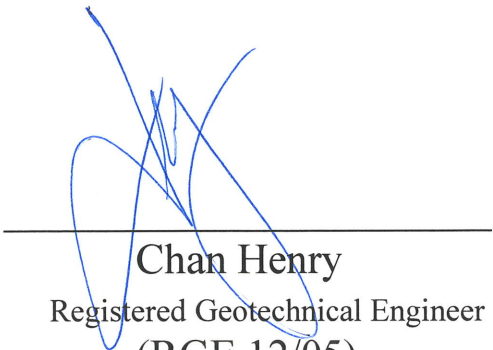


Geotechnical Planning Review Report
for
Section 16 Planning Application for Proposed Religious Institution
and Columbarium (Partial Redevelopment of Prajna Dhyana Temple)
at
Lot 112, 113RP (Part), 114,116,117 & 118 in DD2
Tung Chung, Shek Mun Kap, Tung Chung, Lantau Island

Section 16 Planning Application

December 2025



Chan Henry
Registered Geotechnical Engineer
(RGE 12/05)

CONTENT

- 1.0 Introduction
- 2.0 Site Description
 - 2.1 The Site
 - 2.2 The Proposed Development
- 3.0 Desk Study
 - 3.1 Subject Site Geology
 - 3.2 Subject Site Underground Water Regime
 - 3.3 Registered Geotechnical Features
 - 3.4 Adjoining Structures
- 4.0 Geotechnical Assessment
 - 4.1 Site Formation Works
 - 4.2 Foundation Works and Basement Works
 - 4.3 Natural Terrain Risk Assessment
- 5.0 Conclusion and Recommendations

APPENDICES

- Appendix A 1:400 Topographical Survey Plan and Proposed Architectural Layout Plan
- Appendix B Existing Ground Investigation (GI) Record **(Figure 1)**
- Appendix C Superimposed Development Layout Plan and Geotechnical Cross Sections **(Figure 2 to 5)**
- Appendix D SIS and SIMAR Slope Report
- Appendix E Enhanced Natural Terrain Landslide Inventory (ENTLI)
- Appendix F Boulder Field Inventory
- Appendix G Historical Landslide Catchment (HLC)
- Appendix H Demarcation Plan of NTHS **(Figure 6 to 8)**

1.0 Introduction

The Prajna Dhyana Temple with Ancillary Columbarium is located in No. 100 Shek Mun Kap, Tung Chung, Lantau Island is proposed to apply partial redevelopment under Section 16 planning application.

In order to cater for the need of increasing number of monks, disciples and members and to cope with its popularity as a religious centre, Buddhist Navigation Vihara Ltd. (the Applicant) would like to submit a planning application under section 16 of the Town Planning Ordinance (s.16 application) for the proposed partial redevelopment of the Temple. In addition, a new Amenity Block which is a 3-storey religious block over 1-storey of basement and a 2-storey religious cum columbarium block over 1-storey of basement are proposed under the development scheme. The proposed Architect scheme of this Application is attached in **Appendix A**. A 1:400 Scale Site Specific Topographical Survey Plan carried out for this assignment is also attached therein.

Lot Owners appointed Henry Chan & Partners Consultant Engineering Ltd (HCP) to act as RGE to prepare a Geotechnical Planning Review Report (GPRR) in associate with the temple partial re-development application to assess potential geotechnical issues.

2.0 Site Description

2.1 The Site

The subject Site (Prajina Dhyana Temple) at Tung Chung is a vast piece of flat land at approximately 3.6 hectare in total. It comprises of 6 pieces of private lots stick together. The layout of these lots are shown on site specific topographical survey plan in **Appendix A**.

The levels of the Site varies from approx. +17.00mpd North side gently rise up to approx. +20mpd i.e. with inclination angle of 18°. Whereas from East to West inclination angle across the site is less than 3° from +20mpd to +18.3mpd i.e. almost flat. There is only one slope within the area 10m outside the Application site boundary i.e. 9SE-C/C48. Further East beyond the 10m zone are registered Features 9SE-D/C70 & 9SE-D/F20 abutting Tung Chung Road. The remaining 3

sides are relatively flat areas with north and west side being rural land, to its south is Shek Mun Kap Road.

2.2 The Proposed Development

Based on Architectural Layout Plan, there are no major geotechnical works involved as the area is flat. However, there is a basement 4 m deep is proposed at the extension of ex. columbarium. Others are mainly low rise blocks and garden landscaping in open space areas with no geotechnical contents.

3.0 Desk Study

Details desk study was carried out to the subject site and its surrounding area to assess geotechnical conditions and potential hazard at the subject Site. For geology, search have been conducted from the Geotechnical Information. Unit (G.I.U.) of Civil Engineering and Development Repentant (CED) Results are presented below:

3.1 Subject Site Geology:

3.1.1 Existing Ground Investigation (GI) Record

There is no GI record on the subject Site. Existing ground investigation records in the vicinity were retrieved and a plan showing the GI locations is presented on layout plan attached in Appendix C (Figure 1). The drillholes were primarily carried out along Shek Mun Kap Road, along the South bound of the Application Site.

There were 3 trial pits logs retrieved along the East bound of the Site. All trial pits were carried out by GCE (HK) Ltd in 2002 for the Improvement of Tung Chung Road, here as the 2 drillholes were sunk by Driltech in 2018 for Tung Chung New Town Extension, and 1 drillhole by GCE in 2022 for the Improvement in Tung Chung Road. All existing GI results are attached in **Appendix B**.

Based on the above, it can be inferred the subject Site sub-soil strata comprises of:

- i. Old Top Soil/FILL – Loose, moist, grey dark, coarse SAND with occasional angular sub rounded fine to coarse gravel. The existing Topsoil might have removed or disturbed within the Site due to human activities. Hence, it is possible the topsoil be found as FILL on Site.
- ii. Colluvium – Underlain Top Soil/FILL layer is colluvium. It is expected to be Firm, brown, moist sandy SILT with occasional angular gravels and sub-rounded boulders.
- iii. In-situ soil – Two different completely decomposed rock type were logged in drillhole records. They are namely Rhyolite and Tuff. Grade V CDT were logged in DH215 & DH216. Whereas Completely Decomposed Rhyolite (Grade V) in CTBH5, which is located further uphill towards the hillside. This geological condition is quite possible in view of these two rocks are closely related but distinct. Rhyolite is igneous rock formed from lava. Tuff is a pyroclastic rock formed from volcanic ash.

Nonetheless, from engineering perspective the underlying in-situ soil stratum based on available drillhole results are expected to be at 3m deep below existing ground surface, with SPT N-value >15, which can be expected to be medium dense in-situ soil stratum.

FILL was encountered in drillholes along Shek Mun Kap Road. However, it is considered this layer of FILL materials is likely associated with the forming of the trunk Road. Thus, no relationship with the subject Site. Alluvium (AL) was found in TP5, however, this is the only GI records encountered AL. Hence, it is inferred the present of AL should be localized if any on the subject Site.

3.2 Subject Site Underground Water Regime

There is no measured groundwater records from available from GI results. However, all trial pits in the vicinity has recorded the top soil layer was moist. In addition, based on the water measurement taken in individual drillhole each

morning during drilling operation indicated that groundwater encountered was approximately 1.95 to 3.0m below ground. Hence, it is envisaged underground water table present within the in-situ soil surface, or at the interface between the top soil layer and in-situ soil i.e. perched water. Consequently, it is expected the assumed design ground level for the subject Site will be high.

An overall redevelopment layout plan and geological sections are presented as Figure 2 to 4 attached in **Appendix C**.

3.3 Registered Geotechnical Features

The subject Site is practically flat within its site boundary. Outside its 10m zone on plan, there is only one Registered Feature 9SE/C/C48 which lies adjacent to the proposed Site next to the existing Columbarium. Critical Cross Section A-A presented in **Appendix C** has shown how it can possibly affect or be affected by the proposed new Columbarium extension. The SIS and SIMAR Slope reports of 9SE-C/C48 are attached in **Appendix D**. Further discussion on its effect on columbarium extension is presented in Section 4.0.

Other nearby Registered Features as shown on layout plan which are located beyond the 10m zone measured from Site boundary. They are consider to be too far to impose any geotechnical problem. Hence, they are not included in this Report. These features are namely 9SE-C/C70 and 9SE-D/F20.

3.4 Adjoining Structures

There are no structure in the vicinity of the Study Area apart from the existing Columbarium itself.

4.0 Geotechnical Assessment

4.1 Site Formation Works

No site formation works in envisaged for this Application Site. The ground topography is relatively flat, all proposed new structures are only low-rise storey blocks.

There is only one registered slope feature 9SE-C/C48 lies within site boundary is shown in Figure 2. Stability check will be carried out to this Feature, and it will be upgraded to meet current FOS if found necessary. Detailed design submission will be made to relevant Government Departments for approval.

4.2 Foundation Works and Basement Works

All low rise blocks shall be found on shallow pad footings. No geotechnical problems are envisaged.

Proposed Basements are upto 4m deep, as both basements are located close to site boundary, lateral support excavation system is required. Again, all proposed ELS works will be submitted to relevant Government Departments for approval (Fig 2 to 4 refers).

4.3 Natural Terrain Risk Assessment

4.3.1 Screening of Sites Subject to Natural Terrain Hazard

There is a natural hillside catchment located on the East side of the Site. At the top of this natural hillside, extensive man-made Features were made for the construction of Tung Chung Road (Figure 6 in **Appendix H** refers).

It can be seen that there is a 47m buffer between the natural catchment and the Site. However, it still falls within the screening criteria of a 'hillside' sloping at more than 15° within 100m upslope of the Site boundary. Hence, the following information regarding natural landslide inventory and records are further reviewed.

4.3.2 Enhanced Natural Terrain Landslide Inventory (ENTLI)

The ENTLI is a territory-wide catalogue of features considered to be natural terrain landslides as identified from aerial photographs. No recent landslide was report within and in the vicinity of the site. Relict landslide was report in the vicinity of the site, ENTLIF Feature no. 9SED02348E. The ENTLI is enclosed in **Appendix E** for reference

4.3.3 Boulder Field Inventory

The site falls mainly within Polygon No. S9_393 of the Boulder Field Inventory as shown in **Appendix H**.

4.3.4 Recorded Landslide Incident

No landslide incident within the vicinity of the site could be located at the GEO.

4.3.5 Historical Landslide Catchment (HLC)

No HLC falls within the site's catchment area. The extent of the nearby HLCs is shown in **Appendix G**

4.3.6 Demarcation of Natural Terrain Catchment to be Studied

The Catchment Area under review has one past relict landslide record only. Based on GEO Report no.138, the proposed site is classified as Group 2(a) in Table 2.2. Referring to Section 2.3.3 In-principle Objection Criteria, the Site is not faced with severe terrain hazards. Hence, it does not satisfy the in In-principle Objection Criteria.

In apply the 'Alert Criteria' Fig. 2.5 with the aid of 20 Angular Elevation of natural terrain, a proposed NTHS demarcation plan is attached in **Appendix H** (Figure 7 & 8). Since a NTHS is proposed, this includes an evaluation of boulder fall hazard. Hence, the risk of boulder falls affecting the redevelop Site will not be overlooked. Also, the portion of 9SE-D/ND8 & 9SE-D/NS2.

5.0 Conclusion and Recommendations

Further to the review of this report, the Partial Redevelopment of Prajina Dhyana Temple with Ancillary Columbarium is considered geotechnically feasible.

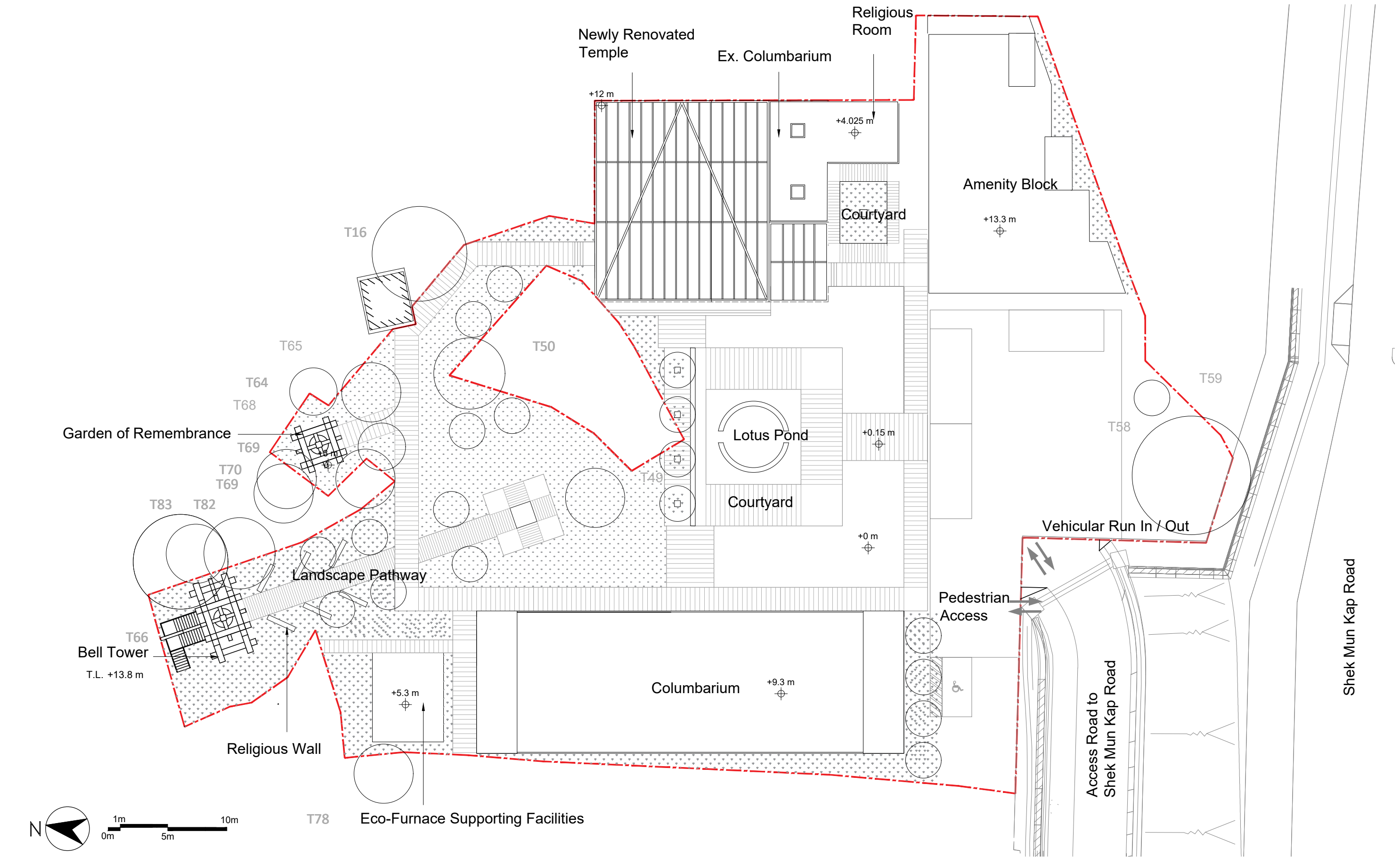
- 5.1 There is no Registered Slope Feature within the Subject Site boundary. However, there is one Registered Feature 9SE-C/C48 which lies within 10m plan area outside the Subject Site. All proposed geotechnical works will be ensure that it will not adverse affect or be affected by this Feature. Stability check shall be

carried out to this Feature, Specific Ground Investigation is required. It will be upgraded to meet current FOS if found necessary. Proposed upgrading works shall be submitted to relevant Government Departments for approval.

