

## **APPENDIX D**

### **Geotechnical Planning Review Report**

**Geotechnical Planning Review Report**  
**for**  
**Application for Permission under Section 16 of The Town**  
**Planning Ordinance (Cap.131)**  
**For Minor Relaxation of Building Height Restriction from**  
**2 Storeys to 4 Storeys for Proposed 4-Storey**  
**Columbarium at Part of Inland Lot No. 7755 RP and**  
**Government Land sandwiched between Inland Lot No.**  
**7755 RP and Inland Lot No. 7713**  
**Cape Collinson Road, Chai Wan**

**March 2024**

***Philip So & Associates Consulting Civil & Geotechnical Engineers Ltd.***

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## 1. INTRODUCTION

Philip So & Associates Ltd. was appointed to carry out Geotechnical Planning Review Report (GPRR) for the application for permission under Section 16 of the Town Planning Ordinance (Cap.131) for minor relaxation of building height restriction of part of Inland Lot No. 7755 RP (IL 7755 RP) and Government Land sandwiched between IL 7755 RP and IL 7713 (hereafter collectively called "the Site") for a 4-storey columbarium at Cape Collinson Road, Chai Wan.

This 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.

## 2. THE SITE AND NEARBY MAN-MADE SLOPE FEATURES

The site is at a relatively flat ground at Cape Collinson Road, Chai Wan. Site photos taken in February 2024 are presented in Appendix A (see Photos A to D). General view and close up view of the Site is shown on Photo A, B, C and D. The location plan and the aerial view of the Site is presented in Figures 1 and 2, respectively.

According to the available SIMAR reports retrieved from Lands Department and SIS records obtained from Geotechnical Engineering Office (GEO), there are 8 nos. of registered geotechnical features lies within or in the vicinity of the site (see Figure 3). The features and the responsible lot/party are tabulated below:

Feature No.	Sub-division No.	Responsible Lot/Party
11SE-D/C69 (Photo E)	1	Lands Department
	2	IL7713
11SE-D/C123 (Photo F)	1	Highways Department
	2	IL7713
11SE-D/FR111 (Photo G)	1	Water Supplies Department
11SE-D/R64 (Photo H)	1	IL 7755 RP
11SE-D/R65 (Photo I)	1	IL 7755 RP
11SE-D/C345 (Photo J)	1	IL 7755 RP
11SE-D/R63 (Photo K)	1	IL 7755 RP
11SE-D/CR341 (Photo L)	1	IL 7755 RP

A copy of the SIMAR reports and slope records are enclosed in Appendix B and C, respectively. The location of the above captioned features is also presented in Figure 3.

### **3. DESK STUDY**

Desk study has been carried out to search and review the existing building records, previous ground investigation data and geotechnical study reports kept by the Geotechnical Information Unit (GIU) of Geotechnical Engineering Office (GEO) and the Buildings Department (BD).

#### **3.1 Geological Maps**

The geology of the Site is shown on the Hong Kong Geological Survey (HKGS) Map Sheet 11 (Hong Kong & Kowloon), 1:20,000-scale HGM20 series. The local geology of the Site is presented in Figure 4 and described below.

##### **3.1.1 Solid Geology**

The 1:20,000 scale geological maps indicated that regional area around the Site is underlain by eutaxitic fine ash vitric Tuff (Krc\_fvt) of the Che Kwu Shan Formation under the Repulse Bay Volcanic Group in Early Cretaceous.

##### **3.1.2 Superficial Geology**

No superficial deposits has been recorded within or in the vicinity of Site.

##### **3.1.3 Structural Geology**

No fault has been recorded within or in the vicinity of the Site. Two photolineaments have been recorded 12m and 36m to the northwest and southwest of the Site.

#### **3.2 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 two relict landslides (ENTLI Nos. 11SED0090E & 11SED0091E) to the southeast of the Site (Figure 5). The width of main scarp of ENTLI No. 11SED0090E is about 19m and the length of landslide source is about 17.5m, whilst the width of main scarp of ENTLI No. 11SED0091E is about 19m and the length of landslide source is about 48.5m. The slope angles of ENTLI Nos. 11SED0090E & 11SED0091E are about 32.5 and 23.5 degree respectively. These two relict landslides were first observed in year 1963.

### 3.3 Historical Landslide Catchment (HLC) Inventory

Historical Landslide Catchments (HLCs) have been defined by GEO based on the results of the ENTLI. According to the ENTLI inventory, the Site encroached a small portion of a HLC no. 11SE-D/OH18 at its south-eastern corner (Figure 5). The plan area of the HLC catchment is about 3941sq.m.

### 3.4 Reported Landslide Incidents

No landslide incident record has been recorded within the Site. However, two landslide incidents have been reported in the vicinity of the Site which were retrieved and summarized below:

GCO/GEO Incident No.	Date Report Received	Location of Failure	Approx. Failure Volume (m <sup>3</sup> )
2017/04/1005WS (about 56m to the southeast of the Site)	4/3/2017	11SE-D/CR350	0.8
HK2000/8/28 (about 28m to the north of the Site)	25/8/2000	11SE-D/FR111	45

The locations of the landslide incidents are presented in Figure 5.

### 3.5 Relevant Previous Ground Investigation Works

No previous ground investigation has been taken place within the Site. The previous ground investigation reports adjacent to the Site have been retrieved and summarized below:

GIU Report No.	GI Station Nos:	Report Title	GI Stations related to Feature No.
22620	BH1, BH2, BH3, BH4, HH7, HH8	Geotechnical Report Proposed Extensions, Buddhist Cemetery Cape Collinson Road	11SE-D/CR341 & 11SE-D/C122
22623	VH1	Proposed Carpark, Buddhist Cemetery Cape Collinson Road, Hong Kong Geotechnical Report	-

The details of previous ground investigation logs are presented in Appendix D and the locations of the previous GI is shown in Figure 6.

### 3.6 DH Orders

No DH Order relevant to the man-made features has been issued within or in the vicinity of the Site.

### 3.7 Stage 2 Studies

The Stage 2 Studies carried out for the features in the vicinity of the Site are summarized below:

Stage 2 Report No.	Feature No.	Prepared in	Result
S2R174/2001	11SE-D/C345	November 2001	Advisory letter issued
S2R174/2001	11SE-D/CR341	November 2001	No action required

### 3.8 Stage 3 Studies

According to the GIU, no Stage 3 Studies has been carried out for the features within or in the vicinity of the Site.

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## **4. IMPACTS OF PROPOSED WORKS ON EXISTING SLOPES/RETAINING WALLS & NATURAL HILLSIDE**

### **4.1 Feature No. 11SE-D/C69**

The proposed development has impact only on a small portion of the registered man-made cut slope Feature no. 11SE-D/C69, which is located at north-eastern end of the Site. Based on the SIMAR record, only sub-division no. 1 of the feature is located within the site. According to the SIS record, the feature is about 110m long and 13m high with slope gradient ranging at about 50° to the horizontal.

Small portion of Feature 11SE-D/C69 together with the natural hillside along the southern boundary of the Site will be excavated for the proposed development, further detailed of the slope stability assessment shall be covered in the next stage of the project, i.e. the geotechnical assessment report.

### **4.2 Impacts from the Proposed Works to the Natural Hillside**

As mentioned in Section 3.2 and 3.3, the ENTLI has recorded two relict landslides (ENTLI Nos. 11SED0090E & 11SED0091E) to the southeast of the Site and a HLC catchment no. 11SE-D/OH18 is partially located within the southern portion of the Site. The potential hazards from the natural hillside have to be checked with respect to the proposed development. The proposed extent of natural terrain hazard study area is presented in Figure 7. The angular elevation from the natural hillside overlooking the proposed development site is fall within the alert criteria which means a natural terrain hazard study is required in the next stage of the project. If found necessary, appropriate mitigation works have to be proposed, including construction of rigid/flexible barriers, to meet the current geotechnical standard.

### **4.3 Existing Features at Site**

Several small rubble walls and footbridges are existing at the proposed site location (Photo B). These features appeared to be abandoned. They will be removed during site formation.

## 5. CONCLUSION

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 is unlikely posting particular problems to the surrounding area under careful planning, proper execution and vigilant supervision.

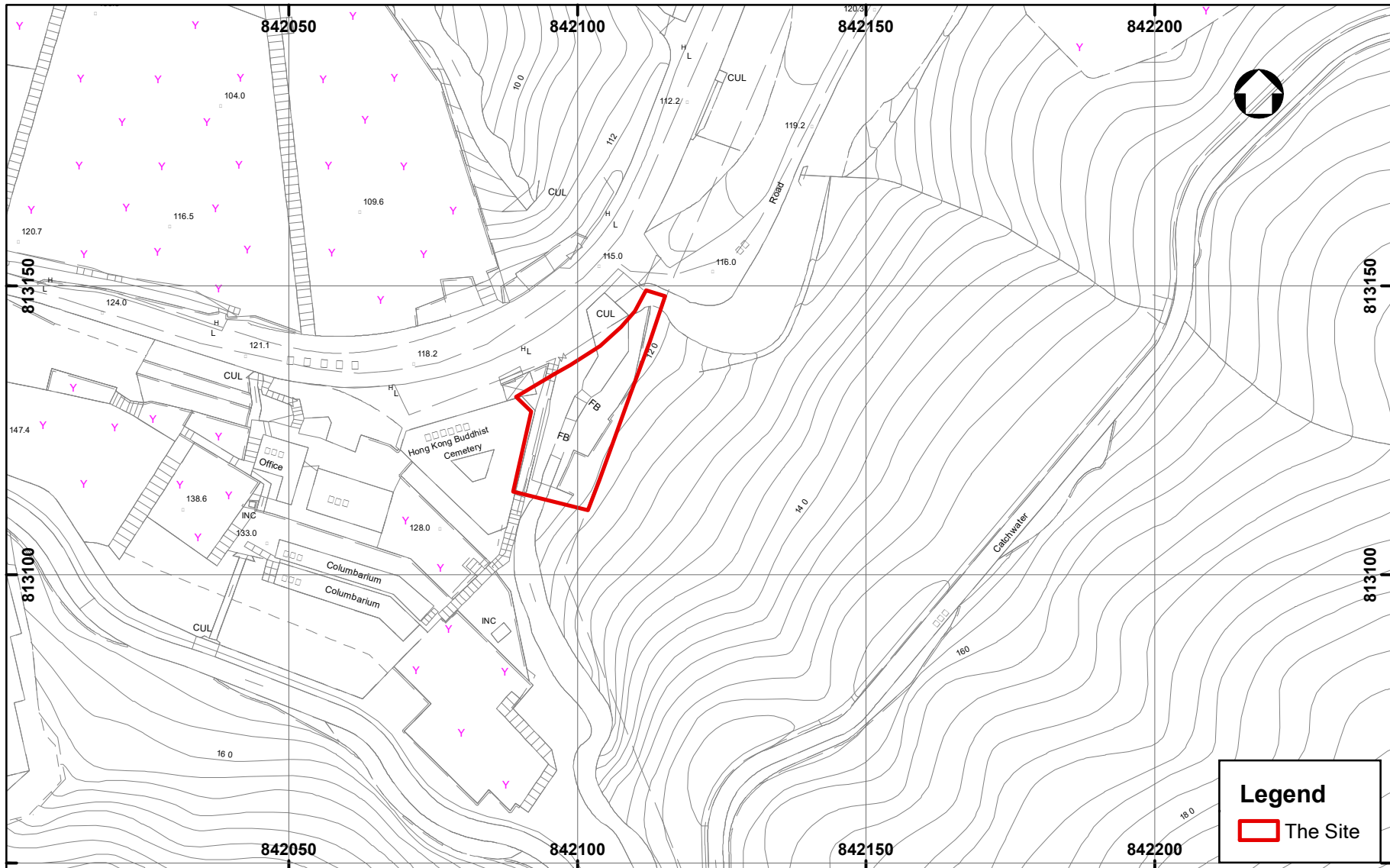
It is essential to search and review the background information of existing building, geotechnical features and underground services within and in the vicinity of the site. Site investigation is proposed to reveal/confirm the subsoils and the ground regime within and in the vicinity of the site as well 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.

For safety and cost effective, the foundation design and excavation planning as well as the design of geotechnical structure should be based on geological horizons inferred from the ground investigation results, groundwater table interpreted from the piezometer/standpipe monitoring records and geotechnical parameters determined and adopted by field and laboratory testing.


A comprehensive precautionary monitoring program including settlement markers, tiling, vibration check points as well as groundwater observation wells shall be implemented to ensure demolition of foundation of existing buildings and substructure construction being carried out safety and soundly.

A natural terrain hazard study will be carried out in the next stage of the project to investigate any potential natural terrain hazard will pose to the proposed development and subsequence mitigation measures to mitigate the hazard if found necessary .

## **FIGURES**



**PROJECT:** Proposed Columbarium Development at Part of IL 7755 RP and Government Land sandwiched between IL 7755 RP and IL 7713

<p><b>TITLE:</b> Location Plan of the Proposed Site</p>	<p><b>SCALE:</b> 1 : 1000</p>	<p><b>Philip So &amp; Associates Limited</b> In associaton with  </p>	<p><b>FIGURE NO :</b> <b>FIGURE 1</b></p>
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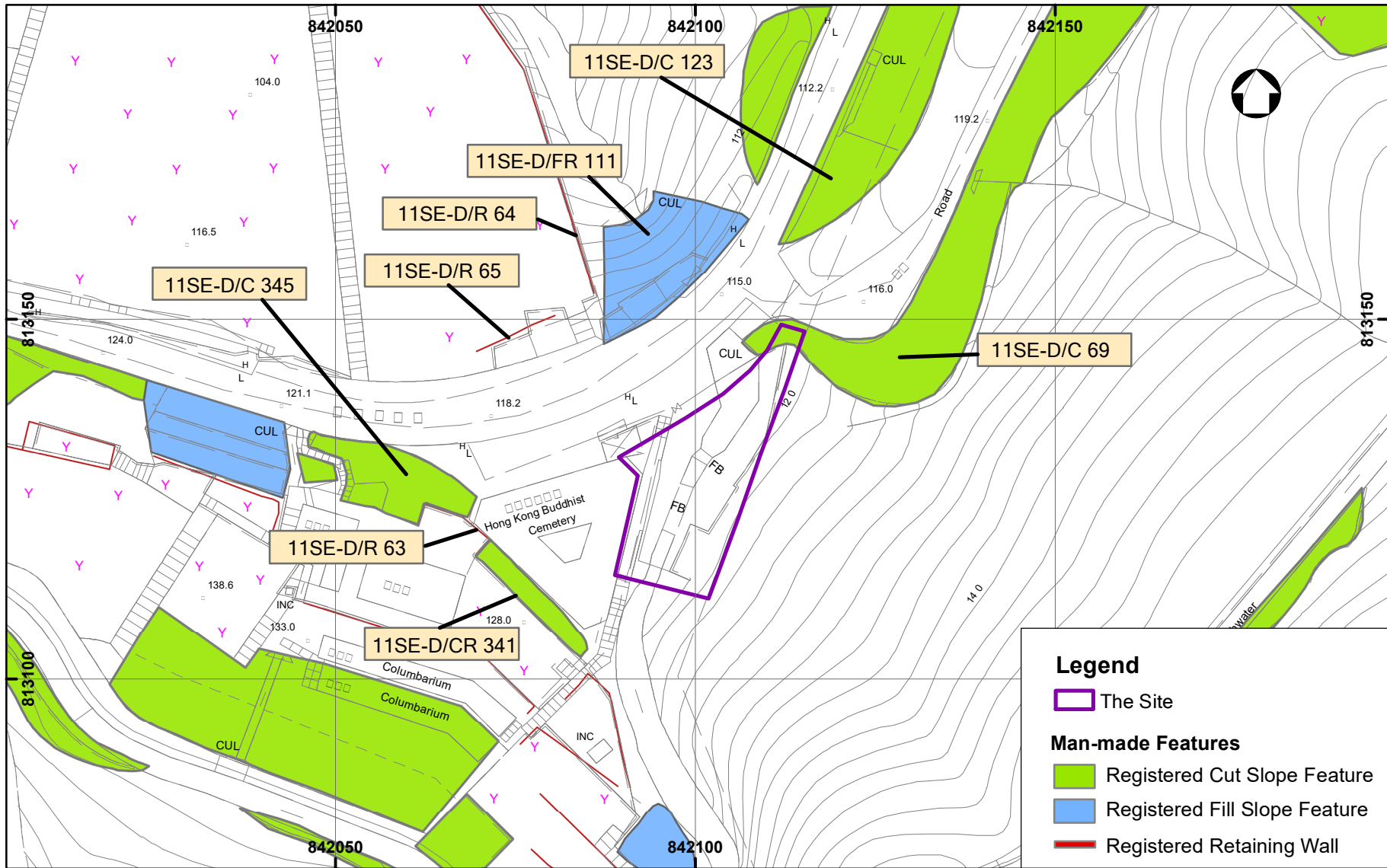
**PROJECT:** Proposed Columbarium Development at Part of IL 7755 RP and Government Land sandwiched between IL 7755 RP and IL 7713

**TITLE:** Aerial View of the Proposed Development Site

**SCALE:**  
1 : 1000

**Philip So & Associates Limited**  
In associaton with  


**FIGURE NO :**  
**FIGURE 2**



**PROJECT:** Proposed Columbarium Development at Part of IL 7755 RP and Government Land sandwiched between IL 7755 RP and IL 7713

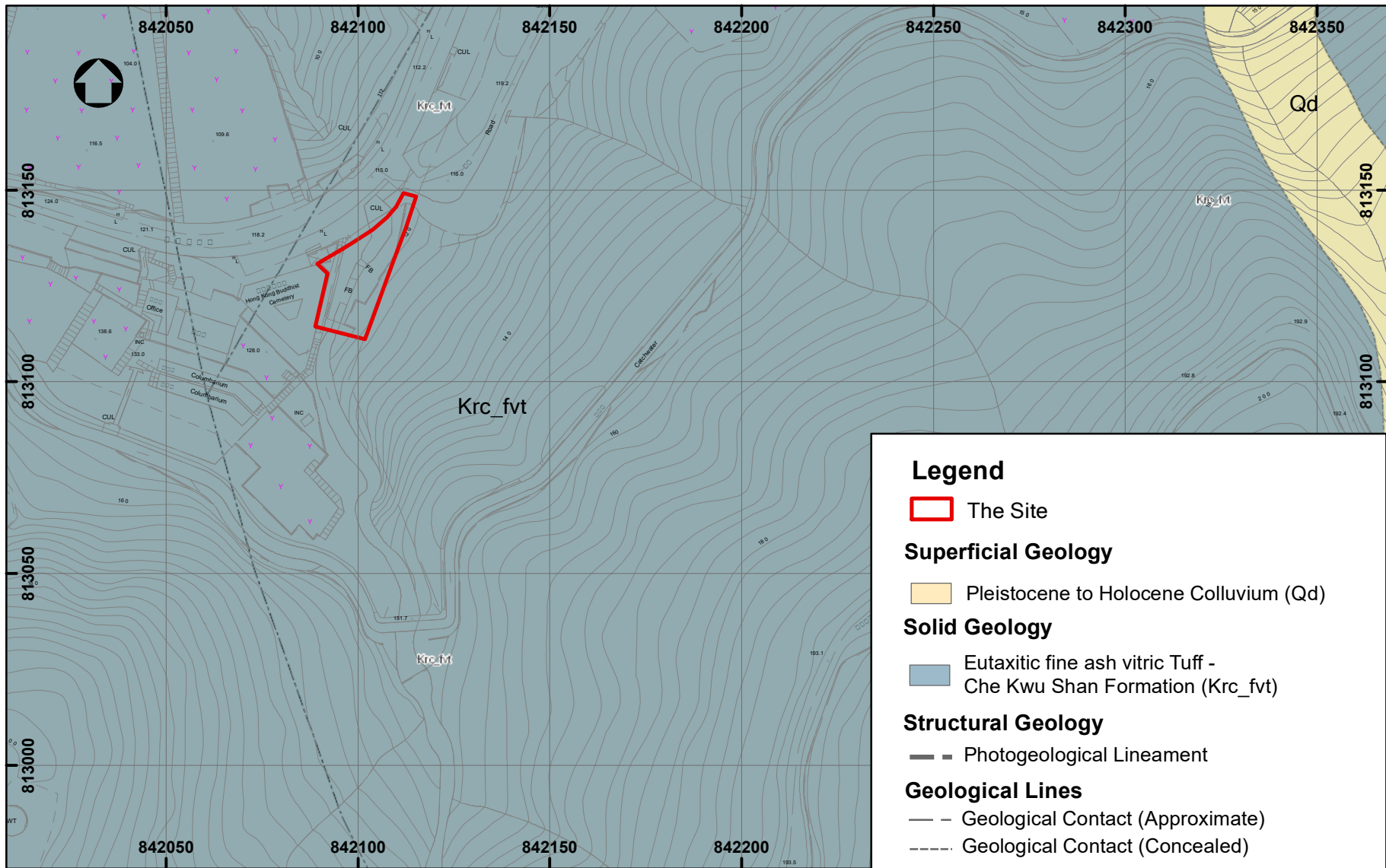
**TITLE:** Registered Man-made Features

**SCALE:**  
1 : 800

**Philip So & Associates Limited**  
In associaton with  


**FIGURE NO :**  
**FIGURE 3**





**PROJECT:** Proposed Columbarium Development at Part of IL 7755 RP and Government Land sandwiched between IL 7755 RP and IL 7713

