

Geotechnical Planning Review Report

for

Section 16 Planning Application for Proposed Religious Institution
and Columbarium (Partial Redevelopment of Prajna Dhyana Temple)

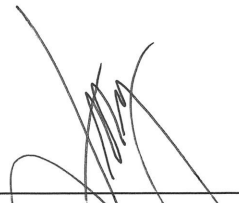
at

Lot 112, 113RP (Part), 114,116,117 & 118 in DD2

Tung Chung, Shek Mun Kap, Tung Chung, Lantau Island

Section 16 Planning Application

April 2026



Chan Henry
Registered Geotechnical Engineer
(RGE 12/05)

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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 various 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, no new manned structures are proposed in this redevelopment project.

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 considered 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 structures 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 are 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 which lies within site boundary as shown in Figure 2. Stability check will be carried out on 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.

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 F**.

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 Natural Terrain Catchment

Since no manned structures proposed in this redevelopment or modification of the lease conditions, there is no significant population at risk or a significant increase in population at risk. Hence, it does not satisfy the Alert Criteria for the Natural Terrain Hazard Study based on GEO Report no.138.

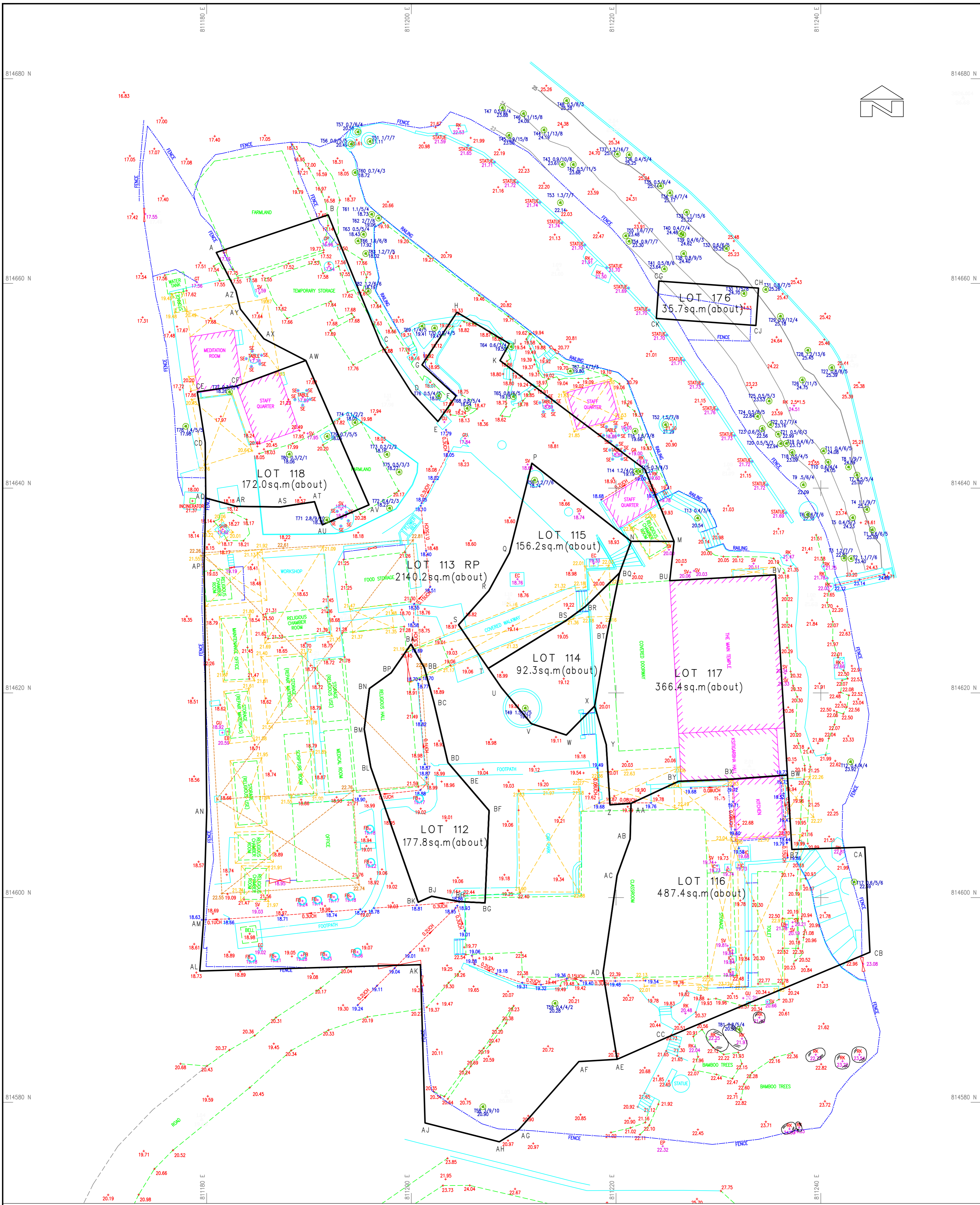
5.0 Conclusion and Recommendations

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 ensure that it will not adversely 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

Appendix A

1:400 Topographical Survey Plan and Proposed Architectural Layout Plan



LAND MARKER (1980) H.K. CO., LTD.
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 TSM SHA TSUI EAST, KOWLOON, HONG KONG
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MONS YIU CHU JOSEPH
 AUTHORIZED LAND SURVEYOR (PMS BRCS (LS))

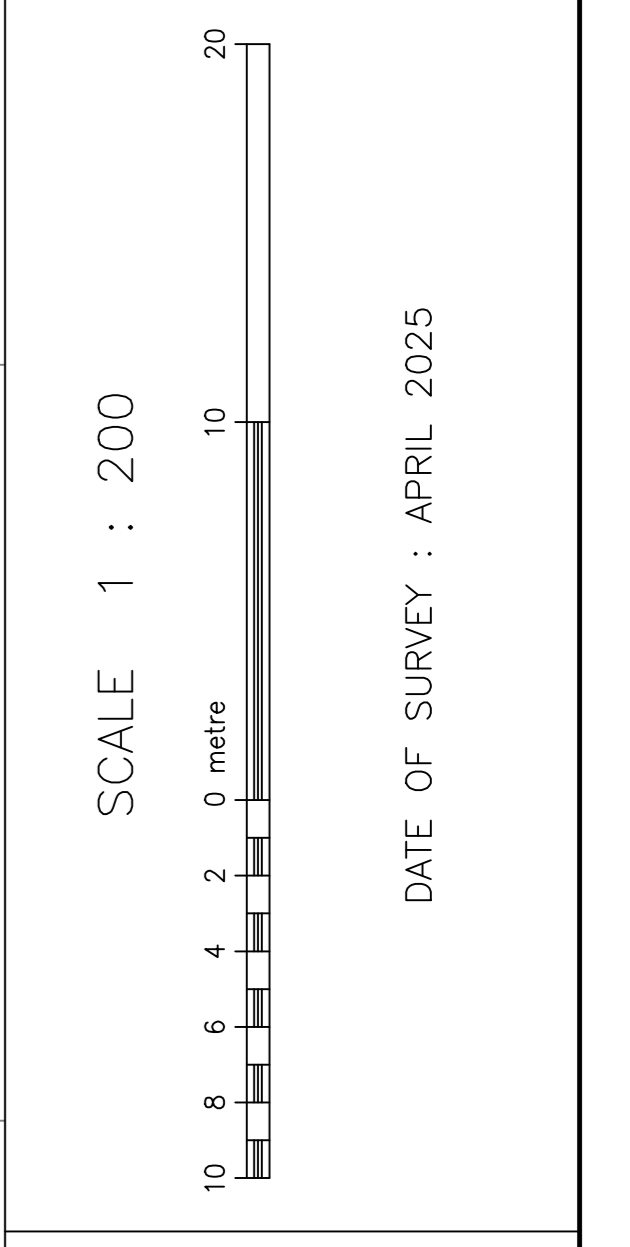
PLAN NO. 6978/01

REVISION NO.	DESCRIPTIONS	DATE
0	FIRST ISSUE	30-APR-2025
1	SECOND ISSUE	25-JUN-2025

TOCO PLANNING CONSULTANTS LTD

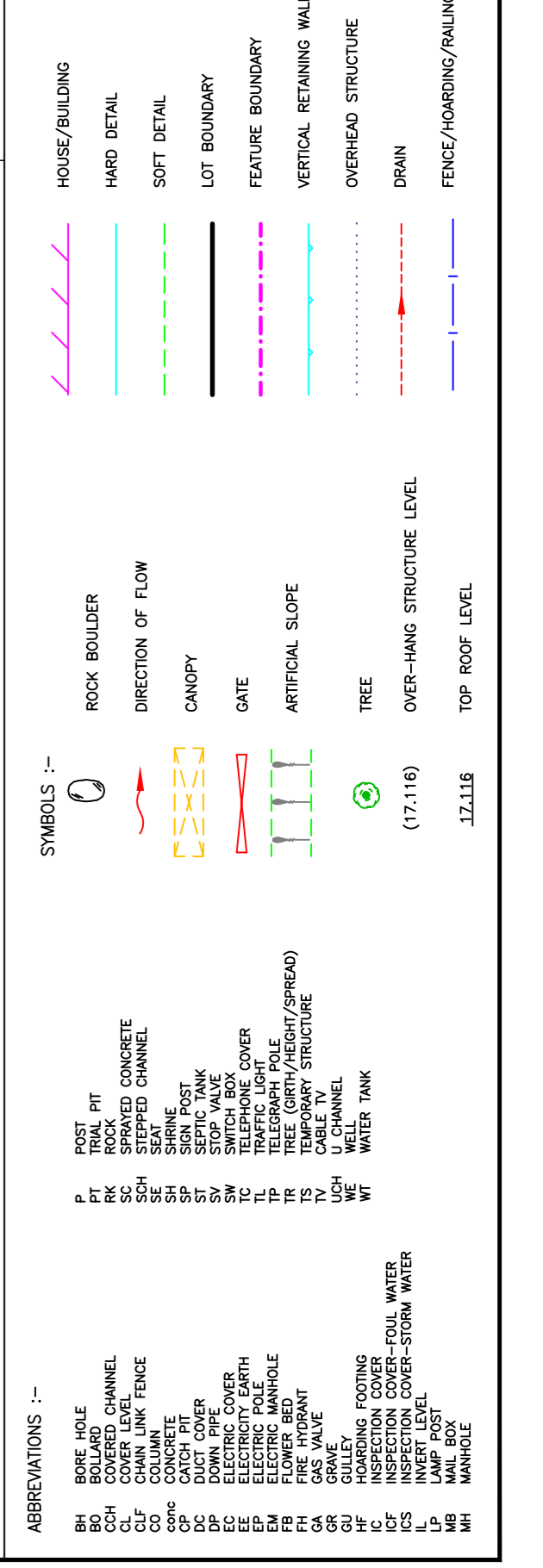
**PROPOSED COLUMBARIUM
 AT PRAJNA DHYANA TEMPLE,
 TUNG CHUNG**

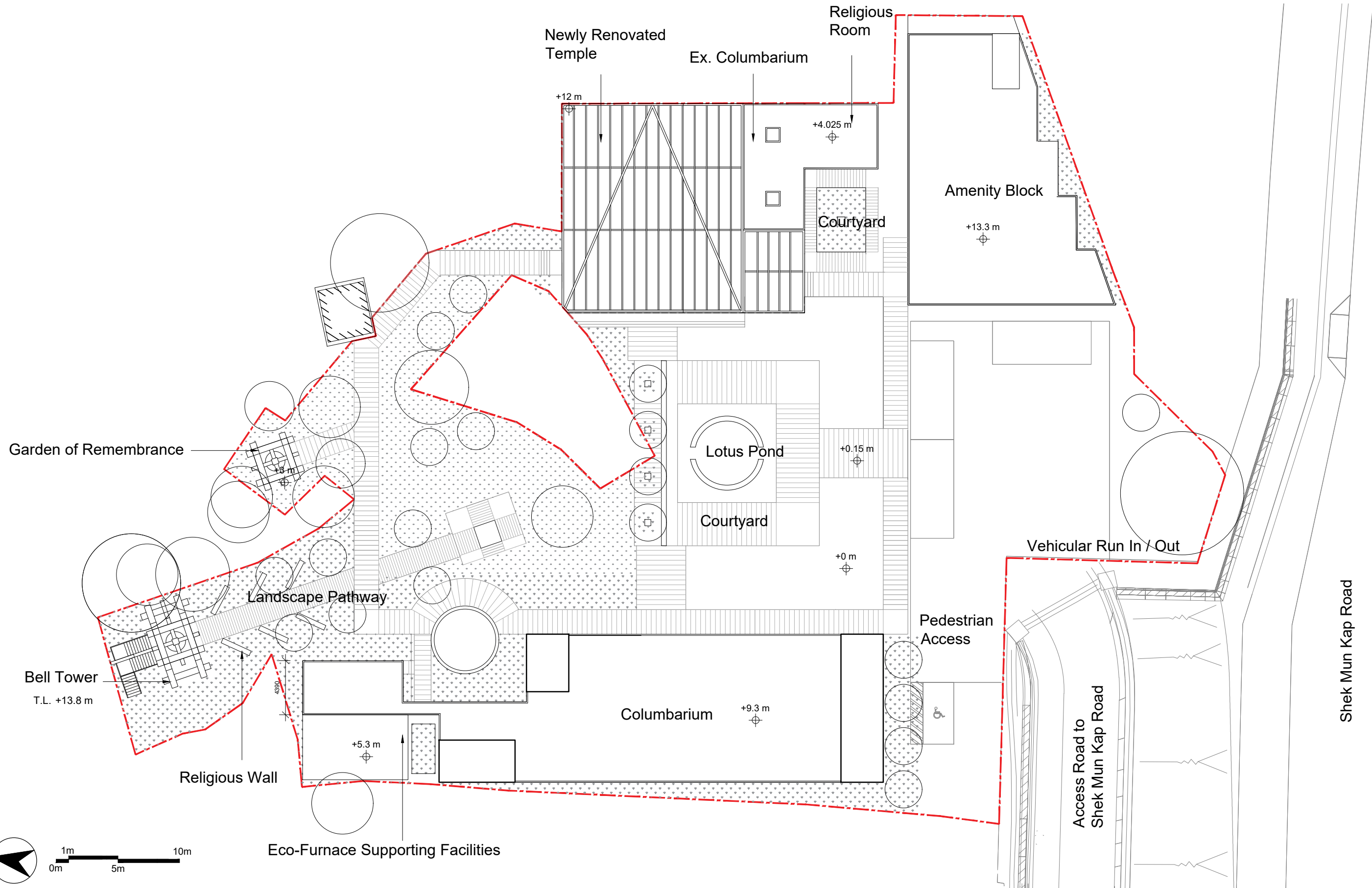
TOPOGRAPHIC SURVEY



NOTES :