- 5.2 There are basements proposed under the Amenity Block and Columbarium respectively. The location of these basements shall not rise geotechnical problems during design and construction stages. Specific Ground Investigation will be required to determine geotechnical design perimeters. ELS works plans if necessary will be submitted to relevant Government Departments for approval
- 5.3 Under GEO report 138, Alert Criteria in Fig.2.5, Natural Terrain Hazard Study is required to the East side of the Site. The proposed NTHS study area is attached in Appendix H.

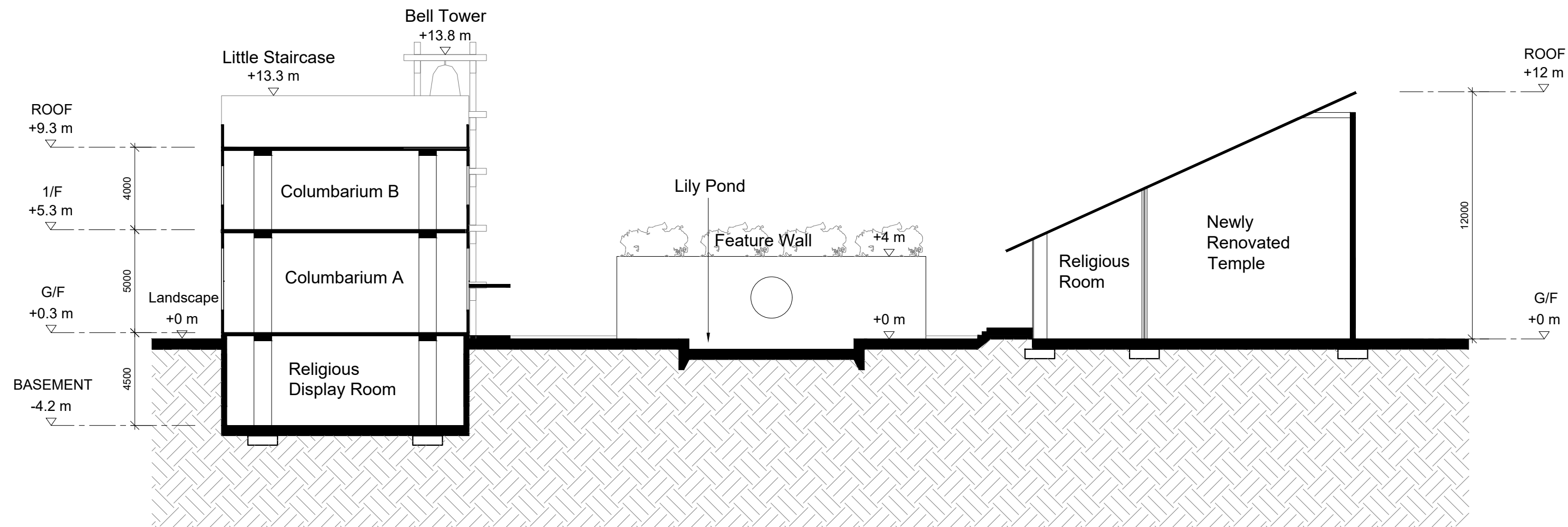
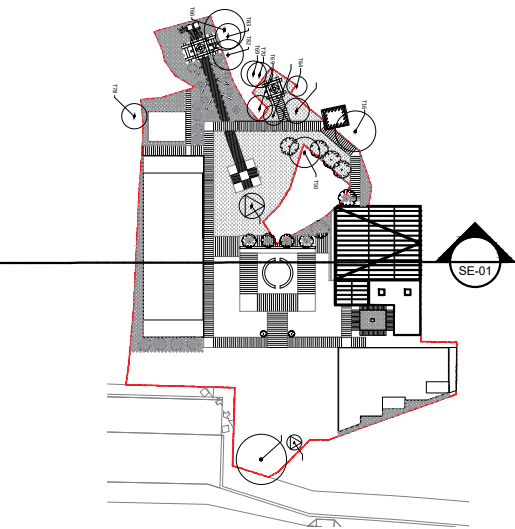
Appendix A

1:400 Topographical Survey Plan and Proposed Architectural Layout Plan



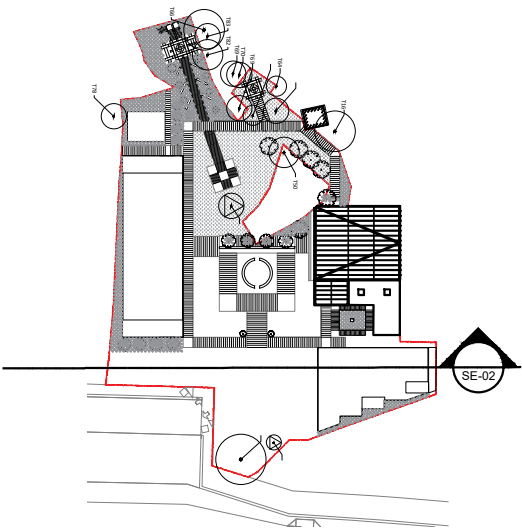
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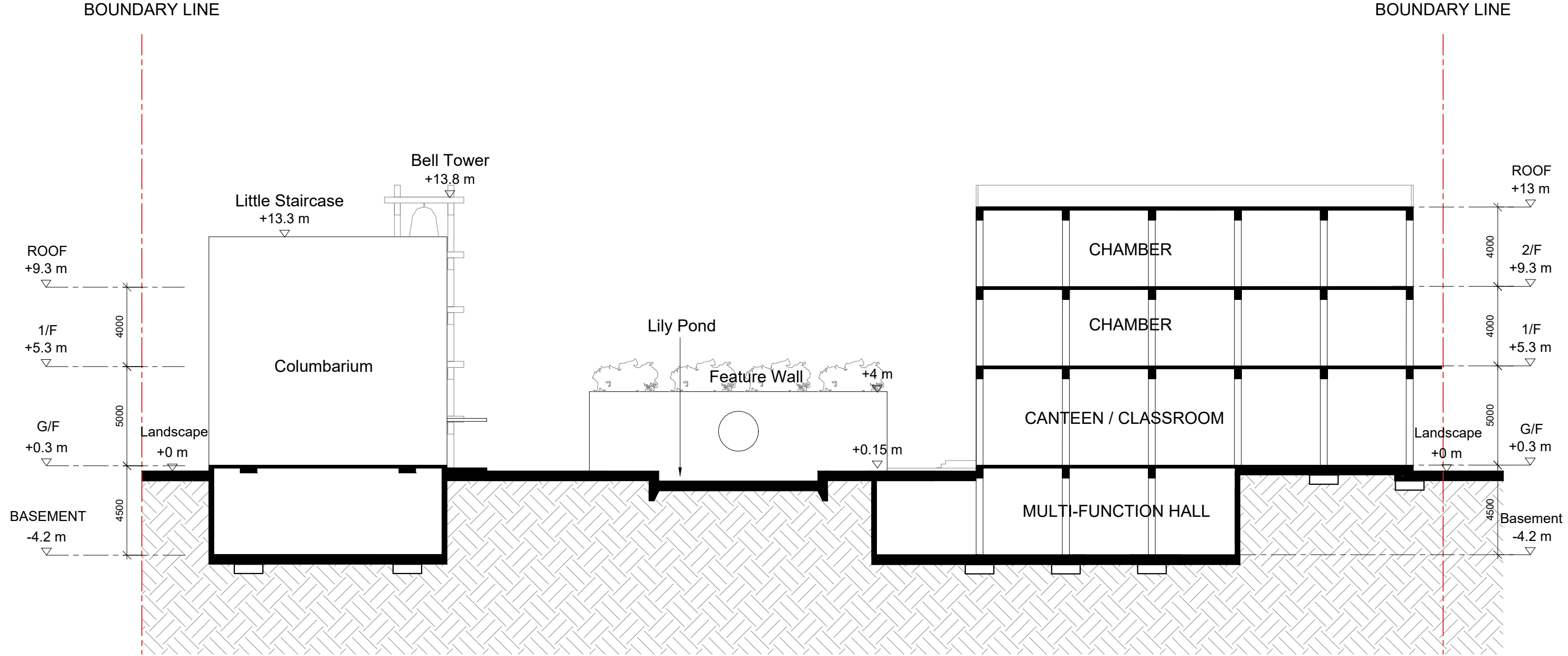


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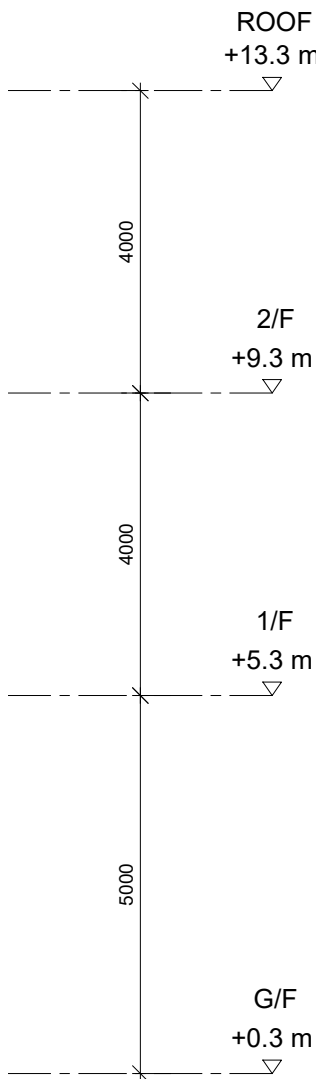
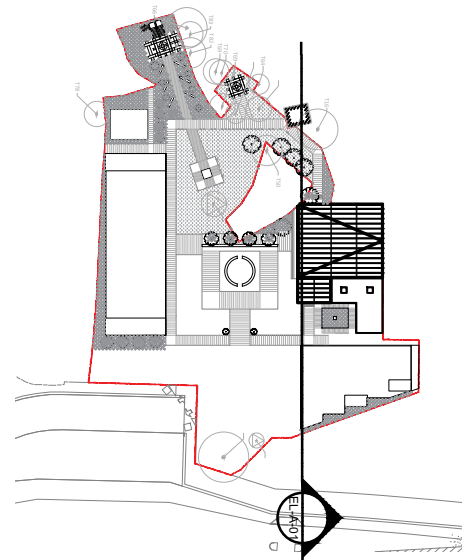
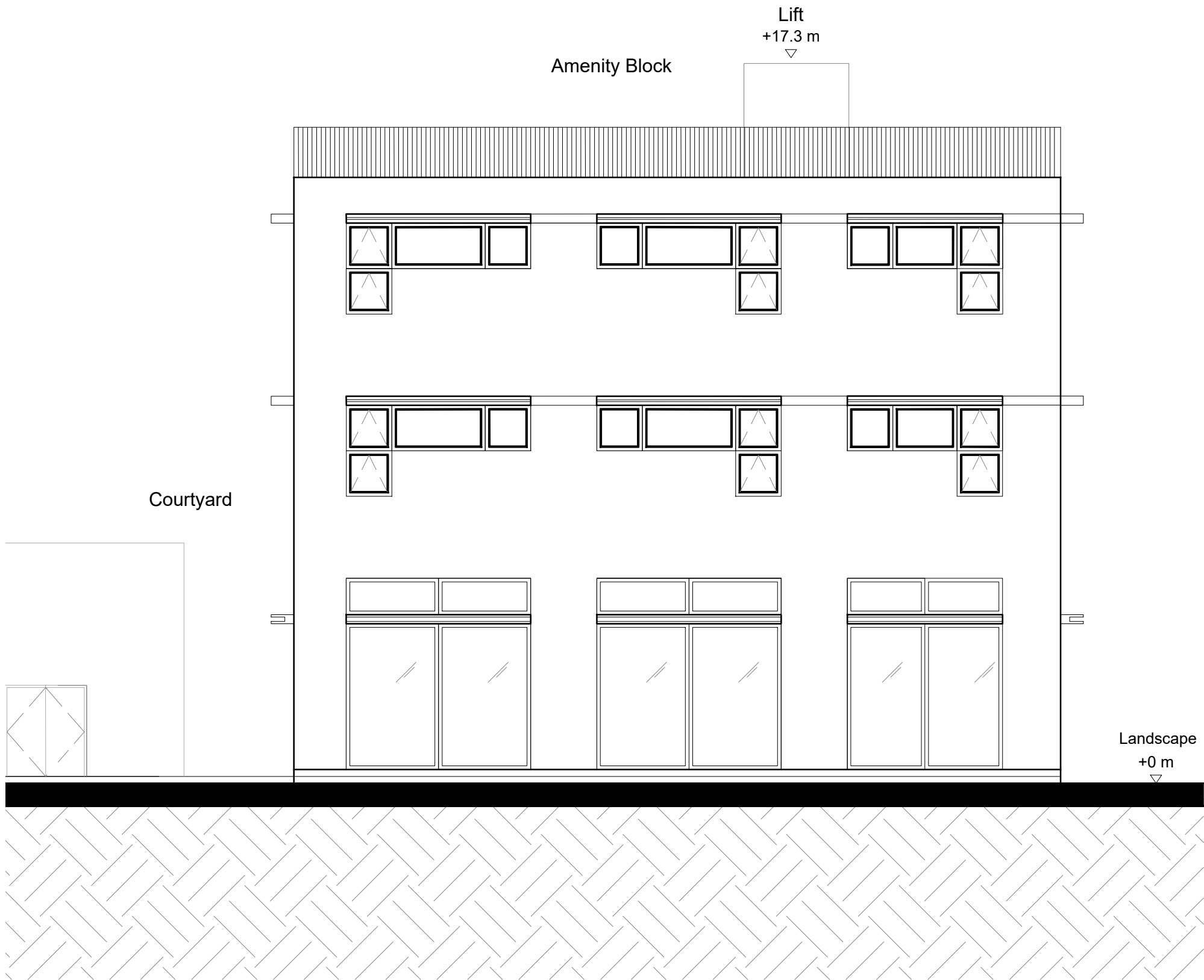