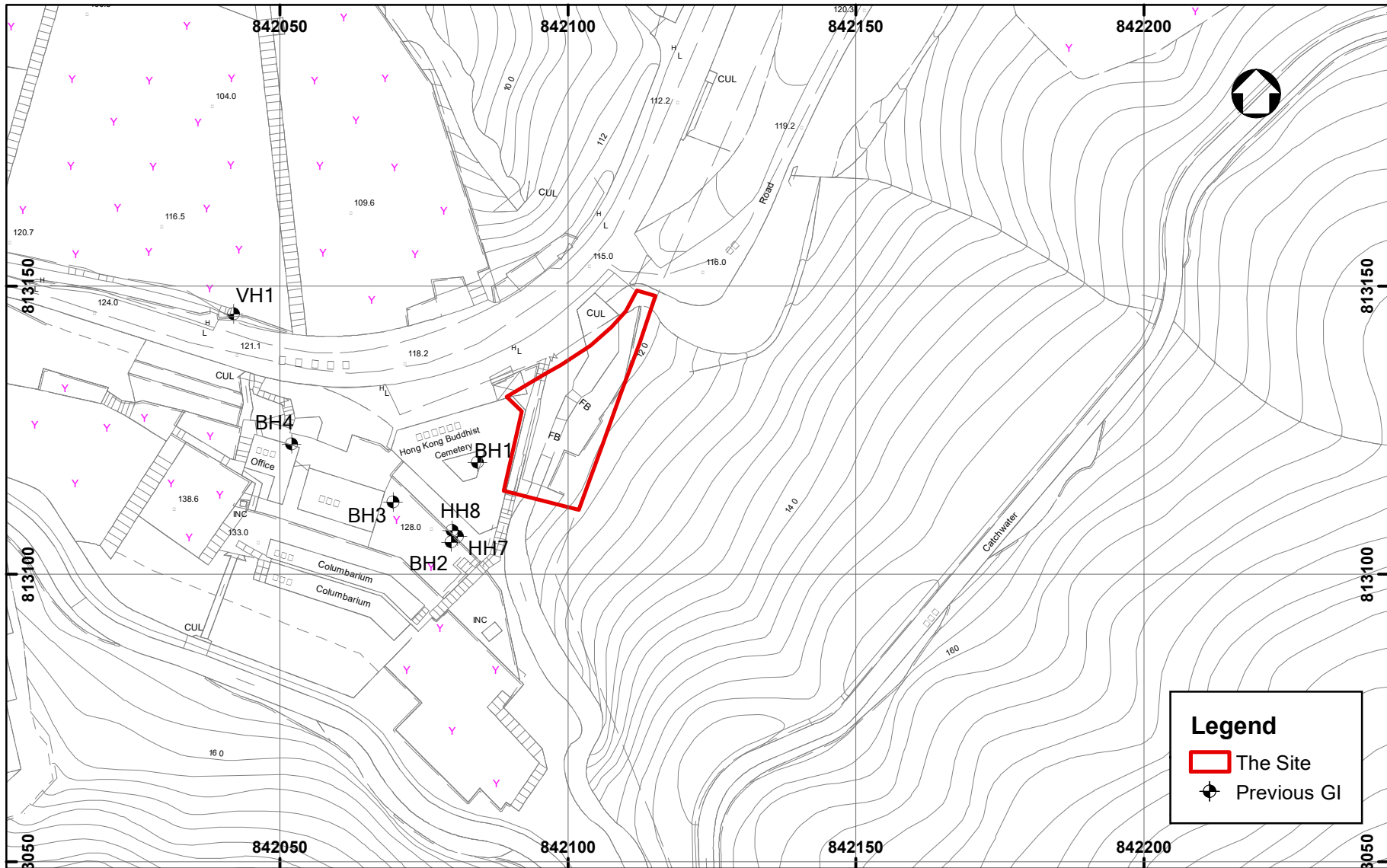
**TITLE:** Geological Map

**SCALE:**  
1 : 1500


**Philip So & Associates Limited**  
In associaton with 

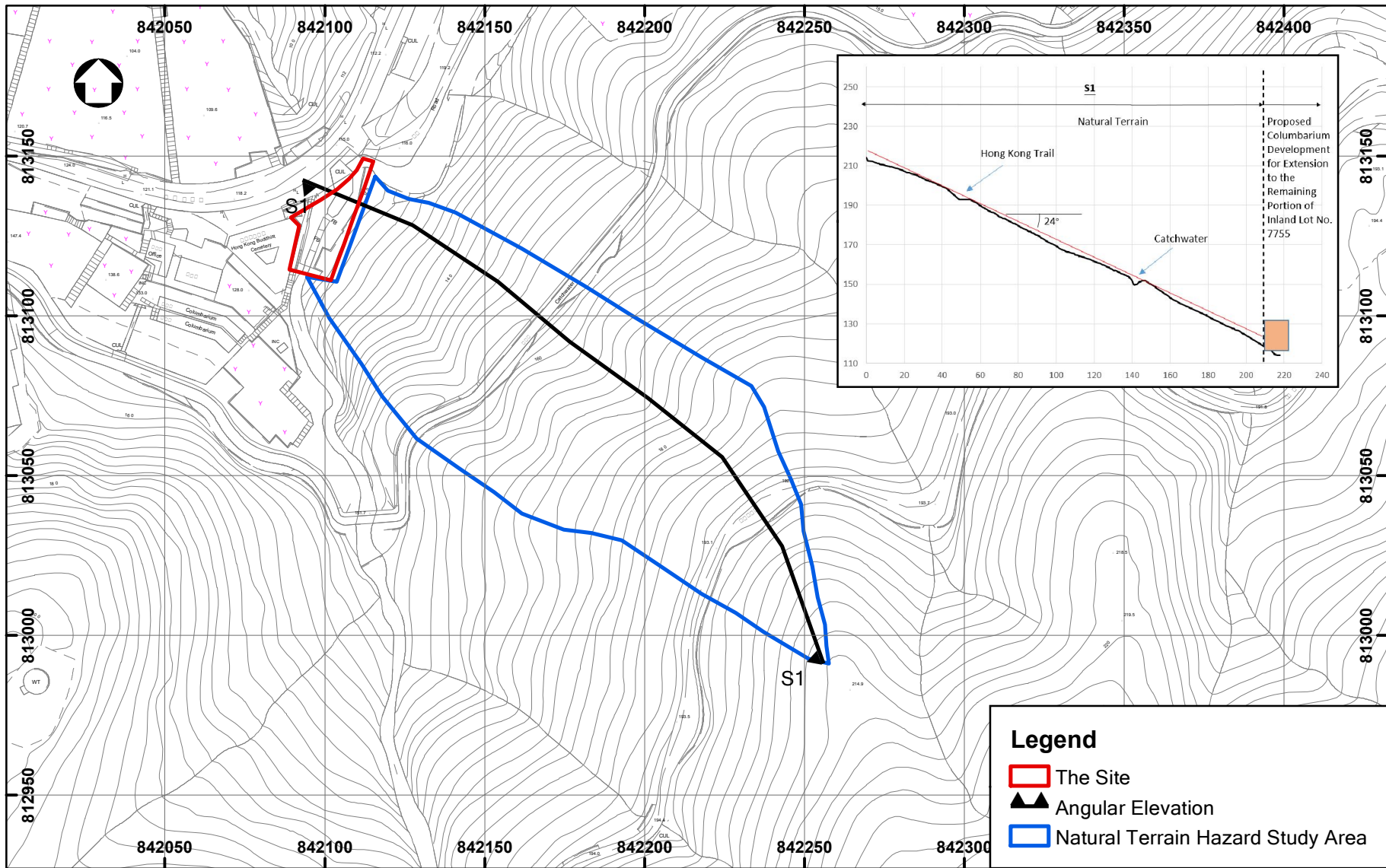
**FIGURE NO :**  
**FIGURE 4**





**PROJECT:** Proposed Columbarium Development at Part of IL 7755 RP and Government Land sandwiched between IL 7755 RP and IL 7713

<p><b>TITLE:</b> Location Plan of Previous GI</p>	<p><b>SCALE:</b> 1 : 1000</p>	<p><b>Philip So &amp; Associates Limited</b> In associaton with  </p>	<p><b>FIGURE NO :</b> <b>FIGURE 6</b></p>
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**PROJECT:** Proposed Columbarium Development at Part of IL 7755 RP and Government Land sandwiched between IL 7755 RP and IL 7713

**TITLE:** Natural Terrain Hazard Study Area

**SCALE:**  
1 : 1800

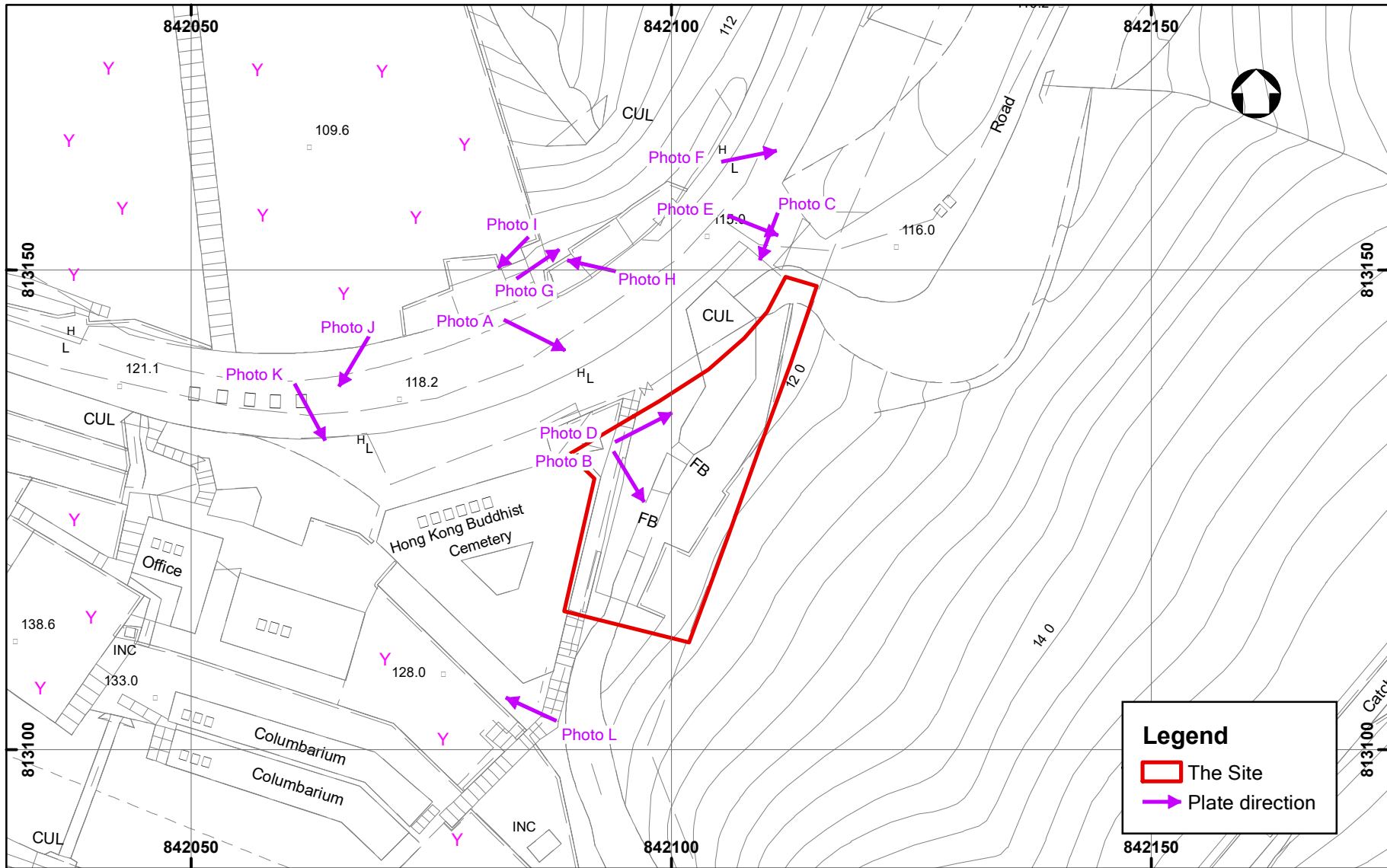
**Philip So & Associates Limited**  
In associaton with  


**FIGURE NO :**  
**FIGURE 7**

# **Appendix A**

Photographs





**PROJECT:** Proposed Columbarium Development at Part of IL 7755 RP and Government Land sandwiched between IL 7755 RP and IL 7713

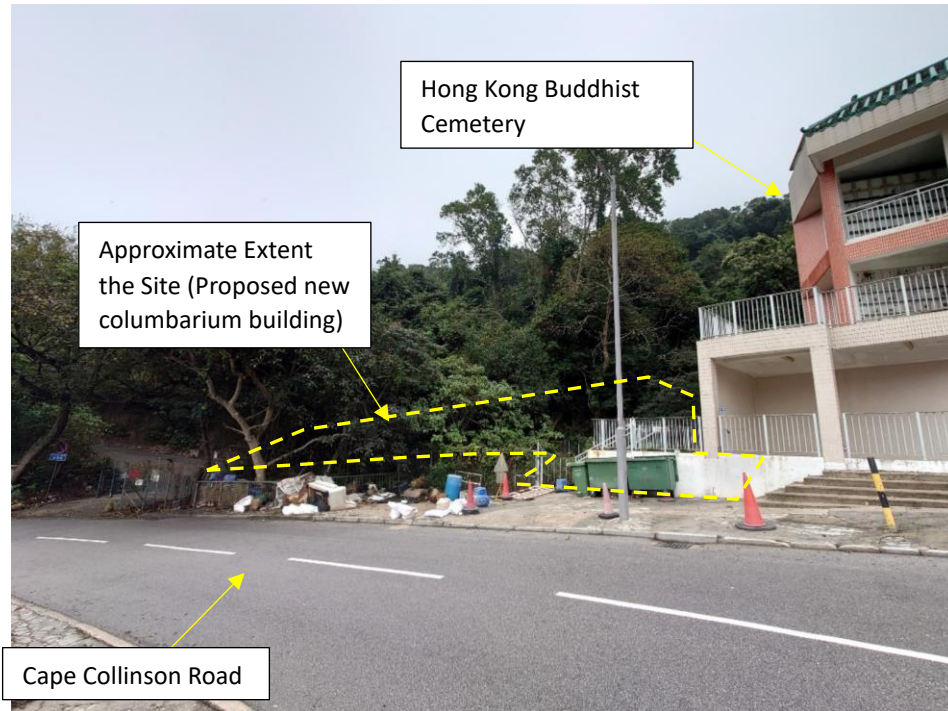
**TITLE:** Plate Direction

**SCALE:**  
1 : 600

**Philip So & Associates Limited**  
In associaton with  


**FIGURE NO :**  
**FIGURE A1**





**Photo A – General view of the Site**



**Photo B – Close up view of the Southern Portion of the Site (looking south)**





**Photo C – Close up view of the Northern Portion of the Site (looking west)**



**Photo D – Close up view of the Northern Portion of the Site (looking east)**





**Photo E – General View of the Feature No. 11SE-D/C69**



**Photo F – General View of the Feature No. 11SE-D/C123**





**Photo G – General View of the Feature No. 11SE-D/FR111**



**Photo H – General View of the Feature No. 11SE-D/R64**





**Photo I – General View of the Feature No. 11SE-D/R65**



**Photo J – General View of the Feature No. 11SE-D/C345**



**Photo K – General View of the Feature No. 11SE-D/R63**



**Photo L – General View of the Feature No. 11SE-D/CR341**

## **Appendix B**

SIMAR Record



# Slope Maintenance Responsibility Report

(11SE-D/R65)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

<b>1</b>	<b>11SE-D/R65</b>	<b>Sub-Division</b>	Not Applicable	
	<b>Location</b>	Within IL7755 RP		
	<b>Responsible Lot/Party</b>	IL 7755 RP	<b>Maintenance Agent</b>	Not Applicable
	<b>Remarks</b>	Not Applicable		

- End of Report -

### Notes:

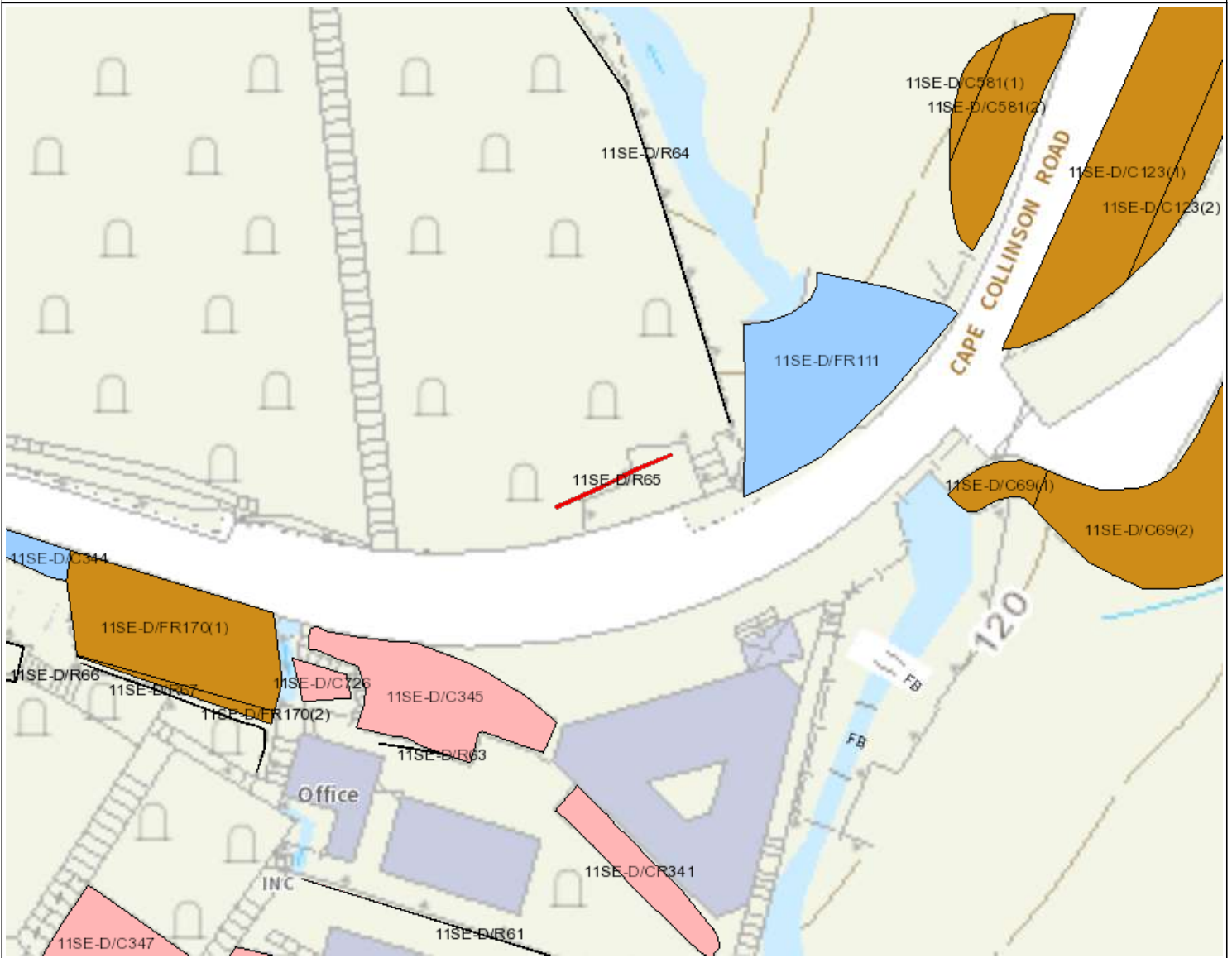
- (i) The location plan in Annex is for identification purposes of slope(s) only.
- (ii) The slope(s) as listed in the Slope Maintenance Responsibility Report may not be shown on the location plan in Annex.

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Search Criteria: 11SE-D/R65



**Location Plan**



**Legend**

-  Slope Area(s)
-  Search Location
-  Slope(s) Maintained by Government
-  Slope(s) Maintained by Private Party/Parties
-  Slope(s) Maintained by Government and Private Party/Parties



**ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT**

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# Slope Maintenance Responsibility Report

(11SE-D/R64)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

<b>1</b>	<b>11SE-D/R64</b>	<b>Sub-Division</b>	Not Applicable	
	<b>Location</b>	Within IL7755 RP		
	<b>Responsible Lot/Party</b>	IL 7755 RP	<b>Maintenance Agent</b>	Not Applicable
	<b>Remarks</b>	Not Applicable		

- End of Report -

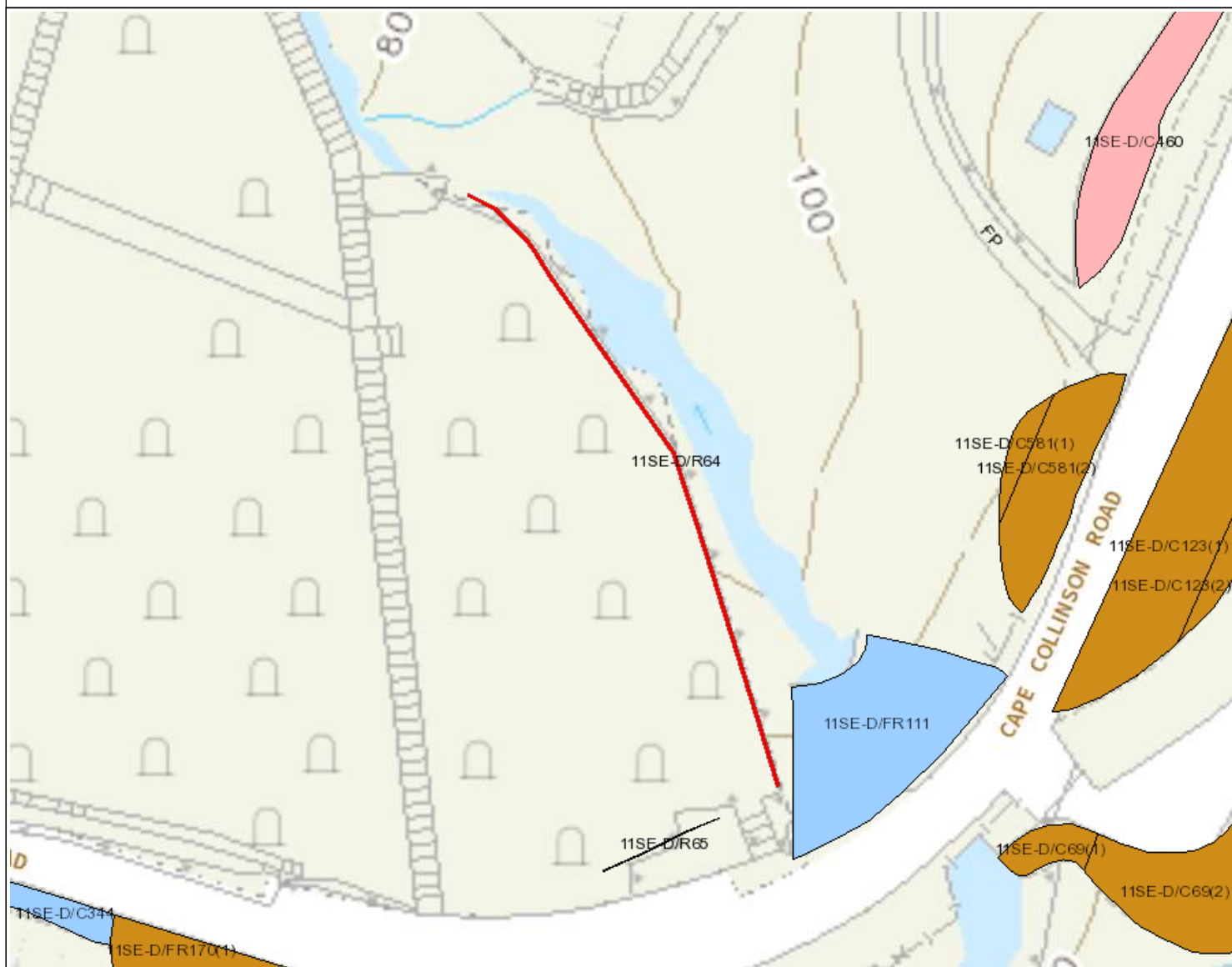
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Search Criteria: 11SE-D/R64

