



銅鑼灣

Causeway Bay

Annex H

**Approved Geotechnical Planning Review
Report**

Patchway Holdings (HK) Limited

**Proposed Commercial Development
on Inland Lot No.8945, Causeway
Bay, Hong Kong**

Geotechnical Planning Review Report

REP/03-20/01

Issue | Nov 2021

This report takes into account the particular instructions and requirements of our client.

It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

Job number OC1373

Ove Arup & Partners Hong Kong Ltd
Level 5 Festival Walk
80 Tat Chee Avenue
Kowloon Tong
Kowloon
Hong Kong
www.arup.com

ARUP

Contents

	Page
1 Introduction	1
1.1 Background	1
1.2 Scope of this Report	1
2 List of Data Sources	2
3 Site Description	3
3.1 The Site	3
3.2 Registered Man-made Features	3
3.3 Natural Terrain Hazard	4
4 Desk Study	5
4.1 Topography	5
4.2 Geological Setting	5
4.3 Site History	6
4.4 Ground Investigation Records	7
4.5 Measured Groundwater Table	9
5 Envisaged Geotechnical Works	10
5.1 Proposed Development	10
5.2 Envisaged Foundation Works	10
5.3 Envisaged Excavation Works	10
5.4 Envisaged Site Formation Works	11
6 Impact of Proposed Development to Adjacent Existing Man-made Features	12
7 Conclusion	13

Appendices

Appendix A

GEO Advice Note for Planning Application

Appendix B

Ground Investigation Records

Appendix C

Groundwater Monitoring Record

Appendix D

Architectural Drawings

Appendix E

Schematic Design of Foundation and Site Formation Works

1 Introduction

1.1 Background

Ove Arup & Partners Hong Kong Limited (Arup) has been commissioned by the Patchway Holdings (HK) Limited (the Applicant) to submit an application to the Town Planning Board (TPB) under Section 16 of the Town Planning Ordinance (Cap. 131) in respect of Inland Lot No. 8945, Causeway Bay, Hong Kong.

This S16 Planning Application seeks for proposed minor relaxation of gross floor area (GFA) restrictions for a proposed commercial, social welfare facilities and cultural venue project.

1.2 Scope of this Report

In accordance with the “GEO Advice Note for Planning Applications” (GEO, 2007) (refer to **Appendix A**), a Geotechnical Planning Review Report is required in support of the Proposed Development, which is proposed for the commercial development, as the site falls into the following criteria:

- 1) where the maximum gradient across a site from boundary to boundary, or for a large site across any 50m long strip, is greater than 15°,
- 2) where a slope steeper than 30°, or retaining wall, or combination of the two with a height greater than 6 m exists on the site or within 6 m of the site, or
- 3) where there is ground outside the site but in the same catchment that is at an angular elevation of more than 20° from the site and there is ground sloping at more than 15° within 50m upslope of the site.

This Geotechnical Planning Review Report essentially comprises the following contents:

- 1) The appropriate portion of the published 1:5,000-scale topographical map or maps marked up to show the site boundary, the location of the features referred to in paragraph 1 above, and details of the Proposed Development including any site formation and foundation works;
- 2) a review of how the retaining walls and/or slopes, including natural terrain, shown on the plan may affect, or be affected by, the Proposed Developments and in relation to this, an assessment of geotechnical feasibility of the Proposed Development including an outline of any further studies that may be required; and
- 3) a list of data sources used in compiling the Report. Common data sources normally include the GEO’s Slope Information System, the Natural Terrain Landslide Inventory maps, the published 1: 20,000-scale geological maps and the relevant Geotechnical Area Studies Programme (GASP) Report.

2 List of Data Sources

The data sources of this report are list as follow:

- 1) Slope information from GEO's Slope Information System
- 2) Existing ground investigation record from Digital Geotechnical Information Unit (DGIU)
- 3) Published 1:20,000-scale Solid and Superficial Geological Map Sheet No. 6 (GEO, 1989)
- 4) Geotechnical Area Studies Programme (GASP) Report, GASP I: Hong Kong and Kowloon (GCO, 1987)
- 5) Lands Department 1: 1,000 and 1: 5,000 scale topographic maps

3 Site Description

3.1 The Site

The Site is located at urban area in Causeway Bay with two levels of ground of approximately +9.5mPD and +15.3mPD. Leighton Road is located to its northwest, Caroline Hill Road is located to its southwest and northeast, South China Athletic Association and a planned Judicial Complex for District Court is located to its southeast. Two old and valuable trees grow partly within the Site and tree preservation with appropriate protection measures shall be carried out under the lease. There are existing masonry walls and earthenware pipes located within the Site, conservation, preservation, maintenance and repair of the walls and pipes shall be carried out under the lease. The site location plan is shown in **Figure 3.1**.

3.2 Registered Man-made Features

There are altogether 7 existing registered geotechnical features within 50m away from the application site boundary. Geotechnical Features Nos. 11SW-B/FR190, 11SW-B/FR193, 11SW-B/FR32 and 11SW-B/R817 are located within/ partially within the application site. The locations of the existing geotechnical features are shown in **Figure 3.2**. The general information for these registered features are summarised as follows:

Registered Feature Number	Date of Formation	Maintenance Party	Distance from Site Boundary	Nature	Max. Height (m)	Length (m)	Average Slope/ Wall Face angle (degree)	Recent Upgrading Records
11SW-B/FR190	Pre-1977	IL 8945	Within the Site	Fill slope and retaining wall	1 (Slope Part) 3 (Wall Part)	40	20 (Slope Part) 85 (Wall Part)	N/A
11SW-B/FR193	Pre-1977	IL 8945	Within the Site	Fill slope and retaining wall	1 (Slope Part) 3.5 (Wall Part)	50	30 (Slope Part) 85 (Wall Part)	N/A
11SW-B/FR32	Pre-1977	IL 8945	Within the Site	Fill slope and retaining wall	5 (Slope Part) 4 (Wall Part)	85	35 (Slope Part) 85 (Wall Part)	N/A
11SW-B/R817	Pre-1977	IL 8945	Partially within the Site	Retaining wall	3	20	90	N/A

Registered Feature Number	Date of Formation	Maintenance Party	Distance from Site Boundary	Nature	Max. Height (m)	Length (m)	Average Slope/ Wall Face angle (degree)	Recent Upgrading Records
11SW-B/CR386	Pre-1977	IL9011	23m	Cut slope and retaining wall	1.5 (Slope Part) 1.5 (Wall Part)	40	35 (Slope Part) 90 (Wall Part)	N/A
11SW-B/C628	Pre-1977	IL9011	35m	Cut slope	3	65	35	N/A
11SW-B/CR263	Pre-1977	IL9011	35m	Cut slope and retaining wall	3.5 (Slope Part) 2.3 (Wall Part)	55 (Slope Part) 30.1 (Wall Part)	50 (Slope Part) 90 (Wall Part)	N/A
Unregistered Retaining Walls	N/A	N/A	3m	Retaining wall	<3m	113	90	N/A

3.3 Natural Terrain Hazard

There is no natural terrain identified in the vicinity of the Application Site.