BOUNDARY LINE



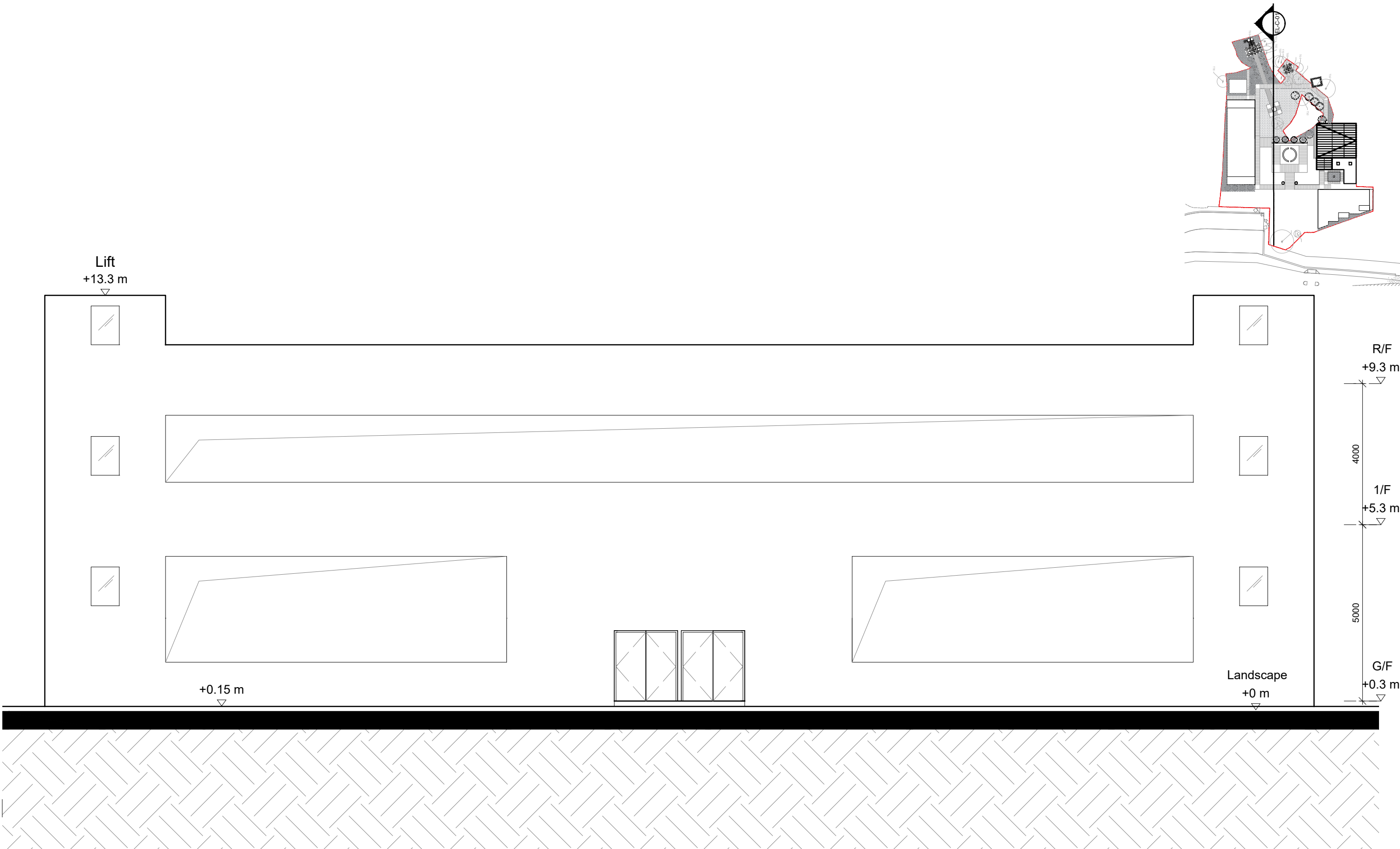
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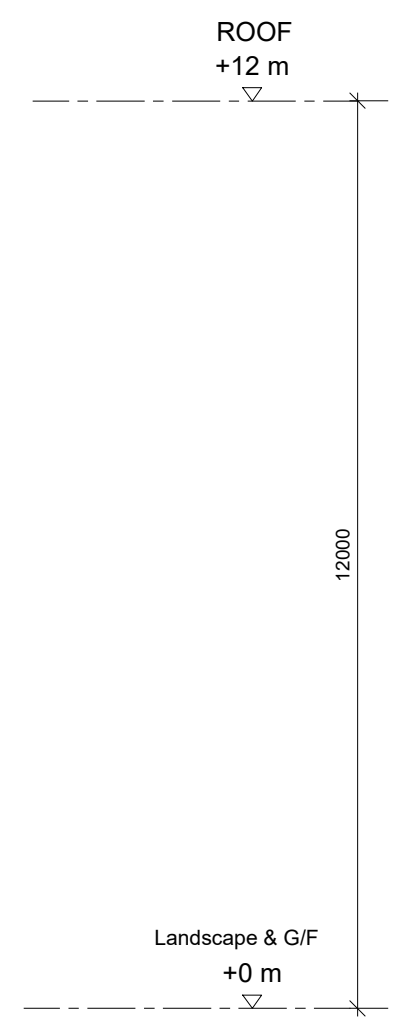
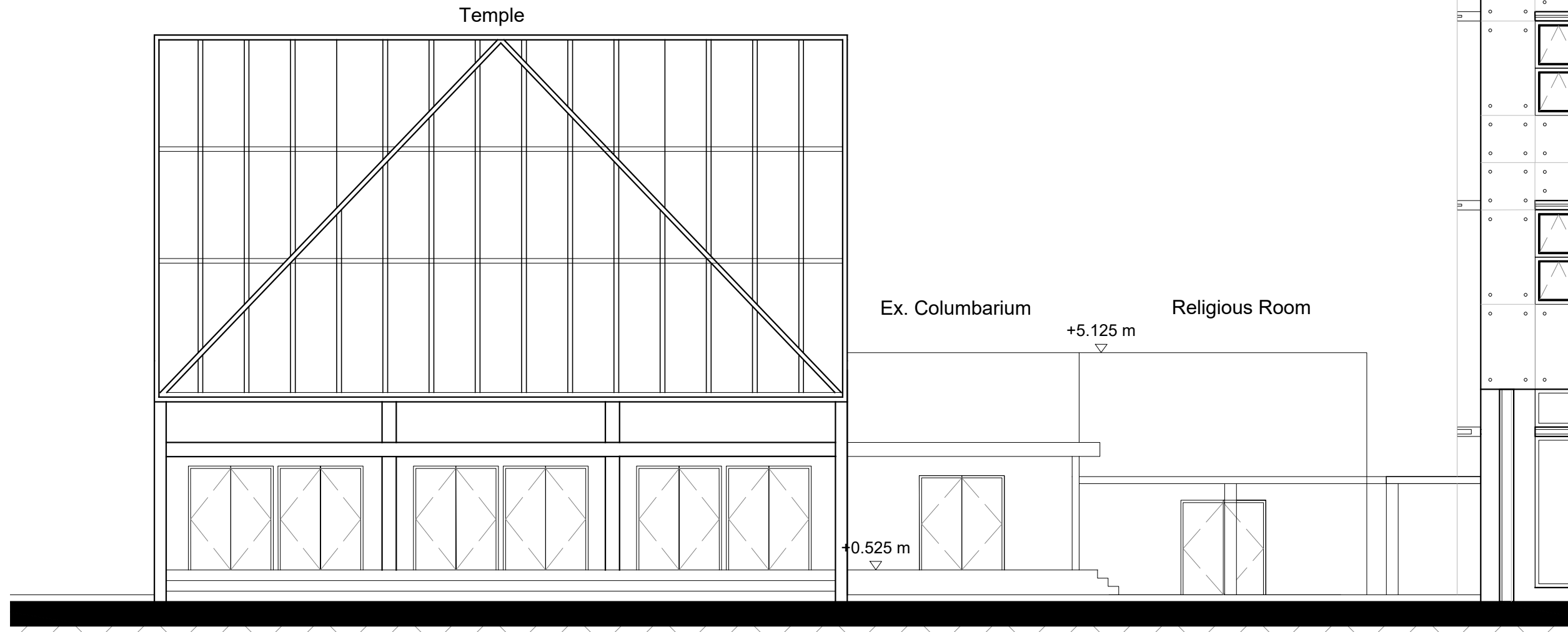
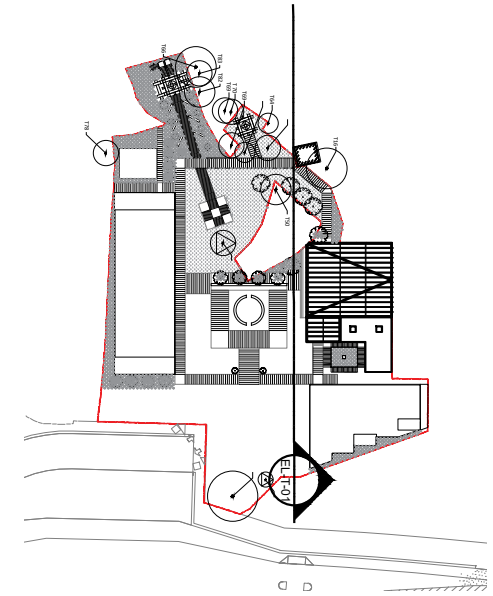
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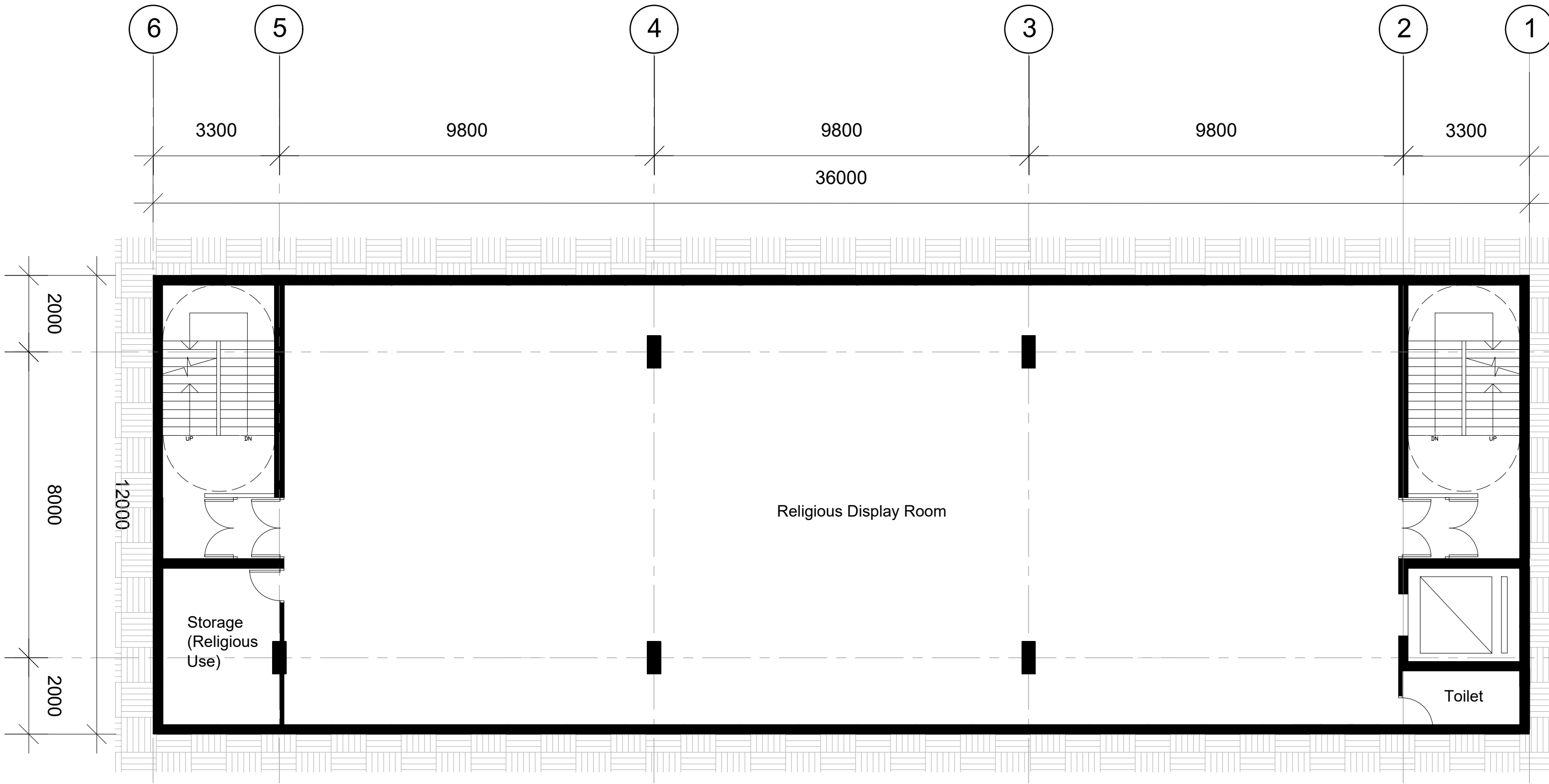
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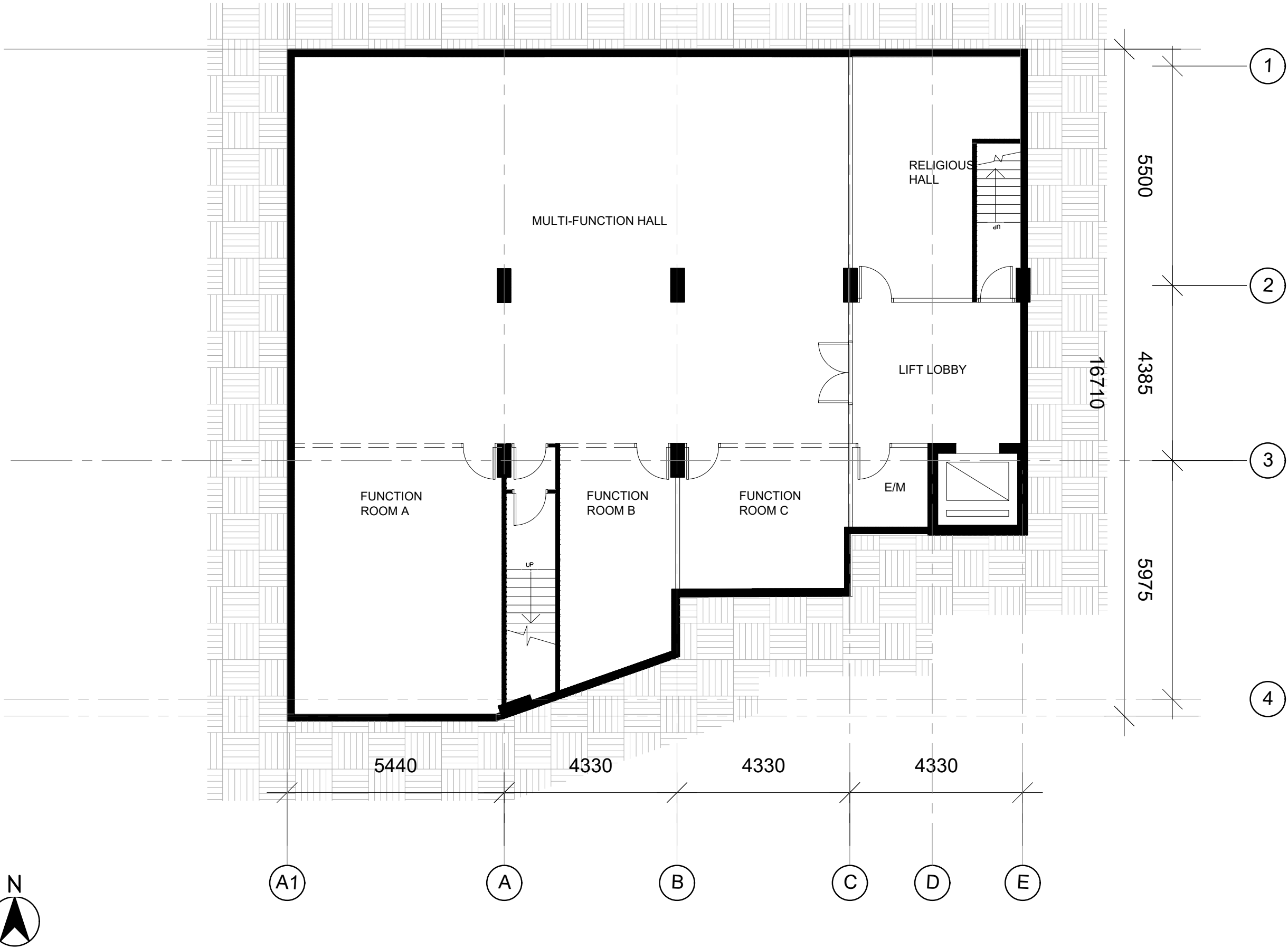
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Appendix B