## Location Plan



## Legend

- Slope Area(s)
- Search Location
- Slope(s) Maintained by Government
- Slope(s) Maintained by Private Party/Parties
- Slope(s) Maintained by Government and Private Party/Parties



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# Slope Maintenance Responsibility Report

(11SE-D/R63)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

<b>1</b>	<b>11SE-D/R63</b>	<b>Sub-Division</b>	Not Applicable	
	<b>Location</b>	Within IL7755 RP		
	<b>Responsible Lot/Party</b>	IL 7755 RP	<b>Maintenance Agent</b>	Not Applicable
	<b>Remarks</b>	Not Applicable		

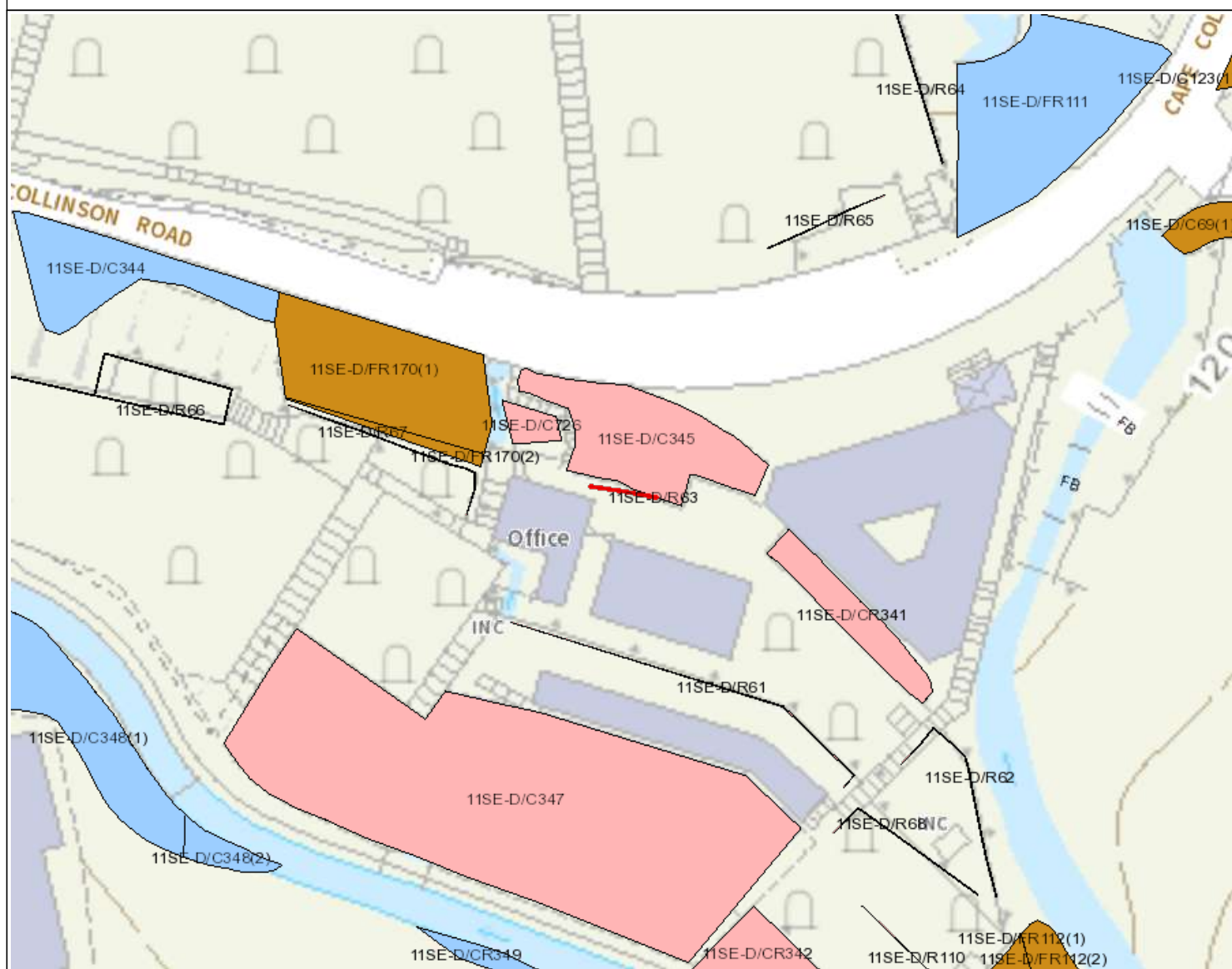
- End of Report -

### Notes:






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## Location Plan



## Legend

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-  Search Location
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-  Slope(s) Maintained by Private Party/Parties
-  Slope(s) Maintained by Government and Private Party/Parties



ESTATE MANAGEMENT SECTION  
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# Slope Maintenance Responsibility Report

(11SE-D/FR111)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

<b>1</b>	<b>11SE-D/FR111</b>	<b>Sub-Division</b>	Not Applicable
	<b>Location</b>	WITHIN WATER WORKS RESERVE BETWEEN IL7712 & IL7755	
	<b>Responsible Lot/Party</b>	Water Supplies Department	<b>Maintenance Agent</b> Water Supplies Department
	<b>Remarks</b>	For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent directly.	

- End of Report -

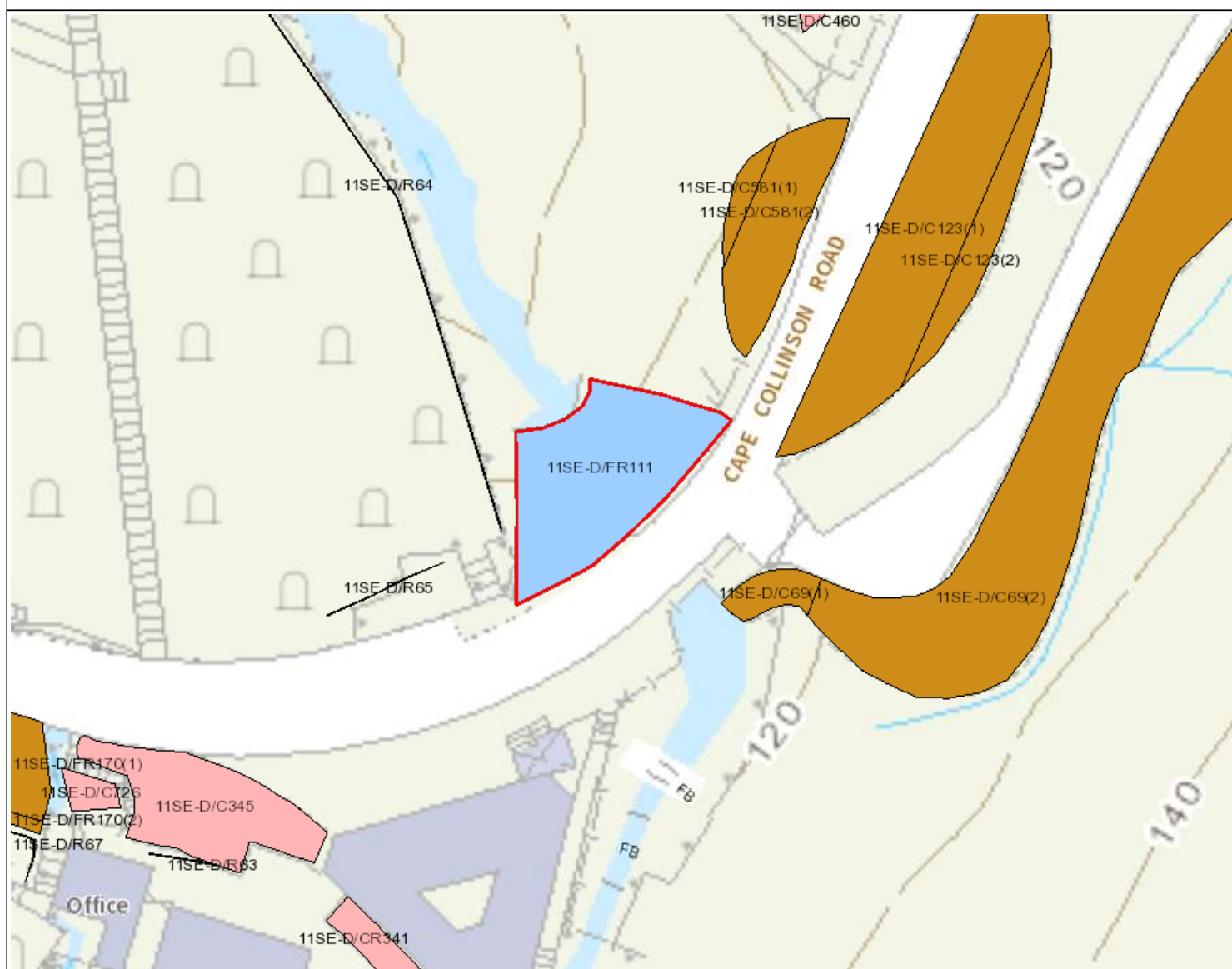
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## Location Plan



## Legend

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-  Search Location
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-  Slope(s) Maintained by Government and Private Party/Parties



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# Slope Maintenance Responsibility Report

(11SE-D/CR341)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

<b>1</b>	<b>11SE-D/CR341</b>	<b>Sub-Division</b>	Not Applicable
	<b>Location</b>	WITHIN IL7755RP, CHAI WAN	
	<b>Responsible Lot/Party</b>	IL7755RP	<b>Maintenance Agent</b> Not Applicable
	<b>Remarks</b>	Not Applicable	

- End of Report -

### Notes:

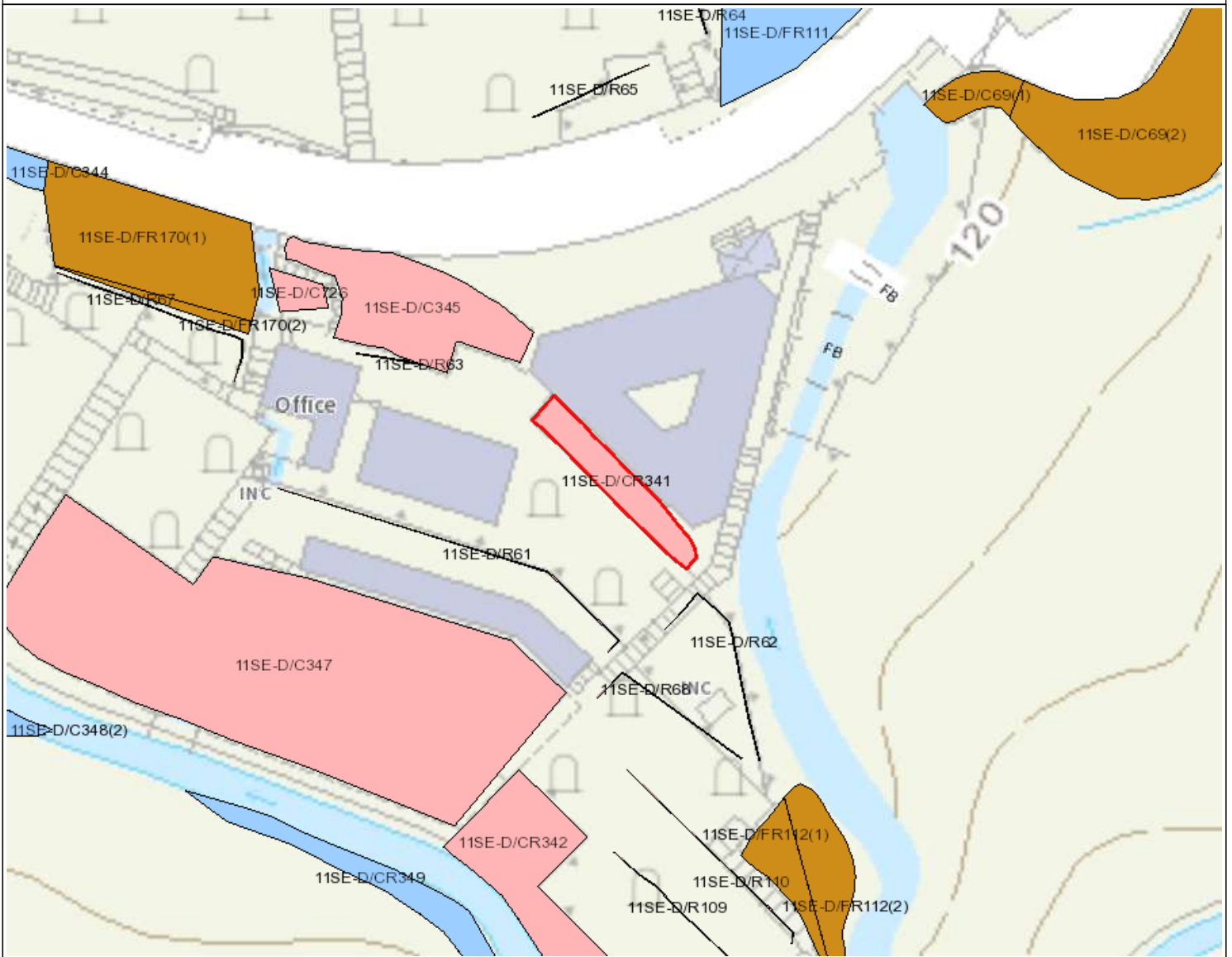
- (i) The location plan in Annex is for identification purposes of slope(s) only.
- (ii) The slope(s) as listed in the Slope Maintenance Responsibility Report may not be shown on the location plan in Annex.

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Search Criteria: 11SE-D/CR341



## Location Plan



## Legend

-  Slope Area(s)
-  Search Location
-  Slope(s) Maintained by Government
-  Slope(s) Maintained by Private Party/Parties
-  Slope(s) Maintained by Government and Private Party/Parties



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

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# Slope Maintenance Responsibility Report

(11SE-D/C345)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

<b>1</b>	<b>11SE-D/C345</b>	<b>Sub-Division</b>	Not Applicable
	<b>Location</b>	Partly within IL7755 RP and adjoining government land	
	<b>Responsible Lot/Party</b>	IL 7755 RP	<b>Maintenance Agent</b> Not Applicable
	<b>Remarks</b>	Not Applicable	

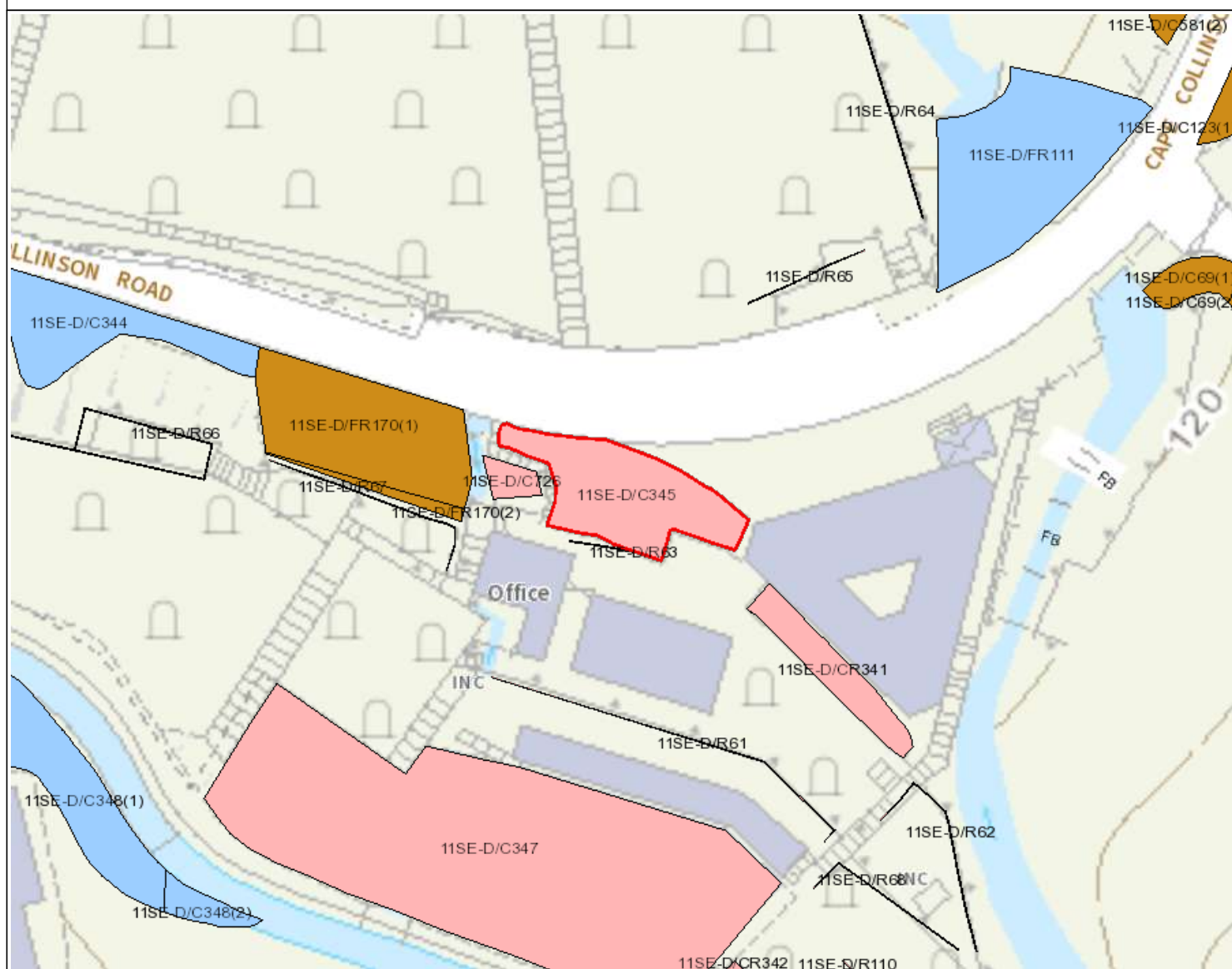
- End of Report -

### Notes:






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- (ii) The slope(s) as listed in the Slope Maintenance Responsibility Report may not be shown on the location plan in Annex.

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## Location Plan



## Legend

-  Slope Area(s)
-  Search Location
-  Slope(s) Maintained by Government
-  Slope(s) Maintained by Private Party/Parties
-  Slope(s) Maintained by Government and Private Party/Parties



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

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Search Criteria: 11SE-D/C345

# Slope Maintenance Responsibility Report

(11SE-D/C123)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

1	11SE-D/C123	Sub-Division	1	
	Location	ADJOINING CAPE COLLINSON RD & WITHIN IL7713		
	Responsible Lot/Party	Highways Department	Maintenance Agent	Highways Department
	Remarks	1. Slope information being reviewed. 2. For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent directly.		
2	11SE-D/C123	Sub-Division	2	
	Location	ADJOINING CAPE COLLINSON RD & WITHIN IL7713		
	Responsible Lot/Party	IL7713	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		

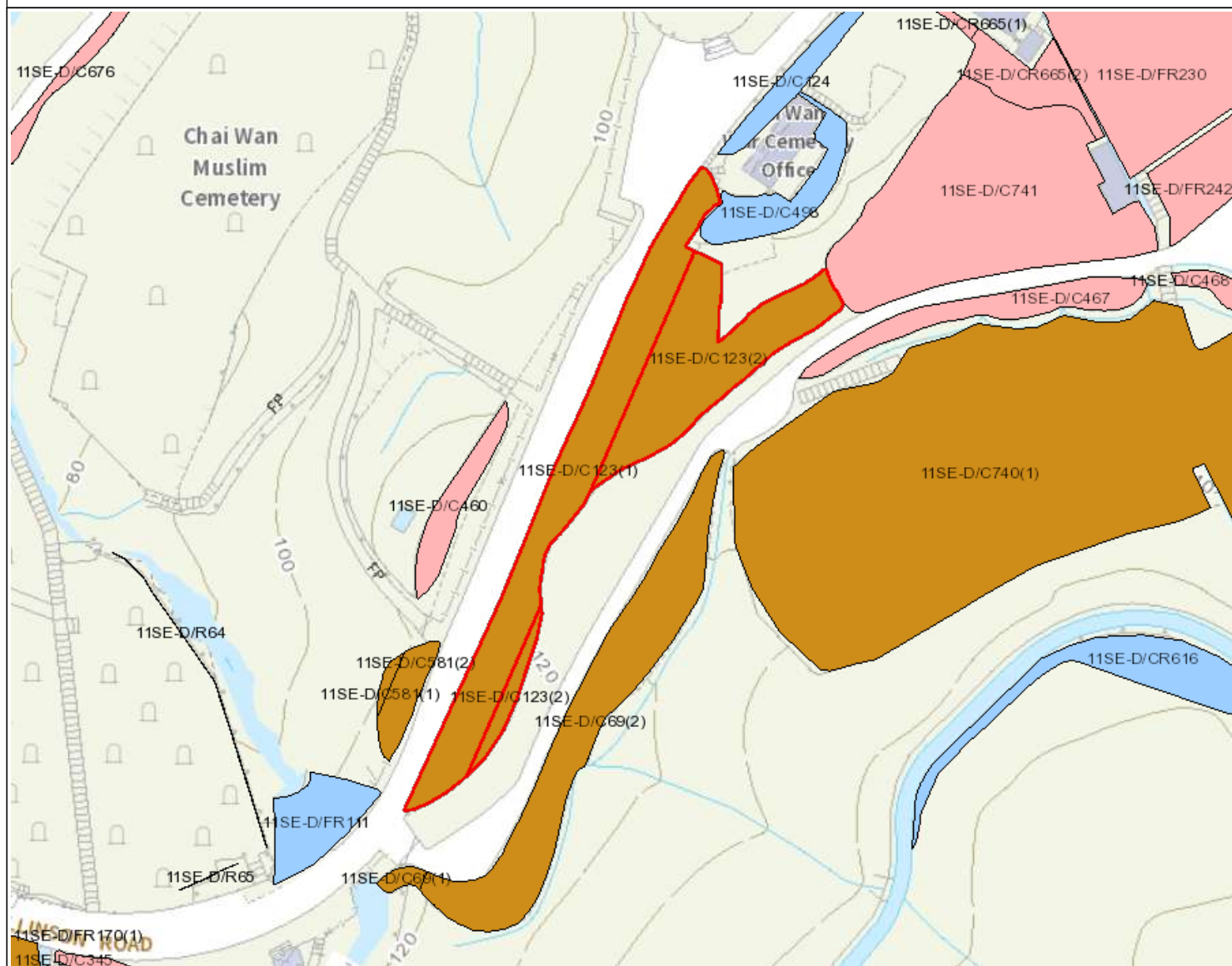
- End of Report -

### Notes:






- (i) The location plan in Annex is for identification purposes of slope(s) only.
- (ii) The slope(s) as listed in the Slope Maintenance Responsibility Report may not be shown on the location plan in Annex.