4 Desk Study

4.1 Topography

The Application Site is located at the Caroline Hill where the Caroline Hill Road is along the southwestern and northeastern boundaries, and the Leighton Road is along the northwestern boundary of the Application Site. The 1:1,000 scale topographic maps indicate that the Application Site comprises two vacant platforms at +10 mPD and +15 mPD respectively, with all superstructures being demolished. The topography of the Application Site is present in **Figures 4.1 and 4.2**.

4.2 Geological Setting

All available geological information covering the Site, including geological map sheets at 1: 20,000 and 1: 100,000 scales published by the Hong Kong Geological Survey and the accompanying geological memoirs have been reviewed. Details of the geological information sources include the following:

- Fyfe, J.A., Shaw, R., Campbell, S.D.G., Lai, K.W. & Kirk, P.A. (2000). Quaternary Geology of Hong Kong. Hong Kong Geological Survey. 210p.
- Geotechnical Control Office (1987). GASP I - Geotechnical Area Studies Programme – Hong Kong and Kowloon. Geotechnical Control Office, Hong Kong. 170p.
- Geotechnical Engineering Office (2007). Engineering Practice in Hong Kong. Geotechnical Engineering Office, Hong Kong. 278p.
- Geotechnical Engineering Office (2012). Map HGM 20, Sheet 11 (2nd Edition) Hong Kong and Kowloon: Solid and Superficial Geology (1: 20,000 map). Geotechnical Engineering Office, Hong Kong. 1 map.
- Langford, R.L., Lai, K.W., Arthurton, R.S. and Shaw, R. (1989). Hong Kong Geological Survey Memoir No. 2: Geology of Hong Kong Island and Kowloon. Geotechnical Engineering Office, Hong Kong. 134p.
- Sewell, R.J., Campbell, S.D.G., Fletcher, C.J.N., Lai, K.W. & Kirk, P.A. (2000). The Pre-Quaternary Geology of Hong Kong. Hong Kong Geological Survey, Geotechnical Engineering Office, Hong Kong, 181p.

Based on the 1:20,000-scale Geological Map Sheet 11 Edition II (**Figures 4.3 and 4.4**), the Application Site is predominantly underlain by equigranular medium-grained biotite granite (Klk-gm) of Kowloon Granite. Alluvium (Qfa) of Fanling Formation, which comprises well sorted to semi-sorted grey to yellowish brown clay, silt, sand and gravel, is also present at the northern portion of the Application Site. Fill materials were not identified at the Application Site and its vicinity based on the published geological maps.

An NE-SW trending inferred fault was identified immediately to the west of the Application Site.

The Engineering Geology Map in the Geotechnical Area Study Programme (GASP) Report, namely GASP I: Hong Kong and Kowloon (GCO, 1987) (**Figure 4.5**) indicates that the Application Site is predominately overlain by alluvium deposits.

4.3 Site History

A preliminary Aerial Photograph Interpretation (API) has been conducted to review photos taken between 1963 and 2018 in order to determine the site history of the sites and their surroundings.

Prior to 1963, a platform had been formed at the northwestern portion of the Application Site, with the Post Office Club and the Cable & Wireless Sport Club found at the northern and southern portions of the platform respectively. Buildings had been constructed at the middle portion of the Application Site. Electrical & Mechanical Office was built at the eastern portion and immediately to the southeast of the Application Site. Caroline Hill Road had been formed to the southwest and along the northeastern boundary of the Application Site. Leighton Road had been formed along the northeastern portion of the Application Site, whereas Sports Ground and Stadium of the South China Athletic Association had been formed to the southeast of Application Site. The slope feature nos. 11SW-B/FR190, 11SW-B/FR193 and 11SW-B/FR32 had been formed along the northwestern boundary, along the northeastern boundary and along the eastern boundary respectively.

Between 1963 and 1973, structures at the middle portion of the Application Site were demolished and an elevated platform had been formed in that location. A structure had been built to the south of the Application Site. The slope feature no. 11SW-B/R817 had been formed at the southwestern portion of the Application Site.

Between 1973 and 1982, Civil Aid Service Headquarters had been built at the middle portion of the Application Site. Government Offices had been built in the northern portion of the Application Site.

Between 1982 and 1993, a podium had been formed across the eastern portion of the Application Site.

Between 1993 and 2003, the Government Offices at the northern portion of the Application Site had been reconstructed to be the Highway Department Hong Kong Region. Construction work was noted to the southeast of the Application Site.

Between 2003 and 2018, no significant changes were observed in the Application Site.

In 2021, the Application Site is vacant with all superstructures being demolished.

4.4 Ground Investigation Records

The existing boreholes with ground investigation records available from Digital Geotechnical Information Unit (DGIU). Plans showing the location of the existing ground investigation records and the proposed site-specific ground investigation are shown in **Figure 4.6** and **Figure 4.7** respectively. The relevant GI records are attached in **Appendix B**. The records showed that the materials encountered within the Application Site may include Fill, Alluvium, Completely to Highly Decomposed Granite (Grade V/IV material), Moderately to Slightly Decomposed Granite (Grade III/II material).

A general summary of the observed ground conditions from the site-specific GI and the existing GI records from the adjacent projects are presented in **Table 4.1** and **Table 4.2** respectively.

