest(m): 0

Consequence Category:

Engineering Judgement:

Section No: 2-2

Type of Toe Facility:

Distance from Toe(m):

Type of Crest Facility:

Distance from Crest(m):

Consequence Category:

Engineering Judgement:



Sign of Seepage:

Criterion A satisfied:

Sign of Distress:

Criterion D satisfied:

Non-routine maintenance required:

Note:

Masonry wall/Masonry facing:

Note:

Consequence category (for critical section):

Observations: N/A

Emergency Action Required:

Action By: N/A

ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D: N/A

Action By: N/A

Further Study:

Action By: N/A

OTHER EXTERNAL ACTION

Check / repair Services:

Action By: N/A

Non-routine Maintenance:

Action By: N/A

PHOTO

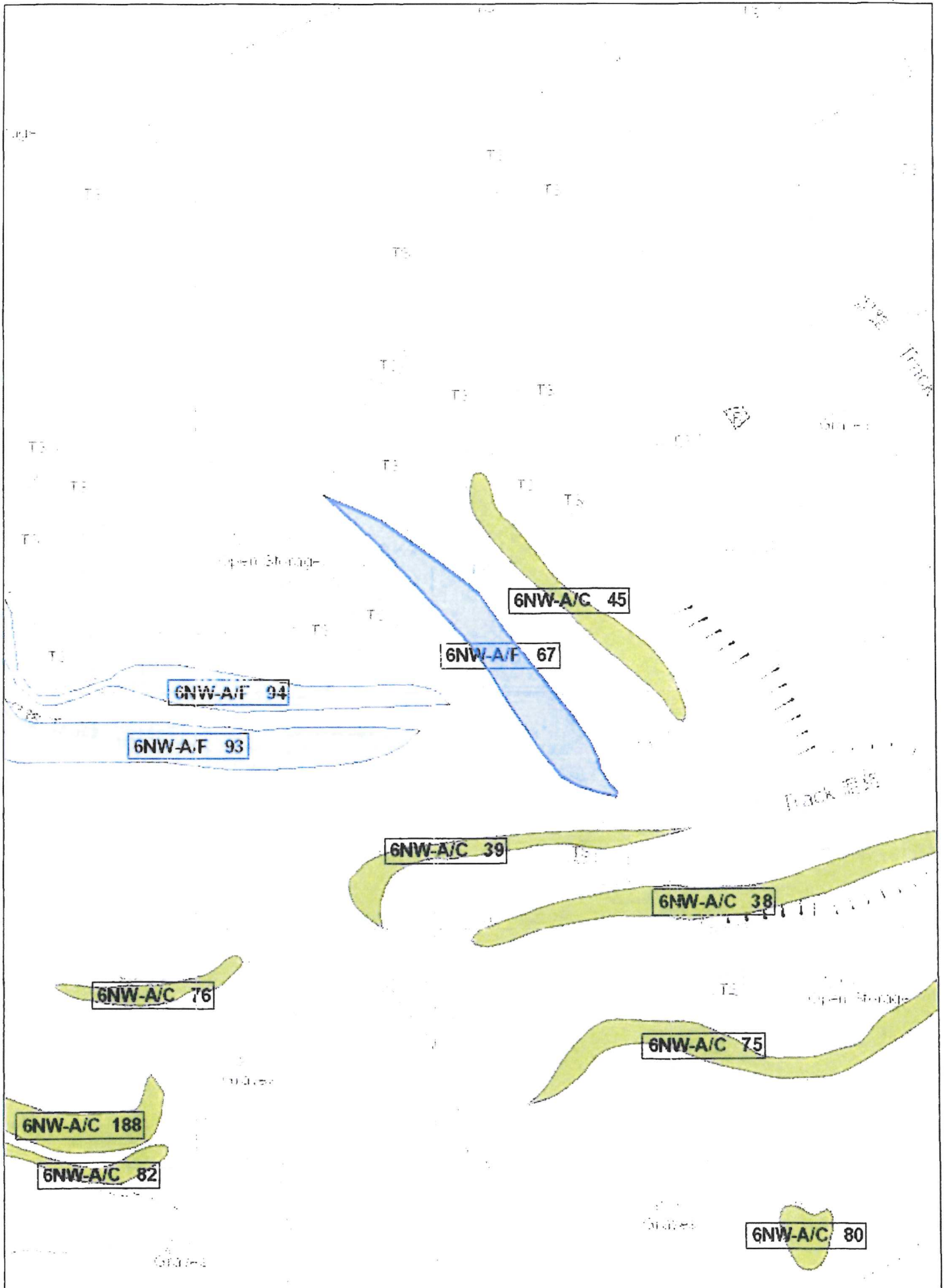




SLOPE INFORMATION SYSTEM

GEO TECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Feature No. 6NW-A/F 67