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## Location Plan



## Legend

-  Slope Area(s)
-  Search Location
-  Slope(s) Maintained by Government
-  Slope(s) Maintained by Private Party/Parties
-  Slope(s) Maintained by Government and Private Party/Parties



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

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# Slope Maintenance Responsibility Report

(11SE-D/C69)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

<b>1</b>	<b>11SE-D/C69</b>	<b>Sub-Division</b>	1
	<b>Location</b>	WITHIN IL7713 & GL	
	<b>Responsible Lot/Party</b>	Lands Department	<b>Maintenance Agent</b> Lands Department
	<b>Remarks</b>	For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent directly.	
<b>2</b>	<b>11SE-D/C69</b>	<b>Sub-Division</b>	2
	<b>Location</b>	WITHIN IL7713 & GL	
	<b>Responsible Lot/Party</b>	IL7713	<b>Maintenance Agent</b> Not Applicable
	<b>Remarks</b>	Not Applicable	

- End of Report -

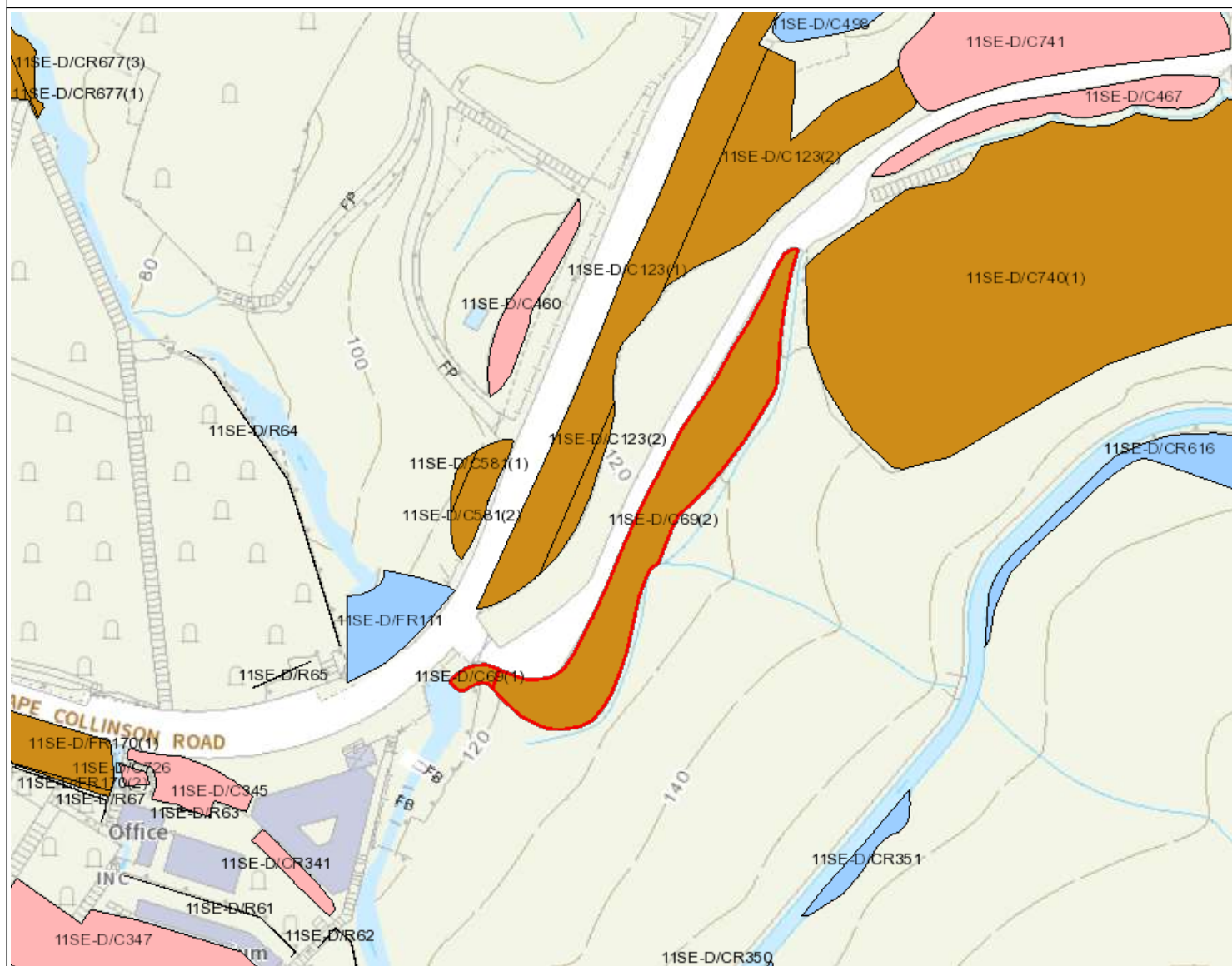
### Notes:

- (i) The location plan in Annex is for identification purposes of slope(s) only.
- (ii) The slope(s) as listed in the Slope Maintenance Responsibility Report may not be shown on the location plan in Annex.






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Search Criteria: 11SE-D/C69

## Location Plan



## Legend

-  Slope Area(s)
-  Search Location
-  Slope(s) Maintained by Government
-  Slope(s) Maintained by Private Party/Parties
-  Slope(s) Maintained by Government and Private Party/Parties



ESTATE MANAGEMENT SECTION  
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## **Appendix C**

Slope Records Retrieved from CEDD





## BASIC INFORMATION

Location: 100M NE OF TAI TAM GAP CORRECTIONAL INSTITUTION  
 Registration Date: 14-11-1997  
 Ranking Score (NPRS): 8 (Notional)  
 Date of Formation: post-1977  
 Date of Construction/ Modification:  
 Data Source: SIRST  
 Approximate Coordinates: Easting : 842075 Northing : 813148

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Non-dangerous goods storage site  
 Distance of Facility from Crest (m): 1  
 Facility at Toe: Densely-used playground  
 Distance of Facility from Toe (m): 1  
 Consequence-to-life Category: 2  
 Remarks: N/A

## SLOPE PART

N/A

## WALL PART

(1) Max. Height (m): 4 Length (m): 18 Face Angle (deg): 85

## MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0 Private Feature Party: IL 7755 RP Agent: N/A Land Cat.: 1 Reason Code: 1 MR Endorsement Date: 15-09-2015

## DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 12-03-1996  
 Data Source: SIRST  
 Slope Part Drainage: N/A  
 Wall Part Drainage: (1) Position: Toe Size(mm): 175

## SLOPE PART

N/A

## WALL PART



Wall Part (1)  
 Type of Wall: Wall Material: Concrete Wall Location: Retaining wall with level platform  
 Berm: No. of Berms: N/A Min. Berm Width (m): N/A  
 Weepholes: Size (mm): N/A Spacing (m): N/A

**SERVICES**

N/A

**CHECKING STATUS INFORMATION**

N/A

**BACKGROUND INFORMATION**

GIU Cell Ref.: 11SE24A1  
 Map Sheet Reference (1:1000): 11SE-24A  
 Aerial Photos: A35184-5 (1993),  
 Nearest Rainguage Station (Station Number): Wo Hing House, Hing Wah Estate(H14)  
 Data Collected On: 12-03-1996  
 Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1993 After: 1977  
 Related Reports/Files or Documents: N/A  
 Remarks: TOE CHANNEL APPEAR AT EAST OF WALL.  
 Follow Up Actions: N/A  
 DH-Order (To Be Confirmed with Buildings Department): None  
 Advisory Letter (To Be Confirmed with Buildings Department): None  
 LPMIS: None

**ENHANCED MAINTENANCE INFORMATION**

From Maintenance Department: (Last Updated Date: 25/09/2023)



## STAGE 1 STUDY REPORT

Inspected On:  
 Weather:  
 District: I  
 Section No: 1-1  
 Height(m):  
 Type of Toe Facility: Densely-used playground  
 Distance from Toe(m): 1  
 Type of Crest Facility: Non-dangerous goods storage site  
 Distance from Crest(m): 1  
 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: SOUTHEASTERN MARGIN OF THE BUDDHIST CEMETERY CAPE COLLINSON ROAD, HONG KONG  
 Registration Date: 14-11-1997  
 Ranking Score (NPRS): 0 (Notional)  
 Date of Formation: pre-1977  
 Date of Construction/ Modification:  
 Data Source: SIRST  
 Approximate Coordinates: Easting : 842076 Northing : 813185

**CONSEQUENCE-TO-LIFE CATEGORY**

Facility at Crest: Cemetery  
 Distance of Facility from Crest (m): 0  
 Facility at Toe: Remote area or abandoned facilities  
 Distance of Facility from Toe (m): 0  
 Consequence-to-life Category: 3  
 Remarks: N/A

**SLOPE PART**

N/A

**WALL PART**

(1) Max. Height (m): 6 Length (m): 70 Face Angle (deg): 85

**MAINTENANCE RESPONSIBILITY**

(1) Sub Div.: 0 Private Feature Party: IL 7755 RP Agent: N/A Land Cat.: 1 Reason Code: 1 MR Endorsement Date: 15-09-2015

**DETAILS OF SLOPE / RETAINING WALL**

Date of Inspection: 13-01-1998  
 Data Source: SIRST  
 Slope Part Drainage: N/A  
 Wall Part Drainage: (1) Position: Stepped Size(mm): 175  
 (2) Position: Toe Size(mm): 325

**SLOPE PART**

N/A

**WALL PART**



Wall Part (1)  
 Type of Wall: Wall Material: Masonry Wall Location: Retaining wall with level platform  
 Berm: No. of Berms: N/A Min. Berm Width (m): N/A  
 Weepholes: Size (mm): N/A Spacing (m): N/A

**SERVICES**

N/A

**CHECKING STATUS INFORMATION**

N/A

**BACKGROUND INFORMATION**

GIU Cell Ref.: 11SE24A1  
 Map Sheet Reference (1:1000): 11SE-24A  
 Aerial Photos: 5660 (1967), 5661 (1967)  
 Nearest Rainguage Station (Station Number): Wo Hing House, Hing Wah Estate(H14)  
 Data Collected On: 13-01-1998  
 Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1967 After: N/A  
 Related Reports/Files or Documents: N/A  
 Remarks: N/A  
 Follow Up Actions: N/A  
 DH-Order (To Be Confirmed with Buildings Department): None  
 Advisory Letter (To Be Confirmed with Buildings Department): None  
 LPMIS: None

**ENHANCED MAINTENANCE INFORMATION**

From Maintenance Department: (Last Updated Date: 25/09/2023)



## STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: I

Section No: 1-1

Height(m):

Type of Toe Facility: Remote area or abandoned facilities

Distance from Toe(m): 0

Type of Crest Facility: Cemetery

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:

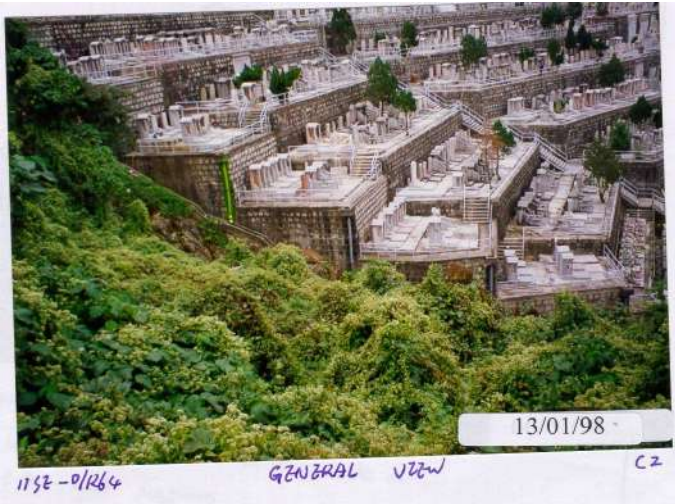


Action By:

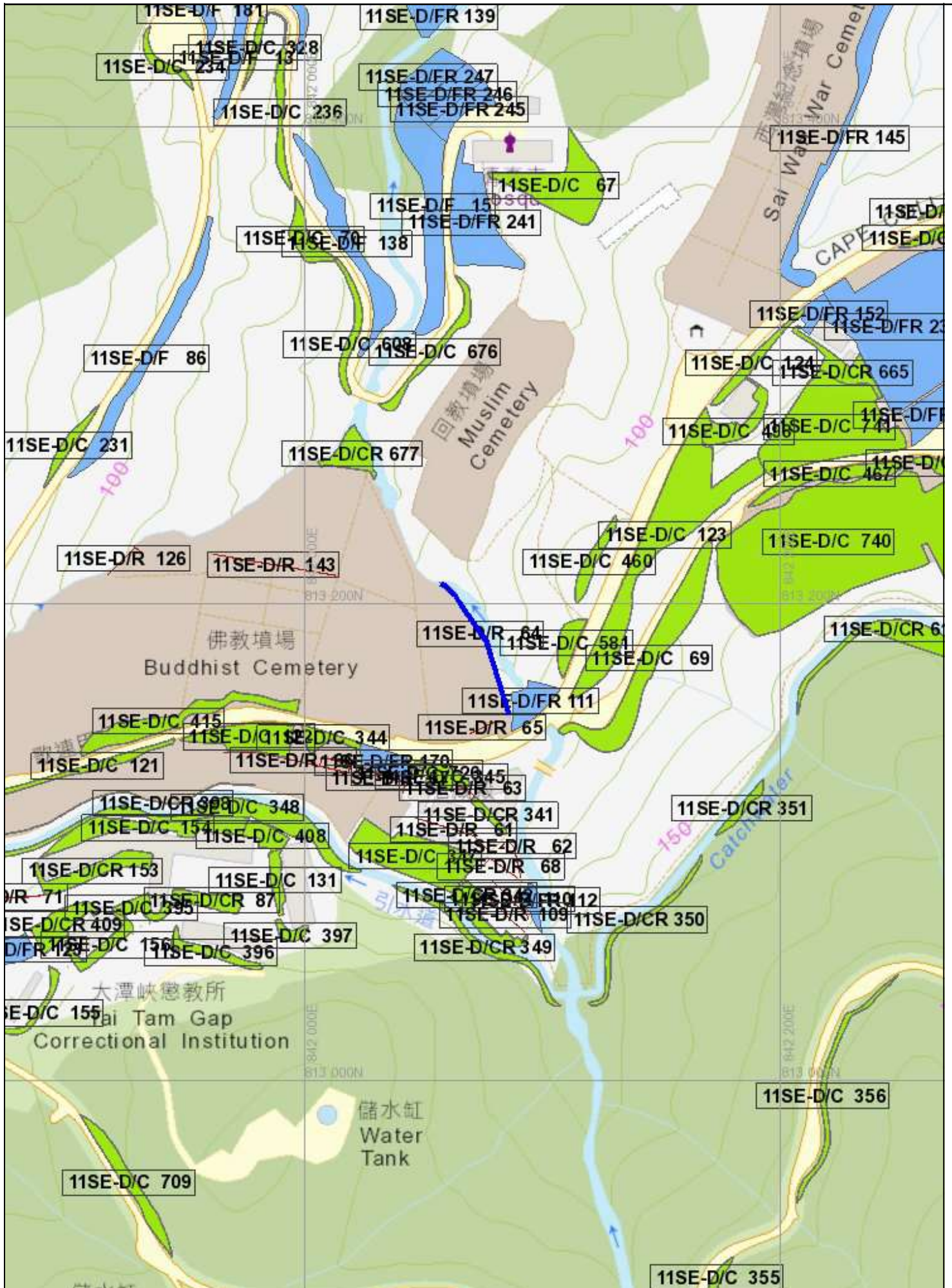
N/A



PHOTO







## BASIC INFORMATION

Location: 12M EAST OF OFFICE, HONG KONG BUDDHIST CEMETERY, CHAI WAN  
Registration Date: 14-11-1997  
Ranking Score (NPRS): 0 (LPMit)  
Date of Formation: pre-1977  
Date of Construction/ Modification:  
Data Source: Agreement CE 59/2002 (GE)  
Approximate Coordinates: Easting : 842066 Northing : 813123

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Temple  
Distance of Facility from Crest (m): 0  
Facility at Toe: Columbarium  
Distance of Facility from Toe (m): 0  
Consequence-to-life Category: 1  
Remarks: N/A

## SLOPE PART

N/A

## WALL PART

(1)	Max. Height (m): 6	Length (m): 8	Face Angle (deg): 90
(1)	Max. Height (m): 4.5	Length (m): 10	Face Angle (deg): 90

## MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0 Private Feature Party: IL 7755 RP Agent: N/A Land Cat.: 1 Reason Code: 1 MR Endorsement Date: 15-09-2015

## DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 03-04-2003  
Data Source: Agreement CE 59/2002 (GE)  
Slope Part Drainage: N/A  
Wall Part Drainage: (1) Position: Toe Size(mm): 125  
(2) Position: Toe Size(mm): 225

## SLOPE PART

N/A

## WALL PART

### Wall Part (1)

Type of Wall: Wall Material: Concrete Wall Location: Retaining wall with level platform  
Berm: No. of Berms: N/A Min. Berm Width (m): N/A  
Weepholes: Size (mm): 65 Spacing (m): 1.2

### Wall Part (2)

Type of Wall: Wall Material: Concrete Wall Location: Retaining wall with level platform  
Berm: No. of Berms: N/A Min. Berm Width (m): N/A  
Weepholes: Size (mm): 65 Spacing (m): 1.2

## SERVICES

- (1) Utilities Type: Electricity Size(mm): 20 Location: On crest Remark: N/A  
(2) Utilities Type: Water Main Size(mm): 20 Location: On crest Remark: N/A

## CHECKING STATUS INFORMATION

N/A

## BACKGROUND INFORMATION

GIU Cell Ref.: 11SE24A1  
Map Sheet Reference (1:1000): 11SE-24A  
Aerial Photos: 20995-6 (1977),  
Nearest Rainguage Station (Station Number): Wo Hing House, Hing Wah Estate(H14)  
Data Collected On: 03-04-2003  
Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1977 After: 0  
Modification: Constructed Before: N/A After: 1978  
Related Reports/Files or Documents: File/Report: DB or DH Ref. No.: DH 005/02/HK  
File/Report: DB or DH Ref. No.: DH 005/02/HK  
File/Report: Development Ref. No.: 3003/83  
File/Report: Development Ref. No.: 3003/83  
File/Report: Development Ref. No.: 3003/83  
File/Report: Development Ref. No.: 3003/83  
File/Report: LA Ref. No.: BC-IL 7755  
File/Report: LA Ref. No.: BC-IL 7755  
File/Report: PWDC Ref. No.: GCPI/1/417  
File/Report: PWDC Ref. No.: GCPI/1/417  
Remarks: N/A  
Follow Up Actions: N/A

DH-Order (To Be Confirmed with Buildings Department): None  
 Advisory Letter (To Be Confirmed with Buildings Department): None  
 LPMIS: None

## ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 25/09/2023)

## STAGE 1 STUDY REPORT

Inspected On: 03-04-2003  
 Weather: Mainly Fine  
 District: I



Section No: 1-1  
 Height(m): H1 : 5 , H2 : 5  
 Type of Toe Facility: Columbarium  
 Distance from Toe(m): 0  
 Type of Crest Facility: Temple  
 Distance from Crest(m): 0  
 Consequence Category: 1  
 Engineering Judgement: P  
 Section No: 2-2  
 Type of Toe Facility:  
 Distance from Toe(m):  
 Type of Crest Facility:  
 Distance from Crest(m):  
 Consequence Category: 1  
 Engineering Judgement: P  
 Sign of Seepage: Slope : N/A  
 Wall : No sign of seepage  
 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: N/A  
Emergency Action Required: N  
Action By: N/A

### ACTION TO INITIATE PREVENTIVE WORKS

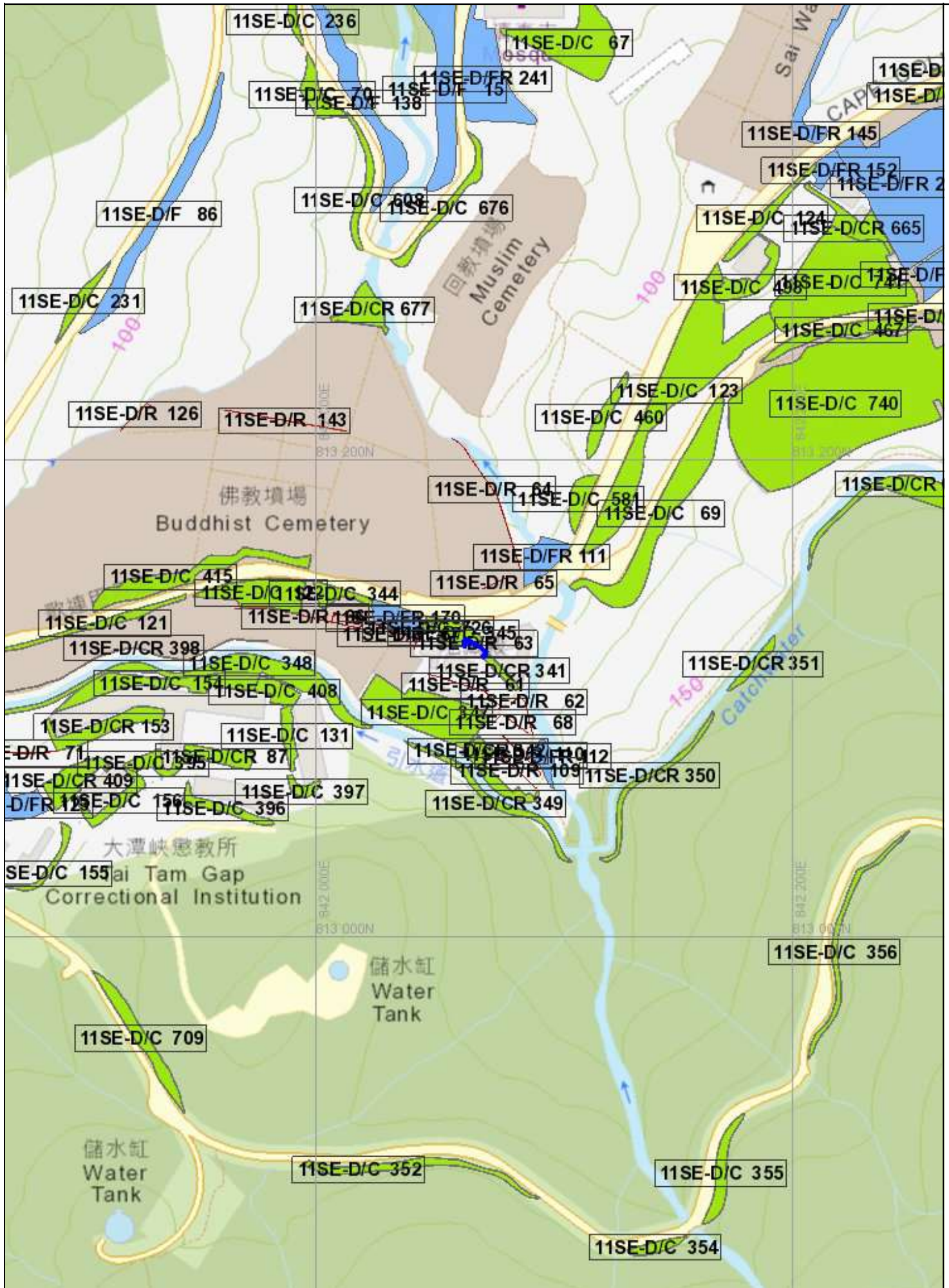
Criterion A/Criterion D: N/A  
Action By: N/A  
Further Study: Y  
Action By: Private