Table 4.1: Summary of geological conditions from the site-specific ground investigation records

Borehole No.	Ground Level (mPD)	Termination Level (mPD)	Top level of Strata below ground (mPD)			
			FILL	ALL	CD/ HD materials	MD/ SD materials
DH02	+9.81	-28.75	+9.81	+1.36	-3.29	-23.19
DH03	+9.55	-16.21	+9.55	-	+2.55	-10.51
DH04	+9.57	-30.32	+9.57	-	+6.57	-24.67
DH06	+11.28	-19.92	+11.28	+4.08	-5.92	-14.17
DH13 (S/P)	+6.83	-25.85	+6.83	-	+1.83	-20.46
DH14	+6.85	-27.16	+6.85	-	+3.85	-21.97
DH18	+11.09	-35.76	+11.09	-	+3.85	-30.48
DH23	+11.11	-30.21	+11.11	-	+6.11	-24.52

Table 4.2: Summary of geological conditions from the existing ground investigation records from the adjacent projects

Borehole No.	Ground Level (mPD)	Termination Level (mPD)	Top level of Strata below ground (mPD)			
			FILL	ALL	CD/ HD materials	MD/ SD materials
68444/BH1	+14.31	-18.97	+14.31	+3.41	+0.31	-13.65
68444/BH2	+14.45	-21.21	+14.45	+8.66	-1.35	-15.74
68444/BH3	+15.20	-25.81	+15.20	+4.30	-3.70	-20.25
68444/BH4	+15.38	-19.33	+15.38	+6.48	+2.48	-14.00
68444/BH7	+15.21	-28.56	+15.21	-	+6.31	-23.19
68444/BH8	+15.37	-24.47	+15.37	+8.27	+0.47	-19.19
68444/BH9	+15.19	-29.70	+15.19	+1.99	-4.01	-24.25
68444/BH12	+15.29	-31.69	+15.29	-	+0.39	-26.31

Borehole No.	Ground Level (mPD)	Termination Level (mPD)	Top level of Strata below ground (mPD)			
			FILL	ALL	CD/ HD materials	MD/ SD materials
68444/BH13	+15.39	-19.62	+15.39	-	+1.59	-14.46
68444/BH14	+15.37	-26.68	+15.37	+3.47	-0.53	-21.22
68444/BH15	+15.35	-29.43	+15.35	+2.95	+1.85	-24.35
68444/BH21	+15.43	-31.63	+15.43	-	+6.53	-26.34
68444/BH22	+15.41	-33.57	+15.41	-	+5.51	-28.37
68444/BH23	+15.43	-15.24	+15.43	-	+9.63	-9.90
68444/BH24	+15.40	-31.51	+15.40	+7.50	+1.00	-25.56
68444/BH25	+15.33	-37.59	+15.33	+4.43	-1.57	-31.69
68444/BH26	+15.28	-46.55	+15.28	+4.38	-0.38	-41.10
68444/BH27	+15.37	-45.75	+15.37	+8.47	+0.47	-40.35
68444/BH28	+15.43	-42.77	+15.43	-	+4.53	-37.55
68444/BH29	+15.43	-45.17	+15.43	-	+8.53	-39.79
68444/BH30	+15.44	-24.84	+15.44	-	+7.44	-19.81
68444/BH31	+15.44	-25.09	+15.44	-	+7.44	-20.00
68444/BH32	+15.41	-23.15	+15.41	-	+6.51	-18.05
68444/BH33	+15.29	-9.77	+15.29	-	+10.39	-4.77
68444/BH34	+15.37	-31.17	+15.37	+6.47	+5.37	-25.91
68444/BH35	+15.25	-40.45	+15.25	+4.35	-0.75	-34.96
68444/BH36	+15.22	-40.11	+15.22	+6.32	+0.32	-33.52
68444/BH37	+15.28	-42.36	+15.28	-	+4.38	-36.72
68444/BH38	+15.24	-44.16	+15.24	-	+6.34	-39.16
68444/BH39	+15.45	-46.81	+15.45	-	+6.55	-41.23
68444/BH40	+15.45	-51.13	+15.45	-	+9.45	-45.81
68444/BH41	+15.42	-6.17	+15.42	-	-9.32	-0.90
68444/BH42	+15.40	-6.22	+15.40	-	+12.50	-1.00
67763/BH5	+15.04	-34.15	+15.04	+2.04	-1.46	-28.70
67763/BH6	+15.12	-29.68	+15.12	-	+10.62	-24.50
67763/BH10	+15.07	-40.00	+15.07	+3.07	-2.93	-34.91
67763/BH11	+15.17	-29.48	+15.17	-	+4.67	-24.93
67763/BH16	+15.24	-39.41	+15.24	-	+2.74	-33.58
67763/BH17	+15.29	-38.03	+15.29	-	+4.79	-33.38
67763/BH18	+15.25	-36.78	+15.25	-	+6.75	-31.01
67763/BH19	+15.24	-25.46	+15.24	-	+11.24	-19.01
67763/BH20	+15.25	-37.55	+15.25	-	+9.75	-32.22

Site-specific ground investigation works have been conducted on the existing masonry walls (Feature Nos. 11SW-B/FR32, 11SW-B/FR190 and 11SW-B/FR193) to enable better understanding of the walls' geometry and composing materials. The proposed works comprise of trial pits behind masonry walls, inspection pits in front of wall toe and coreholes at selected locations at wall face. From the as-built ground investigation records, it was found that the walls

were made up with concrete and granite blocks. The relevant GI records are attached in **Appendix B**.

The strengthening proposal and any protection or mitigation measures for the Grade 3 Historic Structures would be further reviewed in the detailed design stage.

4.5 Measured Groundwater Table

The past groundwater monitoring records from the adjacent projects obtained from Slope Information System (SIS) are presented in **Appendix C** and are summarised in the **Table 4.3** below. The measured groundwater level from standpipes varies from +6.60 to +8.90mPD. In the ground investigation stage of the project, standpipes and piezometers will be installed for the use in monitoring the groundwater level within the site. These project-specific groundwater monitoring records will then be used to review the design groundwater level of the project in the detailed design stage.