BASIC INFORMATION

Location: Lot 129 s.B, 126, 127 in DD128, Sha Kong Tsuen, Yuen Long

Date of Formation: pre-1977

Date of Construction/
Modification:

Approximate Coordinates: Easting : 816019 Northing : 835478

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Open car park

Distance of Facility from Crest (m): 0

Facility at Toe: Cottage, licensed and squatter area

Distance of Facility from Toe (m): 0

Consequence-to-life Category: 1

Remarks: N/A

SLOPE PART

(1) Max. Height (m): 6 Length (m): 245 Average Angle (deg): 40

WALL PART

N/A



MAINTENANCE RESPONSIBILITY

Mixed Feature	Party: DD128 LOT 129 S.B	Agent: N/A
Mixed Feature	Party: DD128 LOT 126	Agent: N/A
Mixed Feature	Party: DD128 LOT 127	Agent: N/A
Mixed Feature	Party: Lands D	Agent: Lands D

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 25-05-2016
Data Source: Districts
Slope Part Drainage: N/A

Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)
Surface Protection (%): Bare: 100 Vegetated: 0 Chunam: 0 Shotcrete: 0 Other Cover: 0
Material Description: Material type: Soil Geology: N/A
Berm: No. of Berms: N/A Min. Berm Width (m): N/A
Weepholes: Size (mm): N/A Spacing (m): N/A



WALL PART

N/A

SERVICES

N/A



STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: N/A

Section No: 1-1

Height(m):

Type of Toe Facility: Cottage, licensed and squatter area

Distance from Toe(m): 0

Type of Crest Facility: Open car park

Distance from Crest(m): 0

Consequence Category:

Engineering Judgement:

Section No: 2-2

Type of Toe Facility:

Distance from Toe(m):

Type of Crest Facility:

Distance from Crest(m):

Consequence Category:

Engineering Judgement:



Sign of Seepage:

Criterion A satisfied:

Sign of Distress:

Criterion D satisfied:

Non-routine maintenance required:

Note:

Masonry wall/Masonry facing:

Note:

Consequence category (for critical section):

Observations: N/A

Emergency Action Required:

Action By: N/A

ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D: N/A

Action By: N/A

Further Study:

Action By: N/A

OTHER EXTERNAL ACTION

Check / repair Services:

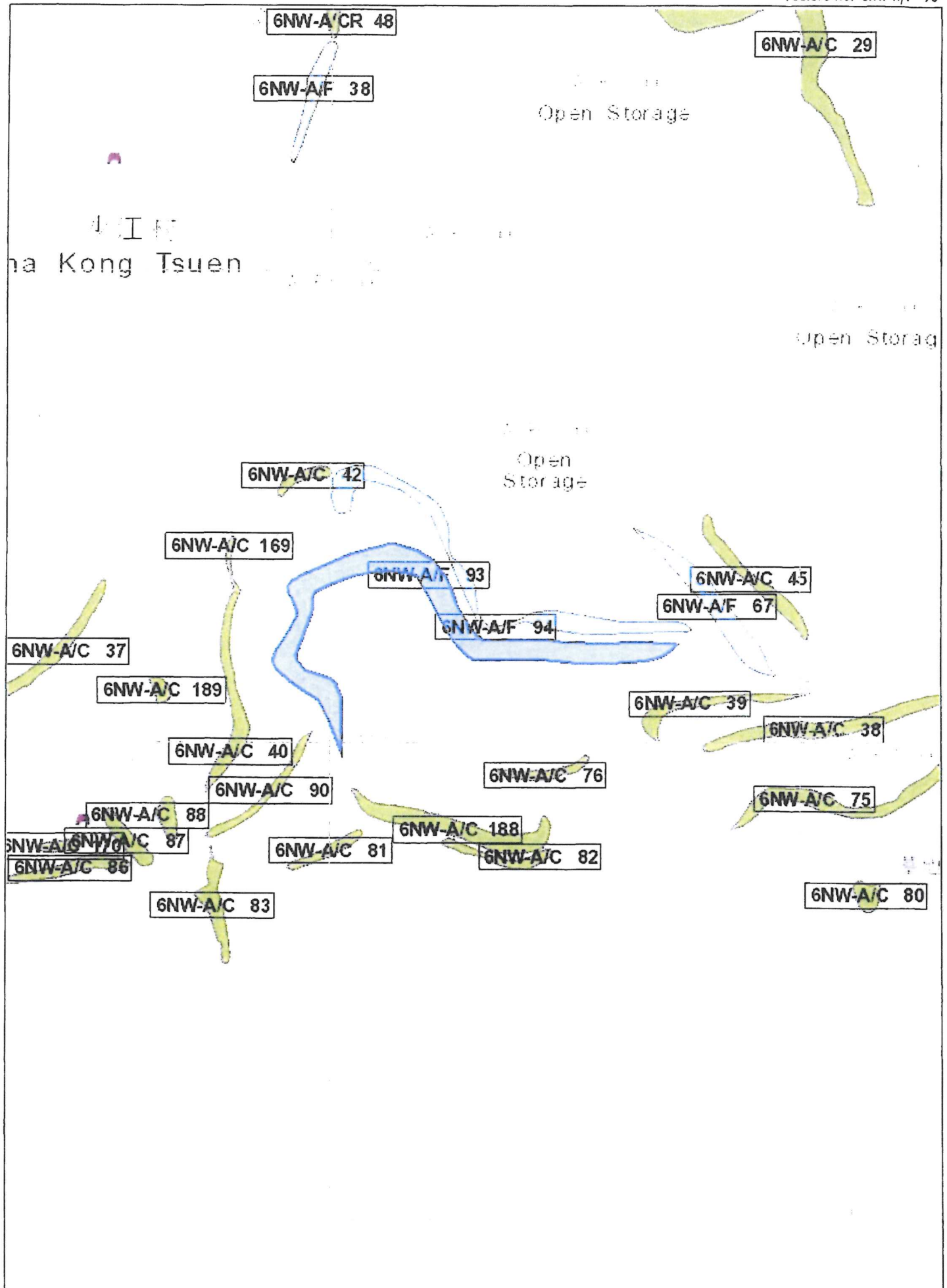
Action By: N/A

Non-routine Maintenance:

Action By: N/A

PHOTO







BASIC INFORMATION

Location: Lot 129 s.B, 126, 127, 270 in DD128, Sha Kong Tsuen, Yuen Long

Date of Formation: pre-1977

Date of Construction/

Modification:

Approximate Coordinates: Easting : 816115 Northing : 835449

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Construction sites

Distance of Facility from Crest (m): 0

Facility at Toe: Cottage, licensed and squatter area

Distance of Facility from Toe (m): 0

Consequence-to-life Category: 1

Remarks: N/A

SLOPE PART

(1) Max. Height (m): 4 Length (m): 200 Average Angle (deg): 35

WALL PART

N/A



MAINTENANCE RESPONSIBILITY

Mixed Feature	Party: DD128 LOT 126	Agent: N/A
Mixed Feature	Party: DD128 LOT 128	Agent: N/A
Mixed Feature	Party: DD128 LOT 129 S.B	Agent: N/A
Mixed Feature	Party: DD128 LOT 270 S.A	Agent: N/A
Mixed Feature	Party: DD128 LOT 270 RP	Agent: N/A
Mixed Feature	Party: Lands D	Agent: Lands D

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 25-05-2016
Data Source: Districts
Slope Part Drainage: N/A

Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)

Surface Protection (%):	Bare: 100	Vegetated: 0	Chunam: 0	Shotcrete: 0	Other Cover: 0
Material Description:	Material type: Soil	Geology: N/A			
Berm:	No. of Berms: N/A	Min. Berm Width (m): N/A			
Weepholes:	Size (mm): N/A	Spacing (m): N/A			



WALL PART

N/A

SERVICES

N/A



STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: N/A

Section No: 1-1

Height(m):

Type of Toe Facility: Cottage, licensed and squatter area

Distance from Toe(m): 0

Type of Crest Facility: Construction sites

Distance from Crest(m): 0

Consequence Category:

Engineering Judgement:

Section No: 2-2

Type of Toe Facility:

Distance from Toe(m):

Type of Crest Facility:

Distance from Crest(m):

Consequence Category:

Engineering Judgement:



Sign of Seepage:

Criterion A satisfied:

Sign of Distress:

Criterion D satisfied:

Non-routine maintenance required:

Note:

Masonry wall/Masonry facing:

Note:

Consequence category (for critical section):

Observations: N/A

Emergency Action Required:

Action By: N/A

ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D: N/A

Action By: N/A

Further Study:

Action By: N/A

OTHER EXTERNAL ACTION

Check / repair Services:

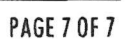
Action By: N/A

Non-routine Maintenance:

Action By: N/A

PHOTO





Appendix B

ENTLI data retrieved from SIS of CEDD

Facts and Figures

Slope Information System



Back

ENTLI No.	06NWA0178E
Type of slides	Relict
Width of main scarp	17
Length of landslide source	7
Slope	42
Vegetation cover	Completely in grass
Year landslide first observed	1963
Elevation of landslide crown	52
Elevation of landslide toe	46
Elevation difference of landslide trail	6
Gully	N
Relict class	Scarp predominantly sharp (80% certain)
Easting	816250.288965
Northing	835336.017975



Facts and Figures

Slope Information System



Back

ENTLI No.	06NWA0179E
Type of slides	Relict
Width of main scarp	16
Length of landslide source	7.5
Slope	38.5
Vegetation cover	Completely in grass
Year landslide first observed	1963
Elevation of landslide crown	56
Elevation of landslide toe	49
Elevation difference of landslide trail	7
Gully	N
Relict class	Scarp predominantly sharp (80% certain)
Easting	816229.333923
Northing	835328.080459

Facts and Figures

Slope Information System



Back

ENTLI No.	06NWA0180E
Type of slides	Relict
Width of main scarp	8
Length of landslide source	4.5
Slope	31.5
Vegetation cover	Completely in grass
Year landslide first observed	1963
Elevation of landslide crown	54
Elevation of landslide toe	52
Elevation difference of landslide trail	2
Gully	N
Relict class	Scarp predominantly sharp (80% certain)
Easting	816215.998897
Northing	835334.747972

Facts and Figures

Slope Information System



Back

ENTLI No.	06NWA0181E
Type of slides	Relict
Width of main scarp	17
Length of landslide source	8.5
Slope	29.5
Vegetation cover	Completely in grass
Year landslide first observed	1963
Elevation of landslide crown	44
Elevation of landslide toe	38
Elevation difference of landslide trail	6
Gully	N
Relict class	Broad depression (10% certain)
Easting	816187.106339
Northing	835353.48051



Facts and Figures

Slope Information System



Back

ENTLI No.	06NWA0183E
Type of slides	Relict
Width of main scarp	22
Length of landslide source	9.5
Slope	31
Vegetation cover	Completely in grass
Year landslide first observed	1963
Elevation of landslide crown	58
Elevation of landslide toe	52
Elevation difference of landslide trail	6
Gully	N
Relict class	Broad depression (10% certain)
Easting	816203.616372
Northing	835307.125417

Facts and Figures

Slope Information System



Back

ENTLI No.	06NWA0182E
Type of slides	Relict
Width of main scarp	17
Length of landslide source	8
Slope	28.5
Vegetation cover	Completely in grass
Year landslide first observed	1963
Elevation of landslide crown	59
Elevation of landslide toe	55
Elevation difference of landslide trail	4
Gully	N
Relict class	Broad depression (10% certain)
Easting	816197.266359
Northing	835276.327855

Facts and Figures

Slope Information System



Back

ENTLI No.	06NWA0004E
Type of slides	Relict
Width of main scarp	17
Length of landslide source	11
Slope	38
Vegetation cover	Completely in grass
Year landslide first observed	1963
Elevation of landslide crown	58
Elevation of landslide toe	51
Elevation difference of landslide trail	7
Gully	N
Relict class	Scarp predominantly rounded (50% certain)
Easting	816121.701208
Northing	835285.535374

Facts and Figures

Slope Information System



Back

ENTLI No.	06NWA0539E
Type of slides	Recent open hillside
Width of main scarp	5
Length of landslide source	2.5
Slope	32.5
Vegetation cover	Totally bare
Year landslide first observed	1998
Elevation of landslide crown	77
Elevation of landslide toe	74
Elevation difference of landslide trail	3
Gully	N
Relict class	-
Easting	816105.260165
Northing	835245.53353