### OTHER EXTERNAL ACTION

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

**PHOTO**









### BASIC INFORMATION

Location: Cape Collinson Road  
 Registration Date: 14-11-1997  
 Ranking Score (NPRS): 0 (Notional)  
 Date of Formation: pre-1977  
 Date of Construction/ Modification:  
 Data Source: EI  
 Approximate Coordinates: Easting : 842093 Northing : 813156

### CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Road/footpath with low traffic density  
 Distance of Facility from Crest (m): 2  
 Facility at Toe: Undeveloped green belt  
 Distance of Facility from Toe (m): 0  
 Consequence-to-life Category: 3  
 Remarks: N/A

### SLOPE PART

(1) Max. Height (m): 4 Length (m): 8 Average Angle (deg): 35

### WALL PART

(1) Max. Height (m): 4 Length (m): 8 Face Angle (deg): 90

### MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0 Government Feature Party: WSD Agent: WSD Land Cat.: 5b(vi) Reason Code: 61 MR Endorsement Date: 01-09-1997

### DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 02-02-2000  
 Data Source: EI  
 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

### Wall Part (1)

Type of Wall: Wall Material: Concrete Wall Location: N/A  
Berm: No. of Berms: N/A Min. Berm Width (m): N/A  
Weepholes: Size (mm): N/A Spacing (m): N/A

## SERVICES

N/A

## CHECKING STATUS INFORMATION

N/A

## BACKGROUND INFORMATION

GIU Cell Ref.: 11SE24A1  
Map Sheet Reference (1:1000): 11SE-24A  
Aerial Photos: 5660/1 (1967),  
Nearest Rainguage Station (Station Number): Wo Hing House, Hing Wah Estate(H14)  
Data Collected On: 02-02-2000  
Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1977 After: N/A  
Related Reports/Files or Documents: N/A  
Remarks: N/A  
Follow Up Actions: N/A  
DH-Order (To Be Confirmed with Buildings Department): None  
Advisory Letter (To Be Confirmed with Buildings Department): None  
LPMIS: None

## ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 25/09/2023)



## STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: 1

Section No: 1-1

Height(m):

Type of Toe Facility: Undeveloped green belt

Distance from Toe(m): 0

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

Distance from Crest(m): 2

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

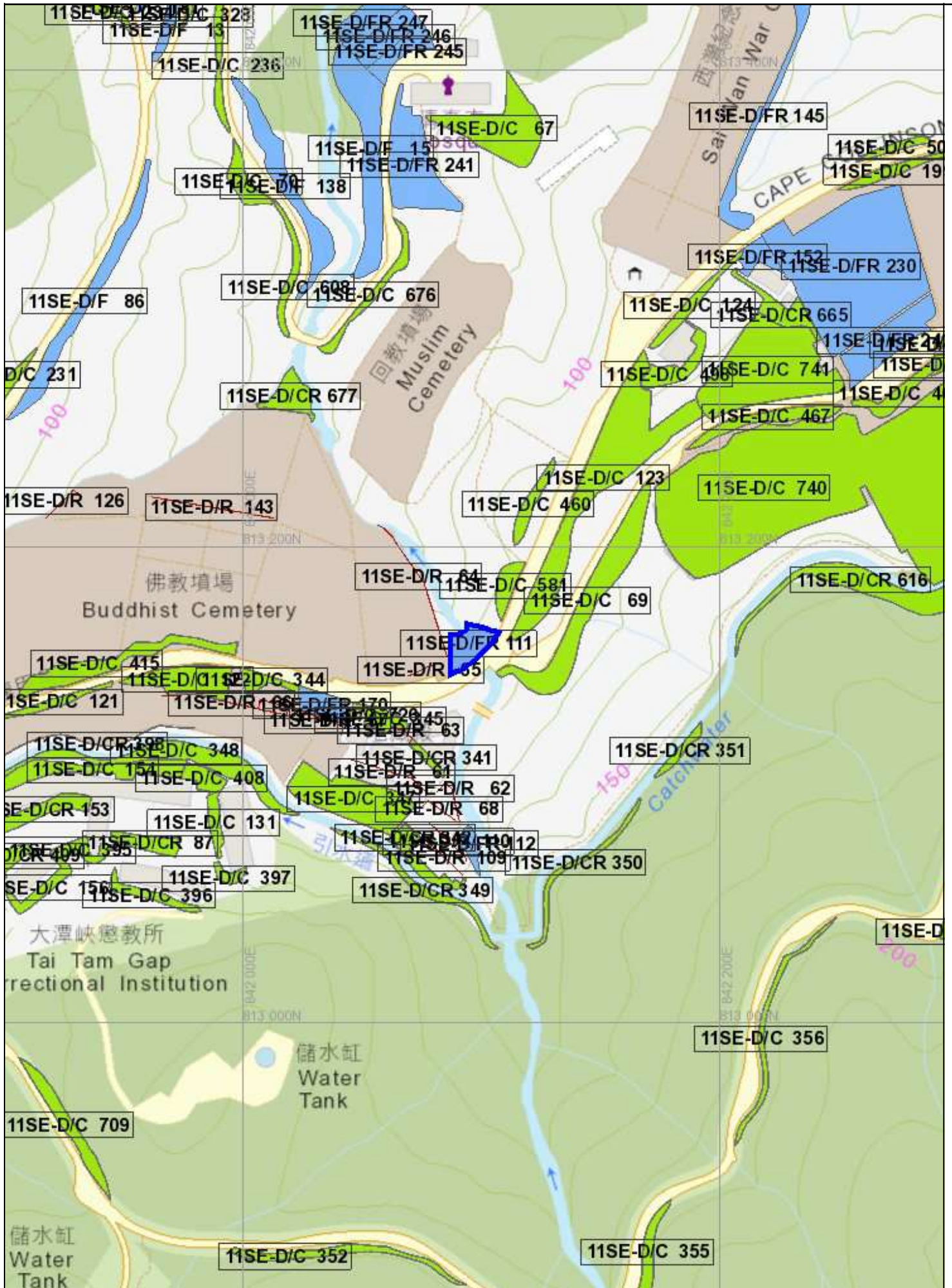


**Non-routine Maintenance:**

**Action By:** N/A

**PHOTO**









**BASIC INFORMATION**

Location: 5M EAST OF THE TEMPLE, BUDDHIST CEMETERY SOUTH OF CAPE COLLINSON ROAD, HONG KONG  
 Registration Date: 14-11-1997  
 Ranking Score (NPRS): 0 (Notional)  
 Date of Formation: pre-1977  
 Date of Construction/ Modification:  
 Data Source: SIRST  
 Approximate Coordinates: Easting : 842076 Northing : 813112

**CONSEQUENCE-TO-LIFE CATEGORY**

Facility at Crest: Temple  
 Distance of Facility from Crest (m): 0.5  
 Facility at Toe: Columbarium  
 Distance of Facility from Toe (m): 2.6  
 Consequence-to-life Category: 1  
 Remarks: N/A

**SLOPE PART**

(1) Max. Height (m): 1.7 Length (m): 20 Average Angle (deg): 45

**WALL PART**

(1) Max. Height (m): 4.5 Length (m): 20 Face Angle (deg): 80

**MAINTENANCE RESPONSIBILITY**

(1) Sub Div.: 0 Private Feature Party: IL7755RP Agent: N/A Land Cat.: 1 Reason Code: 1 MR Endorsement Date: 05-09-2013

**DETAILS OF SLOPE / RETAINING WALL**

Date of Inspection: 13-01-1998  
 Data Source: SIRST  
 Slope Part Drainage: N/A  
 Wall Part Drainage: N/A

**SLOPE PART**

Slope Part (1)  
 Surface Protection (%): Bare: 0 Vegetated: 0 Chunam: 100 Shotcrete: 0 Other Cover: 0  
 Material Description: Material type: Soil Geology: Decomposed volcanic  
 Berm: No. of Berms: N/A Min. Berm Width (m): N/A  
 Weepholes: Size (mm): 65 Spacing (m): 2.2



## WALL PART

Wall Part (1)

Type of Wall: Wall Material: Masonry Wall Location: Wall at crest  
Berm: No. of Berms: N/A Min. Berm Width (m): N/A  
Weepholes: Size (mm): 65 Spacing (m): 1.2

## SERVICES

N/A

## CHECKING STATUS INFORMATION

N/A

## BACKGROUND INFORMATION

GIU Cell Ref.: 11SE24A1  
Map Sheet Reference (1:1000): 11SE-24A  
Aerial Photos: A27929 (1991), A27930 (1991)  
Nearest Rainguage Station (Station Number): Wo Hing House, Hing Wah Estate(H14)  
Data Collected On: 13-01-1998  
Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1978 After: N/A  
Related Reports/Files or Documents: N/A  
Remarks: N/A  
Follow Up Actions: N/A  
DH-Order (To Be Confirmed with Buildings Department): None  
Advisory Letter (To Be Confirmed with Buildings Department): None  
LPMIS: Agreement No.: CE18/2000 Report No.: S2R174/2001

## ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 25/09/2023)

## STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: I

Section No: 1-1

Height(m):

Type of Toe Facility: Columbarium

Distance from Toe(m): 2.6

Type of Crest Facility: Temple

Distance from Crest(m): 0.5

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

**eLPMIS**

**LPM/LPMit Details Report**

LPM Study Feature No.:	11SE-D/CR 341
Location:	5M EAST OF THE TEMPLE, BUDDHIST CEMETERY SOUTH OF CAPE COLLINSON ROAD, HONG KONG
District Council:	Eastern
Maintenance Responsibility (At the Time of Selection):	Private
Responsible Party for Maintenance of Government Portion:	N/A
Private Lot No.:	NA

**LPM/LPMit Study**

Agreement No.:	CE18/2000
Study Type:	Stage 2 Study
Consultant:	Maunsell Geotechnical Services Ltd.
GEO Managing Section / Engineer:	SS / SS3
Study Status:	Study completed
Design Approach:	Otherwise
Option Assessment Accepted:	N/A
Study Report No.:	S2R174/2001
Programme / Actual Commencement:	01-12-2001
Programme / Actual Completion:	30-04-2002
Report Recommendation (For Stage 2 Study):	No action required
District Check Status:	Checked
Checking Certificate No.:	N/A
GEO Engineer's Remarks:	N/A

**LPM/LPMit Works**

Works Contract No.:	N/A
GEO Managing Section / Engineer:	N/A / N/A
Contractor:	N/A
Progress Status:	N/A
Reason of Study Termination / Works Deletion (If Necessary):	N/A
Forecast Commencement Date:	N/A
Forecast Completion Date:	N/A
Completion Cert. Issued:	N/A
Site Handed Over to Maintenance Department on:	N/A
Estimated Cost for Upgrading (HK\$M):	N/A



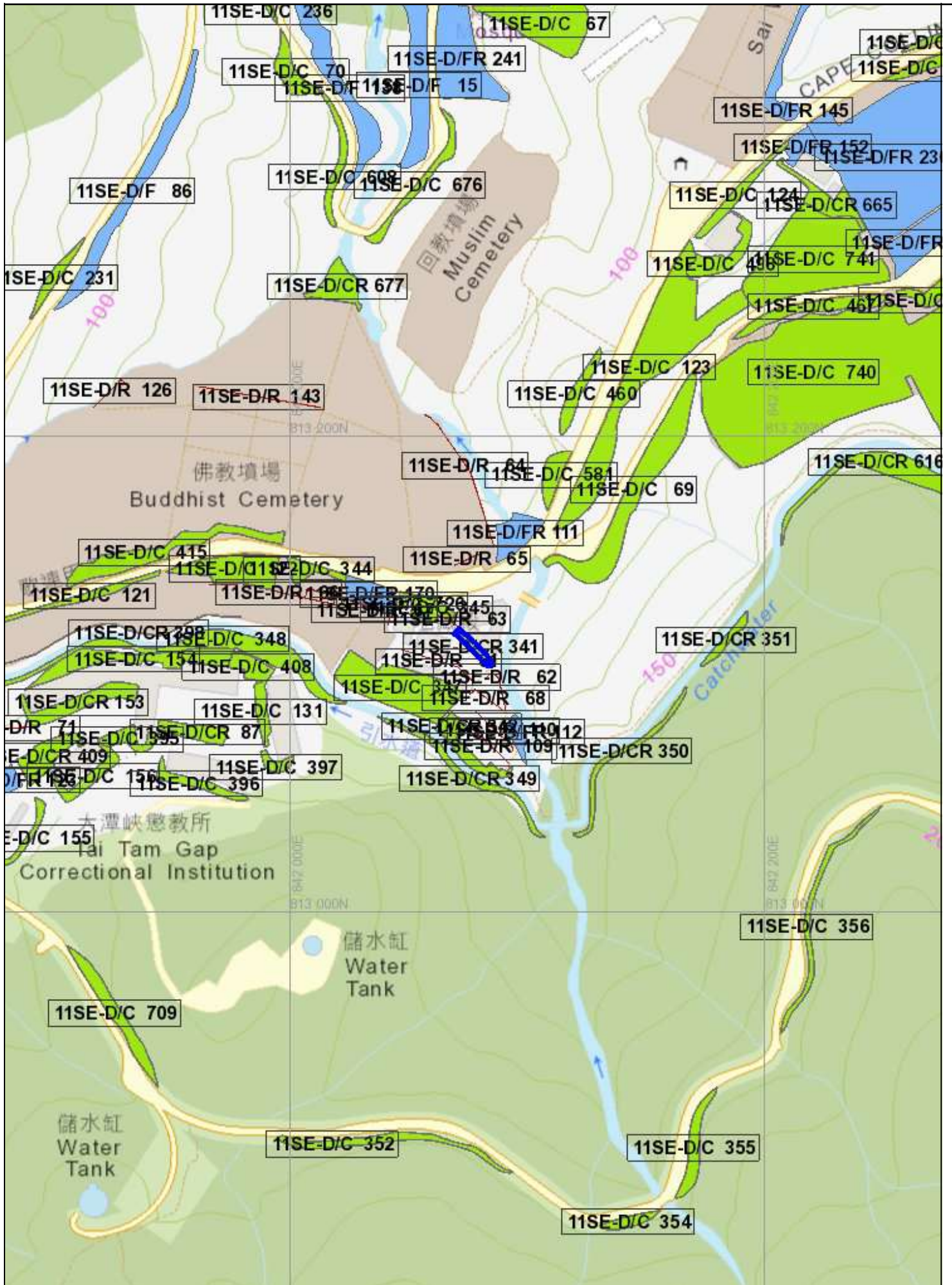
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Maintenance Manual No.:	N/A
Actual Works:	N/A
No. of Tree Felled:	N/A
No. of Tree Planted (Incl. Transplant):	N/A
% Bare of Slope Surfacing:	N/A
% Vegetated of Slope Surfacing:	N/A
% Shotcrete of Slope Surfacing:	N/A
Other Hard Surface of Slope Surfacing:	N/A

**PHOTO**









### BASIC INFORMATION

Location: Cape Collinson Road  
 Registration Date: 14-11-1997  
 Ranking Score (NPRS): 0 (Notional)  
 Date of Formation: pre-1977  
 Date of Construction/ Modification:  
 Data Source: EI(HyD)  
 Approximate Coordinates: Easting : 842059 Northing : 813129

### CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Temple  
 Distance of Facility from Crest (m): 5  
 Facility at Toe: Road/footpath with moderate traffic density  
 Distance of Facility from Toe (m): 0  
 Consequence-to-life Category: 1  
 Remarks: N/A

### SLOPE PART

(1) Max. Height (m): 10 Length (m): 30 Average Angle (deg): 55

### WALL PART

N/A

### MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0 Private Feature Party: IL 7755 RP Agent: N/A Land Cat.: 1,5a Reason Code: 1,46 MR Endorsement Date: 15-09-2015

### DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 30-10-1998  
 Data Source: EI(HyD)  
 Slope Part Drainage: (1) Position: Crest Size(mm): 201  
 (2) Position: On slope Size(mm): 201  
 (3) Position: Toe Size(mm): 201  
 Wall Part Drainage: N/A

### SLOPE PART



**Slope Part (1)**

Surface Protection (%): Bare: 0 Vegetated: 0 Chunam: 0 Shotcrete: 100 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): 65 Spacing (m): 1.2

**WALL PART**

N/A

**SERVICES**

N/A

**CHECKING STATUS INFORMATION**

N/A

**BACKGROUND INFORMATION**

GIU Cell Ref.: 11SE24A1  
 Map Sheet Reference (1:1000): 11SE-24A  
 Aerial Photos: A35184 (1993), A35185 (1993)  
 Nearest Rainguage Station (Station Number): Wo Hing House, Hing Wah Estate(H14)  
 Data Collected On: 30-10-1998  
 Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1978 After: N/A  
 Related Reports/Files or Documents: N/A  
 Remarks: N/A  
 Follow Up Actions: N/A  
 DH-Order (To Be Confirmed with Buildings Department): None  
 Advisory Letter (To Be Confirmed with Buildings Department): Date of Recommendation to BD: N/A File Reference: N/A  
 Date Served by BD: 21/08/2002  
 Date of Recommendation to BD: N/A File Reference: N/A  
 Date Served by BD: 03/09/2012  
 LPMIS: Agreement No.: CE18/2000 Report No.: S2R174/2001

## ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 25/09/2023)

### STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: 1

Section No: 1-1

Height(m):

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

Distance from Toe(m): 0

Type of Crest Facility: Temple

Distance from Crest(m): 5

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

### eLPMIS

#### LPM/LPMit Details Report

LPM Study Feature No.:	11SE-D/C 345
Location:	SOUTH SIDE OF CAPE COLLINSON ROAD. OPPOSITE THE BUDDHIST CEMETERY 20M NORTH OF THE TEMPLE, HONG KONG
District Council:	Eastern
Maintenance Responsibility (At the Time of Selection):	Private
Responsible Party for Maintenance of Government Portion:	N/A
Private Lot No.:	NA

#### LPM/LPMit Study

Agreement No.:	CE18/2000
Study Type:	Stage 2 Study
Consultant:	Maunsell Geotechnical Services Ltd.
GEO Managing Section / Engineer:	SS / SS3
Study Status:	Study completed
Design Approach:	Otherwise
Option Assessment Accepted:	N/A
Study Report No.:	S2R174/2001
Programme / Actual Commencement:	01-12-2001
Programme / Actual Completion:	30-04-2002
Report Recommendation (For Stage 2 Study):	Advisory Letter
District Check Status:	Checked
Checking Certificate No.:	N/A
GEO Engineer's Remarks:	N/A

#### LPM/LPMit Works

Works Contract No.:	N/A
GEO Managing Section / Engineer:	N/A / N/A
Contractor:	N/A
Progress Status:	N/A
Reason of Study Termination / Works Deletion (If Necessary):	N/A



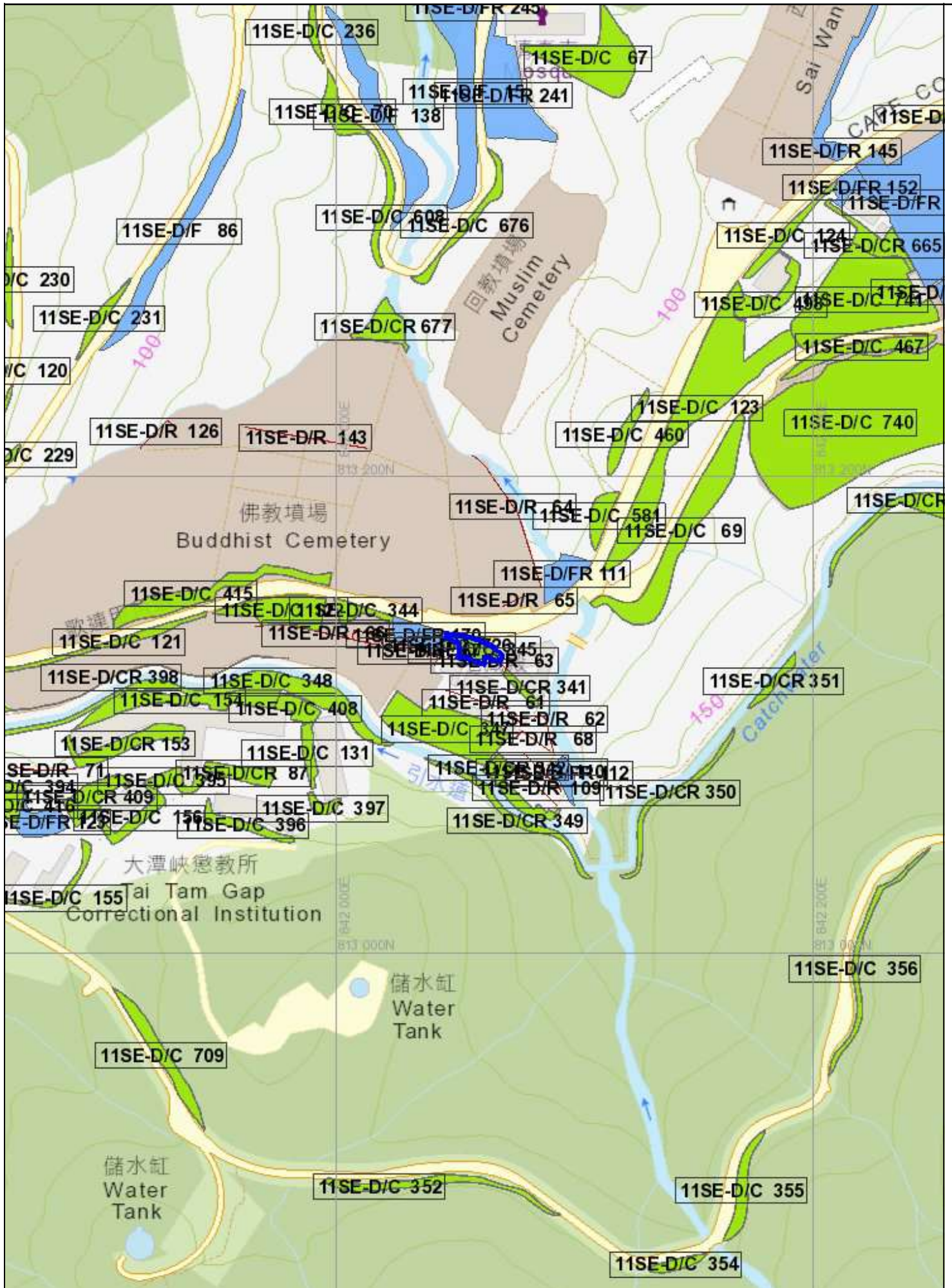


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Forecast Commencement Date:	N/A
Forecast Completion Date:	N/A
Completion Cert. Issued:	N/A
Site Handed Over to Maintenance Department on:	N/A
Estimated Cost for Upgrading (HK\$M):	N/A
Maintenance Manual No.:	N/A
Actual Works:	N/A
No. of Tree Felled:	N/A
No. of Tree Planted (Incl. Transplant):	N/A
% Bare of Slope Surfacing:	N/A
% Vegetated of Slope Surfacing:	N/A
% Shotcrete of Slope Surfacing:	N/A
Other Hard Surface of Slope Surfacing:	N/A