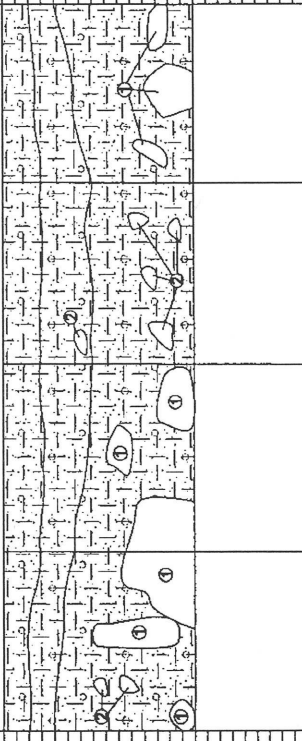
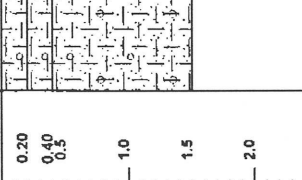
Existing Ground Investigation (GI) Record (Figure 1)

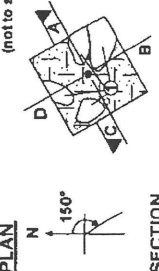
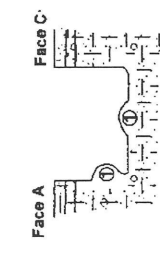
Samples & Test	Depth (m)	Sketch	Depth (m)	Legend	Description	Grade	
2 1	0.5		0.30		Firm, moist, dark grey (7.5YR 4/1), clayey, sandy SILT with occasional angular to subangular fine to coarse gravel and subrounded boulder sized strong tuff fragments and some rootlets. (OLD TOP SOIL)		
5 4 3	1.0		0.5				
7	1.5		1.0			Firm, moist, yellowish brown (10YR 5/8) mottled red, clayey, sandy SILT with some angular to subangular fine to coarse gravel, cobble sized rock fragments and occasional subrounded boulder of moderately strong tuff fragments (maximum size 0.80m x 1.20m). (COLLUVIUM)	
10 9 8	2.0		1.5				
12	2.5		2.0				
15 14 13	3.0		2.5			Extremely weak to very weak, light brownish yellow (10YR 6/8) applied light grey, completely to highly decomposed, coarse ash TUFF. (Stiff to very stiff, slightly clayey, sandy SILT with some angular coarse gravel and cobble sized weak rock fragments)	V/V
	3.5		3.0			End of Trial pit at maximum depth 3.20m.	
	4.0		3.5				
	4.5		4.0				
	5.0		4.5				
	5.5		5.0				
	6.0		5.5				
		6.0					

Notes:
1. Small disturbed samples were taken at 0.50m, 1.00m, 1.50m, 2.00m, 2.50m and 3.00m depths.
2. Large disturbed samples were taken at 1.00m, 2.00m and 3.00m depths.
3. Block samples were taken at 1.00m, 2.00m and 3.00m.
4. Undisturbed vertical samples (U100) were taken at 0.50m, 1.50m and 2.50m depths.
5. In-situ density tests (Sand Replacement Test) were carried out at 1.00m, 2.00m and 3.00m.

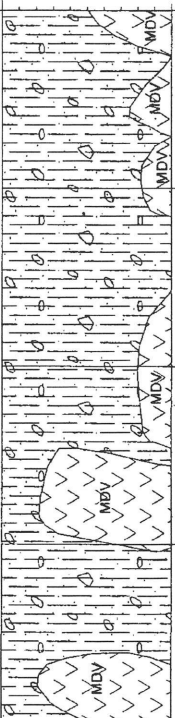
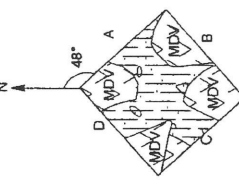
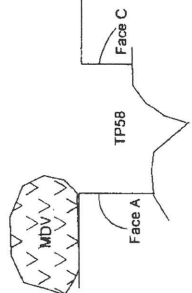
FACE A: 1.50 m FACE B: 1.50 m FACE C: 1.50 m FACE D: 1.50 m

SYMBOLS		REMARKS		PLAN (not to scale)		PROJECT		TRIAL PIT NO.	
Small Disturbed Sample	Ground Water	No Groundwater	Plant Used	Hand dug	Shoring	Timber shoring over full height	Contract No. :	GE/2001/14	 GEOTECHNICS & CONCRETE ENGG. (HONG KONG) LIMITED GROUND INVESTIGATION DEPARTMENT
Large Disturbed Sample	Depth at pit centre	3.00m	Others	NIL			Works Order No. :	GE/2001/14.40	
Undisturbed Vertical Sample	Water Sample						Co-ordinates :		
Undisturbed Horizontal Sample	Water Seepage						E 814251.18 N 814552.07		
Block Sample	In situ Density Test						Ground Level : 30.38 mPD	15/08/2002 to 20/09/2002	
							Logged by : K.M. To	10/09/2002 to 13/09/2002	
							Date logged : 21/08/2002		
							Checked by : James Lu		
							Date Checked : 22/08/2002		

Samples & Test	Depth (m)	Sketch	Depth (m)	Legend	Description	Grade
       	0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0		0.20 0.40 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0		Notes: 1. Small disturbed samples were taken at 0.50m, 1.00m and 1.50m depths. 2. Large disturbed sample was taken at 1.00m depth. 3. Undisturbed vertical samples (U100) were taken at 0.50m and 1.50m depths. 4. In-situ density test (Sand Replacement Test) was carried out at 1.00m depth. 5. Water seepage at 1.20m depth.	

SYMBOLS  Small Disturbed Sample  Large Disturbed Sample  Undisturbed Vertical Sample  Undisturbed Horizontal Sample  Block Sample  Insitu Density Test  Water Sample  Water Seepage		REMARKS Ground Water Ground water at depth 1.30m. Plant Used Hand dug Shoring Timber shoring over full height Stability No collapse Depth at pit centre 1.50m Others NIL		PLAN (not to scale) 		SECTION 		PROJECT Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Investigation and Preliminary Assignment Ground Investigation		TRIAL PIT NO. TP5	
Contract No. : GE/2001/14		Works Order No. : GE/2001/14.40		Co-ordinates : E 811257.05 N 814803.18		Sheet 1 of 1		Date excavated 20/08/2002 to 22/08/2002		Date Reinstated 09/09/2002 to 13/09/2002	
Ground Level : 28.72 mPD		Logged by : K.M. To		Date logged : 23/08/2002		Checked by : James Lu		Date Checked : 24/09/2002		GEOTECHNICS & CONCRETE ENGG. (HONG KONG) LIMITED GROUND INVESTIGATION DEPARTMENT	

		VIBRO (H.K.) LTD. SITE INVESTIGATION DEPARTMENT		TRIAL PIT No.: TP58	
		TRIAL PIT RECORD		SHEET 1 OF 1	
PROJECT	Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Investigation and Preliminary Assignment Ground Investigation (Section 2)			CONTRACT No.	GE/99/07
STARTED ON	14/12/2001	CO-ORDINATES	E 811235.07	WORKS ORDER No.	GE/99/07.60B
COMPLETED ON	17/12/2001		N 814641.75	LOGGED BY	T. C. Yip
				DATE	18/12/2001
BACKFILLED ON	27/12/2001	GROUND LEVEL	+ 22.17 mPD	CHECKED BY	A. W. Horspool
				DATE	21/12/2001

GRADE					
DESCRIPTION		Firm, brown (7.5YR 5/40, moist, sandy SILT with occasional angular to subangular cobbles. (COLLUVIUM) End of Trial Pit at 1.00m. Bottom: Subangular to subrounded BOULDERS (MDV) with maximum sized 0.60 x 0.80m. (COLLUVIUM)			
LEGEND					
DEPTH (m)	1.00				
SKETCH	FACE A 1.50 m		FACE B 1.50 m		FACE C 1.50 m
	FACE D 1.50 m				
					
DEPTH (m)	0.50 1.00 2.00 3.00 4.00				
SAMPLES & TESTS					
SYMBOLS		REMARKS			
Small disturbed sample Large disturbed sample Undisturbed horizontal sample Undisturbed vertical sample Block sample In situ density test Water seepage Water sample Percolation test		1. The sides of the trial pit were supported over their full height with timber shoring. 2. The sides of the trial pit were stable during excavation. 3. Average depth 1.00m. 4. Large disturbed samples taken from 0.80 to 1.00m.			
        					