Table 4.3: Summary of measured groundwater level

Monitoring Station No.	Ground Level (mPD)	Tip Level (mPD)	Measured Groundwater Level (mPD)		Date
			Lowest	Highest	
68445/BH4(S)	+15.38	-9.62	+6.72	+6.93	Oct 2020
68445/BH4(P)	+15.38	-12.62	+7.18	+7.27	Oct 2020
68445/BH15(S)	+15.35	-9.65	+7.08	+7.46	Oct 2020
68445/BH15(P)	+15.35	-23.15	+7.55	+7.79	Oct 2020
68445/BH22(S)	+15.41	-9.59	+8.70	+8.90	Aug to Sep 2020
68445/BH22(P)	+15.41	-27.17	+9.00	+9.11	Aug to Sep 2020
68445/BH25(S)	+15.33	-9.67	+8.27	+8.77	Oct 2020
68445/BH25(P)	+15.33	-31.17	+8.78	+9.01	Oct 2020
68445/BH28(S)	+15.43	-9.57	+7.53	+7.89	Sep 2020
68445/BH28(P)	+15.43	-36.57	+11.83	+12.07	Sep 2020
68445/BH30(S)	+15.44	-9.56	+6.60	+7.03	Sep 2020
68445/BH30(P)	+15.44	-18.56	+6.69	+6.92	Sep 2020
67763/BH10 (S)	+15.07	+2.57	+7.51	+7.55	Sep 2019
67763/BH10 (P)	+15.07	+0.07	+7.39	+7.45	Sep 2019

5 Envisaged Geotechnical Works

5.1 Proposed Development

The Application site is zoned “Commercial (2)” on the approved Wong Nai Chung OZP No. S/H7/21, covered the entire ‘C(2)’ zone and has an area of about 14,802m². The proposed Project consists of three commercial towers with five levels of basements including lay-bys for light buses at B1/F, public and private vehicle park at B2 to B5, and 24 storeys at Towers 1 and 2 and 18 storeys at Tower 3. The proposed Project under the Layout Plan will yield a total of 102,000m² accountable GFA and the maximum building height of the proposed building is approximately 135mPD. Relevant drawings are given in Appendix D for reference.

The envisaged geotechnical works for the proposed structure, including foundation, excavation, pile caps and basement construction. The following sections discuss the envisaged design and feasibility of such geotechnical works.

5.2 Envisaged Foundation Works

The foundation for the proposed development shall be in the form of deep foundation in view of the dead loads of high-rise buildings, ground water uplift of deep basement and the available competent grade III or better rock condition. From the available preliminary GI information, the competent rock was found at reasonable depth for the construction of piled foundation.

Deep foundation such as bored piles, will be considered for supporting the tower structures where loading is heavy. Deep foundation such as rock-socketed H-piles, will be considered for supporting the podium and basement footprint, where the resistance to groundwater uplift is more critical. The future foundation design will strictly follow the foundation design requirements as stipulated in Code of Practice for Foundations 2017.

5.3 Envisaged Excavation Works

Based on the General Buildings Plan, the proposed development is to construct maximum 5 levels of basement with planned final excavation level of -18.0mPD, which requires excavation with depth ranges from 28m to 33m.

To facilitate the construction of pile caps and basement, a temporary lateral support system, such as sheet pile wall or pipe pile wall supported by struts (with appropriate preloading), will be proposed to be installed around the footprint of the basement structure. Grout curtain will also be proposed to provide adequate water cut-off performance. The proposed ELS system will be designed to limit the ground movement to the acceptable limits. Both top-down and bottom-up construction methods are considered feasible for the project and the project team will adopt a suitable construction method to suit with the proposed project development in the detailed design stage.

The envisaged excavation scheme is shown in Appendix E.

5.4 Envisaged Site Formation Works

Site formation submission may be required subject to any existing features within the site found require upgrading works in the detailed design stage.

6 Impact of Proposed Development to Adjacent Existing Man-made Features

Modification works may be provided to the Feature No. 11SW-B/FR32 to suit with the project development.

Feature No. 11SW-B/R817 is planned to be demolished as part of the feature boundary has fallen into the building footprint. As the other part of the feature boundary was located outside the Site boundary, the project team will communicate with the relevant government authorities and to go through the normal procedures/submission process required, if any, before the demolition of the part of the feature that is located outside the site boundary.

Although Feature Nos. 11SW-B/FR190, 11SW-B/FR193 and 11SW-B/FR32 are located within the Site boundary, appropriate excavation and lateral support (ELS) system will be designed to minimise the ground movements to an allowable extent and to maintain the stability of the features during excavation. Moreover, a setback distance of the temporary pile walls from the existing features will be provided in order to minimize any possible disturbance to the features due to the proposed construction works. Stability of these 3 geotechnical features which may affect or be affected by the proposed works will be checked and reviewed in the detailed design stage. If necessary, upgrading works will be proposed to fulfil the statutory requirements.

Other features, comprising Feature Nos. 11SW-B/CR386, 11SW-B/C628 and 11SW-B/CR263 are located far away from the Site (i.e. 23m, 35m and 35m respectively) and thus the effect to the features caused by the proposed works may be negligible. The effect of the proposed works to these 3 geotechnical features will be reviewed in the detailed design stage. It is noted that part of the unregistered retaining wall located outside the site boundary which runs along the Caroline Hill Road and Leighton Road are proposed to be removed for the road widening for Leighton road subject to the approval by relevant authorities. The effect of the proposed works to the aforesaid unregistered retaining walls before its removal will be reviewed in the detailed design stage.

7 Conclusion

A geotechnical planning review has been conducted for the proposed Application Site at Inland Lot No.8945 that may affect, or be affected by, man-made slopes or retaining wall features in accordance to “GEO Advice Note for Planning Applications” (GEO, 2007) in support of the Proposed Amendment under Section 16 of the Town Planning Ordinance (Cap. 131).

This geotechnical planning review illustrates the technical feasibility of the possible foundation and site formation schemes for the proposed development given the site geology and the presence of existing geotechnical features.

Modification works may be provided to the Feature No. 11SW-B/FR32 to suit with the project development.

Feature No. 11SW-B/R817 is planned to be demolished as part of the feature boundary has fallen into the building footprint. As the other part of the feature boundary was located outside the Site boundary, the project team will communicate with the relevant government authorities and to go through the normal procedures/submission process required, if any, before the demolition of the part of the feature that is located outside the site boundary.

Although Feature Nos. 11SW-B/FR190, 11SW-B/FR193 and 11SW-B/FR32 are located within the Site boundary, appropriate excavation and lateral support (ELS) system will be designed to minimise the ground movements to an allowable extent and to maintain the stability of the features during excavation. Moreover, a setback distance of the temporary pile walls from the existing features will be provided in order to minimize any possible disturbance to the features due to the proposed construction works. Stability of these 3 geotechnical features which may affect or be affected by the proposed works will be checked and reviewed in the detailed design stage. If necessary, upgrading works will be proposed to fulfil the statutory requirements.