**PHOTO**







## BASIC INFORMATION

Location: CAPE COLLINSON ROAD, E  
 Registration Date: 14-11-1997  
 Ranking Score (NPRS): 0 (EI)  
 Date of Formation: pre-1977  
 Date of Construction/ Modification:  
 Data Source: EI(HyD)  
 Approximate Coordinates: Easting : 842127 Northing : 813180

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Road/footpath with very low traffic density  
 Distance of Facility from Crest (m): 3  
 Facility at Toe: Road/footpath with low traffic density  
 Distance of Facility from Toe (m): 0  
 Consequence-to-life Category: 3  
 Remarks: N/A

## SLOPE PART

(1) Max. Height (m): 14 Length (m): 140 Average Angle (deg): 37

## WALL PART

N/A

## MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 1 Mixed Feature Party: HyD Agent: HyD Land Cat.: 1,5b(iii),7 Reason Code: 56 MR Endorsement Date: 01-12-1998  
 (2) Sub Div.: 2 Mixed Feature Party: IL7713 Agent: N/A Land Cat.: 1,5b(iii),7 Reason Code: 1 MR Endorsement Date: 01-12-1998

## DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 18-03-2010  
 Data Source: EI(HyD)  
 Slope Part Drainage: (1) Position: Toe Size(mm): 300  
 Wall Part Drainage: N/A

## SLOPE PART

Slope Part (1)  
 Surface Protection (%): Bare: 0 Vegetated: 50 Chunam: 0 Shotcrete: 40 Other Cover: 10  
 Material Description: Material type: Soil Geology: N/A  
 Berm: No. of Berms: N/A Min. Berm Width (m): N/A  
 Weepholes: Size (mm): 65 Spacing (m): 1.2



## WALL PART

N/A

## SERVICES

N/A

## CHECKING STATUS INFORMATION

N/A

## BACKGROUND INFORMATION

GIU Cell Ref.: 11SE24A1  
Map Sheet Reference (1:1000): 11SE-24A  
Aerial Photos: A35184-85 (1993),  
Nearest Rainguage Station (Station Number): Wo Hing House, Hing Wah Estate(H14)  
Data Collected On: 18-03-2010  
Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1978 After: N/A  
Related Reports/Files or Documents: File/Report: GEO Ref. No.: STAGE1 STUDY 1992/10/09  
File/Report: GEO Ref. No.: STAGE1 STUDY 1992/10/09  
File/Report: Pre-SIRST Ref. No.:  
File/Report: Pre-SIRST Ref. No.:  
Remarks: N/A  
Follow Up Actions: N/A  
DH-Order (To Be Confirmed with Buildings Department): None  
Advisory Letter (To Be Confirmed with Buildings Department): None  
LPMIS: None

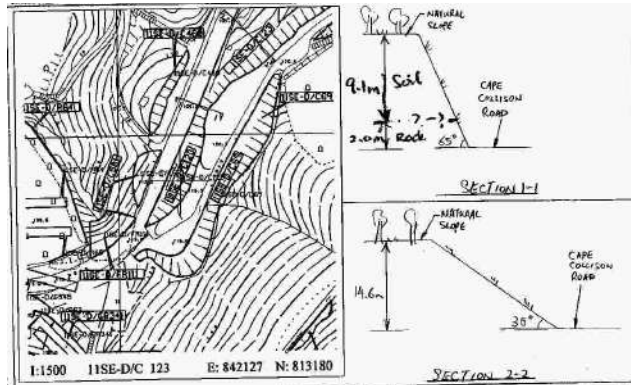
## ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 25/09/2023)



**STAGE 1 STUDY REPORT**

Inspected On: 10-01-2000  
 Weather: Mainly Fine  
 District: I



Section No: 1-1  
 Height(m): H1 : 11 , H2 : 0  
 Type of Toe Facility: Road/footpath with low traffic density  
 Distance from Toe(m): 0  
 Type of Crest Facility: Road/footpath with very low traffic density  
 Distance from Crest(m): 3  
 Consequence Category: 3  
 Engineering Judgement: P  
 Section No: 2-2  
 Type of Toe Facility: Road with low traffic  
 Distance from Toe(m): 0  
 Type of Crest Facility: Undeveloped green belt  
 Distance from Crest(m): 0  
 Consequence Category: 3  
 Engineering Judgement: P  
 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: Y  
 Non-routine maintenance required: N  
 Note: N/A  
 Masonry wall/Masonry facing: Y  
 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:	Y
Action By:	Government
Further Study:	N
Action By:	N/A

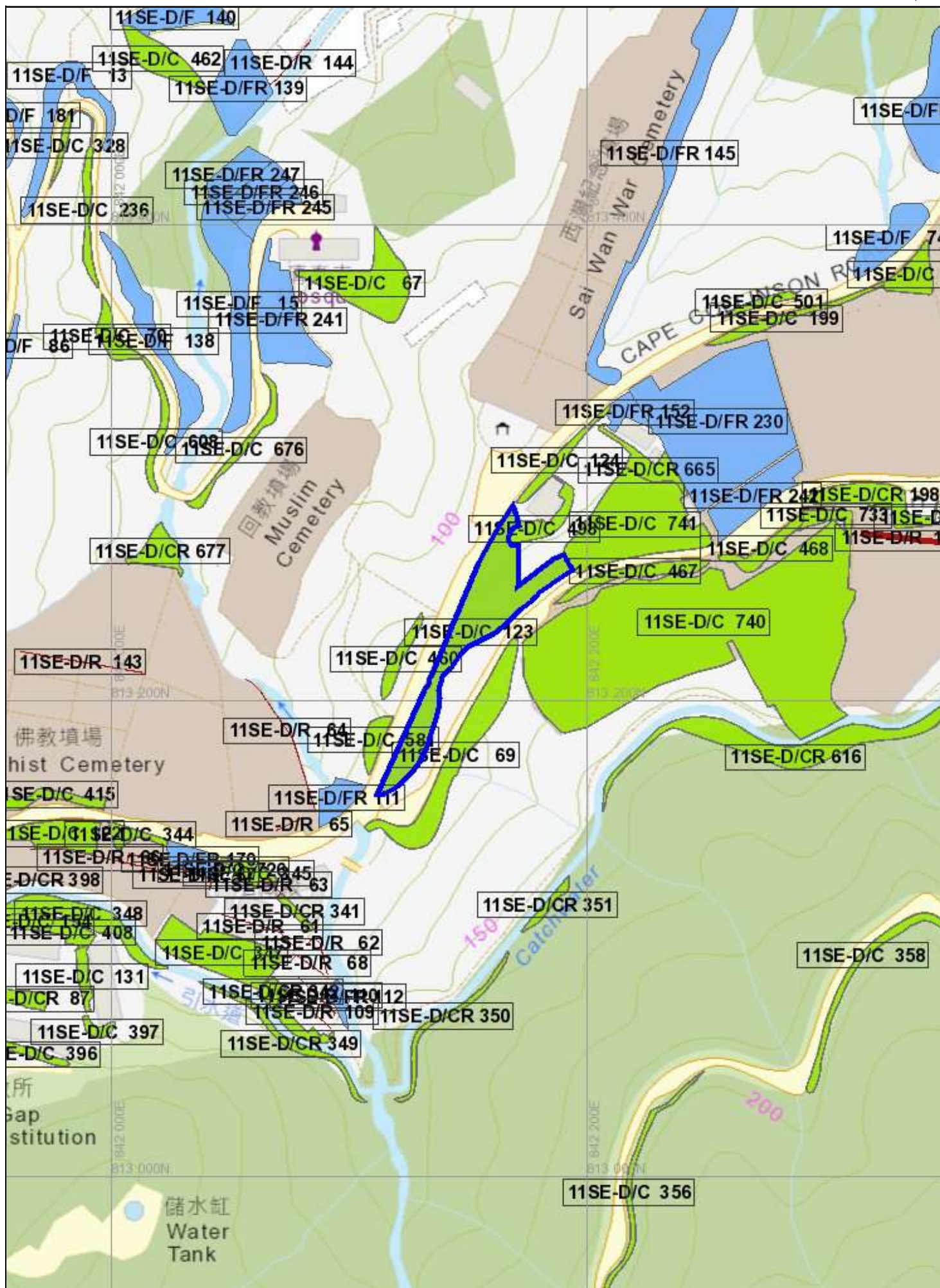
### OTHER EXTERNAL ACTION

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

**PHOTO**









**BASIC INFORMATION**

Location: 20m East of Muslim Cemetery, access Road from Cape Collison Road  
 Registration Date: 14-11-1997  
 Ranking Score (NPRS): 0 (EI)  
 Date of Formation: pre-1977  
 Date of Construction/ Modification:  
 Data Source: EI  
 Approximate Coordinates: Easting : 842145 Northing : 813173

**CONSEQUENCE-TO-LIFE CATEGORY**

Facility at Crest: Undeveloped green belt  
 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: 3  
 Remarks: N/A

**SLOPE PART**

(1) Max. Height (m): 13 Length (m): 110 Average Angle (deg): 50

**WALL PART**

N/A

**MAINTENANCE RESPONSIBILITY**

(1) Sub Div.: 1 Mixed Feature Party: Lands D Agent: Lands D Land Cat.: 1,5b(vi),7 Reason Code: 62 MR Endorsement Date: 06-07-1999  
 (2) Sub Div.: 2 Mixed Feature Party: IL7713 Agent: N/A Land Cat.: 1,5b(vi),7 Reason Code: 1 MR Endorsement Date: 06-07-1999

**DETAILS OF SLOPE / RETAINING WALL**

Date of Inspection: 24-04-2001  
 Data Source: EI  
 Slope Part Drainage: (1) Position: Crest Size(mm): 251  
 (2) Position: On slope Size(mm): 201  
 (3) Position: Toe Size(mm): 251  
 Wall Part Drainage: N/A

**SLOPE PART**



**Slope Part (1)**

Surface Protection (%): Bare: 0 Vegetated: 0 Chunam: 0 Shotcrete: 0 Other Cover: 100  
Material Description: Material type: Soil & Rock 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

**CHECKING STATUS INFORMATION**

N/A

**BACKGROUND INFORMATION**

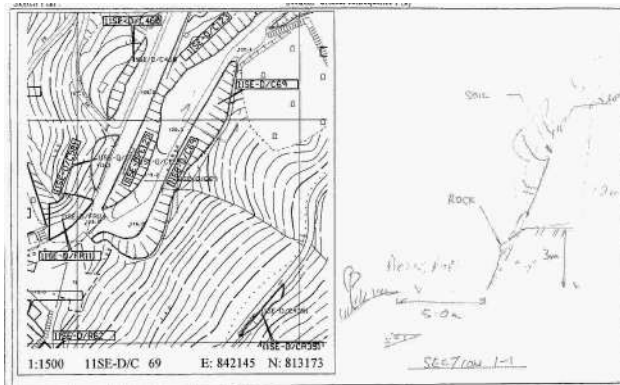
GIU Cell Ref.: 11SE24A1  
Map Sheet Reference (1:1000): 11SE-24A  
Aerial Photos: A35184-85 (1993),  
Nearest Rainguage Station (Station Number): Wo Hing House, Hing Wah Estate(H14)  
Data Collected On: 24-04-2001  
Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1978 After: N/A  
Related Reports/Files or Documents: File/Report: GEO Ref. No.: STAGE 1 STUDY AT 1992/10/09  
File/Report: GEO Ref. No.: STAGE 1 STUDY AT 1992/10/09  
File/Report: Pre-SIRST Ref. No.:  
File/Report: Pre-SIRST Ref. No.:  
Remarks: N/A  
Follow Up Actions: N/A  
DH-Order (To Be Confirmed with Buildings Department): None  
Advisory Letter (To Be Confirmed with Buildings Department): None  
LPMIS: None

**ENHANCED MAINTENANCE INFORMATION**

From Maintenance Department: (Last Updated Date: 25/09/2023)

**STAGE 1 STUDY REPORT**

Inspected On: 10-01-2000  
 Weather: Mainly Fine  
 District: I



Section No: 1-1  
 Height(m): H1 : 10 , H2 : 3  
 Type of Toe Facility: Road/footpath with low traffic density  
 Distance from Toe(m): 0  
 Type of Crest Facility: Undeveloped green belt  
 Distance from Crest(m): 0  
 Consequence Category: 3  
 Engineering Judgement: P  
 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: P  
 Sign of Seepage: Slope : Signs of seepage  
 Wall : N/A  
 Criterion A satisfied: N  
 Sign of Distress: Slope : Reasonable (mid-portion, at toe)  
 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: Y  
Action By: Government

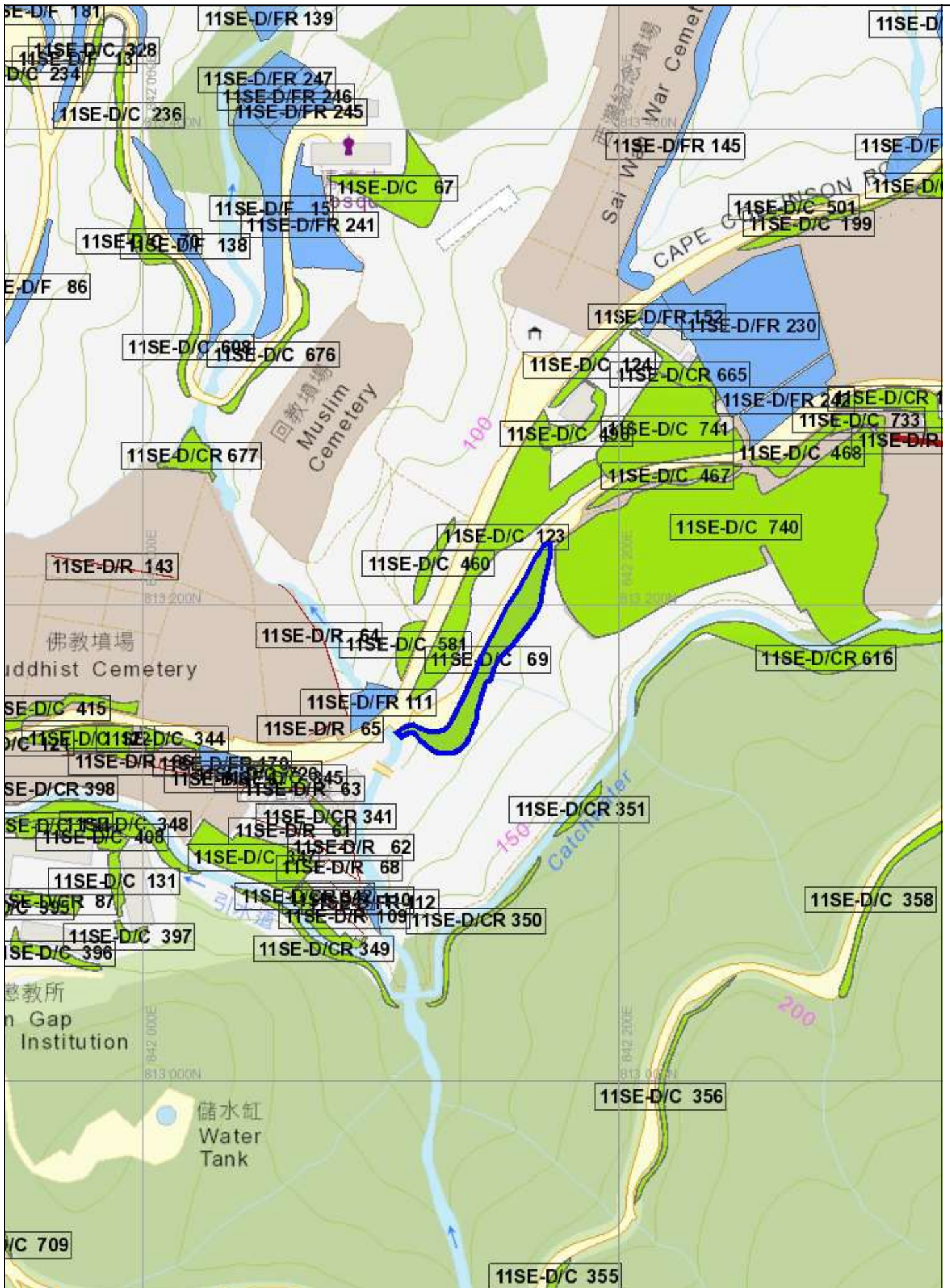
### OTHER EXTERNAL ACTION

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

**PHOTO**









## **Appendix D**

Extraction of Previous GI Records

PROJECT: PROPOSED CARPARK FOR BUDDHIST CEMETERY CAPE COLLINSON ROAD, HONG KONG SHEET 1 OF 1

METHOD <u>ROTARY</u>	CO-ORDINATES E <u>42041.92</u> N <u>13145.17</u>	ROCK COREBIT <u>T76 4.00m TO 10.65m</u>
MACHINE & No. <u>LONGYEAR 24-11</u>		HOLE DIA <u>0.00m - 3.90m HX</u> <u>3.90m - 4.00m NX</u>
FLUSHING MEDIUM <u>WATER</u>	ORIENTATION <u>VERTICAL</u>	GROUND-LEVEL <u>+119.81 mPD</u>

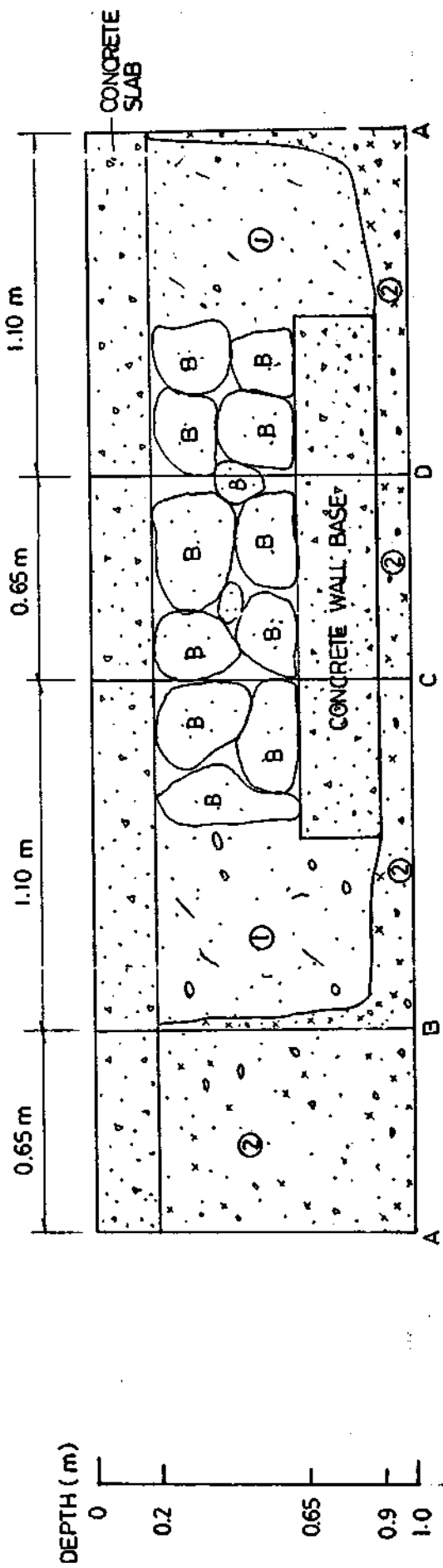
Drilling Progress	Casing depth size	Water level time date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index, m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description						
1 23/2				100		100					0.22				(WALL STRUCTURE)	CONCRETE SURFACING AT TOP 200mm. MASS CONCRETE WITH RUBBLES, COBBLES AND GRAVEL. (WALL STRUCTURE)					
				92	0							0.72									
				34	21								1.30								
				60	0								1.70								
				47	0								2.00								
				75									3.00						I B	MEDIUM DENSE, YELLOWISH BROWN SPECKLED GREYISH WHITE GRAVELLY SILTY FINE TO MEDIUM SAND WITH VOLCANIC FRAGMENT. (C.W.V)	
				90									3.49								
				4	400			50	50	0	NI						5.00			IV I C	YELLOWISH GREY, FINE TO MEDIUM GRAINED CLOSELY SPACED JOINTS, HIGHLY TO MODERATELY WEATHERING VOLCANIC, WEAK TO VERY WEAK.
				5			50	30	0	NI				5.70							
				6				100	95	24	NI						6.42			III D	GREY, FINE GRAINED, CLOSELY SPACED JOINTS, MODERATELY WEATHERED VOLCANIC, MODERATELY STRONG TO STRONG. JOINTS DIPPING AT 75°-85°, HIGHLY FRACTURED (M.W.V.)
7			100	89	50	NI				7.09											
8			100	86	0	NI				7.40											
8				100	100	100	0				7.81			II D	GREY, FINE GRAINED, MEDIUM SPACED JOINTS, SLIGHTLY WEATHERED VOLCANIC, STRONG TO VERY STRONG. JOINTS DIPPING AT 0°-10°, 45°-60°, 75°-85°. (S.W.V.)						
9			100	100	100	3				8.17											
9			100	100	100	0				8.56											
9			100	100	100	2				9.01											
9			100	100	100	3				9.34											
10				100	100	47	11				9.85										
10				100	95	21	9				10.65				END OF DRILLHOLE AT 10.65m						

- SMALL DISTURBED SAMPLE    ▲ WATER SAMPLE
- ! BULK DISTURBED SAMPLE    ▼ WATER LEVEL
- S.P.T. LINER SAMPLE       | STANDARD PENETRATION TEST
- ▯ U100 UNDISTURBED SAMPLE
- ⊗ MAZIER SAMPLE (76mm)    | PERMEABILITY TEST

LOGGED WAL DATE 4/1/86  
CHECKED LUN DATE 6/1/86

REMARKS  
PIEZOMETER INSTALLED AT 10.15m BELOW EX. G.L.