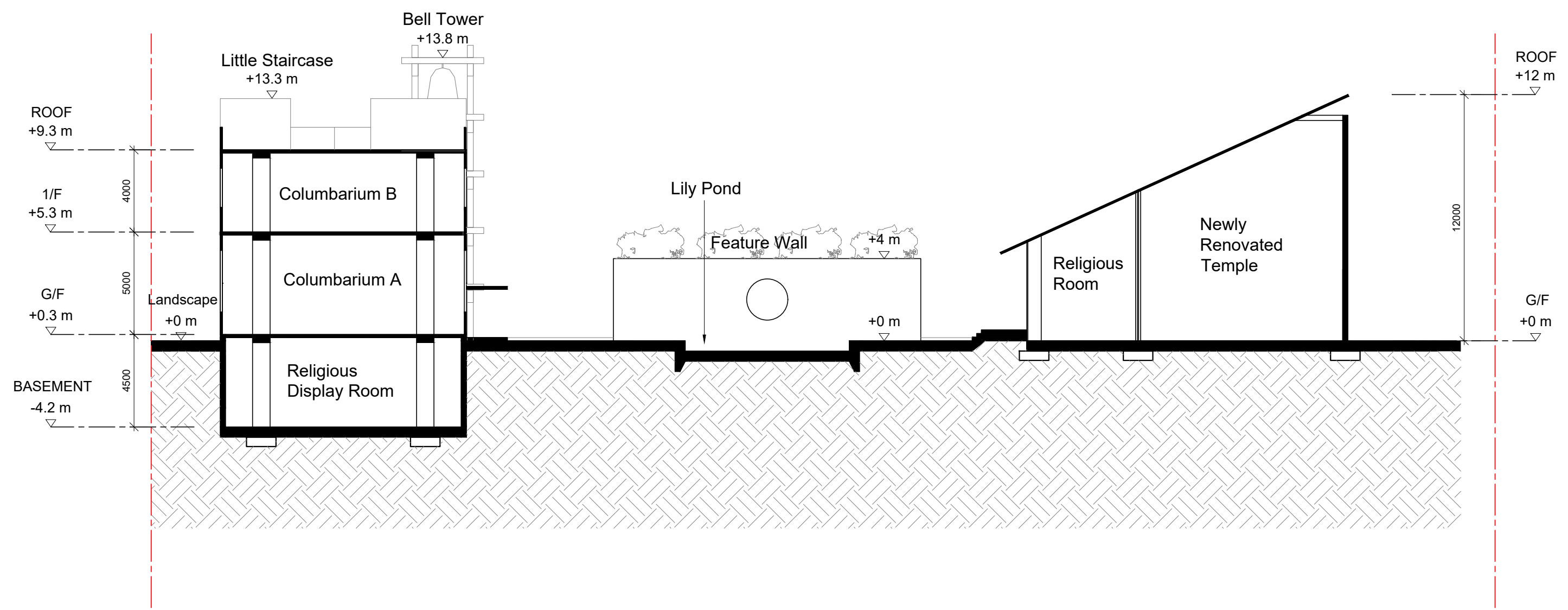
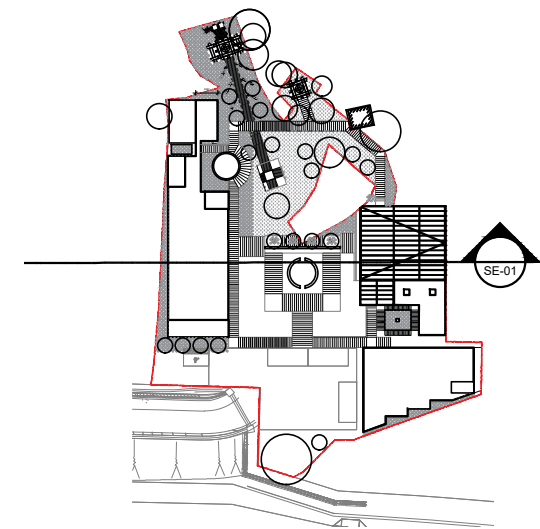
SUBJECT LOT COORDINATES & DIMENSIONS:					SUBJECT LOT COORDINATES & DIMENSIONS:					SUBJECT LOT COORDINATES & DIMENSIONS:					SUBJECT LOT COORDINATES & DIMENSIONS:									
Boundary Point	Bearing	Distance	Northing	Easting	Boundary Point	Bearing	Distance	Northing	Easting	Boundary Point	Bearing	Distance	Northing	Easting	Boundary Point	Bearing	Distance	Northing	Easting	Boundary Point	Bearing	Distance	Northing	Easting
SUBJECT LOT NO. - LOT 113 RP IN D.D.2 TC					SUBJECT LOT NO. - LOT 113 RP IN D.D.2 TC (CONT)					SUBJECT LOT NO. - LOT 115 IN D.D.2 TC					SUBJECT LOT NO. - LOT 118 IN D.D.2 TC									
A	71°24'29"	11.533	814663.021	811180.939	AW	336°22'27"	15.393	814652.469	811189.689	S	41°34'41"	4.466	814626.648	811204.618	CE	81°29'47"	3.861	814649.396	811179.093					
B	157°51'30"	13.861	814654.044	811107.870	AX	297°19'35"	4.612	814654.586	811185.592	CF	28°32'23"	4.205	814633.683	811209.591	CF	69°44'11"	7.224	814652.469	811189.689					
C	147°27'29"	5.661	814649.272	811200.064	AY	321°44'46"	3.726	814657.512	811183.285	Q	14°00'53"	9.014	814642.429	811211.774	AW	156°22'27"	15.393	814638.366	811195.858					
D	137°24'11"	3.744	814646.516	811202.598	AZ	346°28'20"	1.804	814659.266	811182.863	N	128°09'01"	12.344	814634.804	811221.481	AV	246°53'34"	4.946	814636.425	811191.309					
E	35°31'36"	3.055	814649.002	811204.373	A	332°52'13"	4.219	814663.021	811180.939	BO	200°17'26"	3.281	814631.726	811220.343	AU	341°09'11"	2.374	814638.672	811190.542					
F	312°29'05"	4.511	814652.049	811201.046	AREA = 2318.0 sq. m. (about)					BR	225°24'43"	4.673	814628.446	811217.015	AS	261°15'28"	3.362	814638.161	811187.219					
G	33°36'46"	6.160	814657.179	811204.456	PERIPHERAL					BS	233°47'34"	2.343	814627.062	811215.124	AR	270°40'50"	4.294	814638.212	811182.925					
H	120°56'50"	5.976	814654.106	811209.581	SUBJECT LOT NO. - LOT 112 IN D.D.2 TC					T	328°28'44"	8.927	814622.394	811207.514	AQ	285°14'38"	3.119	814639.032	811179.916					
J	209°06'39"	1.883	814652.461	811208.665	BA	150°23'50"	2.650	814622.758	811199.965	S	325°45'07"	5.146	814626.648	811204.618	AD	359°21'58"	5.422	814644.454	811179.856					
K	126°53'40"	17.703	814641.833	811222.823	BB	164°40'22"	3.552	814619.028	811202.213	AREA = 156.2 sq. m. (about)					CE	351°13'24"	5.001	814649.396	811179.093					
L	157°59'33"	7.587	814634.799	811225.666	BC	166°53'35"	5.997	814613.187	811203.574	SUBJECT LOT NO. - LOT 116 IN D.D.2 TC					SUBJECT LOT NO. - LOT 176 IN D.D.2 TC									
M	270°04'06"	4.185	814634.804	811221.481	BD	139°20'33"	2.979	814610.927	811205.514	AA	65°02'43"	5.124	814611.363	811226.108	CG	94°00'51"	9.754	814659.545	811233.916					
N	308°09'01"	12.344	814642.429	811211.774	BE	139°25'26"	3.199	814608.497	811207.595	BX	87°39'34"	5.264	814611.578	811231.368	CH	184°00'48"	3.658	814655.897	811233.660					
O	194°00'53"	9.014	814633.683	811209.591	BF	182°32'02"	9.025	814599.481	811207.196	BW	85°49'08"	5.393	814611.971	811236.747	CJ	274°00'53"	9.754	814638.212	811182.925					
P	208°32'23"	4.466	814628.648	811204.618	BG	272°55'35"	2.546	814599.611	811204.653	BZ	176°36'07"	7.278	814604.706	811237.178	CK	4°00'54"	3.658	814660.228	811224.187					
Q	221°34'41"	5.146	814622.394	811207.514	BH	280°52'31"	2.714	814606.123	811201.988	CA	88°12'53"	7.129	814604.928	811244.304	CC	274°00'53"	9.754	814638.212	811182.925					
R	145°45'07"	2.264	814620.523	811208.788	BI	246°38'58"	1.436	814599.554	811200.670	CB	177°13'18"	10.274	814594.666	811244.802	CD	4°00'54"	3.658	814660.228	811224.187					
S	145°15'12"	4.591	814616.989	811211.719	BJ	340°38'42"	13.964	814612.729	811196.042	CC	247°12'26"	21.670	814586.271	811224.824	CE	246°16'12"	5.154	814584.197	811220.106					
T	140°19'43"	3.593	814615.880	811215.137	BK	350°06'39"	3.773	814616.446	811195.394	CD	246°16'12"	5.154	814584.197	811220.106	CF	350°42'23"	8.545	814592.630	811218.726					
U	107°58'34"	3.958	814618.708	811217.906	BL	71°17'23"	4.011	814620.425	811195.303	AE	81°14'48"	9.623	814602.155	811220.098	CG	19°45'11"	3.787	814605.719	811221.379					
V	44°23'36"	5.887	814609.065	811219.046	BN	54°09'20"	2.626	814621.963	811198.032	AF	19°45'11"	3.787	814605.719	811221.379	CH	121°56"	3.483	814609.201	811221.462					
W	163°13'06"	2.060	814609.201	811221.462	BA	34°40'03"	3.398	814624.758	811199.965	AG	121°56"	3.483	814609.201	811221.462	CI	9°49'15"	7.030	814625.635	811219.106					
X	176°27'19"	3.483	814605.719	811221.379	AREA = 177.8 sq. m. (about)					AA	9°49'15"	7.030	814625.635	811219.106	CM	112°19'18"	6.216	814631.726	811220.343					
Y	86°12'56"	3.787	814605.719	811221.379	AREA OF LOT 113 RP = 2140.2 sq. m. (about)					AB	20°17'26"	3.281	814634.804	811221.481	CN	20°17'26"	3.281	814634.804	811221.481					
Z	181°21'56"	9.623	814592.630	811218.726	SUBJECT LOT NO. - LOT 114 IN D.D.2 TC					AM	9°04'06"	4.185	814634.799	811225.666	CO	186°17'04"	3.862	814630.961	811225.243					
AA	199°46'11"	8.235	814638.212	811182.925	T	58°28'44"	8.927	814627.062	811215.124	AN	186°17'04"	3.862	814630.961	811225.243	CP	86°50'28"	10.358	814631.531	811235.586					
AB	188°11'48"	9.623	814592.630	811218.726	BS	53°47'54"	2.343	814628.446	811217.015	AO	176°36'07"	19.595	814611.971	811236.747	CQ	265°49'08"	5.393	814611.578	811231.368					
AC	170°42'23"	3.743	814584.197	811220.106	BQ	45°24'43"	4.673	814631.726	811220.343	AP	265°49'08"	5.393	814611.578	811231.368	CR	267°39'34"	5.264	814611.363	811226.108					
AD	266°44'16"	5.997	814583.984	811216.369	BT	191°29'18"	6.216	814625.635	811219.106	AQ	247°02'43"	5.124	814611.363	811226.108	CS	247°02'43"	5.124	814611.363	811226.108					
AE	281°41'13"	7.492	814577.985	811201.335	BX	189°49'15"	7.030	814618.708	811217.906	AR	267°39'34"	5.264	814611.363	811226.108	CT	267°39'34"	5.264	814611.363	811226.108					
AF	358°20'35"	15.469	814593.448	811200.888	BY	22°23'46"	3.958	814615.880	811215.137	AS	245°02'43"	5.124	814611.363	811226.108	CU	267°39'34"	5.264	814611.363	811226.108					
AG	268°20'34"	21.565	814592.824	811179.332	BZ	278°58'34"	3.593	814616.989	811211.719	AT	267°39'34"	5.264	814611.363	811226.108	CV	267°39'34"	5.264	814611.363	811226.108					
AH	4°14'34"	4.802	814597.613	811179.687	CA	320°19'43"	4.591	814620.523	811208.788	AV	267°39'34"	5.264	814611.363	811226.108	CW	267°39'34"	5.264	814611.363	811226.108					
AI	1°42'03"	10.916	814608.524	811180.011	CB	325°45'12"	2.264	814622.394	811207.514	AW	267°39'34"	5.264	814611.363	811226.108	CX	267°39'34"	5.264	814611.363	811226.108					
AJ	359°23'28"	24.186	814632.709	811179.754	AREA = 92.3 sq. m. (about)					AX	267°39'34"	5.264	814611.363	811226.108	CY	267°39'34"	5.264	814611.363	811226.108					
AK	1°28'04"	6.325	814639.032	811179.916	AREA OF LOT 114 RP = 2140.2 sq. m. (about)					AY	267°39'34"	5.264	814611.363	811226.108	CA	267°39'34"	5.264	814611.363	811226.108					
AL	105°14'38"	3.119	814638.212	811182.925	SUBJECT LOT NO. - LOT 115 IN D.D.2 TC					AZ	267°39'34"	5.264	814611.363	811226.108	CB	267°39'34"	5.264	814611.363	811226.108					
AM	90°40'50"	4.294	814638.161	811187.219	BA	41°34'41"	4.466	814626.648	811204.618	AA	267°39'34"	5.264	814611.363	811226.108	CC	267°39'34"	5.264	814611.363	811226.108					
AN	81°15'28"	3.362	814638.672	811190.542	BB	297°19'35"	4.612	814654.586	811185.592	AB	267°39'34"	5.264	814611.363	811226.108	CD	267°39'34"	5.264	814611.363	811226.108					
AO	161°09'11"	2.374	814636.425	811191.309	BC	321°44'46"	3.726	814657.512	811183.285	AC	267°39'34"	5.264	814611.363	811226.108	CE	267°39'34"	5.264	814611.363	811226.108					
AP	66°53'34"	4.946	814638.366	811195.858	BD	346°28'20"	1.804	814659.266	811182.863	AD	267°39'34"	5.264	814611.363	811226.108	CF	267°39'34"	5.264	814611.363	811226.108					
AQ					BE	332°52'13"	4.219	814663.021	811180.939	AE	267°39'34"	5.264	814611.363	811226.108	CG	267°39'34"	5.264	814611.363	811226.108					
AR					BF					AF	267°39'34"	5.264	814611.363	811226.108	CH	267°39'34"	5.264	814611.363	811226.108					
AS					BG					AG	267°39'34"	5.264	814611.363	811226.108	CI	267°39'34"	5.264	814611.363	811226.108					
AT					BH					AA	267°39'34"	5.264	814611.363	811226.108	CC	267°39'34"	5.264	814611.363	811226.108					
AU					BI					AB	267°39'34"	5.264	814611.363	811226.108	CD	267°39'34"	5.264	814611.363	811226.108					
AV					BJ					AC	267°39'34"	5.264	814611.363	811226.108	CE	267°39'34"	5.264	814611.363	811226.108					