DRILTECH

DRILLHOLE RECORD

CONTRACT NO. NL/2017/02

HOLE NO. **DH215**

SHEET **1** of **5**

PROJECT **Tung Chung New Town Extension (West) - Site Investigation Works, GI Works at Shek Mun Kap Village and Wong Nai Uk Village**

METHOD **ROTARY**

CO-ORDINATES

WORKS ORDER NO. **NL/2017/02/GI/SMK01**

MACHINE **SD5**

E 811202.87
N 814564.99

DATE **31.10.2018** to **06.11.2018**

FLUSHING MEDIUM **WATER**

ORIENTATION **VERTICAL**

GROUND LEVEL **+21.42 mPD**

Drilling Progress	Casing Size	Water Level (m) Shift Start/End	Water Return%	TCR%	SCR%	RQD%	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
31.10.2018	SW													
1			70	68					1 0.00 0.45 T2-120	+21.42 +20.92	0.00 0.50			Brownish yellow (10YR 6/8) mottled brown, silty sandy CLAY with some angular to subangular fine to medium gravel and with occasional asphalt fragments. (FILL)
2			70	0					2 1.00 1.50 T2-120	+20.42 +19.92	1.00 1.50			Brown (10YR 4/3), clayey sandy SILT with some subangular fine to coarse gravel and with occasional concrete fragments. (FILL)
3	SW 3.00m PW		70	18					3 2.50 2.60 T2-120	+18.82 +18.42	2.60 3.00			Brownish yellow (10YR 6/8) mottled grey, subangular, COBBLE and BOULDER of slightly decomposed tuff fragments. (FILL)
4			70	95					4 3.00 4.00 4.10 4.20 5 4.50	+18.42	3.00	V		Reddish yellow (5YR 6/8) mottled red, subangular, silty sandy fine to coarse GRAVEL and COBBLE of rock fragments. (FILL)
5								4.1 2.4,4.5 N=15	6 4.00 4.10 4.20 7 4.50					Extremely weak, light grey (10YR 7/1) dappled reddish brown, completely decomposed RHYOLITE. (Stiff, slightly sandy clayey SILT with occasional angular fine gravel)
6		0.52 at 1800 1.05 at 0800	70	0					8 5.00 6.00 6.10 9 6.10	+16.42 +15.32	5.00 6.10	V		Extremely weak, light grey (10YR 7/1) dappled reddish brown, completely decomposed RHYOLITE. (Stiff, slightly sandy silty CLAY with occasional angular fine gravel)
7			70	100					10 7.10 7.20 7.30 11 7.60			V		Extremely weak, brownish yellow (10YR 6/8), completely decomposed RHYOLITE. (Very stiff, slightly sandy SILT with occasional angular fine gravel)
8								13.3 3.4,5,6 N=18	12 7.60 13 8.10 14 8.10 15 8.20 8.30 16 9.60	+13.32	8.10	V		Extremely weak, light grey (10YR 7/1) dappled brownish yellow, completely decomposed RHYOLITE. (Very stiff, clayey sandy SILT with some angular fine gravel)
9			70	100										
10								3.4 4.5,6,8 N=21		+11.42	10.00			

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- U70 SAMPLE
- PISTON SAMPLE (76mm)
- HAZIER SAMPLE
- SPI LINER SAMPLE
- WATER SAMPLE
- U100 SAMPLE

- STANDARD PENETRATION TEST
- IN-SITU VANE SHEAR TEST
- PACKER TEST
- PERMEABILITY TEST
- PRESSUREMETER TEST
- BOREHOLE TELEVIEWER
- PIEZOMETER TIP
- STANDPIPE TIP

LOGGED **C. Chan**
DATE **10.11.2018**
CHECKED **R. Chu**
DATE **15.11.2018**

REMARKS

- An inspection pit was excavated to 1.00m deep by hand tools.
- Acoustic borehole televiewer survey was carried out from 28.00m to 42.78m.
- A standpipe was installed to 10.00m.

DRILTECH DRILLHOLE RECORD CONTRACT NO. NL/2017/02										HOLE NO. DH215				
										SHEET 2 of 5				
PROJECT Tung Chung New Town Extension (West) - Site Investigation Works, GI Works at Shek Mun Kap Village and Wong Nai Uk Village														
METHOD ROTARY					CO-ORDINATES E 811202.87 N 814564.99			WORKS ORDER NO. NL/2017/02/GI/SMK01						
MACHINE SD5								DATE 31.10.2018 to 06.11.2018						
FLUSHING MEDIUM WATER					ORIENTATION VERTICAL			GROUND LEVEL +21.42 mPD						
Drilling Progress	Casing Size	Water Level (m) Shift Start/End	Water Return%	TCR%	SCR%	RQD%	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
11			70	100				12.3 4,5,6,8 N=23 ↓	17 10.10 18 11.10 19 11.20 20 11.30 20 11.60	+21.32	10.10		V	As sheet 1 of 5. Extremely weak, light grey (10YR 7/1) dappled brownish yellow, completely decomposed RHYOLITE. (Clayey silty fine to coarse SAND with much angular fine to medium gravel)
12			70	100					21 12.10				V	
13	PW 13.20m HW							5,6 10,17,20,24 N=71 ↓	22 13.10 23 13.20 24 13.30 24 13.60				V	
14			70	100					25 14.10				V	
15			70	100				4,9 12,19,23,27 N=81 ↓	26 15.10 27 15.20 28 15.30 28 15.60				V	
16			70	100					29 16.10				V	
17			70	100				12,15 15,17,23,29 N=84 ↓	30 17.10 31 17.20 32 17.30 32 17.60				V	
18	0.51 at 1600 3.10 at 0800		70	80					33 18.10				V	
19								20,39 100/50mm 100/150mm ↓	34 19.10 35 19.20 35 19.35				V	
20										+1.42	20.00		V	

LEGEND

⊥ SMALL DISTURBED SAMPLE	↓ STANDARD PENETRATION TEST
⊥ LARGE DISTURBED SAMPLE	∇ IN-SITU VANE SHEAR TEST
▨ U70 SAMPLE	○ PACKER TEST
▨ PISTON SAMPLE (76mm)	○ PERMEABILITY TEST
▨ MAZIER SAMPLE	○ PRESSUREMETER TEST
□ SPT LINER SAMPLE	○ BOREHOLE TELEVIEWER
▲ WATER SAMPLE	■ PIEZOMETER TIP
■ U100 SAMPLE	□ STANDPIPE TIP

LOGGED C. Chan

DATE 10.11.2018

CHECKED R. Chu

DATE 15.11.2018

REMARKS

										DRILLHOLE RECORD CONTRACT NO. NL/2017/02				HOLE NO. DH216	
										SHEET 1 of 5					
PROJECT Tung Chung New Town Extension (West) - Site Investigation Works, GI Works at Shek Mun Kap Village and Wong Nai Uk Village															
METHOD ROTARY								CO-ORDINATES E 811229.77 N 814567.08				WORKS ORDER NO. NL/2017/02/GI/SMK01			
MACHINE SD4												DATE 17.11.2018 to 29.11.2018			
FLUSHING MEDIUM WATER								ORIENTATION VERTICAL				GROUND LEVEL +25.21 mPD			
Drilling Progress	Casing Size	Water Level (m) Shift Start/End	Water Return%	TCR%	SCR%	RQD%	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description	
17.11.2018	SW													Yellowish brown (10YR 5/4), slightly clayey sandy SILT with much angular to subangular fine to coarse gravel. (TOP SOIL)	
1			0	50					1	0.00	0.00				
									T6-146	+24.71	0.50			Grey (5Y 6/1) and pale red (2.5YR 7/2), angular to subangular, fine to coarse GRAVEL and COBBLE of rock fragments. (FILL)	
2			0	50											
	SW 2.18m								T6-146						
	PW		70	90					T2-120	+23.03	2.18			Grey (10YR 5/1) mottled brownish yellow, angular to subangular, coarse GRAVEL and COBBLE of rock fragments. (COLLUVIUM)	
17.11.2018		1.03 at 1800	70	70					T2-120						
21.11.2018		Dry at 1300	70	70	0	0	NA			+22.11	3.10		V	Extremely weak, yellow (10YR 7/8) mottled light grey, completely decomposed fine ash TUFF. (Very stiff, slightly sandy clayey SILT with occasional angular fine gravel)	
4			70	100					2						
									3						
									4						
									5						
									6	+19.81	5.40		V	Extremely weak, white (N8/) mottled reddish yellow and light red, completely decomposed fine ash TUFF. (Very stiff, slightly sandy clayey SILT with occasional angular fine gravel)	
6			70	100					7						
									8						
									9						
21.11.2018		4.16 at 1800							10						
22.11.2018		5.15 at 0800							11						
7									12						
									13						
									14	+15.21	10.00				
8			70	95											
9															
10			70	49											

⊥ SMALL DISTURBED SAMPLE
 ⊥ LARGE DISTURBED SAMPLE
 ▨ U76 SAMPLE
 ▨ PISTON SAMPLE (76mm)
 ▨ MAZIER SAMPLE
 □ SPT LINER SAMPLE
 ▲ WATER SAMPLE
 ■ U100 SAMPLE

⊥ STANDARD PENETRATION TEST
 ∨ IN-SITU VANE SHEAR TEST
 ⊥ PACKER TEST
 ⊥ PERMEABILITY TEST
 ⊥ PRESSUREMETER TEST
 ⊥ BOREHOLE TELEVIEWER
 ⊥ PIEZOMETER TIP
 ⊥ STANDPIPE TIP

LOGGED C. Chan
DATE 10.12.2018
CHECKED R. Chu
DATE 18.12.2018

REMARKS

- An Inspection pit was excavated to 0.50m deep by hand tools.
- Constant head permeability tests were carried out at sections from 5.00m to 6.50m and 17.65m to 19.15m.
- Acoustic borehole televiewer survey was carried out from 34.30m to 46.96m.
- A standpipe was installed to 7.00m.
- A piezometer was installed with tip at 13.00m.

										DRILLHOLE RECORD CONTRACT NO. NL/2017/02										HOLE NO. DH216	
										SHEET 2 of 5											
PROJECT Tung Chung New Town Extension (West) - Site Investigation Works, GI Works at Shek Mun Kap Village and Wong Nai Uk Village																					
METHOD ROTARY										CO-ORDINATES E 811229.77 N 814567.08					WORKS ORDER NO. NL/2017/02/GI/SMK01						
MACHINE SD4															DATE 17.11.2018 to 29.11.2018						
FLUSHING MEDIUM WATER										ORIENTATION VERTICAL					GROUND LEVEL +25.21 mPD						
Drilling Progress	Casing Size	Water Level (m) Shift Start/End	Water Return%	TCR%	SCR%	RQD%	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description							
11			70	100					15 10.40 16 10.50				V	As sheet 1 of 5.							
12								3.5 5,7,8,10 N=30	17 11.50 18 11.70 19 12.00												
13		3.10 at 1800 5.70 at 0800	70	100					20 12.50	+12.71	12.50		IV	Weak, light grey (2.5Y 7/1) mottled reddish yellow, spotted white, highly decomposed fine ash TUFF. (Angular, slightly clayey silty sandy fine to medium GRAVEL of highly decomposed tuff fragments)							
14								19,10 12,17,18,20 N=67	21 13.50 22 13.70	+11.61	13.60		V	Extremely weak to very weak, light grey (2.5Y 7/1) spotted white and brown, completely decomposed fine ash TUFF. (Very stiff, clayey sandy SILT with occasional angular fine gravel)							
15			70	100					24 14.50												
16		PW 15.60m HW						16,9 13,17,21,24 N=75	25 15.50 26 15.70 27 16.00												
17			70	55					28 16.50												
18			70	83					29 17.50 30 17.60	+7.61	17.60		V	Extremely weak to very weak, light grey (5Y 7/1) mottled yellowish brown, spotted white, completely decomposed fine ash TUFF. (Very stiff, slightly clayey sandy SILT with occasional angular fine gravel)							
19		3.40 at 1800 7.93 at 0800						7,8 13,17,19,25 N=74	31 18.60 32 18.70 33 19.10												
20									34 19.60	+5.21	20.00										
I SMALL DISTURBED SAMPLE J LARGE DISTURBED SAMPLE U70 SAMPLE PISTON SAMPLE (70mm) MAZIER SAMPLE SPT LINER SAMPLE WATER SAMPLE U100 SAMPLE										STANDARD PENETRATION TEST IN-SITU VANE SHEAR TEST PACKER TEST PERMEABILITY TEST PRESSUREMETER TEST BOREHOLE TELEVIEWER PIEZOMETER TIP STANDPIPE TIP					LOGGED C. Chan DATE 10.12.2018 CHECKED R. Chu DATE 18.12.2018		REMARKS				



GEOTECHNICS & CONCRETE ENGG. (H.K.) LTD.
GROUND INVESTIGATION DEPARTMENT

HOLE NO. **CTBH5**

SHEET 1 of 2

DRILLHOLE RECORD

CONTRACT NO. GE/2001/14

PROJECT Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Investigation and Preliminary Assignment Ground Investigation

METHOD Rotary Cored

CO-ORDINATES

Works Order No. **GE/2001/14.40**

MACHINE & No. **DR128**

E 811263.12

DATE from **05/08/2002** to **06/08/2002**

N 814568.45

FLUSHING MEDIUM **Air/Foam**

ORIENTATION **Vertical**

GROUND LEVEL **31.15** mPD

Drilling Progress	Casing size	Water level (m) & Time	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
05/08/2002	PX								31.15	0.00			Firm, light reddish brown (5YR 6/4), clayey, sandy SILT with occasional angular to subangular fine to medium gravel sized quartz and rock fragments. (FILL)
			50					1		0.50			
			64					2	30.15	1.00			Grey (7.5YR 6/1) dappled yellowish brown, BOULDER with occasional subangular cobble sized tuff fragments. (COLLUVIUM)
			0							1.50			From 1.50m to 1.82m : Boulder sized slightly decomposed tuff.
									29.15	2.00			
			94					3	28.45	2.70			Light yellowish brown (10YR 6/4) mottled light grey, clayey silty sandy angular to rounded fine to coarse GRAVEL with occasional cobble sized moderately weak tuff fragments. (COLLUVIUM)
								4				V	Extremely weak, yellowish brown (10YR 6/4) mottled red, completely decomposed, coarse ash TUFF. (Firm, sandy SILT with occasional subangular fine gravel sized quartz fragments)
			50					5	27.35	3.80			
								6				V	Extremely weak, light grey (7.5YR 7/1) mottled pink and brown, completely decomposed, coarse ash TUFF with relict brown stained joint. (Stiff, sandy SILT with occasional subangular fine gravel sized quartz fragments)
			85					7		4.00			
								8					
			91					9		5.00			
								10					
			96					11		7.10			
								12					
			80					13	22.95	8.20			
								14				V/IV	Extremely weak to very weak, light grey (7.5YR 7/1) mottled brown, completely to highly decomposed, coarse ash TUFF. (Very silty fine to coarse SAND with some angular fine to medium gravel sized rock fragments)
			73					15		9.30			
								16					

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- U76 UNDISTURBED SAMPLE
- U100 UNDISTURBED SAMPLE
- MAZIER SAMPLE
- PISTON SAMPLE
- WATER SAMPLE
- PIEZOMETER TIP
- STANDPIPE
- STANDARD PENETRATION TEST
- PERMEABILITY TEST
- IMPRESSION PACKER TEST
- IN-SITU VANE SHEAR TEST
- PACKER TEST

LOGGED **K.M. To**
DATE **07/08/2002**
CHECKED **James Lu**
DATE **08/08/2002**

REMARKS
1. Piezometer tip was installed at 10.50m depth.