Facts and Figures

Slope Information System



Back

ENTLI No.	06NWA0005E
Type of slides	Relict
Width of main scarp	14
Length of landslide source	6.5
Slope	27
Vegetation cover	Completely in grass
Year landslide first observed	1963
Elevation of landslide crown	80
Elevation of landslide toe	75
Elevation difference of landslide trail	5
Gully	N
Relict class	Depression related to drainage line (10% certain)
Easting	816108.683682
Northing	835233.147769

Facts and Figures

Slope Information System



Back

ENTLI No.	06NWA0184E
Type of slides	Relict
Width of main scarp	19
Length of landslide source	7.5
Slope	45
Vegetation cover	Completely in grass
Year landslide first observed	1963
Elevation of landslide crown	111
Elevation of landslide toe	104
Elevation difference of landslide trail	7
Gully	N
Relict class	Depression related to drainage line (10% certain)
Easting	816125.828716
Northing	835144.565092

Facts and Figures

Slope Information System



Back

ENTLI No.	06NWA0516E
Type of slides	Recent debris flow
Width of main scarp	6
Length of landslide source	5
Slope	29
Vegetation cover	Totally bare
Year landslide first observed	1989
Elevation of landslide crown	91
Elevation of landslide toe	66
Elevation difference of landslide trail	25
Gully	N
Relict class	-
Easting	816134.848035
Northing	835171.125499

Facts and Figures

Slope Information System



Back

ENTLI No.	06NWA0185E
Type of slides	Relict
Width of main scarp	7
Length of landslide source	5.5
Slope	31
Vegetation cover	Completely in grass
Year landslide first observed	1963
Elevation of landslide crown	88
Elevation of landslide toe	85
Elevation difference of landslide trail	3
Gully	N
Relict class	Scarp predominantly rounded (50% certain)
Easting	816151.228767
Northing	835177.267657

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ENTLI No.	06NWA0593E
Type of slides	Recent open hillside
Width of main scarp	6
Length of landslide source	4
Slope	38.5
Vegetation cover	Totally bare
Year landslide first observed	2000
Elevation of landslide crown	84
Elevation of landslide toe	77
Elevation difference of landslide trail	7
Gully	N
Relict class	-
Easting	816157.226539
Northing	835184.347454

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ENTLI No.	06NWA0186E
Type of slides	Relict
Width of main scarp	8
Length of landslide source	6.5
Slope	37.5
Vegetation cover	Completely in grass
Year landslide first observed	1963
Elevation of landslide crown	78
Elevation of landslide toe	73
Elevation difference of landslide trail	5
Gully	N
Relict class	Scarp predominantly rounded (50% certain)
Easting	816166.151297
Northing	835194.412691

Appendix C

Historical Landslide Catchment Inventory retrieved
from SIS of CEDD

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Catchment No.	6NW-A/OH 28
Plan area of the catchment (Sq. m)	3953
Maximum elevation difference (m)	31
Total number of relict ENTLI records within the catchment	3
Total number of recent ENTLI records within the catchment	0
The length of the longest relict ENTLI record within the catchment (m)	8
The length of the longest recent ENTLI record within the catchment (m)	0
The length of the longest ENTLI record within the catchment (m)	8
The total length of the all ENTLI record within the catchment (m)	19



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Catchment No.	6NW-A/OH 29
Plan area of the catchment (Sq. m)	885
Maximum elevation difference (m)	22
Total number of relict ENTLI records within the catchment	1
Total number of recent ENTLI records within the catchment	0
The length of the longest relict ENTLI record within the catchment (m)	8
The length of the longest recent ENTLI record within the catchment (m)	0
The length of the longest ENTLI record within the catchment (m)	8
The total length of the all ENTLI record within the catchment (m)	8

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Catchment No.	6NW-A/DF 4
Plan area of the catchment (Sq. m)	18971
Maximum elevation difference (m)	90
Total number of relict ENTLI records within the catchment	7
Total number of recent ENTLI records within the catchment	3
The length of the longest relict ENTLI record within the catchment (m)	11
The length of the longest recent ENTLI record within the catchment (m)	52
The length of the longest ENTLI record within the catchment (m)	52
The total length of the all ENTLI record within the catchment (m)	123