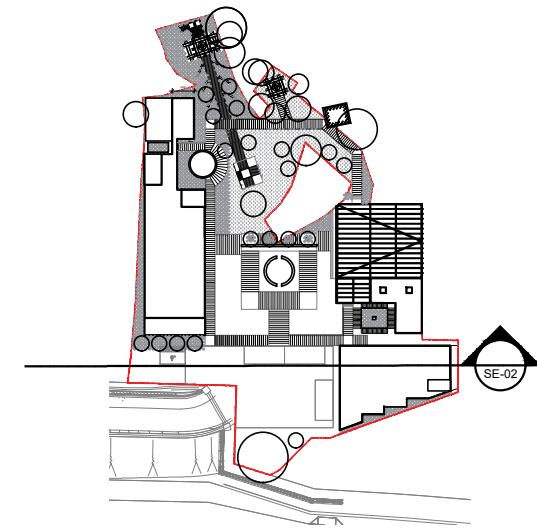
何 周 禮 建 築 設 計 事 務 所 有 限 公 司

REMARKS: DO NOT SCALE THIS DRAWING. ALL MEASUREMENTS MUST BE CHECKED ON SITE.	APPROVED: -	BARRIE HO ARCHITECTURE · INTERIORS	REVISION	DATE	DRAWN	CHECKED	PLANNING SUBMISSION
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	CHECKED: MM		B	DEC 2025	TL	MM	
	DATE: -		C	APR 2026	TL	MM	
	DRAWN: TL						
DATE: JUL 2025	PROJECT: Section 16 Planning Application for Proposed Religious Institution and Columbarium (Partial Redevelopment of Prajna Dhyana Temple)	TITLE: MASTER LAYOUT PLAN	DWG NO.: MLP-01	JOB NO.: 202513	SCALE: 1:300 (A3)		

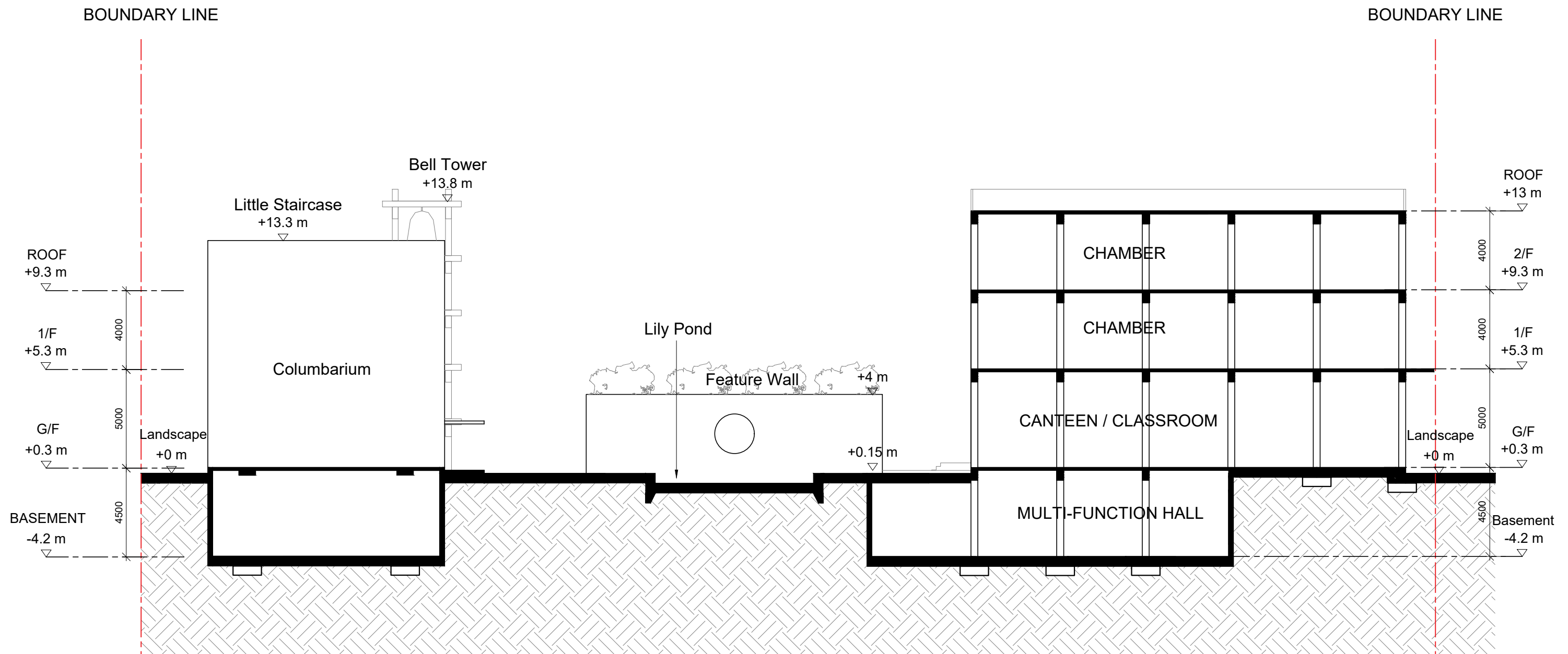


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	DATE: -		A	OCT 2025	TL	MM	
	CHECKED: MM		B	DEC 2025	TL	MM	
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DATE: 17 JUL 2025	PROJECT: Section 16 Planning Application for Proposed Religious Institution and Columbarium (Partial Redevelopment of Prajna Dhyana Temple)	TITLE: Site Section	DWG NO.: SE-01	JOB NO.: 202513	SCALE: 1:200 (A3)		

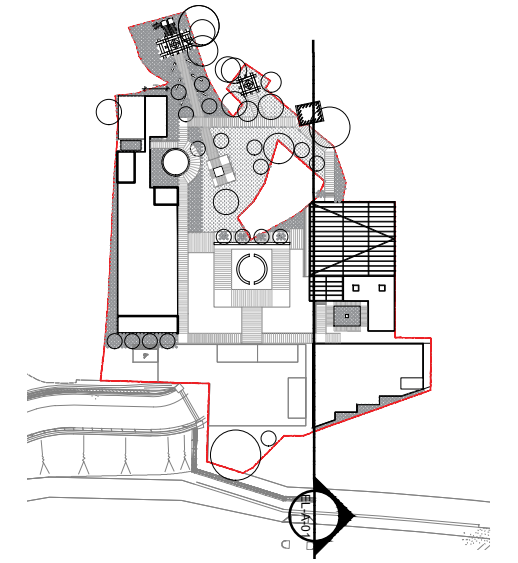
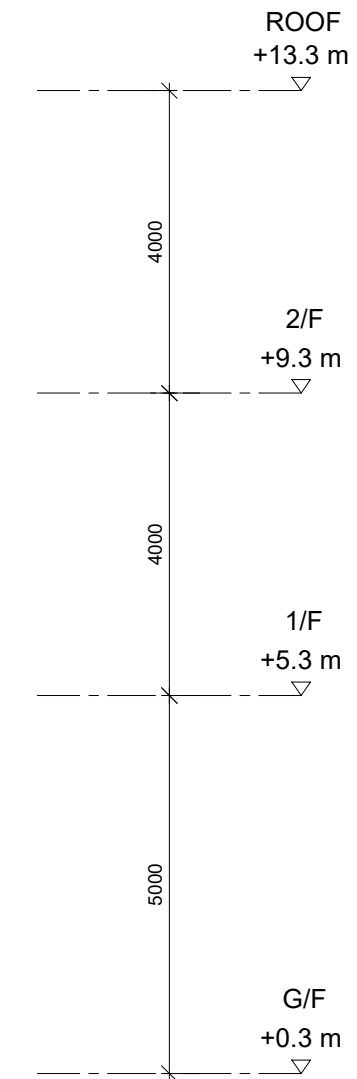
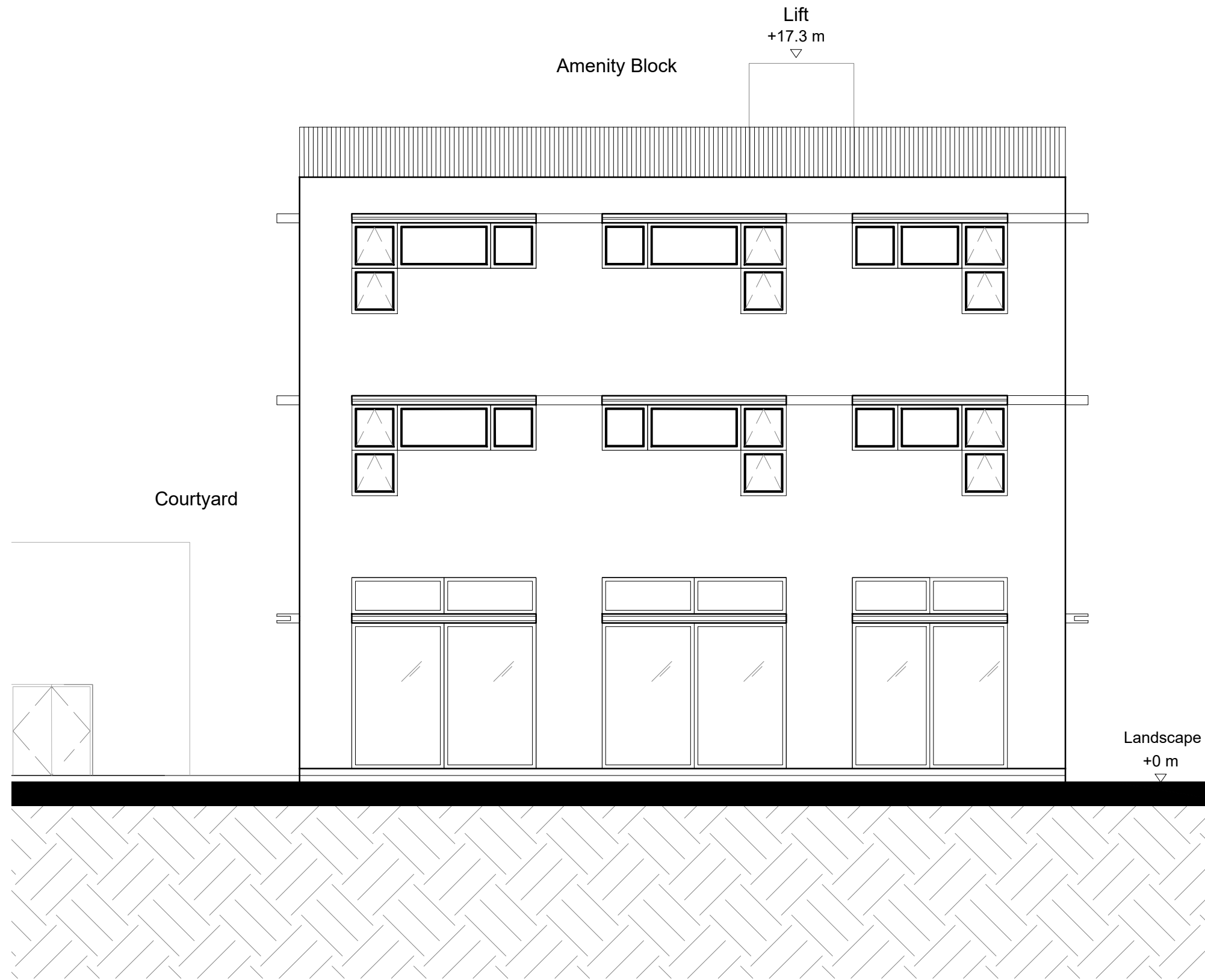


BOUNDARY LINE



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REMARKS: DO NOT SCALE THIS DRAWING. ALL MEASUREMENTS MUST BE CHECKED ON SITE.	APPROVED: -	BARRIEHOLD ARCHITECTURE · INTERIORS		REVISION	DATE	DRAWN	CHECKED	PLANNING SUBMISSION
	DATE: -							
	CHECKED: MM	PROJECT:	DWG NO.:					
	DATE: -	Section 16 Planning Application for Proposed Religious Institution and Columbarium (Partial Redevelopment of Prajna Dhyana Temple)	SE-02					
	DRAWN: TL	TITLE:	JOB NO.:					
DATE: 9 DEC 2025	Site Section	202513	SCALE:	1:200 (A3)				