GEOTECHNICS & CONCRETE ENGG. (H.K.) LTD.
GROUND INVESTIGATION DEPARTMENT

HOLE NO. **CTBH5**

SHEET **2** of **2**

DRILLHOLE RECORD

CONTRACT NO. GE/2001/14

PROJECT Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Investigation and Preliminary Assignment Ground Investigation

METHOD Rotary Cored

CO-ORDINATES

Works Order No. **GE/2001/14.40**

MACHINE & No. **DR128**

E 811263.12

DATE from **05/08/2002** to **06/08/2002**

N 814568.45

FLUSHING MEDIUM Air/Foam

ORIENTATION Vertical

GROUND LEVEL **31.15 mPD**

Drilling Progress	Casing size	Water level (m) & Time	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
16 05/08/2002 06/08/2002	HX	8.60m at 18:00 10.00m at 08:00	73					17 18		10.00 10.40			See sheet 1 of 2 for details.
11			46					19 20	19.65	11.50		V/V	Extremely weak to very weak, light brownish grey (10YR 6/2), completely to highly decomposed, coarse ash TUFF. (Silty fine to coarse SAND with some angular fine to medium and occasionally coarse gravel sized rock fragments)
12			46					21 22		12.60			
13			44					23 24		13.70			
14	HX	13.50m at 18:00						25	16.35	14.80			Hole completed at 14.80m.
15													
16													
17													
18													
19													
20													

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- U76 UNDISTURBED SAMPLE
- U100 UNDISTURBED SAMPLE
- MAZIER SAMPLE
- PISTON SAMPLE
- WATER SAMPLE
- PIEZOMETER TIP
- STANDPIPE
- STANDARD PENETRATION TEST
- PERMEABILITY TEST
- IMPRESSION PACKER TEST
- IN-SITU VANE SHEAR TEST
- PACKER TEST

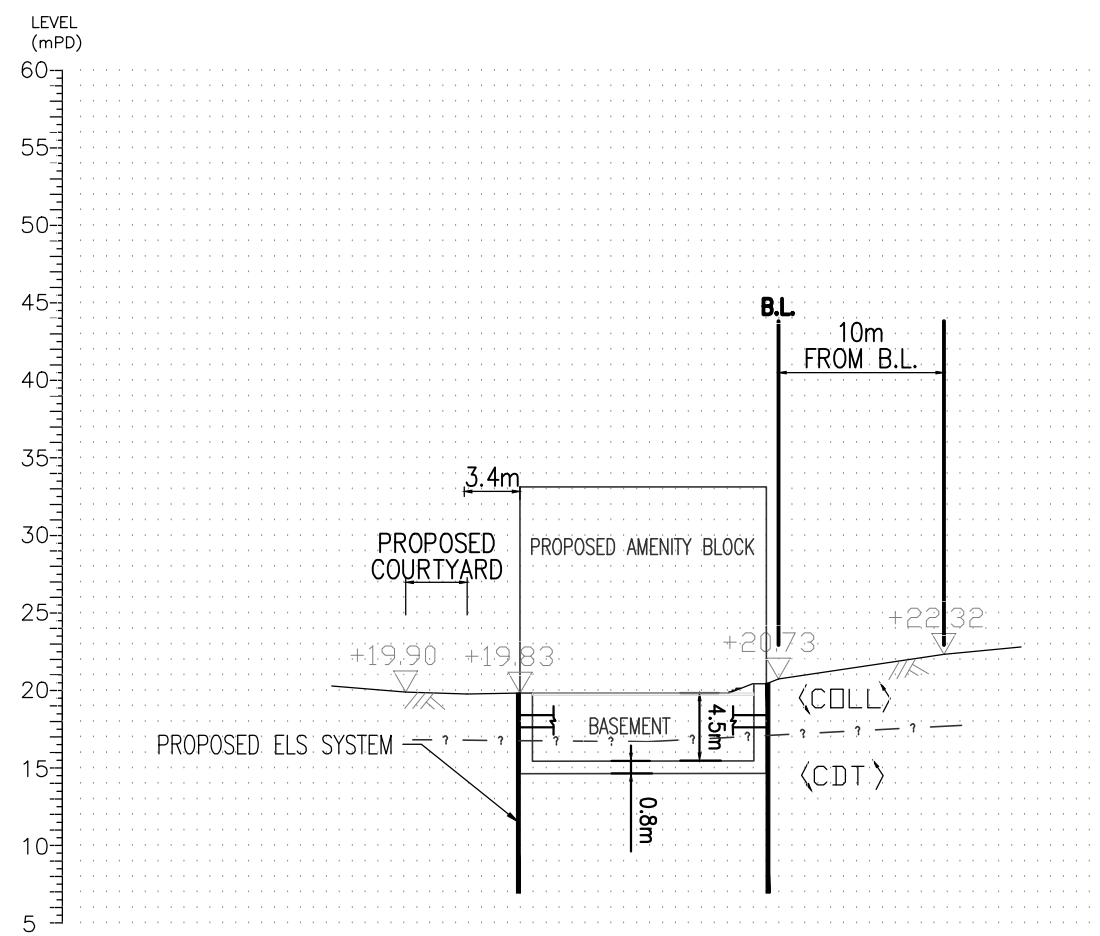
LOGGED K.M. To
DATE 07/08/2002
CHECKED James Lu
DATE 08/08/2002

REMARKS

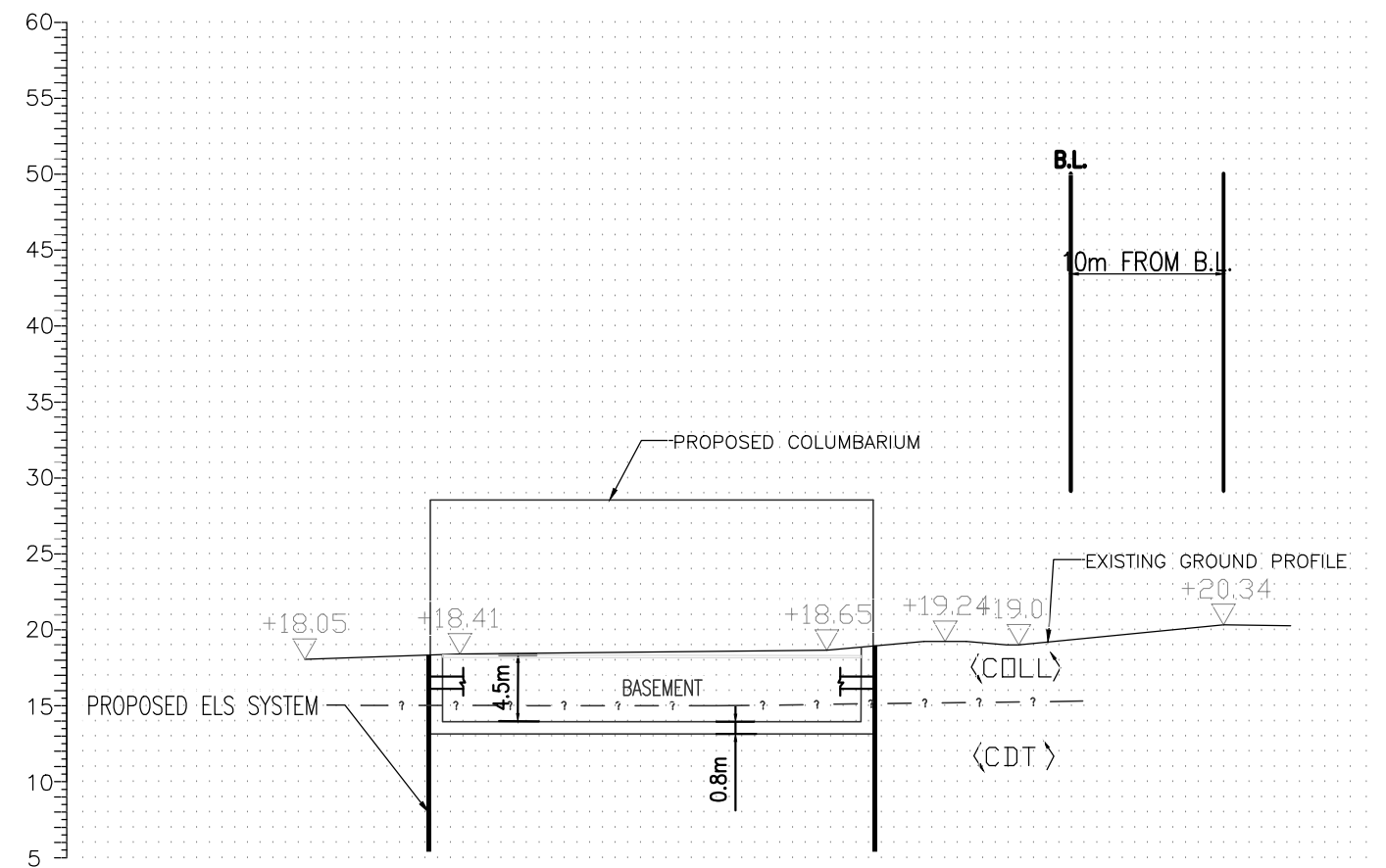
Appendix C

Superimposed Development Layout Plan and Geotechnical Cross Section (Figure 2 to 5)





SECTION C-C
SCALE 1:500(A3)



SECTION D-D
SCALE 1:500(A3)

FIGURE 5

Appendix D

SIS and SIMAR Slope Report

BASIC INFORMATION

Location: Behind the Monastery, Fong Yuen, Adjacent to Shek Mun Kap
Registration Date: 28-05-1998
Ranking Score (NPRS): 4 (LPMit)
Date of Formation: pre-1977
Date of Construction/ Modification: 30-10-2021
Data Source: Project Office
Approximate Coordinates: Easting : 811240 Northing : 814620

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Undeveloped green belt
Distance of Facility from Crest (m): 0
Facility at Toe: Temple
Distance of Facility from Toe (m): 0.8
Consequence-to-life Category: 1
Remarks: N/A

SLOPE PART

(1) Max. Height (m): 4 Length (m): 28.3 Average Angle (deg): 33

WALL PART

N/A

MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0 Government Feature Party: Lands D Agent: Lands D Land Cat.: 5b(vi) Reason Code: 62 MR Endorsement Date: 17-06-2025

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 14-02-2022
Data Source: Project Office
Slope Part Drainage: N/A
Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)
Surface Protection (%): Bare: 0 Vegetated: 57 Chunam: 0 Shotcrete: 43 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): 50 Spacing (m): 1.5

WALL PART

N/A

SERVICES

N/A

CHECKING STATUS INFORMATION

Tagmark: SCS_20582 Part: 0 Checking Status: Feature modified/upgraded to current standard Checking Certificate No.: GEO/MW 029/2023

BACKGROUND INFORMATION

GIU Cell Ref.:	9SE13C6
Map Sheet Reference (1:1000):	9SE-13C
Aerial Photos:	CN 8936 (1994), CN 8937 (1994)
Nearest Rainguage Station (Station Number):	Tung Chung Au Country Park Management Centre, Tung Chung(N21)
Data Collected On:	14-02-2022
Date of Construction, Subsequent Modification and Demolition:	Modification: Constructed Before: 1974 After: N/A
Related Reports/Files or Documents:	File/Report: LWC Ref. No.: GCMW GC 4/1/2-3 f(32) pt4,pt 6 File/Report: LWC Ref. No.: GCMW GC 4/1/2-3 f(32) pt4,pt 6 File/Report: LWC Ref. No.: GCMW GC 4/1/2-3 f(8) pt7, File/Report: LWC Ref. No.: GCMW GC 4/1/2-3 f(8) pt7,
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: 25/09/2025)

Upgraded by:

Prescriptive Design Using GEO Report No. 56: Yes

Non-prescriptive Design Including Conventional Design: N/A

Improved by:

Type 1 / Type 2 Prescriptive Measures: N/A

Type 3 Prescriptive Measures (not up to upgrading standard): N/A

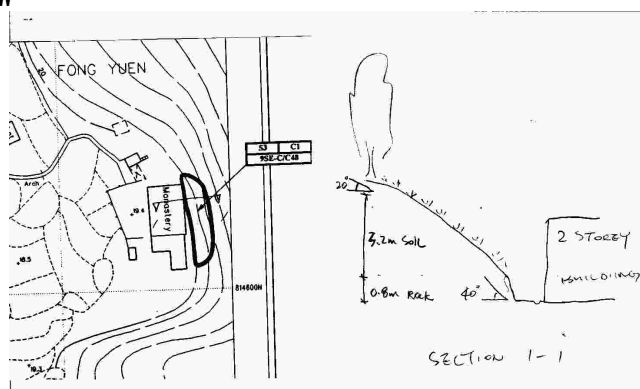
Actual Completion Date: 08-11-2021

STAGE 1 STUDY REPORT

Inspected On: 08-07-1997

Weather: Some Rain

District: MW



Section No: 1-1

Height(m): H1 : 4 , H2 : 1

Type of Toe Facility: Temple

Distance from Toe(m): 0.8

Type of Crest Facility: Undeveloped green belt

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:	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: Near Lung Tseng Tau, Tung Chung Road
Registration Date: 19-11-2009
Ranking Score (NPRS): 0 (EI)
Date of Formation: post-1977
Date of Construction/ Modification: 12-09-2007
Data Source: Project Office
Approximate Coordinates: Easting : 811265 Northing : 814591

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Road/footpath with moderate traffic density
Distance of Facility from Crest (m): 1
Facility at Toe: Road/footpath with low traffic density
Distance of Facility from Toe (m): 1
Consequence-to-life Category: 2
Remarks: N/A

SLOPE PART

(1) Max. Height (m): 6.6 Length (m): 46 Average Angle (deg): 28

WALL PART

N/A

MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0 Government Feature Party: HyD Agent: HyD Land Cat.: 5b(iii) Reason Code: 56 MR Endorsement Date: 16-03-2010