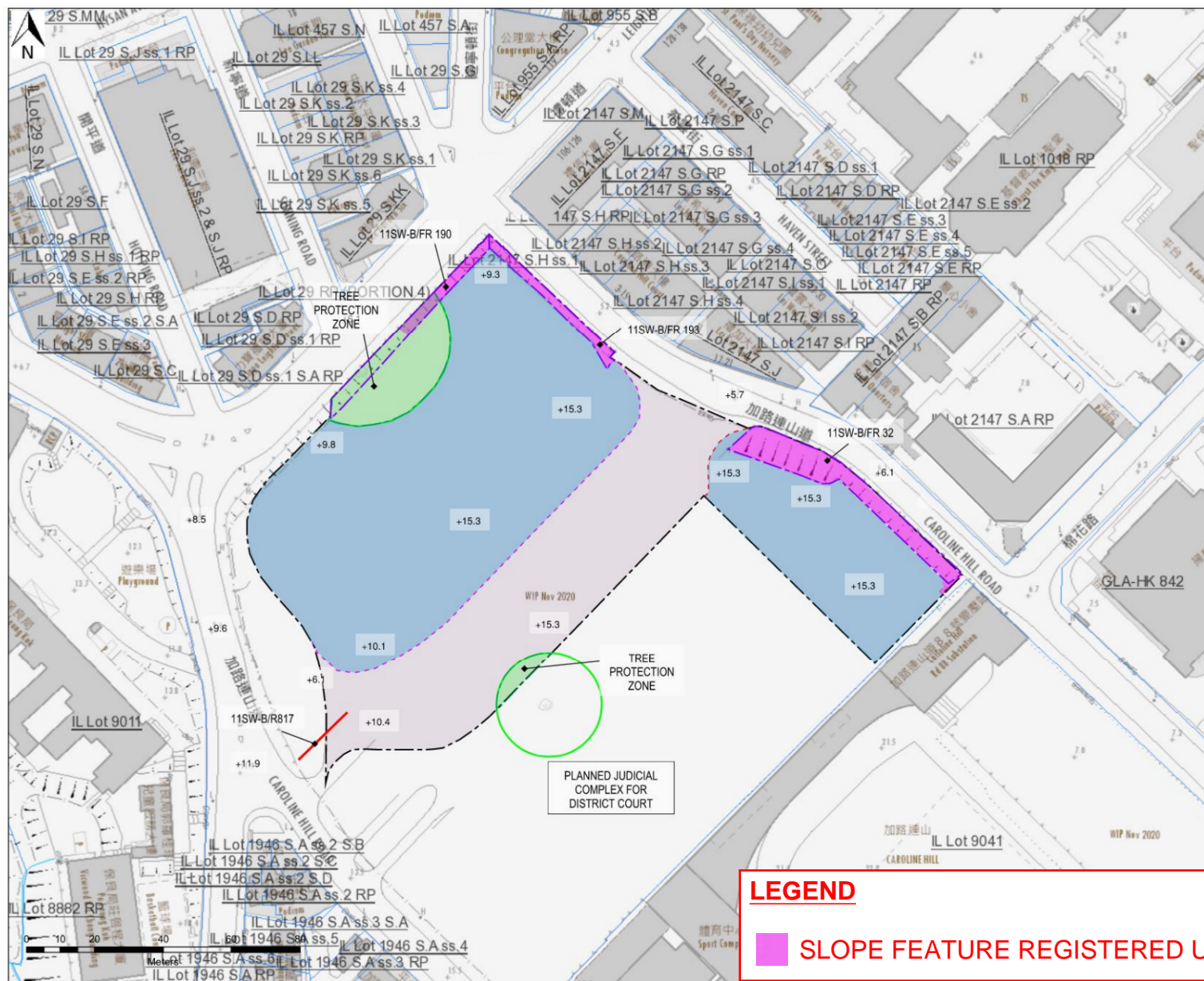
Other features, comprising Feature Nos. 11SW-B/CR386, 11SW-B/C628 and 11SW-B/CR263 are located far away from the Site (i.e. 23m, 35m and 35m respectively) and thus the effect to the features caused by the proposed works may be negligible. The effect of the proposed works to these 3 geotechnical features will be reviewed in the detailed design stage. It is noted that part of the unregistered retaining wall located outside the site boundary which runs along the Caroline Hill Road and Leighton Road are proposed to be removed for the road widening for Leighton road subject to the approval by relevant authorities. The effect of the proposed works to the aforesaid unregistered retaining walls before its removal will be reviewed in the detailed design stage.

Large diameter bored piles and a combination of large diameter bored piles and socketed steel H-piles are both considered as the feasible foundation schemes for the proposed development. The proposed podium structure will be founded on structures with piles founded on Category 1(c) rock.

Sheet pile wall or pipe pile wall with multi-layers of temporary struts (applying pre-loading if necessary) are considered as the feasible ELS scheme to facilitate the basement excavation.

Based on the available information, the proposed development is considered geotechnically feasible. Further recommendation of the stability assessment of the adjacent features and the detailed design of the foundation and site formation scheme are to be submitted at a later stage upon approval of the Proposed Amendment.