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APPROVED: -
DATE: -
CHECKED: MM
DATE: -
DRAWN: TL
DATE: 17 JUL 2025

BARRIE HOLD
ARCHITECTURE · INTERIORS

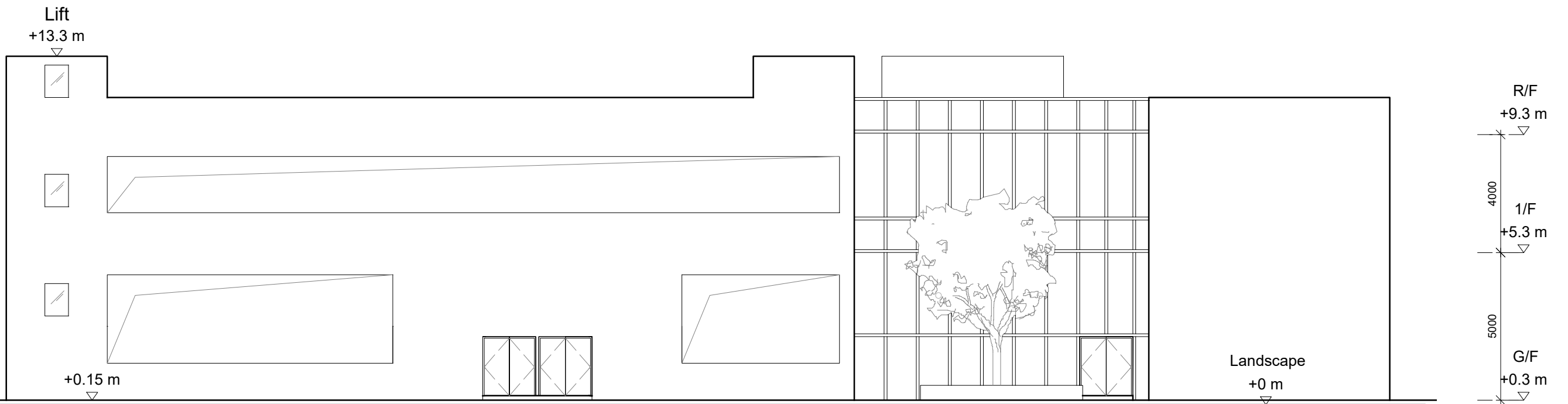
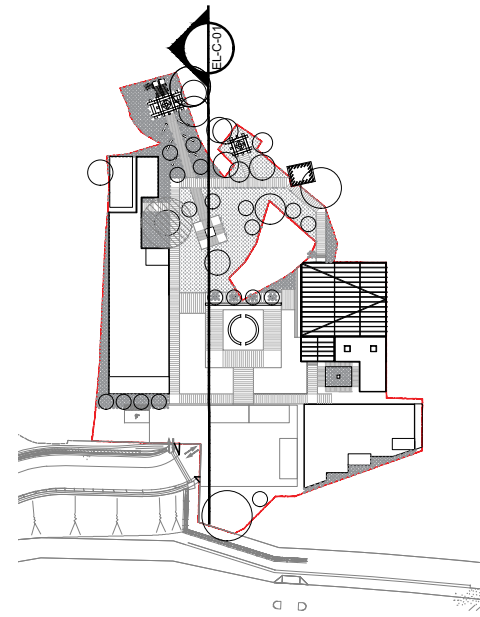
PROJECT:
Section 16 Planning Application for
Proposed Religious Institution and
Columbarium (Partial Redevelopment
of Prajna Dhyana Temple)

TITLE:
Amenity Block Elevation 1

DWG NO.: EL-A-01
JOB NO.: 202513
SCALE: 1:100 (A3)

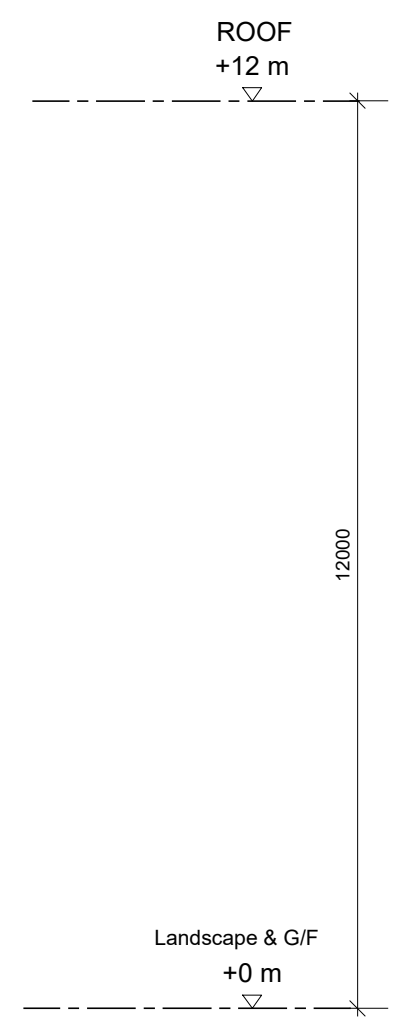
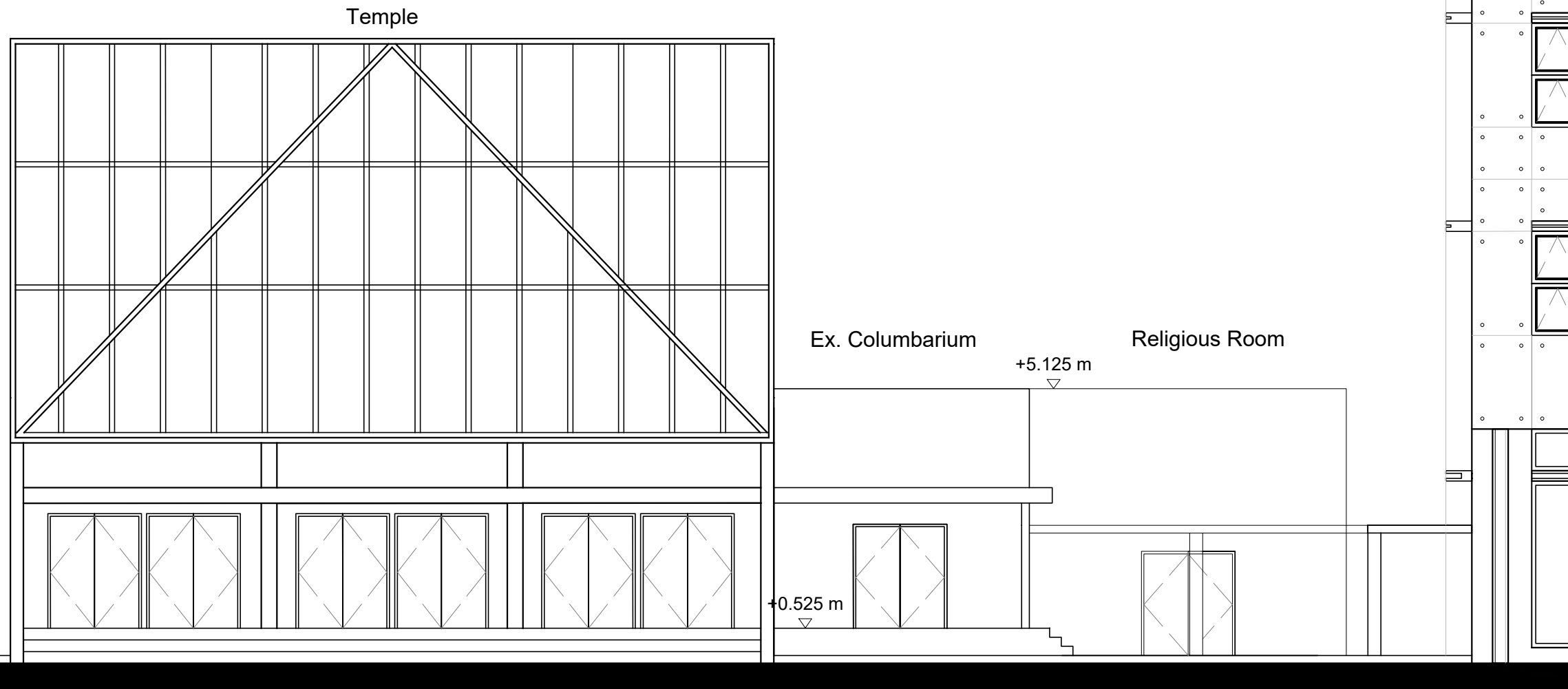
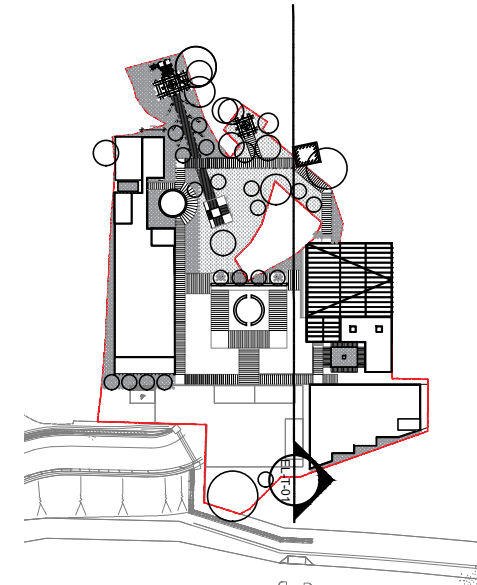
REVISION	DATE	DRAWN	CHECKED
A	DEC 2025	TL	MM

**PLANNING
SUBMISSION**



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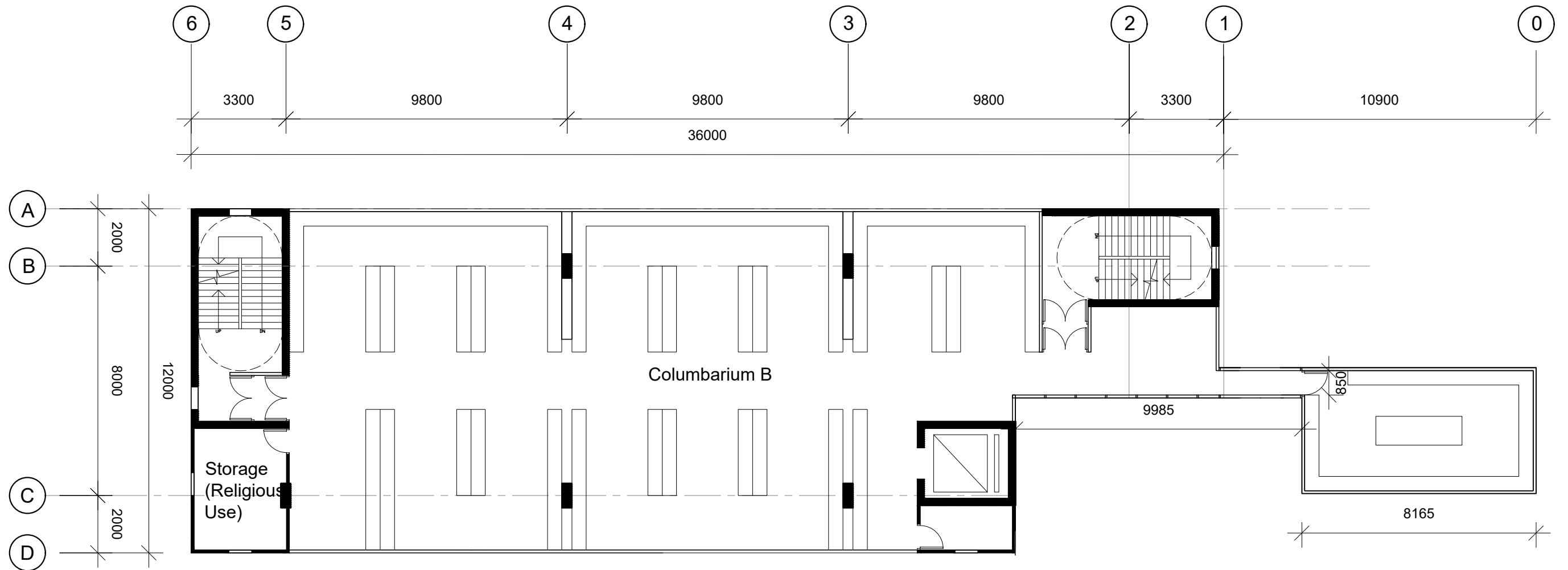
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	CHECKED: MM	PROJECT:	TITLE:	DWG NO.:					
	DATE: -	Section 16 Planning Application for Proposed Religious Institution and Columbarium (Partial Redevelopment of Prajna Dhyana Temple)	Columbarium Elevation	EL-C-01					
DRAWN: TL	DATE: 17 JUL 2025			JOB NO.:					
				SCALE:	1:150 (A3)				