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 28-12-2015
Data Source: Project Office
Slope Part Drainage: (1) Position: Toe Size(mm): 300
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

- (1) Utilities Type: Electricity Size(mm): 100 Location: On crest Remark: N/A
- (2) Utilities Type: Sewer/Drain Size(mm): 1200 Location: On crest Remark: N/A
- (3) Utilities Type: Telecom Size(mm): 0 Location: On crest Remark: Size cannot be determined
- (4) Utilities Type: Water Main Size(mm): 100 Location: On crest Remark: N/A

CHECKING STATUS INFORMATION

Tagmark: SCS_12045 Part: 0 Checking Status: Others (See remarks) Checking Certificate No.: N/A

BACKGROUND INFORMATION

GIU Cell Ref.: N/A
Map Sheet Reference (1:1000): N/A
Aerial Photos: N/A
Nearest Rainguage Station (Station Number): ()
Data Collected On: 28-12-2015
Date of Construction, Subsequent Modification and Demolition: 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: 25/09/2025)

STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: N/A

Section No: 1-1

Height(m):

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

Distance from Toe(m): 1

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

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

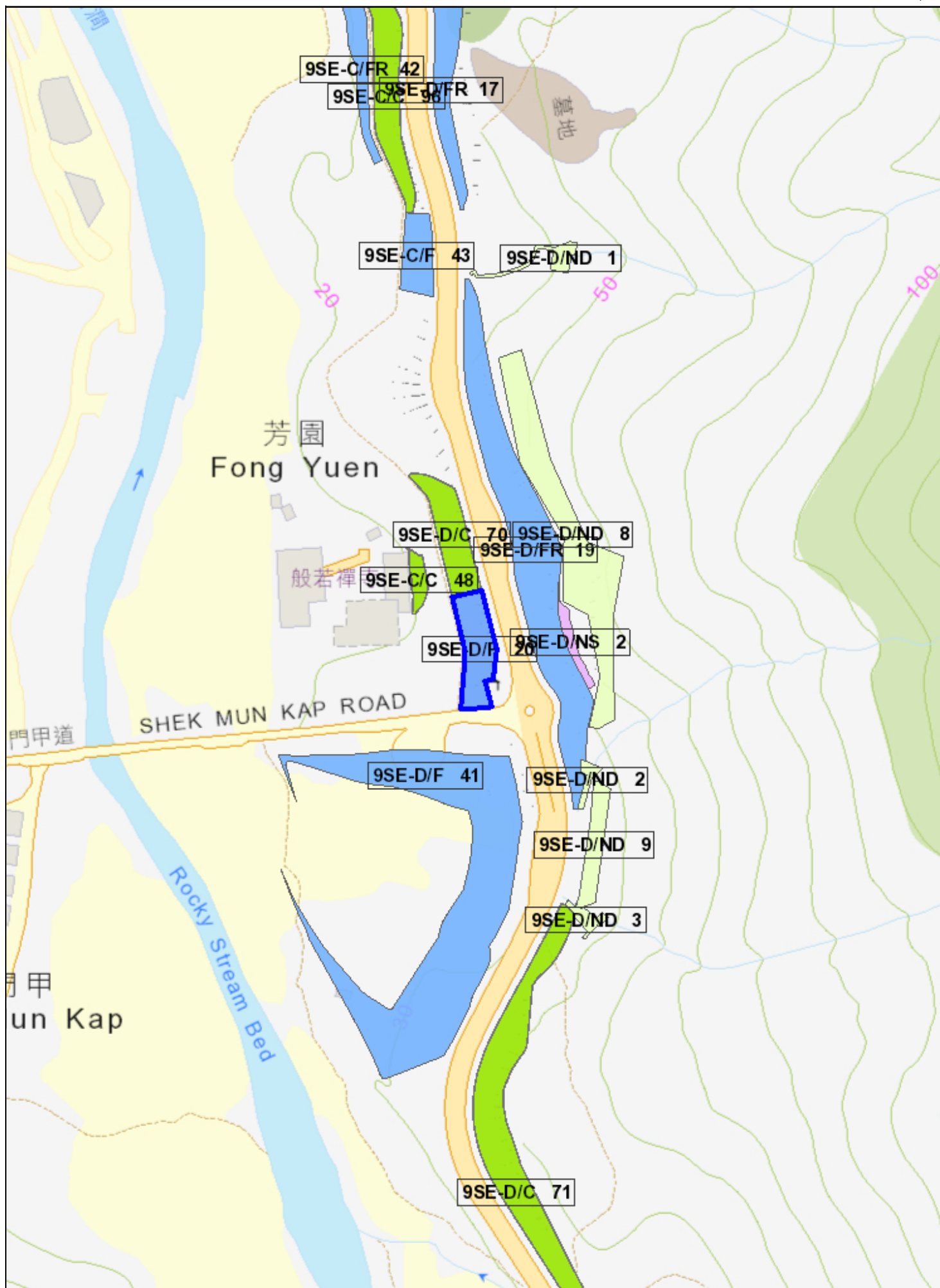


Non-routine Maintenance:

Action By: N/A

PHOTO





BASIC INFORMATION

Location: Tung Chung Road, Lantau Island
Registration Date: 19-11-2009
Ranking Score (NPRS): 0 (EI)
Date of Formation: post-1977
Date of Construction/ Modification: 04-01-2009
Data Source: LPM
Approximate Coordinates: Easting : 811254 Northing : 814639

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Road/footpath with moderate traffic density
Distance of Facility from Crest (m): 0
Facility at Toe: Road/footpath with low traffic density
Distance of Facility from Toe (m): 1
Consequence-to-life Category: 2
Remarks: N/A

SLOPE PART

(1) Max. Height (m): 9.1 Length (m): 56 Average Angle (deg): 38

WALL PART

N/A

MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0 Government Feature Party: HyD Agent: HyD Land Cat.: 5b(iii) Reason Code: 56 MR Endorsement Date: 16-03-2010

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 01-09-2017
Data Source: LPM
Slope Part Drainage: (1) Position: Toe Size(mm): 300
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

- (1) Utilities Type: Cable Size(mm): 100 Location: On crest Remark: N/A
(2) Utilities Type: Water Main Size(mm): 150 Location: On crest Remark: N/A

CHECKING STATUS INFORMATION

Tagmark: SCS_12383 Part: 0 Checking Status: Others (See remarks) Checking Certificate No.: N/A

BACKGROUND INFORMATION

GIU Cell Ref.: N/A
Map Sheet Reference (1:1000): N/A
Aerial Photos: N/A
Nearest Rainguage Station (Station Number): ()
Data Collected On: 01-09-2017
Date of Construction, Subsequent Modification and Demolition: 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.: In-house Design Report No.: N/A

ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 25/09/2025)

STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: N/A

Section No: 1-1

Height(m):

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

Distance from Toe(m): 1

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

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

eLPMIS

LPM/LPMit Details Report

LPM Study Feature No.:	9SE-D/C 70
Location:	Tung Chung Road, Lantau Island
District Council:	Islands
Maintenance Responsibility (At the Time of Selection):	Government
Responsible Party for Maintenance of Government Portion:	HyD
Private Lot No.:	N/A

LPM/LPMit Study

Agreement No.:	In-house Design
Study Type:	Stage 3 Study Under Schedule of Rates Contract
Consultant:	N/A
GEO Managing Section / Engineer:	LPM2 / N/A
Study Status:	Study to be commenced
Design Approach:	N/A
Option Assessment Accepted:	N/A
Study Report No.:	N/A
Programme / Actual Commencement:	N/A
Programme / Actual Completion:	N/A
Report Recommendation (For Stage 2 Study):	N/A
District Check Status:	N/A
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
Maintenance Manual No.:	N/A
Actual Works:	N/A



SLOPE INFORMATION SYSTEM

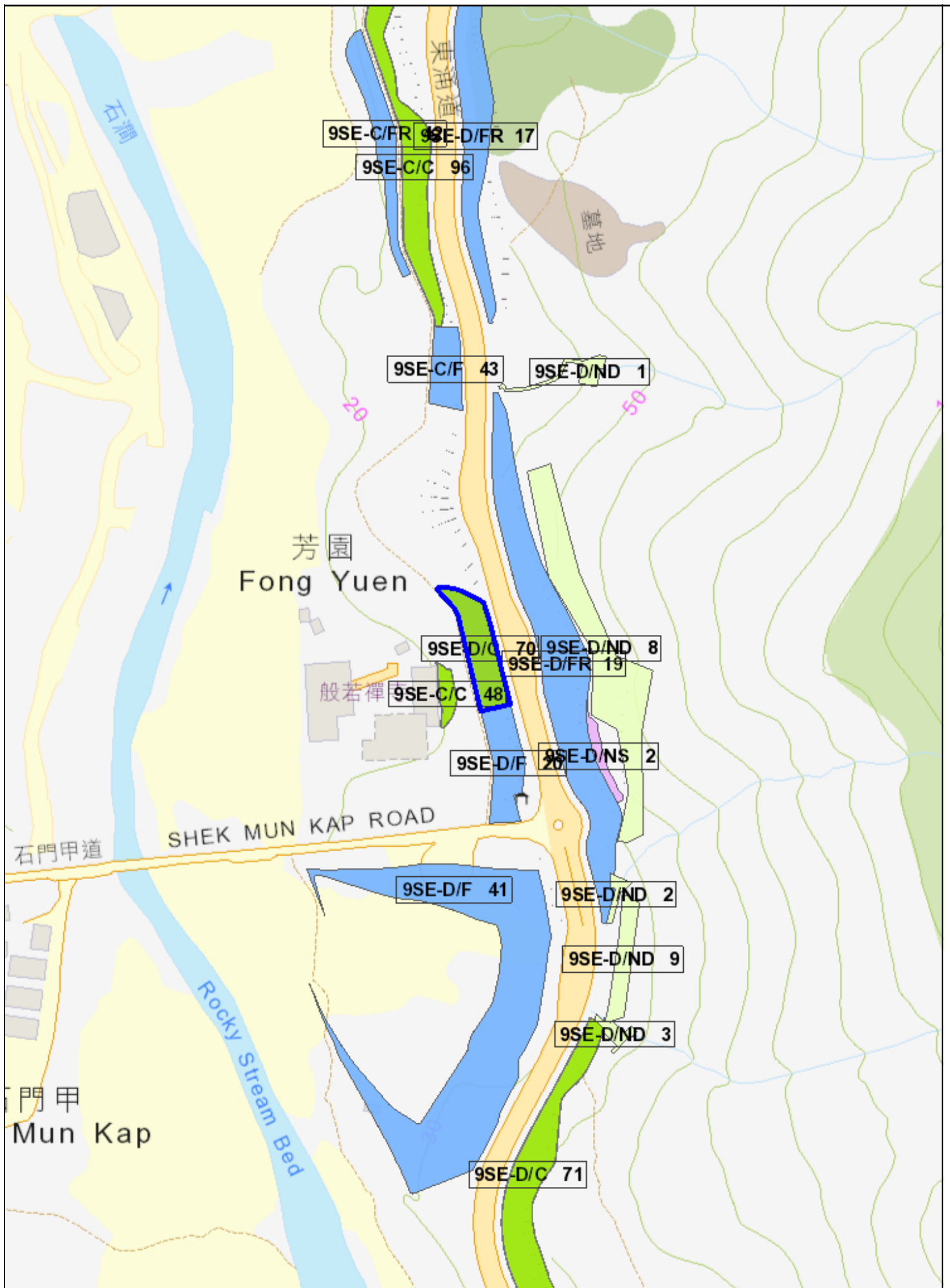
GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Feature No. 9SE-D/C 70

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



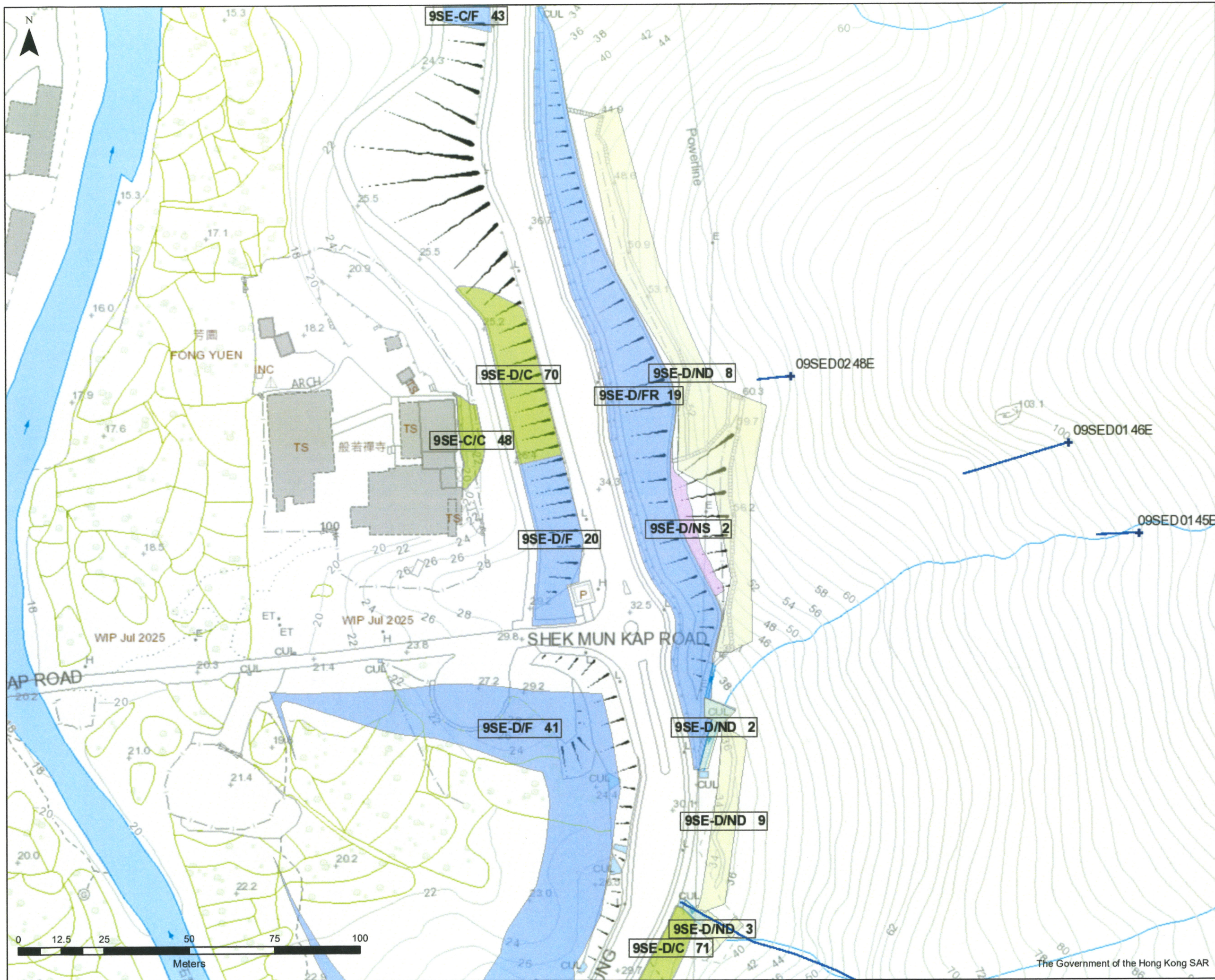


Appendix E

Enhanced Natural Terrain Landslide Inventory (ENTLI)