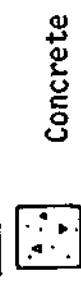
Checked by: *EL*  
 Drawn by: *LC*  
 Compiled by:



DEVELOPED ELEVATION SCALE 1:20

CAPE COLLINSON ROAD

LEGEND:



Concrete

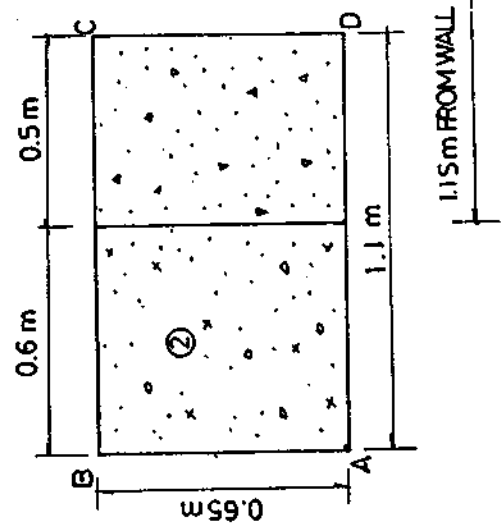


Masonry Wall


FILL : Very loose to loose, yellowish brown, clayey silty fine SAND with gravels and rootlets



CWV : Loose to medium dense, yellowish brown mottled red clayey silty SAND with occasional gravels



PLAN VIEW SCALE 1:20

	PROJECT NO: 82133-2
	BUDDHIST CEMETERY, PROPOSED CAR PARK
TRIAL PIT LOG TRIAL PIT 4	
DATE: August 1985 FIGURE: A4	

Compiled by: KHL

Drawn by: C. M. WAK

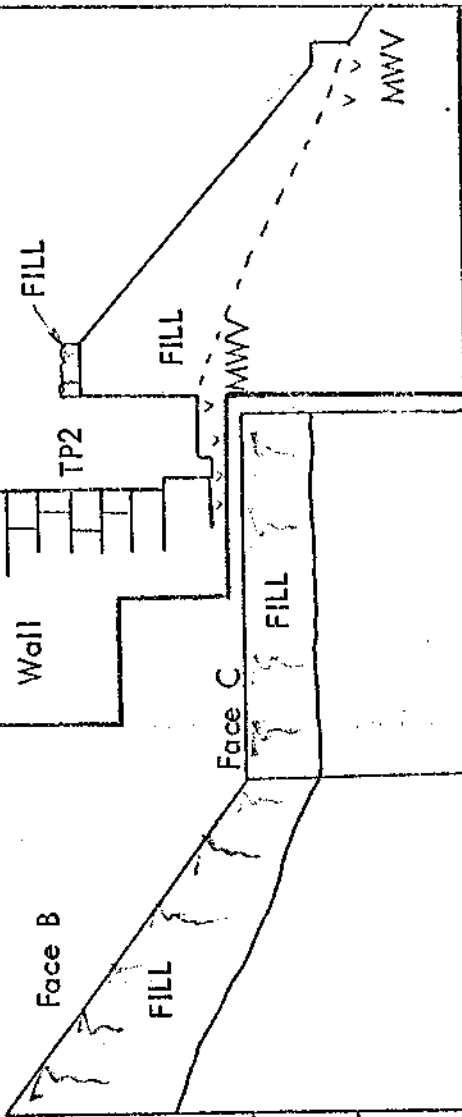
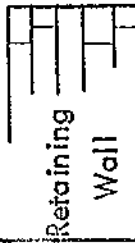
Checked by: JAH

TP 2 developed section

Scale 1:25

Cemetery Cross Section A-A

scale 1:100



Depth (m)

0

0.5

1.0



PROJECT NO: 82133  
 Buddhist Cemetery  
 Cape Collinson Road

TRIAL PIT LOG FOR TP2

DATE: March, 1983 FIGURE: B1

Remarks

FILL (top layer) : Dark grey, very loose, organic, silty SAND with rubbish and ashes.

FILL : Yellow, very loose, silty clayey SAND and GRAVEL.

MWV : Moderately weathered volcanic rock, light grey, mottled pink, brown and dark grey, fine grained, closely to moderately jointed. Moderately strong to moderately weak.

L-A

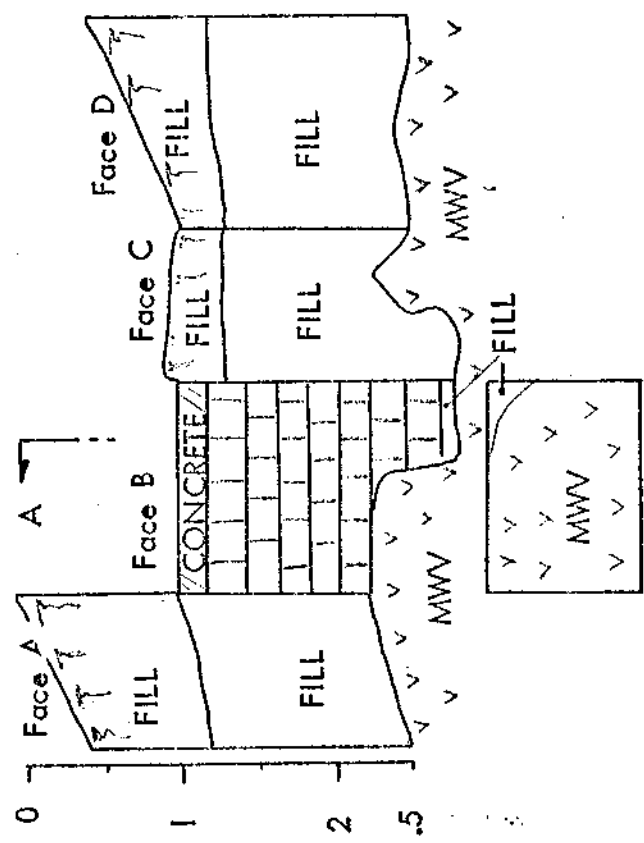
Checked by: [Signature]

Drawn by: C. M. [Signature]

Compiled by: [Signature]

Developed Section of TP3

Depth (m) Scale 1: 50



Remarks

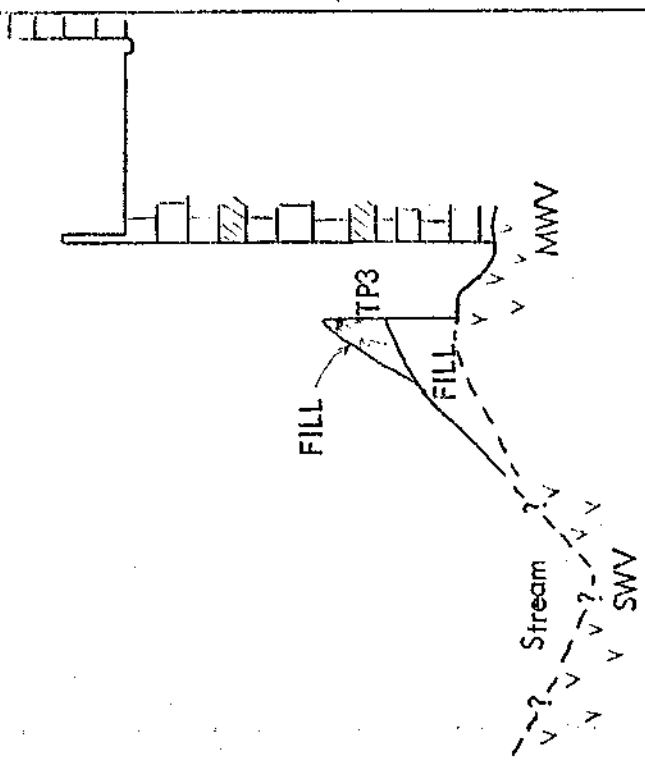
FILL (top layer) : Dark grey, very loose, sandy SILT with ash, rubbish and bricks.

FILL : Yellow, very loose, gravelly sandy SILT with some bricks.

MWV : Moderately weathered volcanic rock. Light grey, stained brown, fine grained, closely to moderately spaced jointed, moderately strong.

SWV : Slightly weathered volcanic rock.

Section A-A Scale 1: 100



PROJECT NO: 82133  
Buddhist Cemetery  
Cape Collinson Road

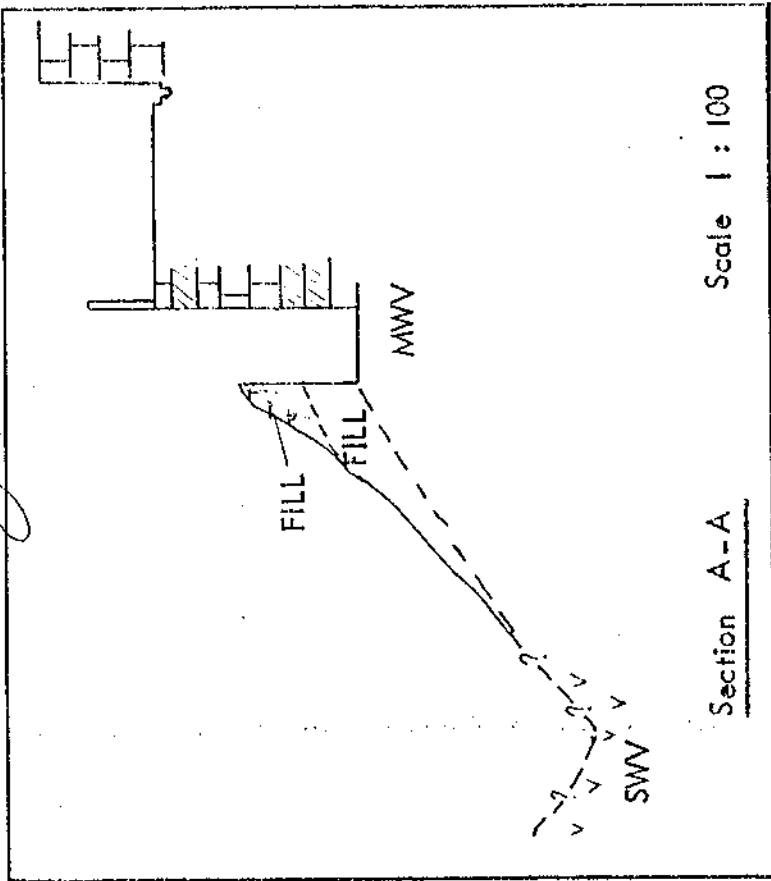
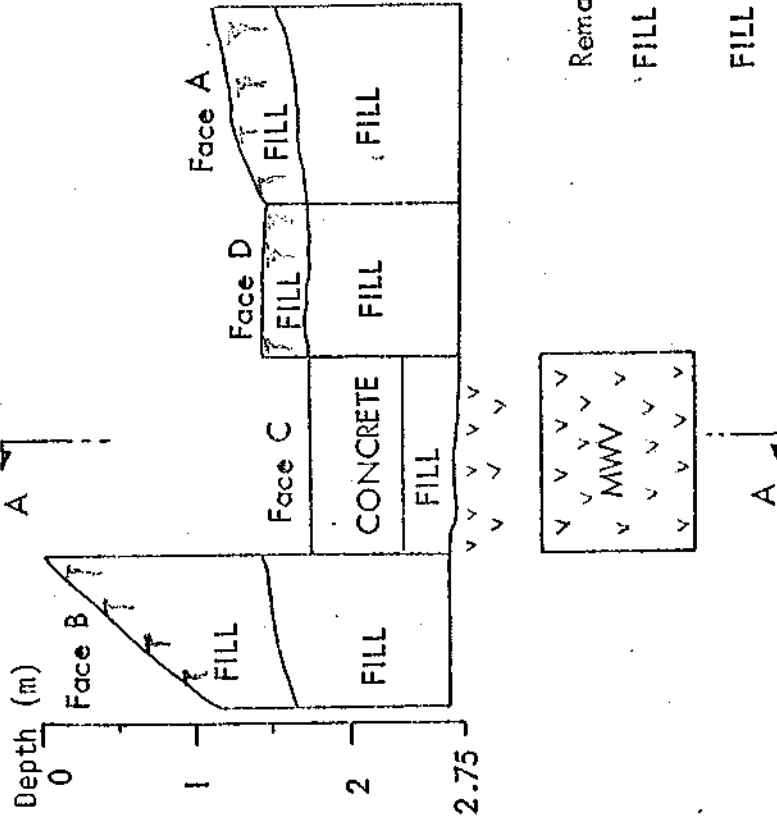
TRIAL PIT LOG FOR TP3

DATE: March, 1983 FIGURE: B2



TP4 developed Section

Scale 1 : 50



Remarks

- FILL (top layer) : Dark grey, very loose, rubbish, ash, sandy silt, gravels and bricks
- FILL : Grayish yellow, very loose, clayey silty SAND with some cobbles.
- MWV : Moderately weathered volcanic rock. Light grey, stained brown, fine grained, closely to moderately spaced jointed, moderately strong to moderately weak.
- SWV : Slightly weathered volcanic rock.



PROJECT NO: 82133  
Buddhist Cemetery  
Cape Collinson Road

TRIAL PIT LOG FOR TP4

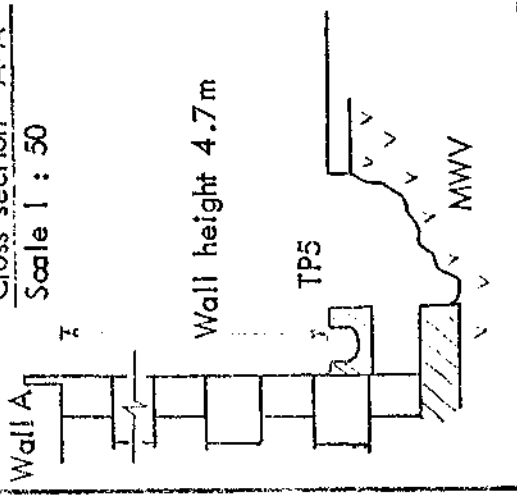
DATE: March, 1983 FIGURE: 83

Checked by: JPH

Drawn by: C.M. M.P.

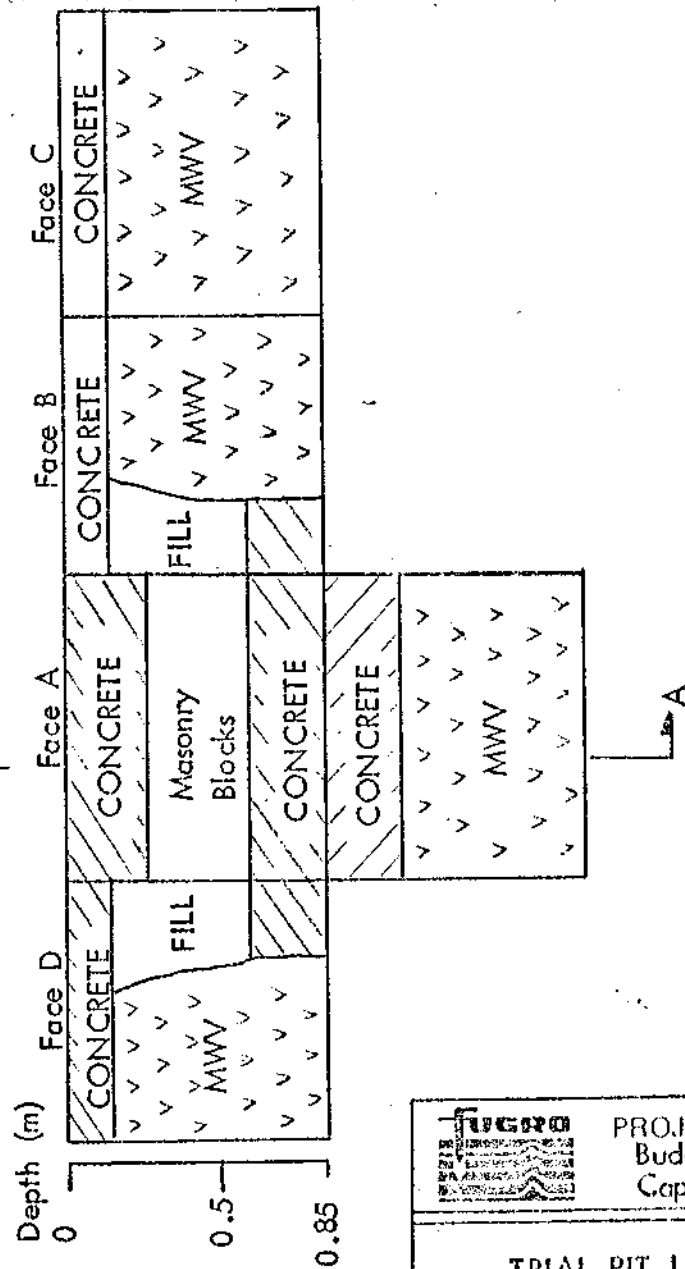
Compiled by: KFL

Cross section A-A  
Scale 1 : 50



TP5 Developed Section

Scale 1 : 25



Remarks

FILL : Pinkish brown and yellow, very loose, slightly sandy SILT and CLAY

MWV : Moderately weathered volcanic rock. Yellow and white, stained brown and grey, fine to medium grained, closely spaced jointed, moderately weak to moderately strong.



PROJECT NO: 82133  
Buddhist Cemetery  
Cape Collinson Road

TRIAL PIT LOG FOR TP5

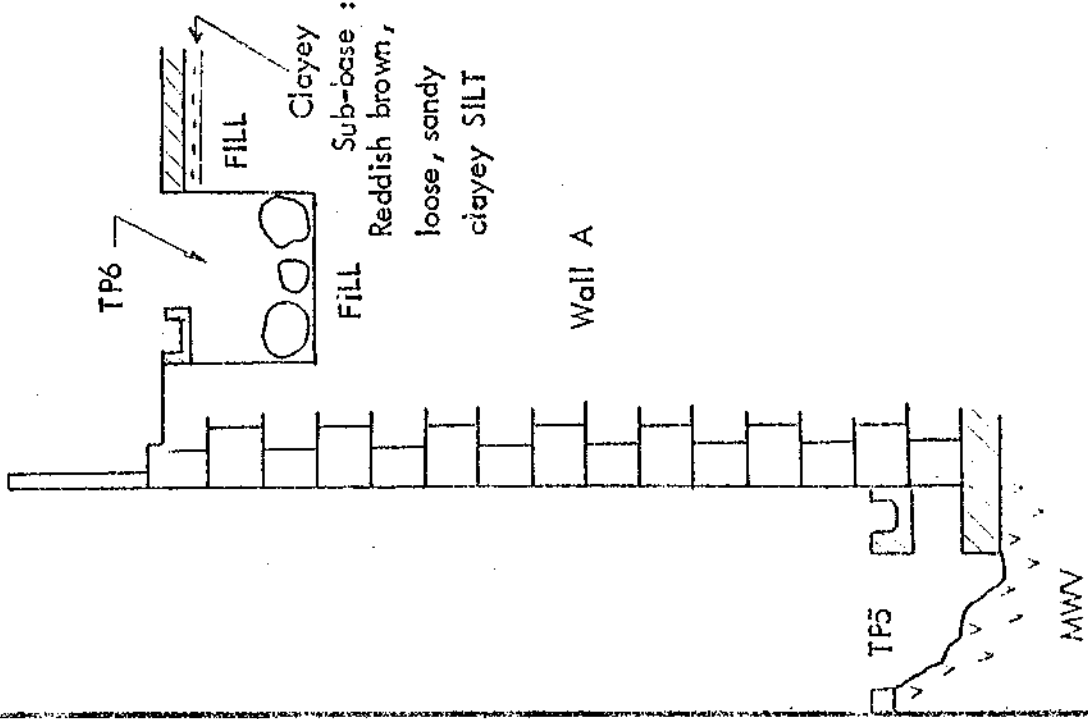
DATE: March, 1983 FIGURE: B4

Checked by: *[Signature]*

Drawn by: C. M. M. P.

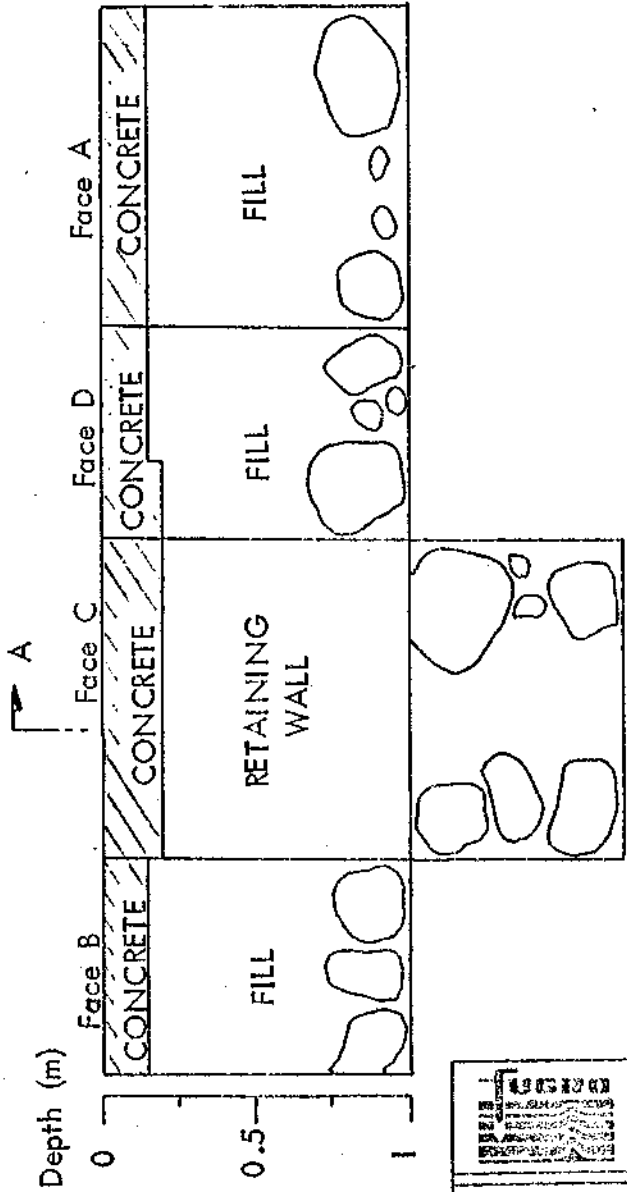
Compiled by: K. P. L.