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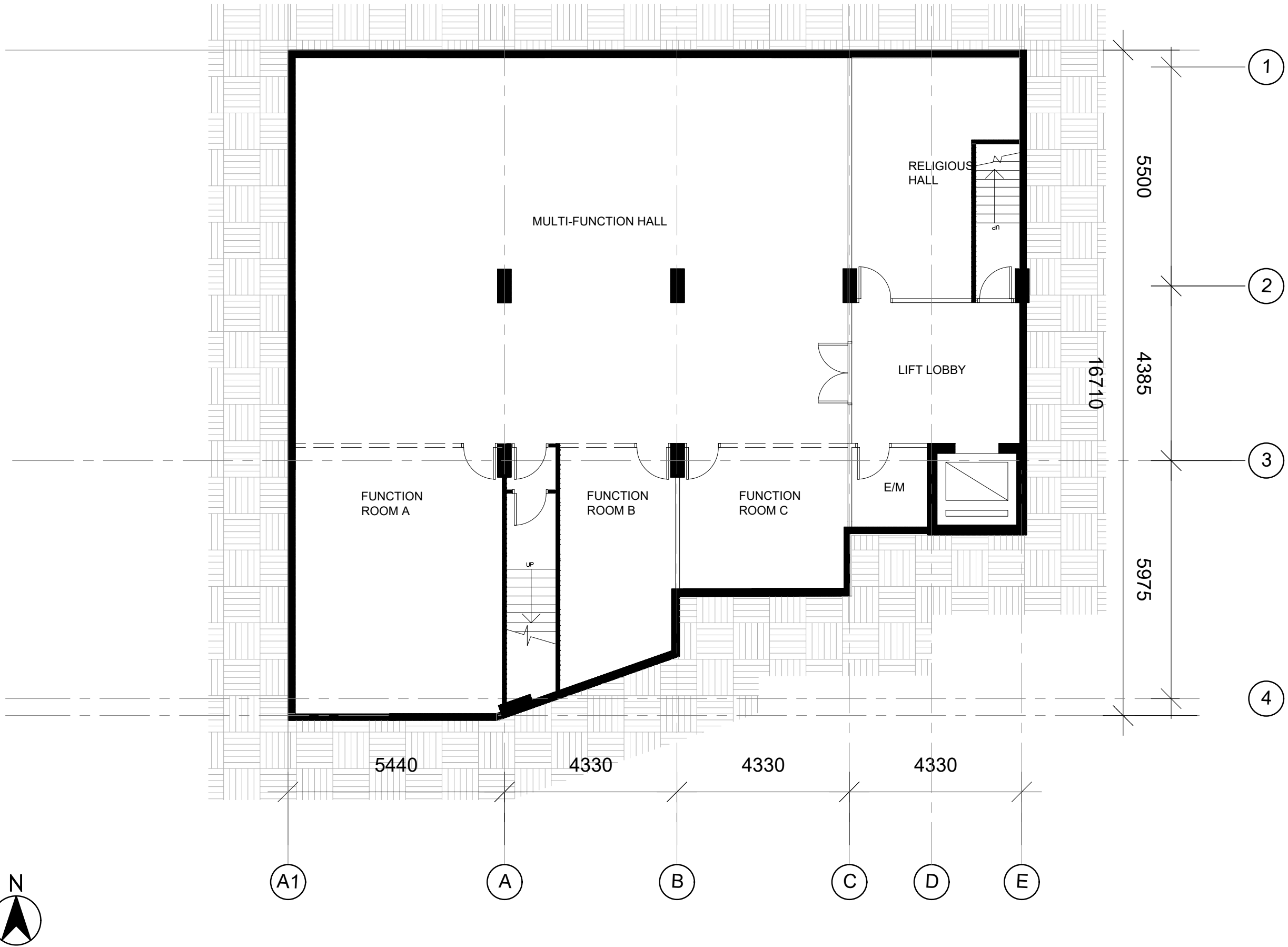
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	CHECKED: MM					
	DATE:					
	DRAWN: TL	PROJECT:	TITLE:	DWG NO.:		
	DATE: 11 JUL 2025	Section 16 Planning Application for Proposed Religious Institution and Columbarium (Partial Redevelopment of Prajna Dhyana Temple)	TEMPLE ELEVATION	EL-T-01		
				JOB NO.: 202513		
				SCALE: 1:100 (A3)		

PLANNING SUBMISSION



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REMARKS: DO NOT SCALE THIS DRAWING. ALL MEASUREMENTS MUST BE CHECKED ON SITE.	APPROVED:	BARRIE HOLD ARCHITECTURE • INTERIORS		REVISION	DATE	DRAWN	CHECKED	PLANNING SUBMISSION
	DATE:			A	DEC 2025	TL	MM	
	CHECKED: MM			B	APR 2026	TL	MM	
	DATE:							
	DRAWN: TL							
DATE: 11 JUL 2025	PROJECT: Section 16 Planning Application for Proposed Religious Institution and Columbarium (Partial Redevelopment of Prajna Dhyana Temple)	TITLE: COLUMBARIUM 1/F PLAN	DWG NO.: LP-C-02	JOB NO.: 202513	SCALE: 1:150 (A3)			



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APPROVED: -
DATE: -
CHECKED: MM
DATE: -
DRAWN: TL
DATE: 11 JUL 2025

B A R R I E R H O U S E
ARCHITECTURE · INTERIORS

PROJECT:
Section 16 Planning Application for
Proposed Religious Institution and
Columbarium (Partial Redevelopment
of Prajna Dhyana Temple)

TITLE:
AMENITY BLOCK BASEMENT PLAN

DWG NO.: LP-A-02
JOB NO.: 202513
SCALE: 1:100 (A3)



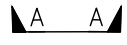


REVISION	DATE	DRAWN	CHECKED
A	OCT 2025	TL	MM
B	DEC 2025	TL	MM

**PLANNING
SUBMISSION**

Appendix B

Existing Ground Investigation (GI) Record (Figure 1)

LEGEND:

-  LOT BOUNDARY
-  SCOPE WITHIN 10m FROM LOT BOUNDARY
-  SECTIONS
-  DH215 EXISTING DRILLHOLES
-  TP4 EXISTING TRIAL PIT

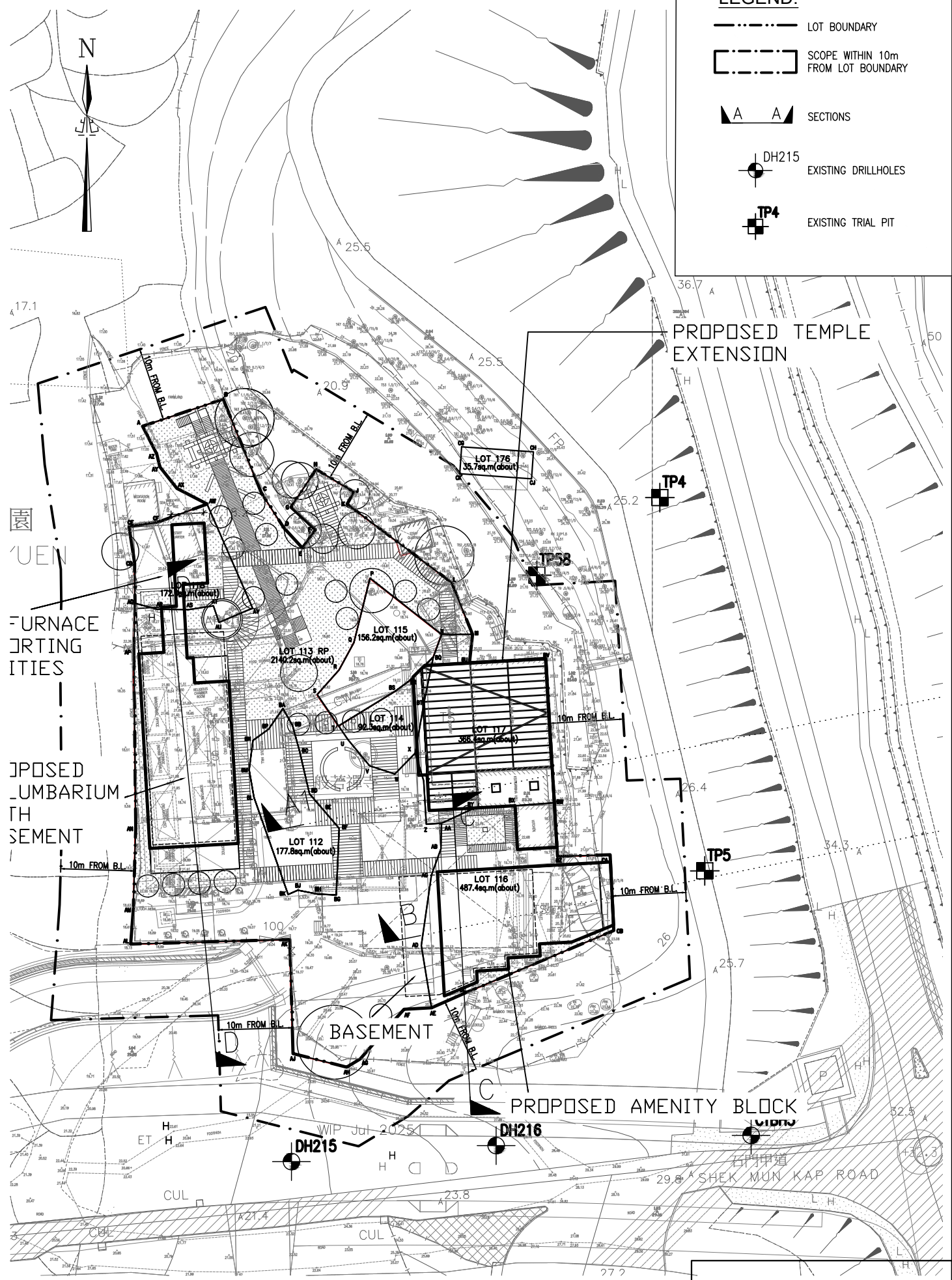


FIGURE 1

Depth (m)	Sketch	Depth (m)	Legend	Description	Grade
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 some subrounded boulder sized strong tuff fragments and some rootlets. (OLD TOP SOIL)	<p>VIV</p>
1.0		Firm, moist, yellowish brown (10YR 6/8) 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)			
1.5					
2.0					
2.5					
3.0					
3.20					
3.5					
4.0					
4.5					
5.0					
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.

SYMBOLS		REMARKS		PLAN		SECTION	
↑	Small Disturbed Sample	Ground Water	No collapse				
↕	Large Disturbed Sample	No Groundwater	Depth at pit centre 3.00m	<p>(not to scale)</p>		<p>Face A</p>	
↓	Undisturbed Vertical Sample	Plant Used	Others	<p>Face B</p>		<p>Face C</p>	
▬	Undisturbed Horizontal Sample	Hand dug	NIL	<p>Face D</p>		<p>Face C</p>	
■	Block Sample	Shoring		<p>Face A</p>		<p>Face C</p>	
U	In-situ Density Test	Timber shoring over full height		<p>Face B</p>		<p>Face C</p>	
▲	Water Sample			<p>Face A</p>		<p>Face C</p>	
↘	Water Seepage			<p>Face B</p>		<p>Face C</p>	

PROJECT		TRIAL PIT NO.	
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Investigation and Preliminary Assignment		TP4	
Sheet	1 of 1	Date excavated	15/08/2002 to 20/08/2002
Date Reinstated	10/09/2002 to 13/09/2002	GEO TECHNICS & CONCRETE ENGG. (HONG KONG) LIMITED	
		GROUND INVESTIGATION DEPARTMENT	

CONTRACT & WORKS		LOGGING & CHECKING	
Contract No.:	GE2001/14	Logged by:	K.M. To
Works Order No.:	GE2001/14.40	Date logged:	21/08/2002
Co-ordinates:	E 811251.18 N 814652.07	Checked by:	James Lu
Ground Level:	30.38 mPD	Date Checked:	22/08/2002

Depth (m)	Sketch	Depth (m)	Legend	Description	Grade
0.20	<p>① Boulder. ② Cobble.</p>	0.20		<p>Loose, moist, dark grey (7.5YR 4/1), occasionally mottled yellow, clayey silty fine to coarse SAND with occasional angular to subrounded fine to coarse gravel sized rock fragments and rootlets. (OLD TOP SOIL)</p> <p>Loose, moist, grey (7.5YR 6/1) mottled yellow, clayey, silty fine to coarse SAND with occasional subangular coarse gravel and cobble sized rock fragments. (ALLUVIUM)</p> <p>Loose, moist, light brownish yellow (10YR 6/8) mottled, dappled light grey and yellowish brown, silty, very clayey fine to coarse SAND with some angular to subrounded fine to coarse gravel, cobble and boulder (maximum size 0.80m x 0.60m) sized moderately strong and strong turf fragments. (ALLUVIUM)</p> <p>End of Trial pit at maximum depth 1.50m.</p> <p>Notes:</p> <ol style="list-style-type: none"> Small disturbed samples were taken at 0.50m, 1.00m and 1.50m depths. Large disturbed sample was taken at 1.00m depth. Undisturbed vertical samples (U100) were taken at 0.50m and 1.50m depths. In-situ density test (Sand Replacement Test) was carried out at 1.00m depth. Water seepage at 1.20m depth. 	
0.40		0.40			
0.5		0.5			
1.0		1.0			
1.5		1.5			
2.0		2.0			
2.5		2.5			
3.0		3.0			
3.5		3.5			
4.0		4.0			
4.5	4.5				
5.0	5.0				
5.5	5.5				
6.0	6.0				

SYMBOLS		REMARKS		PLAN		SECTION	
↑ Small Disturbed Sample	Ground Water	Ground Water at depth 1.30m.	(not to scale)				
↕ Large Disturbed Sample	Plant Used	Hand dug					
┆ Undisturbed Vertical Sample	Shoring	Timber shoring over full height					
┆ Undisturbed Horizontal Sample	Stability	No collapse					
▬ Block Sample	Depth at pit centre	1.50m					
┆ Insitu Density Test	Others	NIL					
▲ Water Sample							
┆ Water Seepage							

PROJECT	
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Investigation and Preliminary Assignment Ground Investigation	
Sheet 1 of 1	TRIAL PIT NO. TP5
Date excavated 20/08/2002 to 22/08/2002	
Date Reinstated 09/09/2002 to 13/09/2002	
GEOTECHNICS & CONCRETE ENGG. (HONG KONG) LIMITED GROUND INVESTIGATION DEPARTMENT	

Contract No. : GE/2001/14
Works Order No. : GE/2001/14.40
Co-ordinates : E 811257.05 N 814803.18
Ground Level : 28.72 mPD
Logged by : K.M. To
Date logged : 23/08/2002
Checked by : James Lu
Date Checked : 24/09/2002



VIBRO (H.K.) LTD.
SITE INVESTIGATION DEPARTMENT

TRIAL PIT No.:

TP58

TRIAL PIT RECORD

SHEET 1 OF 1

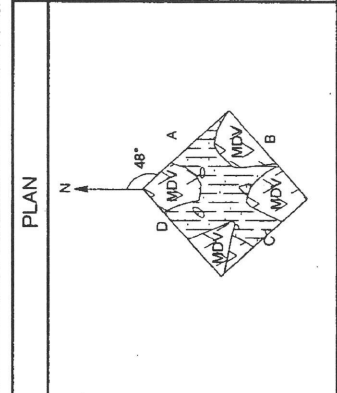
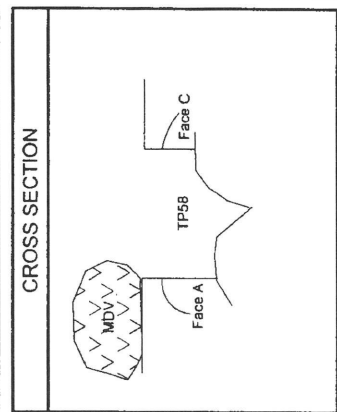
PROJECT	Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Investigation and Preliminary Assignment Ground Investigation (Section 2)			CONTRACT No.	GE/99/07
STARTED ON	14/12/2001	CO-ORDINATES	E 811235.07	WORKS ORDER No.	GE/99/07.60B
COMPLETED ON	17/12/2001		N 814641.75	LOGGED BY	T. 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

DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)
0.50	1.00	2.00	3.00	4.00	FACE A	FACE B	FACE C	FACE D
					1.50 m	1.50 m	1.50 m	1.50 m

GRADE	
DESCRIPTION	<p>Firm, brown (7.5YR 5/40), moist, sandy SILT with occasional angular to subangular cobbles. (COLLUVIUM)</p> <p>End of Trial Pit at 1.00m. Bottom: Subangular to subrounded BOULDERS (MDV) with maximum sized 0.60 x 0.80m. (COLLUVIUM)</p>

LEGEND	
DEPTH (m)	1.00
SKETCH	

SAMPLES & TESTS	<ul style="list-style-type: none"> ● Small disturbed sample ↑ Large disturbed sample ▭ Undisturbed horizontal sample ▭ Undisturbed vertical sample □ Block sample ∩ In situ density test ∇ Water seepage ▲ Water sample ↓ Percolation test
-----------------	---



REMARKS

- The sides of the trial pit were supported over their full height with timber shoring.
- The sides of the trial pit were stable during excavation.
- Average depth 1.00m.
- Large disturbed samples taken from 0.80 to 1.00m.

SYMBOLS

- Small disturbed sample
- ↑ Large disturbed sample
- ▭ Undisturbed horizontal sample
- ▭ Undisturbed vertical sample
- Block sample
- ∩ In situ density test
- ∇ Water seepage
- ▲ Water sample
- ↓ Percolation test



DRILLHOLE RECORD

HOLE NO. **DH215**
SHEET 1 of 5

CONTRACT NO. NL/2017/02

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.
MACHINE	SD5	E 811202.87 N 814564.99	NL/2017/02/GI/SMK01
FLUSHING MEDIUM	WATER	ORIENTATION	DATE
		VERTICAL	31.10.2018 to 06.11.2018
			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									0.00	+21.42	0.00		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)
1			70	68					1	0.45	+20.92	0.50		Brown (10YR 4/3), clayey sandy SILT with some subangular fine to coarse gravel and with occasional concrete fragments. (FILL)
2			70	0					2	1.05	+20.42	1.00		Brownish yellow (10YR 6/8) mottled grey, subangular, COBBLE and BOULDER of slightly decomposed tuff fragments. (FILL)
3			70	18					3	1.50	+19.92	1.50		Reddish yellow (5YR 6/8) mottled red, subangular, silty sandy COBBLE of rock fragment. (FILL)
4	SW 3.00m PW		70	95					4	2.60	+18.82	2.60		Reddish yellow (5YR 6/8) mottled red, subangular, silty sandy fine to coarse GRAVEL and COBBLE of rock fragments. (FILL)
5			70	0				4.1 2,4,4,5 N=15	5	3.00	+18.42	3.00	V	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							6	4.00				
7		1.05 at 0800	70	100					7	4.10				
8			70	0					8	4.20				
9			70	100				3.3 3,4,5,6 N=18	9	4.50			V	Extremely weak, light grey (10YR 7/1) dappled reddish brown, completely decomposed RHYOLITE. (Stiff, slightly sandy silty CLAY with occasional angular fine gravel)
10			70	100					10	5.00	+16.42	5.00	V	Extremely weak, brownish yellow (10YR 6/8), completely decomposed RHYOLITE. (Very stiff, slightly sandy SILT with occasional angular fine gravel)
11									11	6.00	+15.32	6.10	V	Extremely weak, light grey (10YR 7/1) dappled brownish yellow, completely decomposed RHYOLITE. (Very stiff, clayey sandy SILT with some angular fine gravel)
12									12	6.10				
13									13	7.10				
14									14	7.20				
15									15	7.30				
16								3.4 4,5,6,6 N=21	16	7.60				
17									17	8.10	+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)
18									18	9.10				
19									19	9.20				
20									20	9.30				
21									21	9.60				
22									22	10.00	+11.42	10.00		

<ul style="list-style-type: none"> ⊥ SMALL DISTURBED SAMPLE ⊥ LARGE DISTURBED SAMPLE ▨ U76 SAMPLE ▨ PISTON SAMPLE (76mm) ▨ HAZIER SAMPLE □ SPT LINER SAMPLE ▲ WATER SAMPLE ■ U100 SAMPLE 	<ul style="list-style-type: none"> ⊥ STANDARD PENETRATION TEST ⊥ IN-SITU VANE SHEAR TEST ⊥ PACKER TEST ⊥ PERMEABILITY TEST ⊥ PRESSUREMETER TEST ⊥ BOREHOLE TELEVIEWER ⊥ PIEZOMETER TIP ⊥ STANDPIPE TIP 	<p>LOGGED <u>C. Chan</u></p> <p>DATE <u>10.11.2018</u></p> <p>CHECKED <u>R. Chu</u></p> <p>DATE <u>15.11.2018</u></p>	<p>REMARKS</p> <ol style="list-style-type: none"> 1. An inspection pit was excavated to 1.00m deep by hand tools. 2. Acoustic borehole televiewer survey was carried out from 28.00m to 42.78m. 3. A standpipe was installed to 10.00m.
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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	WORKS ORDER NO.
MACHINE	SD5	E 811202.87 N 814564.99	NL/2017/02/GI/SMK01
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				1,2,3 4,5,6,8 N=23	17 18 19 20	10.10 11.10 11.20 11.30	10.10 11.10 11.20 11.30		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		70	100			5,6 10,17,20,24 N=71	22 23 24	13.10 13.20 13.30				V	
14			70	100				25	14.10				V	
15			70	100			4,9 12,18,23,27 N=81	26 27 28	15.10 15.20 15.30				V	
16			70	100				29	16.10				V	
17			70	100			12,15 15,17,23,26 N=84	30 31 32	17.10 17.20 17.30				V	
18		0.51 at 1600 3.10 at 0800	70	80				33	18.10				V	
19							20,30 100/50mm 100/50mm	34 35	19.10 19.20 19.35				V	
20										20.00			V	

<ul style="list-style-type: none"> ⊥ SMALL DISTURBED SAMPLE ⊥ LARGE DISTURBED SAMPLE ▨ U70 SAMPLE ▨ PISTON SAMPLE (78mm) ▨ MAZIER SAMPLE ▨ SPT LINER SAMPLE ▲ WATER SAMPLE ■ U100 SAMPLE 	<ul style="list-style-type: none"> ⊥ STANDARD PENETRATION TEST ⊥ IN-SITU VANE SHEAR TEST ⊥ PACKER TEST ⊥ PERMEABILITY TEST ⊥ PRESSUREMETER TEST ⊥ BOREHOLE TELEVIEWER ⊥ PIEZOMETER TIP ⊥ STANDPIPE TIP 	<p>LOGGED <u>C. Chan</u></p> <p>DATE <u>10.11.2018</u></p> <p>CHECKED <u>R. Chu</u></p> <p>DATE <u>15.11.2018</u></p>
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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	80					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	SW 2.18m		0	80					T6-146		1.50			
	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 21.31.2018		1.03 at 1800 Dry at 1300	70	70	0	0	NA		T2-120	+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					3		4.40			
5								3,4 4,7,8,11 N=31	4		4.50			
									5		4.60			
									6	+10.81	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)
21.11.2018 22.11.2018		4.16 at 1800 5.15 at 0800	70	100					7		6.40			
7								4,5 5,8,10,11 N=34	8		6.50			
									9		6.60			
									10		7.40			
			70	95					11		8.40			
								2,2 3,4,6,8 N=19	12		8.50			
									13		8.60			
									14		8.90			
10			70	99						+15.21	10.00			

- ⊥ 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
1. An Inspection pit was excavated to 0.50m deep by hand tools.
2. Constant head permeability tests were carried out at sections from 5.00m to 6.50m and 17.65m to 19.15m.
3. Acoustic borehole televiewer survey was carried out from 34.30m to 46.96m.
4. A standpipe was installed to 7.00m.
5. 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		WORKS ORDER NO.								
MACHINE		SD4		E 811229.77 N 814567.08		NL/2017/02/GI/SMK01								
FLUSHING MEDIUM		WATER		ORIENTATION		VERTICAL								
GROUND LEVEL		+25.21 mPD		DATE		17.11.2018 to 29.11.2018								
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					15-16: 10.40, 10.50 17-18: 11.50, 11.60, 11.70 19: 12.00				V	As sheet 1 of 5.
12		3.10 at 1800 5.70 at 0800						3.5 5,7,8,10 N=30						
13			70	100					20: 12.50 21: 13.50 22: 13.70	+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					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 25: 15.50 26: 15.70					
16	PW 15.60m HW							16,9 13,17,21,24 N=75						
17			70	55					28: 16.50 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)
18			70	83					31: 18.60 32: 18.70 33: 19.10					
19		3.40 at 1800 7.93 at 0800						7,8 13,17,19,25 N=74						
20									34: 19.60	+5.21	20.00			

- ⊥ SMALL DISTURBED SAMPLE
- ↑ 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.
MACHINE & No.	DR128	E 811263.12 N 814568.45	GE/2001/14.40
FLUSHING MEDIUM	Air/Foam	ORIENTATION	DATE from 05/08/2002 to 06/08/2002
		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	64				1 ●		0.50			
								2 ●	30.15	1.00			Grey (7.5YR 6/1) dappled yellowish brown, BOULDER with occasional subangular cobble sized tuff fragments. (COLLUVIUM)
								T2101		1.50			From 1.50m to 1.82m : Boulder sized slightly decomposed tuff.
								T2101	29.15	2.00			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)
			94					3 ●	28.45	2.70		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)
								4 ●					
			50					5 ●	27.35	3.80		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)
								6 ●					
			85					7 ●		4.00			
								8 ●					
	PX 6.00 HX							9 ●		5.00			
			91					10 ●					
								11 ●		7.10			
			96					12 ●					
								13 ●	22.95	8.20		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)
			80					14 ●					
								15 ●		9.30			
			73					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

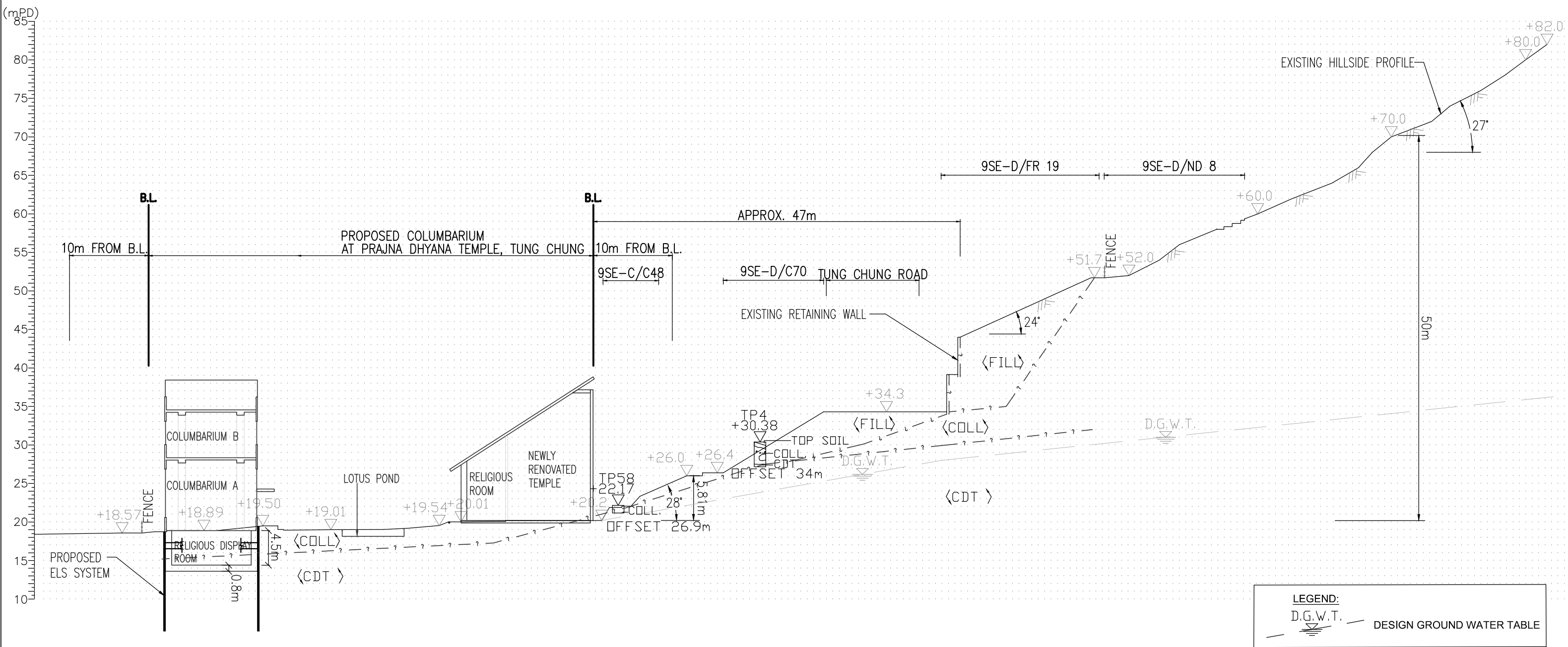
REMARKS
 1. Piezometer tip was installed at 10.50m depth.