ENTLI Crown / Trail

Name	Value
ENTLI No.	09SED0146E
Slide ID	09SED0209
Type of slides	Relict
Action	C
Width of main scarp	10
Length of landslide source	11
Slope	27
Vegetation cover	Completely in grass
Year landslide first observed	1963
Elevation of landslide crown	98
Elevation of landslide toe	82
Elevation difference of landslide trail	16
Gully	N
Relict class	Debris relating to source evident (80% certain)
Easting	811415.977934
Northing	814618.510203



Man-made Features

- Cut slopes
- Disturbed terrain
- Fill slopes
- NT defence measures
- NT stabilisation measures
- Retaining walls
- Slope Features

ENTLI Crown

- Recent
- Relict

ENTLI Trail

- Recent
- Relict
- Slope Features

Division

Scale 1:1000

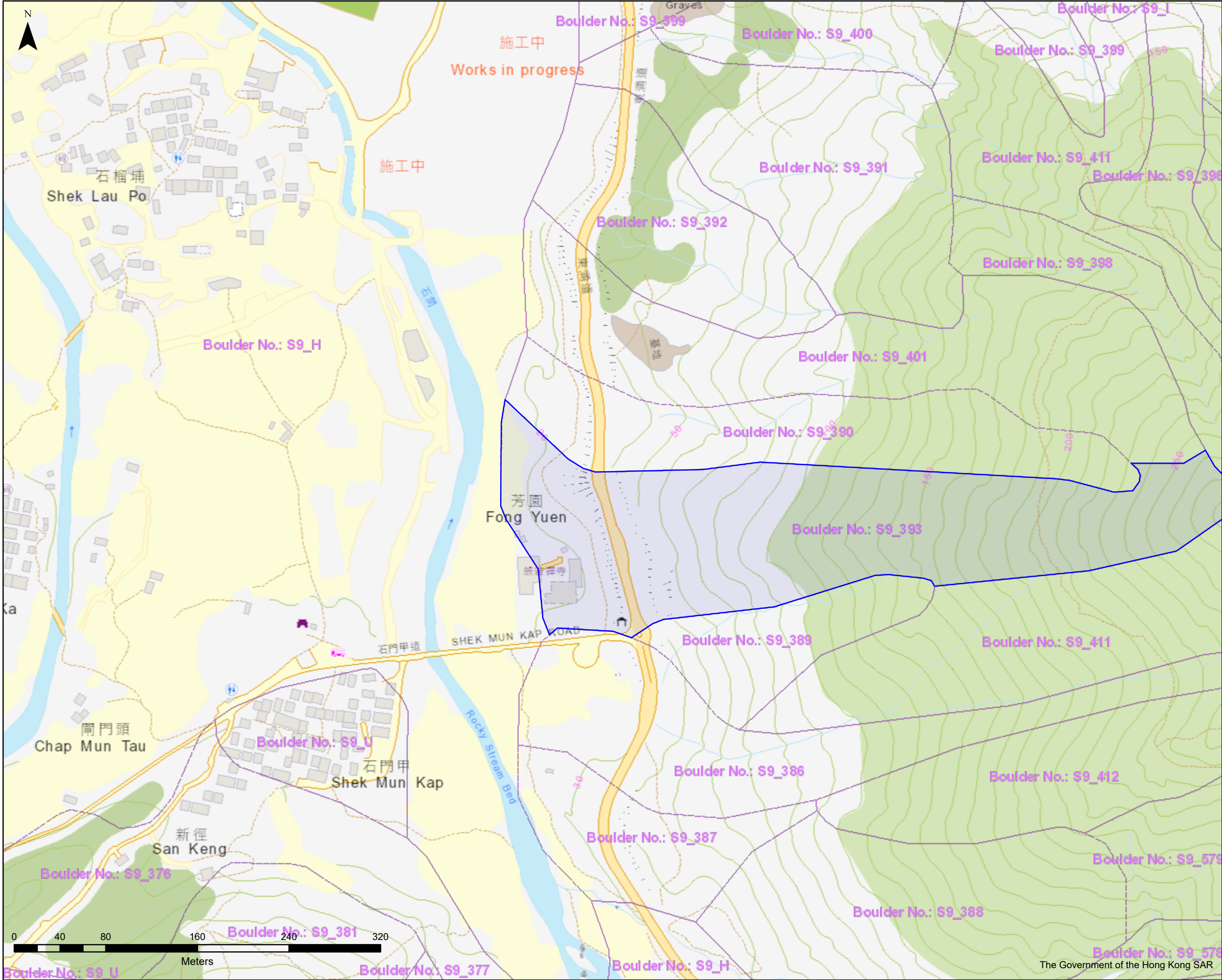
Date 04/11/2025



The Government of the Hong Kong SAR

Appendix F

Boulder Field Inventory



Boulder

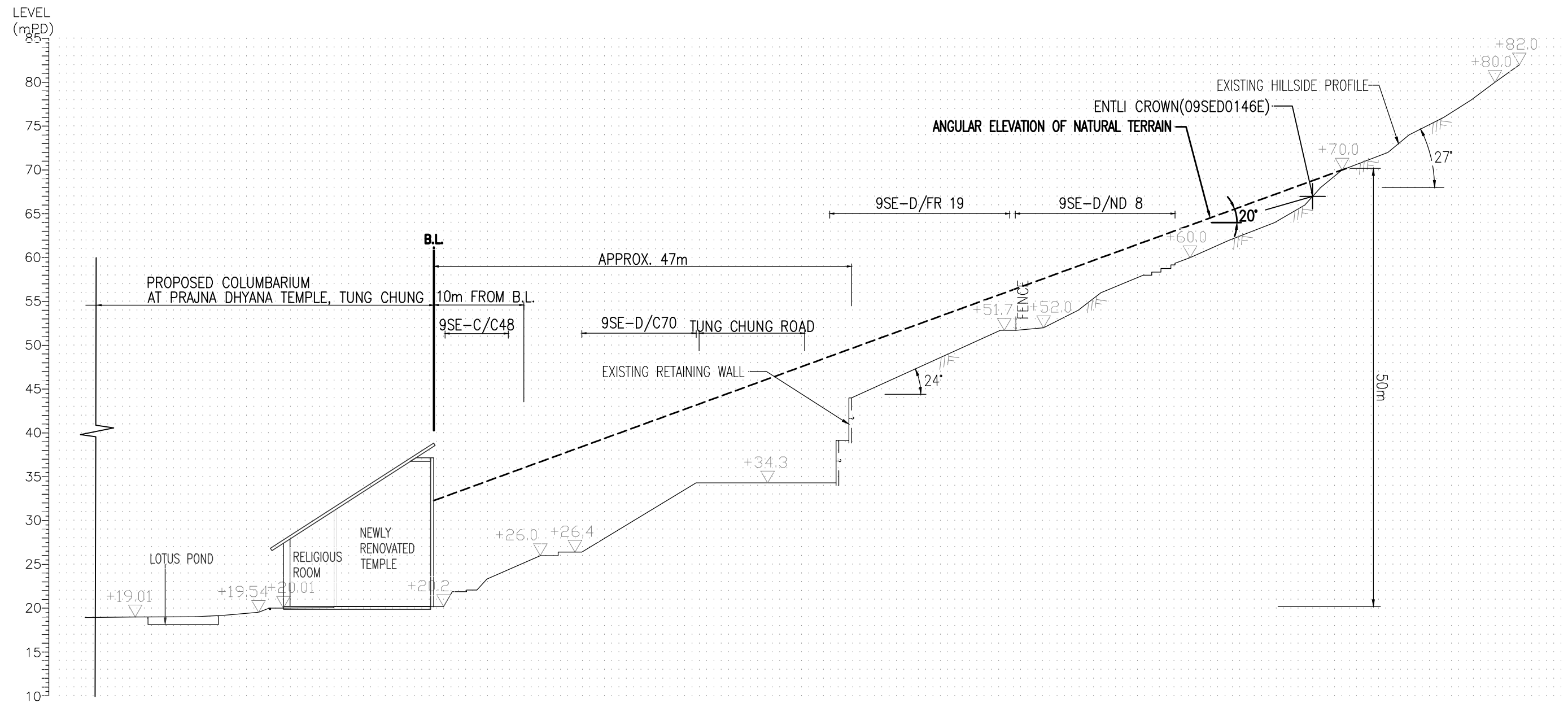
Division	
Scale	1:3000
Date	11/11/2025
GEOTECHNICAL ENGINEERING OFFICE CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT The Government of the Hong Kong SAR	

Appendix G

Historical Landslide Catchment (HLC)

Appendix H

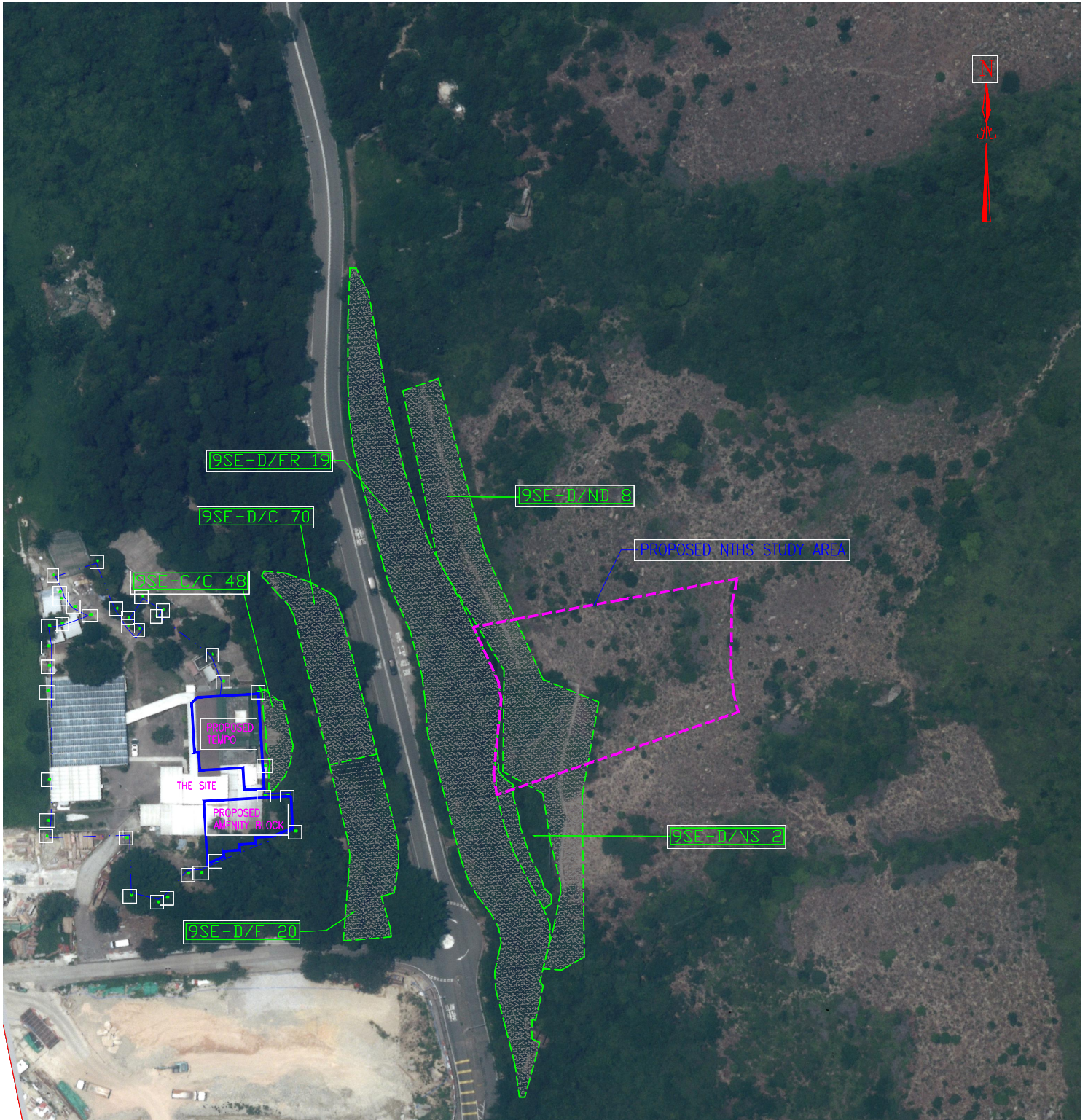
Demarcation Plan of NTHS (Figure 6 to 8)



SECTION A1-A1
SCALE 1:500(A3)

FIGURE 6





LEGEND:

- LOT BOUNDARY
- SLOPE FEATURES
- PROPOSED NTHS STUDY AREA

FIGURE 8