Figure



Job Title

**Proposed Commercial Development on
Inland Lot No.8945, Causeway Bay, Hong
Kong**

Drawing Title

Site Location Plan

ARUP

Ove Arup & Partners
Hong Kong Limited

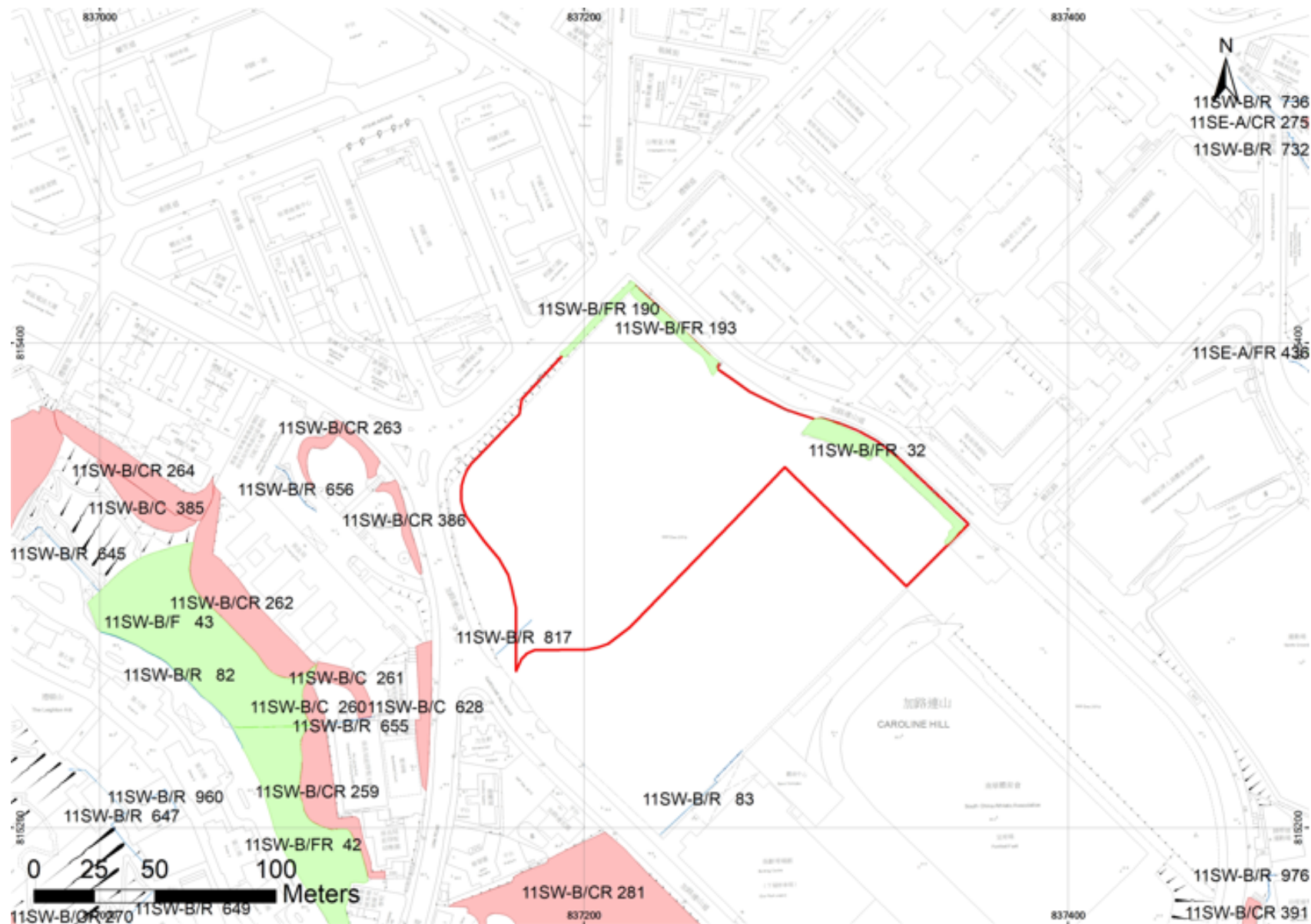
Scale As shown

Drawn MS Date 11/2021 Checked KM Approved JY

Job No. OC1373

Figure No. 1

Rev.