Appendix C

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



FIGURE 2



SECTION A-A
SCALE 1:500(A3)

FIGURE 3

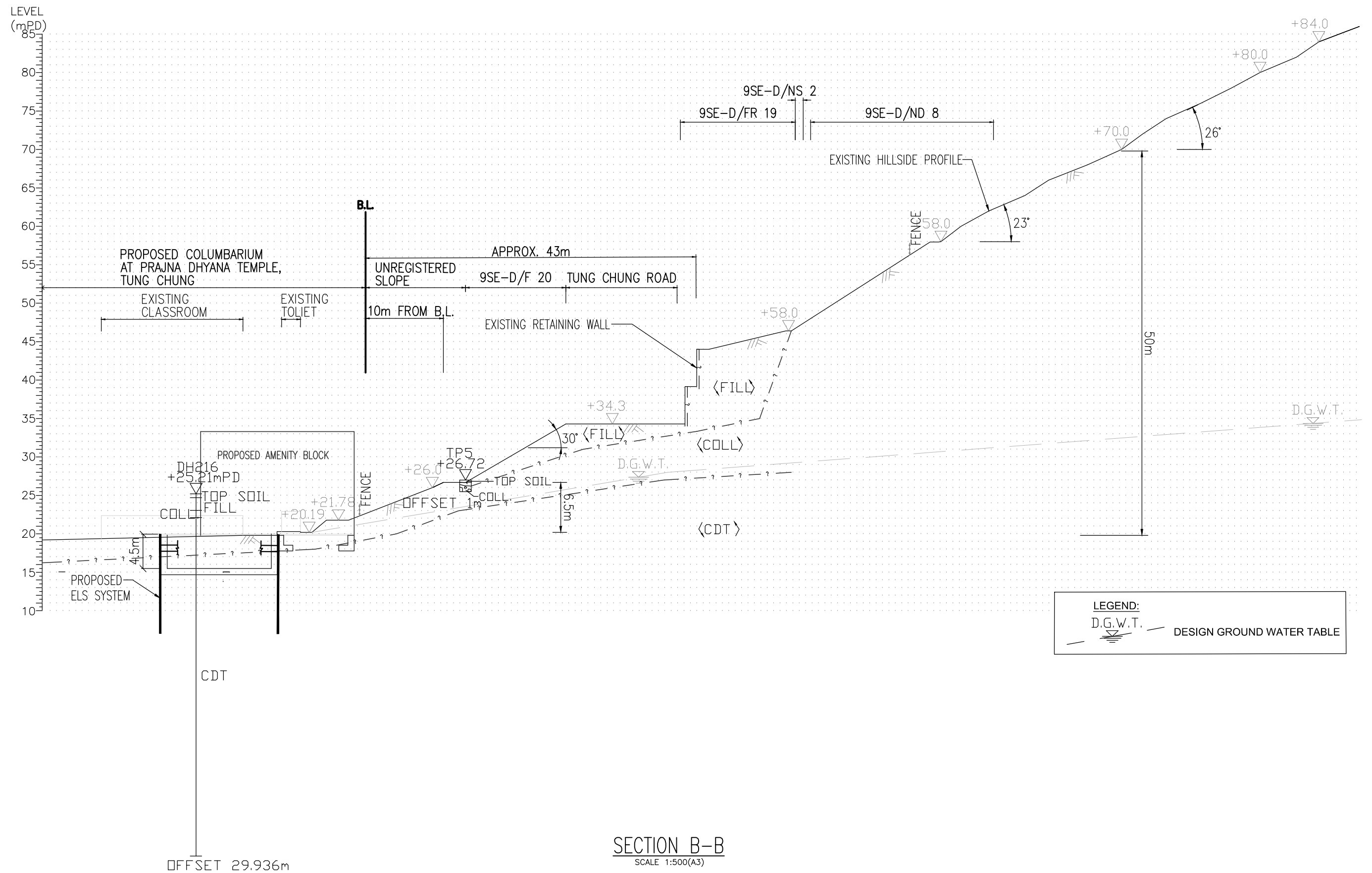


FIGURE 4

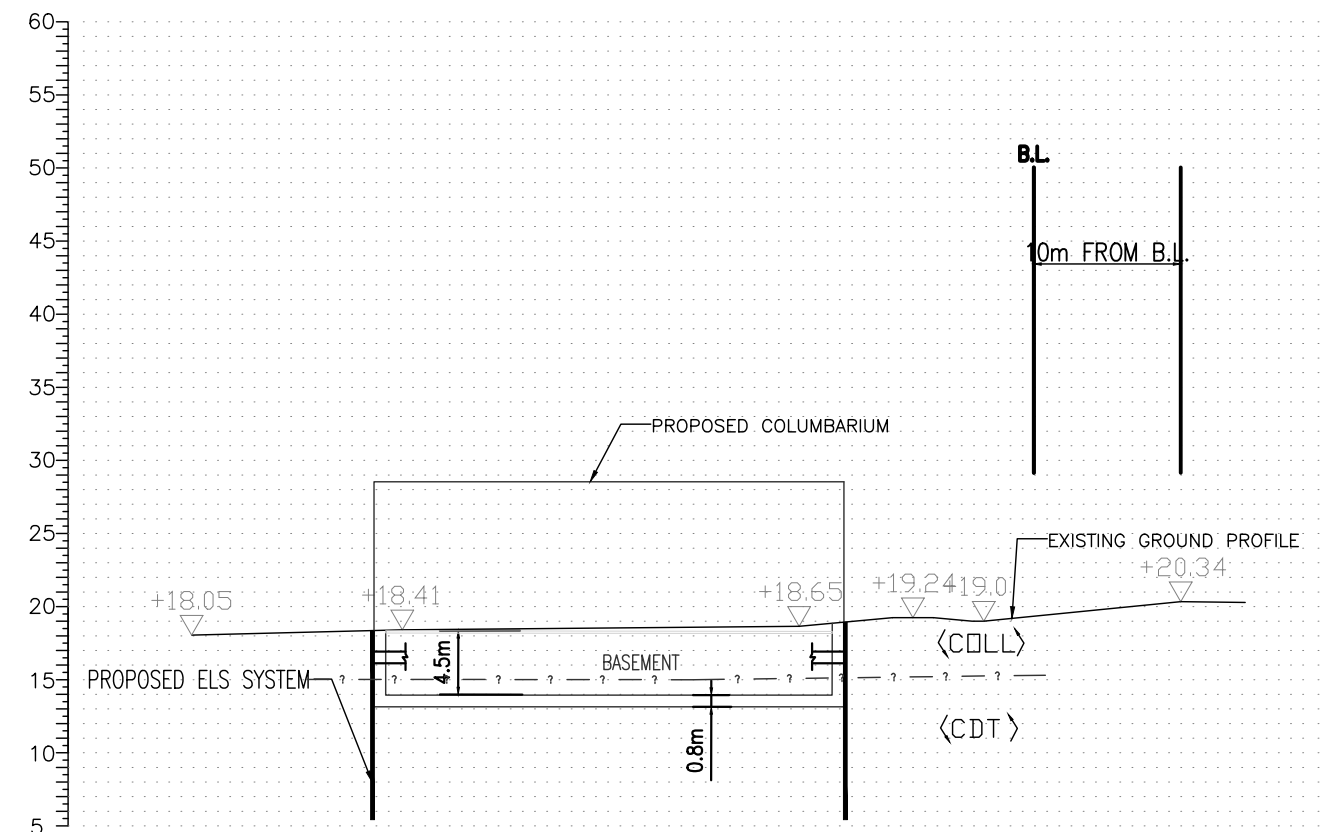
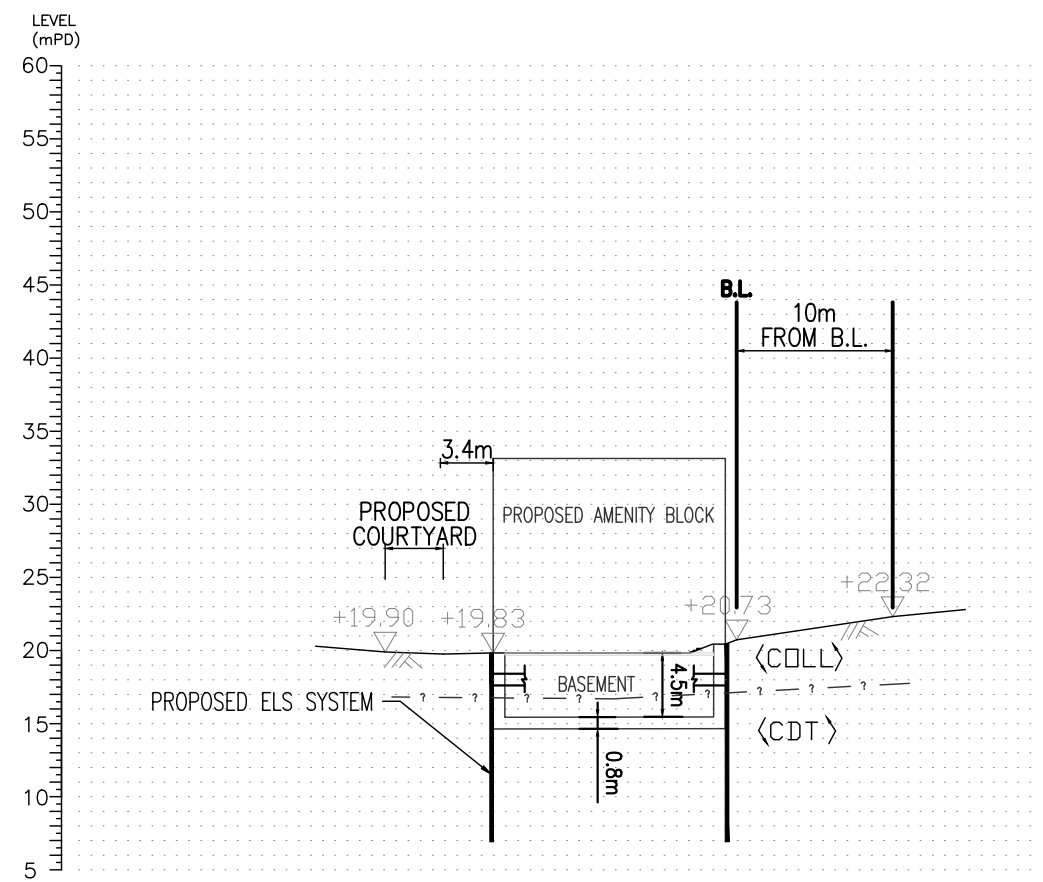


FIGURE 5

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

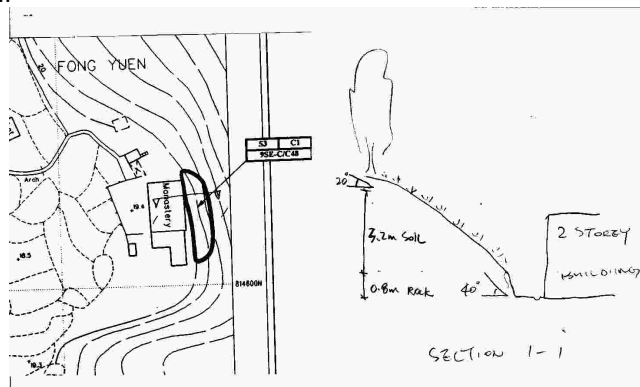
Actual Completion Date: 08-11-2021

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

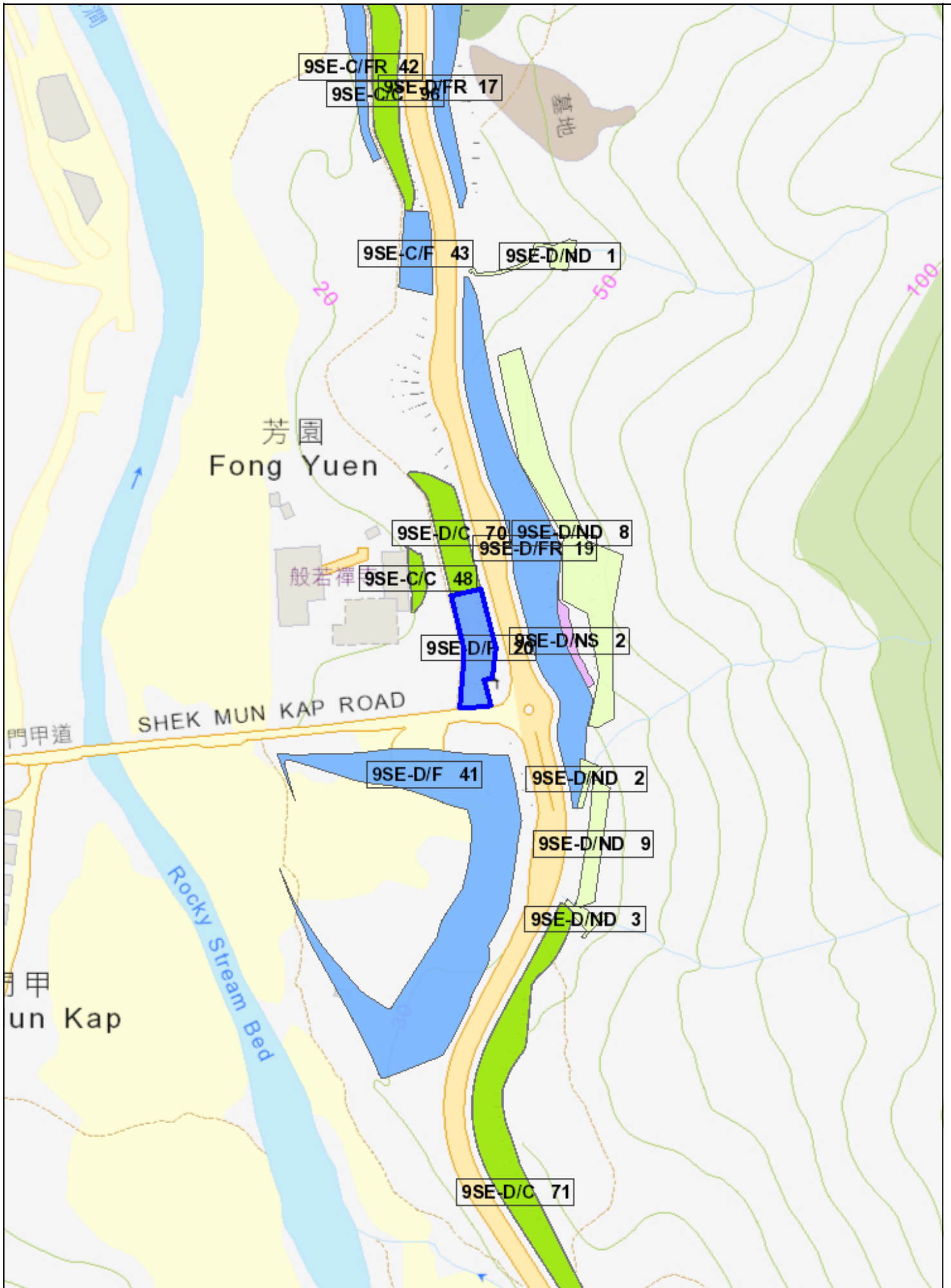


Non-routine Maintenance:

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

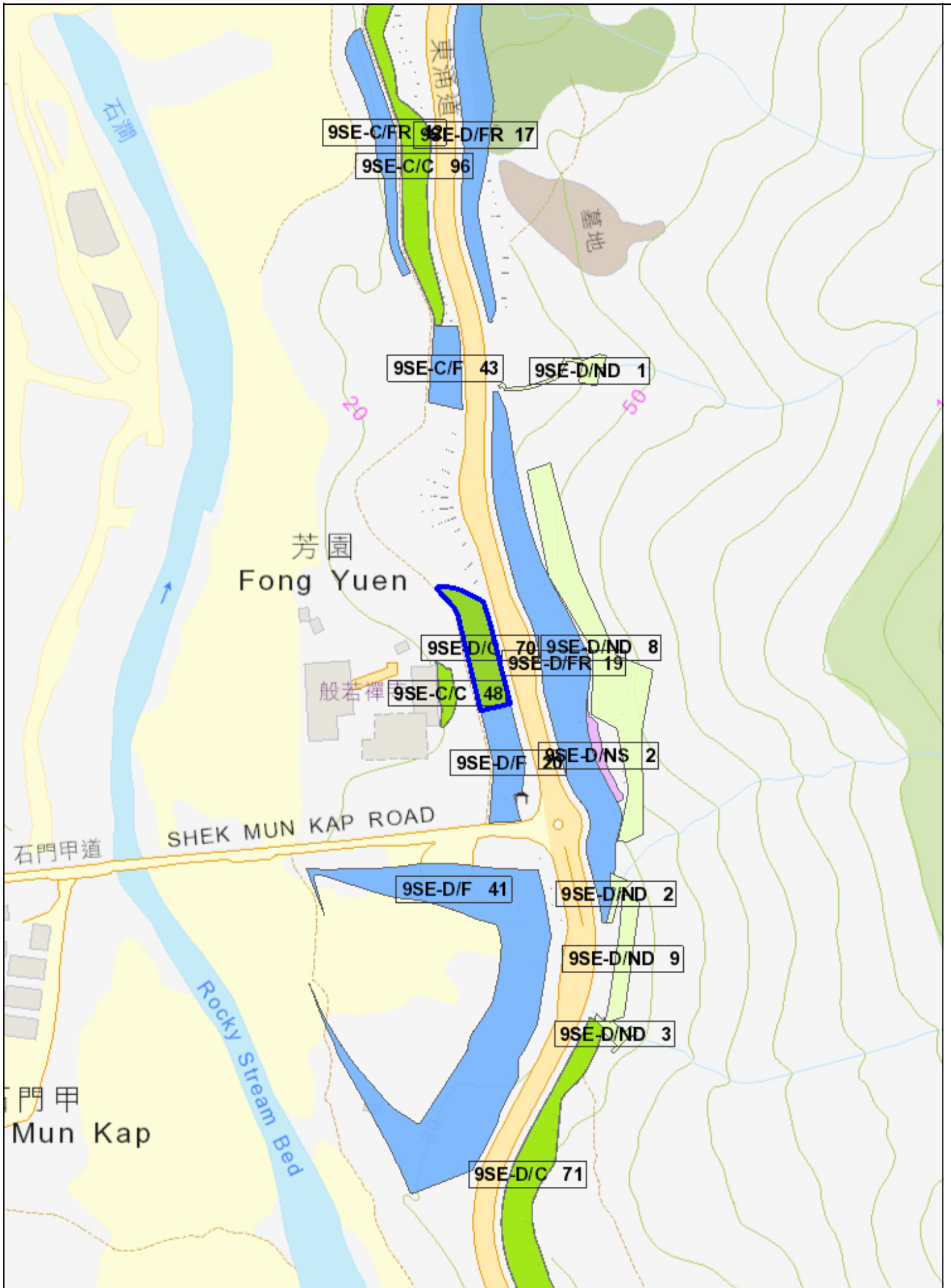
Works Contract No.:	N/A
GEO Managing Section / Engineer:	N/A / N/A
Contractor:	N/A
Progress Status:	N/A
Reason of Study Termination / Works Deletion (If Necessary):	N/A
Forecast Commencement Date:	N/A
Forecast Completion Date:	N/A
Completion Cert. Issued:	N/A
Site Handed Over to Maintenance Department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



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

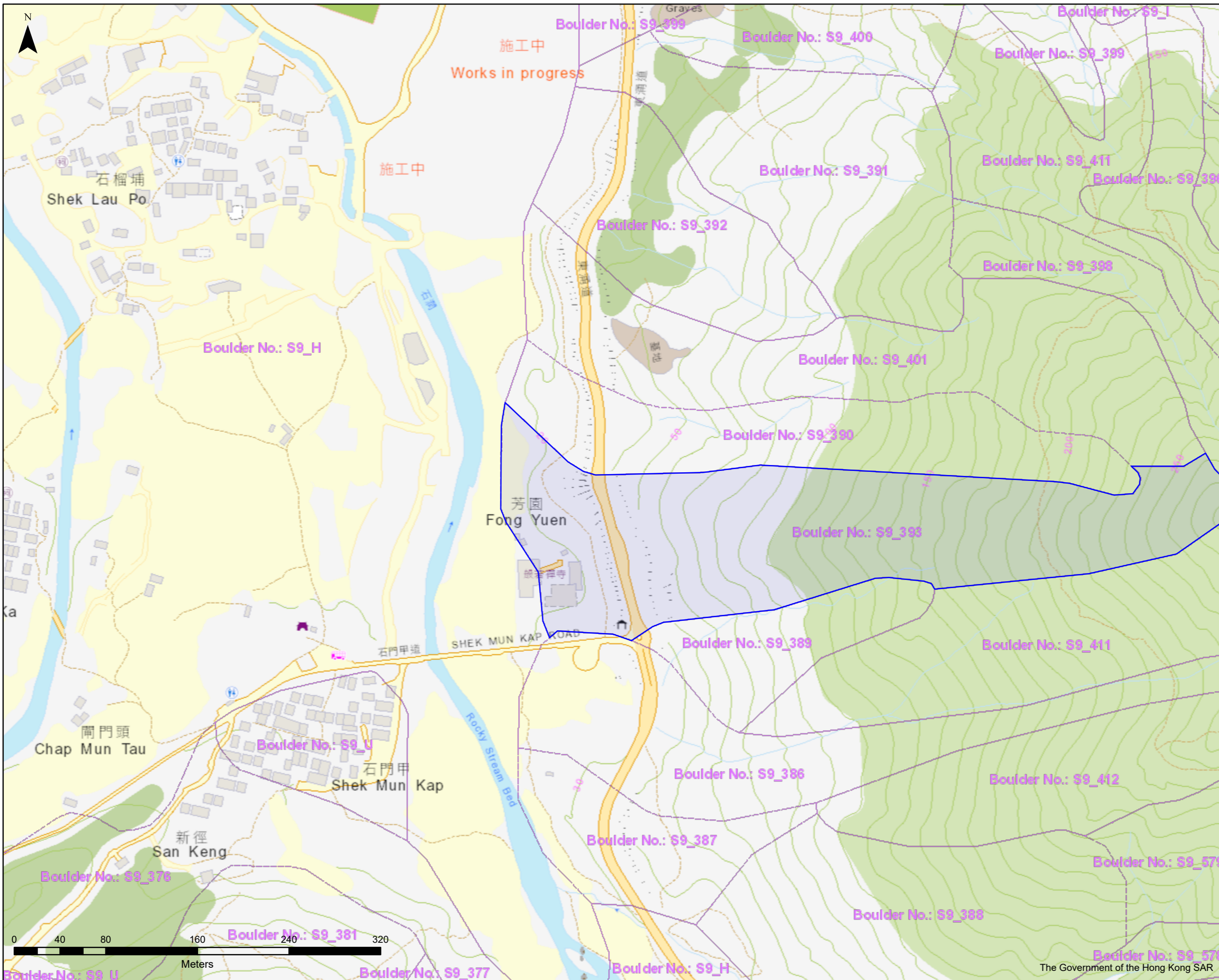
Enhanced Natural Terrain Landslide Inventory (ENTLI)

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

Appendix F

Boulder Field Inventory

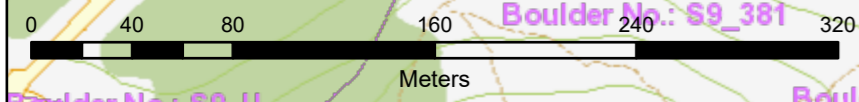


□ Boulder

Division

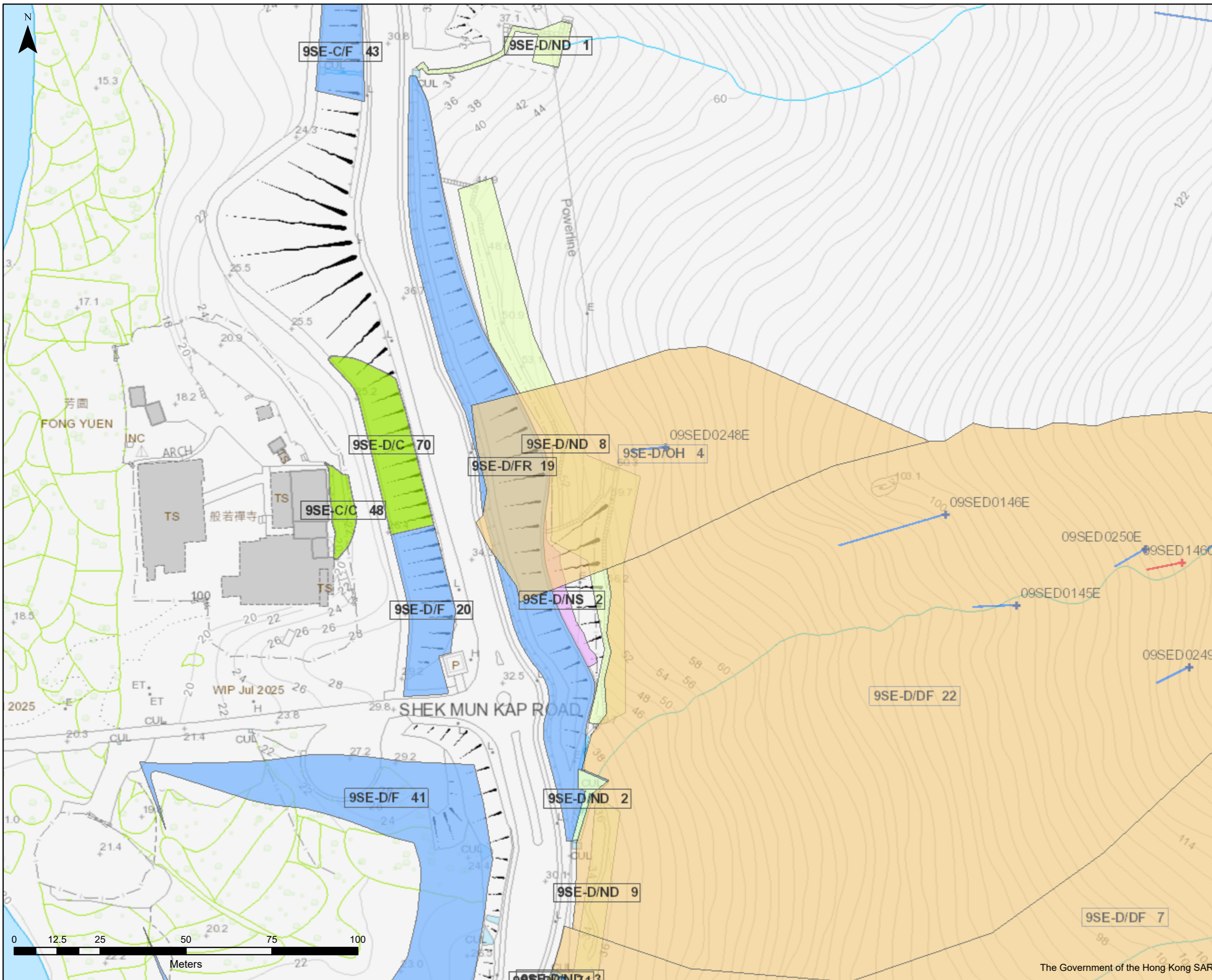
Scale 1:3000

Date 11/11/2025



Appendix G

Historical Landslide Catchment (HLC)



Man-made Features

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

ENTLI Crown

- Recent
- Relict

ENTLI Trail

- Recent
- Relict
- Landslide Studies Report Areas
- Incidents (Confirmed Cases)
- Historical Landslide Catchment

Man-made Features

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

Division	
Scale	1:1000
Date	12/11/2025



The Government of the Hong Kong SAR