Cross section A-A  
Scale 1 : 50



TP6 Developed Section

Scale 1 : 25



REMARKS

FILL : Dark yellow, loose, SAND, SILT, CLAY with many BOULDERS and COBBLES

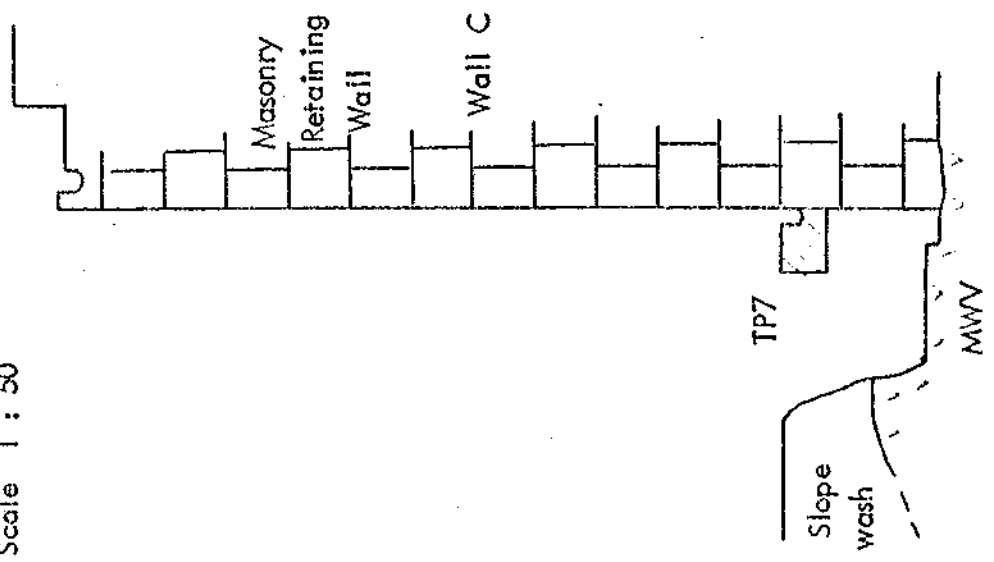
	PROJECT NO: 82133 Buddhist Cemetery Cape Collinson Road
	TRIAL PIT LOG FOR TP6  DATE: March, 1983 FIGURE: B5

Checked by: [Signature]

Drawn by: [Signature]

Compiled by: [Signature]

Cross Section A-A  
Scale 1 : 50



TP7 Developed Section

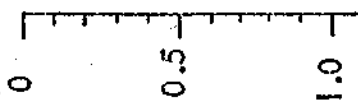
Scale 1 : 25

Face A

Face B

Face C

Depth (m)



Slope wash	CONCRETE		Slope wash	Slope wash
	CONCRETE			
	Retaining Wall		MWV	MWV

Remarks

SLOPE WASH : Yellow, very loose, silty sand with organic rubbish.

FILL : Dark yellow, loose to medium loose (firm) clayey SILT

MWV : Moderately weathered volcanic rock.

M/SWV : Moderately to slightly weathered volcanic rock.



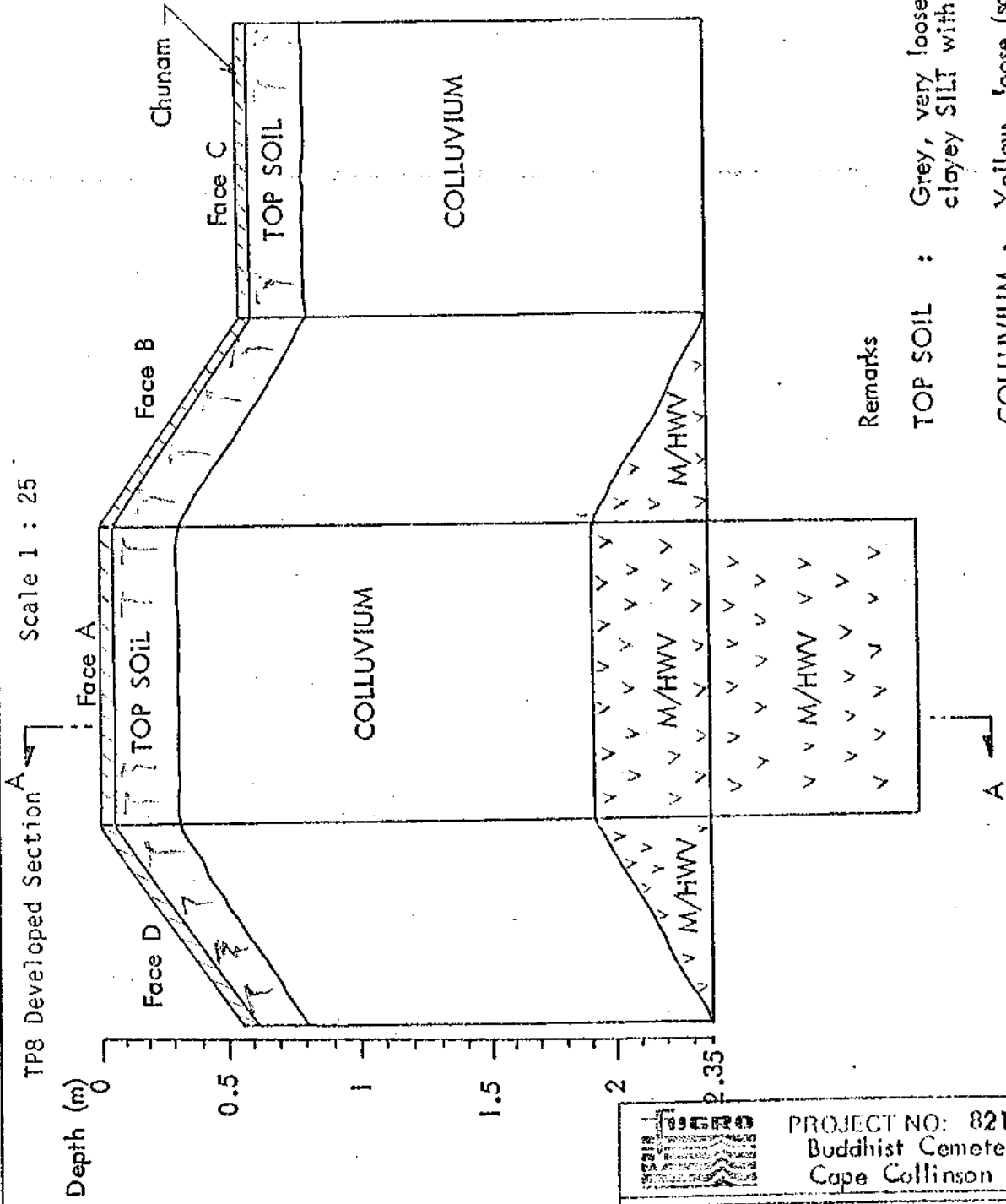
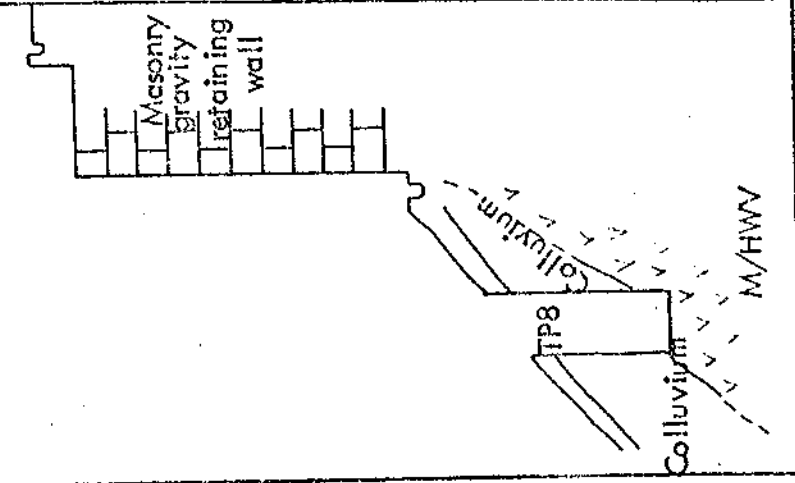
PROJECT NO: 82133  
Buddhist Cemetery  
Cape Collinson Road

TRIAL PIT LOG FOR TP7

DATE: March, 1983 FIGURE: B6

Compiled by: [Signature] Drawn by: [Signature] Checked by: [Signature]

Cross Section A - A  
Scale 1 : 100



TP8 Developed Section A  
Scale 1 : 25

Remarks

TOP SOIL : Grey, very loose, slightly gravelly sandy clayey SILT with some cobbles.

COLLUVIUM : Yellow, loose (soft to medium firm), sandy silty CLAY with some cobbles.

M/HWV : Highly to moderately weathered volcanic rock. Weak to moderately weak.



PROJECT NO: 82133  
Buddhist Cemetery  
Cape Collinson Road

TRIAL PIT LOG FOR TP8

DATE: March, 1983 FIGURE: B7



CONTRACTOR

DRILLHOLE RECORD

WORKS ORDER OR JOB NUMBER 542

Lam Construction Co., Ltd.

SITE NAME

DRILLHOLE NO.

RIG TYPE TBM 02-C-58

CO ORDINATES E 42082.24

DATE FROM 22/07 TO 24/07

RIG NUMBER R03

N 13119.55

SHEET 1 OF 1

OPERATOR Mr. S. M. CHUNG

HOLE DIAMETER

GROUND LEVEL 118.77 M.P.U.

METHOD Rotary

CASING DIAMETER 4x

ORIENTATION Vertical

Drilling progress	Casing depth, size	Water Level	Water recovery %	Core recovery %	R.O.D. %	Fracture In/Out/m	Tests	Samples	Depth metres	Reduced Level	Legend	Description	Core bit	Core grade
28/2	4x			75					0			yellowish brown, silty sand with gravel.		
28/2	4x			100					1		VVV VV V/V VV	SPANG. SOFT GRAY GRAY. FINE TO MEDIUM GRANIC. SLIGHTLY EXPANDED VOLCANIC TUFF WITH CLEAR SPACES FROGMASS SUB-HORIZONTAL CLAY MINERAL SPANG & OCCASIONAL SUB- HORIZONTAL LIMONITE SPANG JUMP CORE FROGMASS	TL	
28/2		0.50 0.50 0.50 0.50 0.50		93	60	10			2	20.5				
28/2		0.62 0.62 0.62 0.62 0.62		100					3	3.17				
28/2		0.74 0.74 0.74 0.74 0.74		100	55	10			4	3.70				
28/2				95	95	2			5	4.72				
									5.15			END OF HOLE.		
									6					
									7					
									8					
									9					
									10					

- Small disturbed sample
- ⊖ Large disturbed sample (102mm)
- ⊠ Undisturbed sample
- △ Water sample
- ⊕ Field permeability test
- M Moisture content (%)
- ⊞ Mazier sample
- ⊞ Liner sample (40mm)
- ∇ Water table
- ⊕ Standard penetration test
- V Vane shear test
- ⊞ U 76 Undisturbed
- ⊞ Piezometer

REMARKS

1. \* : cannot be determined.

2. SPANGING SAMPLES RECORDED  
WAS INJECTED BY SPONGE TEST

CONTRACTOR

DRILLHOLE RECORD

WORKS ORDER OR JOB NUMBER

542

Lam Construction Co., Ltd.

SITE NAME

DRILLHOLE NO.

RIG TYPE

70mm 2.5-6-58

CO ORDINATES

E 42079.20

DATE FROM TO

RIG NUMBER

RS3

N 18105.57

SHEET 1 OF 1

OPERATOR

M.P.S. M. CHUNG

HOLE DIAMETER

GROUND LEVEL 127.82 M.P.D.

METHOD

Rotary

CASING DIAMETER

70mm

ORIENTATION Vertical

Drilling progress	Casing depth, size	Water Level	Water recovery %	Core recovery %	R.O.D. %	Fracture index/m	Tests	Samples	Depth metres	Reduced Level	Legend	Description	Core bit	Core grade
19/3	70mm		81	700					0	127.82		CONCRETE SLAB		
				80					0.15			YELLOWISH BROWN, GRAVEL & COBBLE ENCASED IN FINE SAND.		
				92					1	126.82		(FILL)		
			70	85					1.50			VERY FINE, BROWN, FINE SAND (FILL)		
				88					2			MODERATELY STRONG, GRAVEL & COBBLE OVER ROCK FRAGMENT WITH OCCASIONAL CEANARY SAND IN BETWEEN.		
19/3 20/3		1.45 AT 11:00 1.40 AT 12:00 1.30 AT 1:00	70	100					3	125.82		VERY STRONG, DARK GREY VOLCANIC BOULDER. (FILL)		
	70mm			100					4	124.82		STRONG, MOTTLED YELLOWISH GREY, CEMENTED SAND & SEVERAL CONCRETE BARS SQUARE JOINT REINFORCING WITH CONCRETE FOOTING.		
20/3 21/3		2.90 AT 11:00 1.45 AT 12:00 1.40 AT 1:00	81	100	0	*			5	123.82	VVV	STRONG TO VERY STRONG, GREY, LIGHT YELLOWISH GREY, FINE TO MEDIUM GRAINED, MEDIUM PLASTICITY MODERATELY WELL SORTED VOLCANIC - TUFF.		
				98	11	*			6	122.82	VVV			
				92	0	*			7	121.82	VVV			
21/3		6.70 AT 11:00	81	90	0	*			8	115.82	VVV	END OF HOLE.		

- Small disturbed sample
- ! Large disturbed sample (102mm)
- Undisturbed sample
- ▲ Water sample
- ⊕ Field permeability test
- M Moisture content (%)
- ▨ Mazier sample

- ▨ Liner sample (40mm)
- ∇ Water table
- ∨ Standard penetration test
- V Vane shear test
- ▨ U 76 Undisturbed
- ⊕ Piezometer

REMARKS

- \* : CANNOT BE DETERMINED.
- STANDARD SINGLE PILE CAPACITY TEST WAS INSTALLED BY DESIGN P.19
- STANDARD STANDARD TEST WAS INSTALLED BY DESIGN P.19

CONTRACTOR

DRILLHOLE RECORD

WORKS ORDER OR JOB NUMBER 542

Lam Construction Co., Ltd.

SITE NAME ... HOLE NO. ...

RIG TYPE ...

CO ORDINATES E X 20 69.62

DATE FROM ... TO ...

RIG NUMBER ...

N 12113.49

SHEET 1 OF 1

OPERATOR ...

HOLE DIAMETER

GROUND LEVEL 127.83 M.P.D.

METHOD Rotary

CASING DIAMETER 4x

ORIENTATION Vertical

Main data table with columns: Drilling progress, Casing depth, Water Level, Water recovery, Core recovery, R.O.D.%, Fracture Index, Tests, Samples, Depth metres, Reduced Level, Legend, Description, Core bit, Core grade.

- Small disturbed sample
: Large disturbed sample (102mm)
□ Undisturbed sample
▲ Water sample
↓ Field permeability test
M Moisture content (%)
▨ Mazier sample

- ▨ Liner sample (40mm)
▽ Water table
↓ Standard penetration test
V Vane shear test
□ U 76 Undisturbed
□ Piezometer

REMARKS
1. \* : cannot be determined.
2. Standard Penetration Test was installed at depth 10.0m
3. Standard Penetration Test installed at depth 6.0m
4. F.S. : fission sample.

CONTRACTOR

DRILLHOLE RECORD

WORKS ORDER OR JOB NUMBER 572

Lam Construction Co., Ltd.

SITE NAME

CASE RECORD NO. HOLE NO.

RIG TYPE

CO ORDINATES E 42051.76

DATE

RIG NUMBER

N 1812.59

SHEET 1 OF 1

OPERATOR

HOLE DIAMETER

GROUND LEVEL 127.49 M.P.D.

METHOD

CASING DIAMETER

ORIENTATION

Drilling progress	Casing depth, size	Water Level	Water recovery %	Core recovery %	R.O.D. %	Fracture index/m	Tests	Samples	Depth metres	Reduced Level	Legend	Description	Core bit	Core grade
1/2	NX								0			CONCRETE CURB.		
									0.00			VERY DENSE, BRN. YELLO		
									1			CLAY SANDY SILT WITH		
									1.25			CHALK & SAND FINE SAND		
									1.65			CLAY		
									2			MODERATELY STRONG TO		
									2.40			WEAK. YELLOWISH GRAY.		
									2.60			FINE TO MEDIUM GRAINED.		
									3			MODERATELY WEATHERED		
									3.40			VOLCANIC - FINE GRAINED		
									4			WEATHERED SAND & CLAY		
									4.60			SILT WITH CLAY SUB-		
									5			STRONG. DARK GREEN		
									5.70			FRAGILE.		
									6			GRAY. FINE TO MEDIUM		
									6.20			GRAINED. WEAKLY		
									6.40			WEATHERED VOLCANIC - FINE		
									6.60			CLAY CLAY SUB-WEATHERED		
									7			PROBLY CRUSHED STRONG		
									8			JOINTS. CORE WEATHERED		
									9					
									10			END OF HOLE		

- Small disturbed sample
- Large disturbed sample (102mm)
- Undisturbed sample
- ▲ Water sample
- ♦ Field permeability test
- M Moisture content (%)
- ▨ Mazier sample

- ▨ Liner sample (40mm)
- ▽ Water table
- ↓ Standard penetration test
- ∨ Vane shear test
- U 76 Undisturbed
- ⊕ Piezometer

REMARKS

1. \* : CLAY SANDY SUB-WEATHERED

2. STRONGER SAND WEATHERED

WAS INCLUDED BY REPORT 6.78

CONTRACTOR

DRILLHOLE RECORD

WORKS ORDER OR JOB NUMBER 542

Lam Construction Co., Ltd.

SITE NAME

HOLE NO.

RIG TYPE 70 x 30 CS - 0 - 58

CO ORDINATES E 41789.24

DATE FROM 20.11.55 TO 21.11.55

RIG NUMBER 403

N 1214.38

SHEET 1 OF 1

OPERATOR A.P.S.M. CHENG

HOLE DIAMETER

GROUND LEVEL 101.22 M.P.D.

METHOD Rotary

CASING DIAMETER 2 1/2

ORIENTATION Vertical

Drilling progress	Casing depth, size	Water Level	Water recovery %	Core recovery %	R.C.D. %	Fracture index/m	Tests	Samples	Depth metres	Reduced Level	Legend	Description	Core bit	Core grade
24 1/2	NX		85	85					0			BROWN, sandy clay with gravel (colluvium)		
							1805 2.8.10	2.5'	1		X X	MODERATE DENSE TO VERY DENSE, BROWN BROWN, Red, sandy clayey silt (colluvium)		
							1.2.10	2	1.80		X X	VERY DENSE, yellowish brown, silty fine to medium sand (C. G. V.)		
							2.30	2	2.10		V V	STRONG, interbedded brownish grey, clay, fine to medium grained, fracture increasing with depth		
							2.40	1.5'	2.10		V V	VOLCANIC - INT.		
							2.50	1	2.10		V V	END OF HOLE.		
27 1/2									3	3.10	V V V			
28 1/2									4	4.10	V V			
29 1/2									5	5.10	V V			
30 1/2									6	6.30	V V			

- Small disturbed sample
- ⊥ Large disturbed sample (102mm)
- ☐ Undisturbed sample
- ▲ Water sample
- ⬆ Field permeability test
- M Moisture content (%)
- ▨ Mazier sample

- ▨ Liner sample (40mm)
- ∇ Water table
- ⬆ Standard penetration test
- V Vane shear test
- ☐ U 76 Undisturbed
- Piezometer

REMARKS

1. \* 1 sample of soil compressed.
2. Standard undisturbed sample was installed by depth 1.2
3. Standard undisturbed sample installed by depth 2.1
4. P.S. 1 water sample.



CONTRACTOR

DRILLHOLE RECORD

WORKS ORDER OR JOB NUMBER

5722

Lam Construction Co., Ltd.

SITE NAME

HOLE NO. 447

RIG TYPE *Yama 02-G-5F*

CG COORDINATES  
E *42080.77*

DATE FROM *24.2.10* TO *24.2.10*

RIG NUMBER *RS3*

N *18106.57*

SHEET 1 OF 1

OPERATOR *M. S. M. CHEUNG*

HOLE DIAMETER

GROUND LEVEL *120.27* M.P.D.

METHOD *Rotary*

CASING DIAMETER *76*

ORIENTATION *Horizontal*

Drilling progress	Casing depth, size	Water Level	Water recovery %	Core recovery %	R.O.D. %	Fracture index/m	Tests	Samples	Depth metres	Reduced Level	Legend	Description	Core bit	Core grade
<i>24/2</i>			<i>90</i>	<i>100</i>	<i>100</i>				0		<i>00</i>	<p>MODERATELY STAINS TO STAINS, MOTTLED YELLOWISH GRAY, CONTAINS SMALL CLASTS OF CRACKLED CONCRETE BODIES. COARSE FOR REPAIRING ISHLL.</p> <p>VERY STRONG, DARK GRAY. VOLCANIC ROCKS. MEDIUM DENSE TO DENSE. YELLOWISH BROWN. (C. D. V.)</p>		
			<i>80</i>	<i>100</i>	<i>100</i>				1		<i>00</i>			
				<i>100</i>	<i>100</i>				1.60		<i>00</i>			
<i>24/2</i>				<i>100</i>	<i>100</i>				1.80		<i>00</i>			
									2					
									3					
									4					
									5					
									6					
									7					
									8					
									9					
									10					

- Small disturbed sample
- Large disturbed sample (102mm)
- ▣ Undisturbed sample
- ▲ Water sample
- ↑ Field permeability test
- M Moisture content (%)
- ▨ Mazier sample

- ▣ Liner sample (40mm)
- ▽ Water table
- ↓ Standard penetration test
- ∨ Vane shear test
- ▣ U 76 Undisturbed
- ⊕ Piezometer

REMARKS

CONTRACTOR

DRILLHOLE RECORD

WORKS ORDER OR JOB NUMBER 542

Lam Construction Co., Ltd.

SITE NAME ...  
HOLE NO. 2110

RIG TYPE *Tomo 22-0-18*

CO ORDINATES  
E 42079.85

DATE FROM 22.5.60 TO 22.5.60

RIG NUMBER *RS 3*

N 18107.45

SHEET 1 OF 1

OPERATOR *M. S. M. ...*

HOLE DIAMETER

GROUND LEVEL 124.57 M.P.D.

METHOD *Rotary*

CASING DIAMETER *Nx*

ORIENTATION *Unrecorded*

Drilling progress	Casing depth, size	Water Level	Water recovery %	Core recovery %	R.O.D. %	Fracture Index/m	Tests	Samples	Depth metres	Reduced Level	Legend	Description	Core bit	Core grade
<i>22/5</i>	<i>Nx</i>		<i>85</i>	<i>100</i>					0		<i>0.0</i>	<i>100.00m, STONE TO</i>		
				<i>100</i>					1		<i>0.0</i>	<i>STONE, MIDDLE YELLOWISH</i>		
				<i>100</i>					1.50		<i>0.0</i>	<i>CLAY, CONCRETION SAND IN</i>		
				<i>100</i>					2		<i>0.0</i>	<i>GRAVEL CONCRETE SAND</i>		
				<i>100</i>					2.30		<i>0.0</i>	<i>COURSE FOR REPAIRING WALL</i>		
				<i>100</i>					2.50		<i>0.0</i>	<i>MEDIUM DENSE TO DENS</i>		
				<i>100</i>					2.50		<i>0.0</i>	<i>YELLOWISH BROWN,</i>		
<i>22/5</i>	<i>Nx</i>		<i>85</i>						2.50		<i>0.0</i>	<i>COMPLETELY UNDISTURBED</i>		
									3		<i>0.0</i>	<i>VOLCANIC</i>		
									4					
									5					
									6					
									7					
									8					
									9					
									10					
									10					

- Small disturbed sample
- ⊥ Large disturbed sample (102mm)
- ⊞ Undisturbed sample
- ▲ Water sample
- ⊕ Field permeability test
- M Moisture content (%)
- ⊞ Mazier sample

- ⊞ Liner sample (40mm)
- ⊞ Water table
- ⊕ Standard penetration test
- ∇ Vane shear test
- ⊞ U 76 Undisturbed
- ⊞ Piezometer

REMARKS