Job Title

**Proposed Commercial Development on
Inland Lot No.8945, Causeway Bay, Hong
Kong**

Drawing Title

Location of Existing Geotechnical Features

ARUP

Ove Arup & Partners
Hong Kong Limited

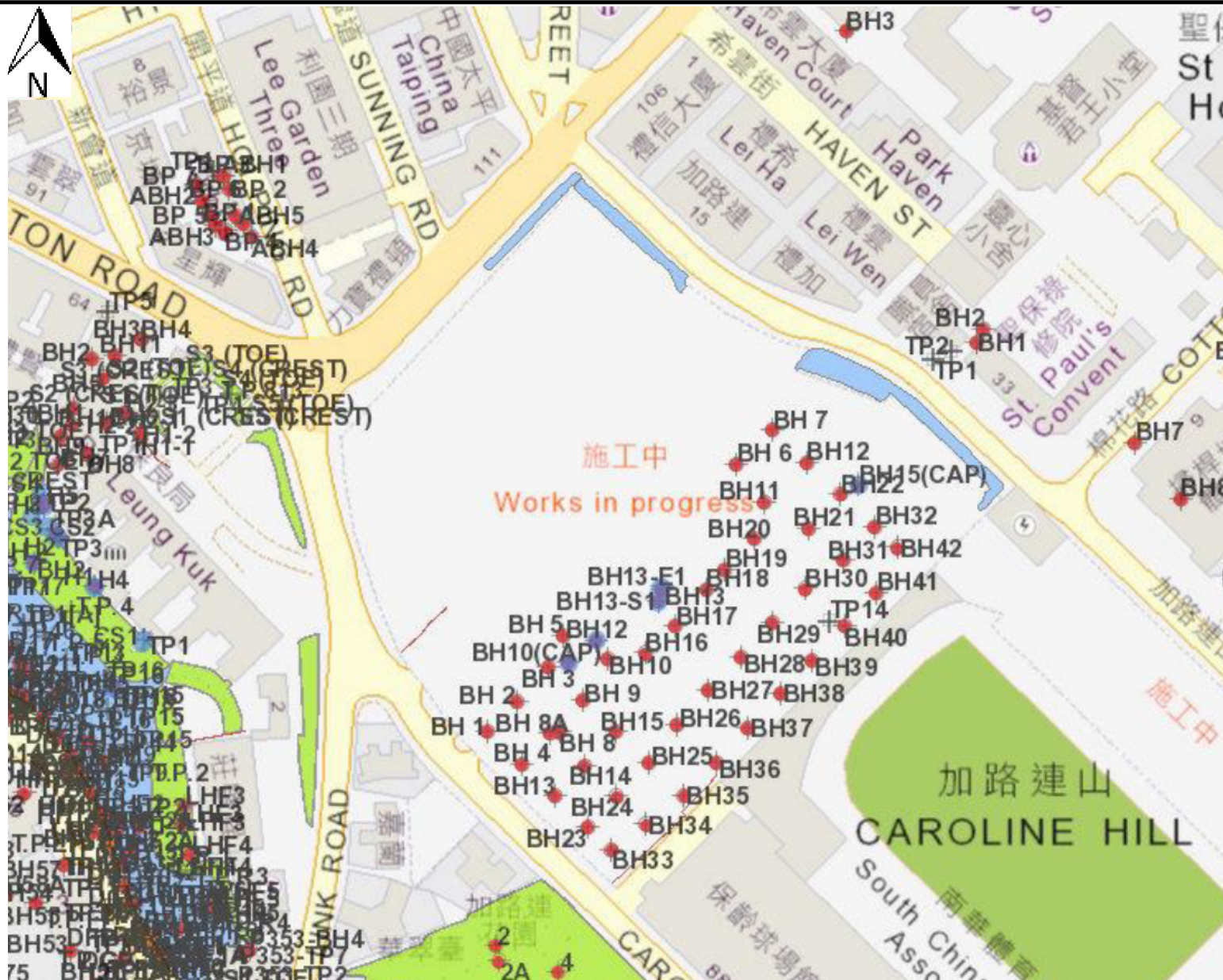
Scale As shown

Drawn MS Date 11/2021 Checked KM Approved JY

Job No. OC1373

Figure No. 2

Rev.



Job Title

**Proposed Commercial Development on
Inland Lot No.8945, Causeway Bay, Hong
Kong**

Drawing Title

Location of Existing Ground Investigation Records

ARUP

Ove Arup & Partners
Hong Kong Limited

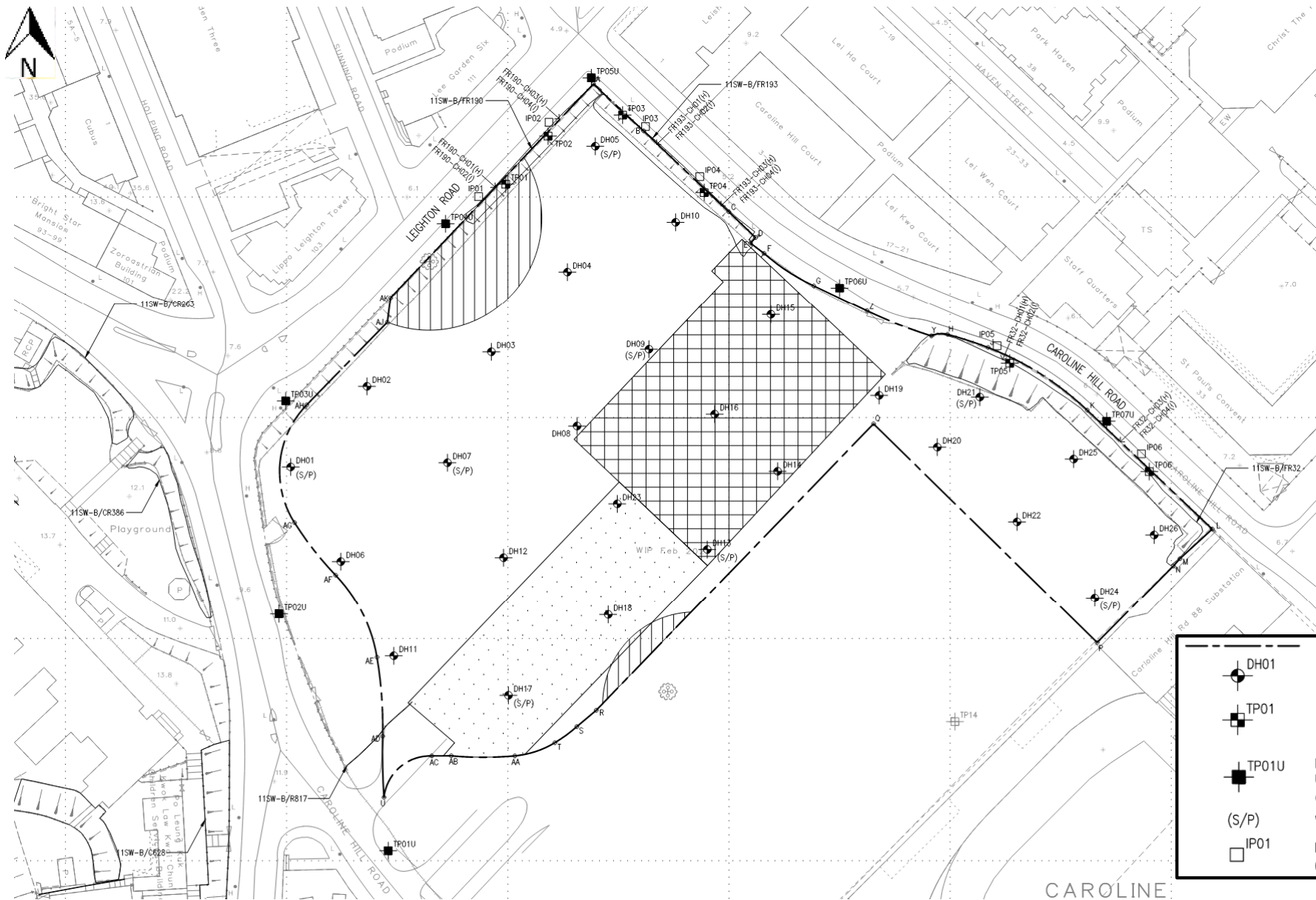
Scale As shown

Drawn MS Date 11/2021 Checked KM Approved JY

Job No. OC1373

Figure No. 3

Rev.



	SITE BOUNDARY
	PROPOSED VERTICAL DRILLHOLE (DH01 – DH26)
	PROPOSED TRIAL PIT FOR GROUND INVESTIGATION (TP01–TP06)
	PROPOSED TRIAL PIT FOR UNDERGROUND UTILITIES DETECTION (TP01U – TP07U)
(S/P)	WITH STANDPIPE / PIEZOMETER
	PROPOSED INSPECTION PIT (IP01–IP06)

Job Title

**Proposed Commercial Development on
Inland Lot No.8945, Causeway Bay, Hong
Kong**

Drawing Title

Proposed Site-Specific Ground Investigation Plan

ARUP Ove Arup & Partners
Hong Kong Limited

Scale As shown

Drawn MS Date 11/2021 Checked KM Approved JY

Job No. OC1373

Figure No. 4

Rev.

Appendix A

GEO Advice Note for Planning Application

**GEO ADVICE NOTE FOR PLANNING APPLICATIONS
UNDER TOWN PLANNING ORDINANCE (CAP. 131)**

**Requirements for a Geotechnical Planning Review Report
in support of planning applications**

1. For developments that may affect, or be affected by, natural terrain or man-made slopes or retaining walls, applicants should submit a Geotechnical Planning Review Report with their planning application. In general, a Geotechnical Planning Review Report will be required if any of the following criteria apply :-

- (i) where the maximum gradient across a site from boundary to boundary, or for a large site across any 50m long strip, is greater than 15°,
- (ii) where a slope steeper than 30°, or retaining wall, or combination of the two with a height greater than 6m exists on the site or within 6m of the site, or
- (iii) where there is ground outside the site but in the same catchment that is at an angular elevation of more than 20° from the site and there is ground sloping at more than 15° within 50m upslope of the site.

2. The essential contents of a Geotechnical Planning Review Report are :-

- (i) The appropriate portion of the published 1:5000-scale topographical map or maps marked up to show the site boundary, the location of the features referred to in paragraph 1 above, and details of the proposed development including any site formation and the layout of any structures,
- (ii) a review of how the retaining walls and/or slopes, including natural terrain, shown on the plan may affect, or be affected by, the proposed development and in relation to this, an assessment of the geotechnical feasibility of the proposed development including an outline of any further studies that may be required, and
- (iii) a list of data sources used in compiling the Report. Common data sources normally include the GEO's Slope Information System, the Natural Terrain Landslide Inventory maps, the published 1:20,000-scale geological maps and the relevant Geotechnical Area Studies Programme (GASP) Report, all of which are available in the Civil Engineering Library which is situated within the Civil Engineering and Development Building.

3. Applications will not normally be accepted if there is very steeply sloping ground next to the site. For guidance, this should be taken as ground outside the site which is at an angular elevation of greater than 35° from the site and which is also more than 50m higher than the site. Sites subject to major past instability will also not generally be accepted for development.

4. Further information can be obtained from the Geotechnical Engineering Office, Civil Engineering and Development Building, 101 Princess Margaret Road, Homantin, Kowloon, fax 2714 0247.

Appendix B

Ground Investigation Records

Project-Specific Ground Investigation Records

Drillholes



DRILLHOLE RECORD

HOLE No.

DH02

SHEET 1 of 4

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 005

E
N

DATE from 29/10/2021 to 02/11/2021

FLUSHING MEDIUM WATER

ORIENTATION **Vertical**

GROUND LEVEL +9.81 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
29/10/2021	SX	0.00m at 08:00							No. Type Depth		0.00			
									A • 0.45 0.50					Brown, spotted grey, fine to coarse SAND with some subangular fine to coarse gravel sized rock and concrete fragments. (FILL) 0.00 - 1.00m: With some rootlets.
									B • 0.95 1.00		1.00			
									C • 1.45 1.50					
									D • 1.95 2.00		2.00			
								1.1 1.2,1.1 N=5	1 • 2.40 2.45					Loose, brown, fine to coarse SAND with some subangular fine to medium gravel sized rock fragments. (FILL)
				0							3.00			Brown, fine to coarse SAND. (FILL)
				25					2 • 4.00 4.10		4.10			
				100				31 bls	3 • 4.30		4.30			Orangish brown, COBBLE sized rock fragments. (FILL)
								1.1 1.2,2.3 N=8	4 • 4.70 4.75					Brown, fine to coarse SAND. (FILL)
									5 • 5.15 5.20					
	SX 6.00 PX	1.72m at 18:00		90					T 146		6.00			Brownish pink, COBBLE and BOULDER with occasional subangular coarse gravel sized rock fragments. (FILL)
29/10/2021 30/10/2021		5.42m at 08:00		55					T 146		6.30			
				0							6.90			Brown, slightly silty fine to coarse SAND. (FILL)
									6 • 7.90 8.00		8.00			Greyish brown, slightly silty fine to coarse SAND. (FILL)
				100					7 • 8.40 8.45		8.45			Medium dense, dark grey, very silty fine to coarse SAND with some decayed wood fragments and organic matter. (ALLUVIUM?)
								2.2 3,2,5,3 N=13	8 • 8.85 8.90					
									9 • 8.85 8.90					
									10 • 8.85 8.90					
											10.00			

REMARKS

1. Inspection pit was dug to 2.00m depth.
2. Falling head permeability test was carried out at 10.50-12.00m depth.

LOGGED **M H CHIU**
DATE **03/11/2021**
CHECKED **K M LO**
DATE **04/11/2021**

PRELIMINARY

t:\gintw\library\library ags 3.0 (01 dec 2019).glb\3110 geo drillhole (march 2014)

PRELIMINARY



DRILLHOLE RECORD

HOLE No.

DH02

SHEET 3 of 4

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 005

E
N

DATE from 29/10/2021 to 02/11/2021

FLUSHING MEDIUM WATER

ORIENTATION **Vertical**

GROUND LEVEL mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
30/10/2021 01/11/2021		0.92m at 18:00 5.27m at 08:00		100				10,19 25,31,39,62 N=157	29 30 31 32 33 34 35		20.00		V	As sheet 2 of 4.
				88				20,25 80,120/75mm 200bls/150mm	36 37 38 39		25.10		V	Extremely weak, orangish brown, spotted light grey and white, completely decomposed GRANITE. (Slightly silty fine to coarse SAND with much subangular fine gravel sized rock fragments)
				64	63	63	4.0	50/35mm 200/65mm 200bls/65mm	40 41		28.60		III	Moderately strong, orangish brown, spotted light grey, black and white, moderately decomposed medium grained GRANITE. Joint is medium spaced, rough undulating, narrow, iron stained, dipping 0°-10°.
				84			N.R.	50/30mm 200/70mm 200bls/70mm			28.85 29.00		V	28.85 - 29.00m: No recovery. Inferred as completely decomposed GRANITE. Very weak, orangish brown, spotted light grey

t:\gintw\library\library ags 3.0 (01 dec 2019).glb\3110 geo drillhole (march 2014)

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample (76/100mm)
- Standard penetration test
- Vibrocure sample
- Water sample
- Piezometer / Standpipe tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED **M H CHIU**
DATE **03/11/2021**
CHECKED **K M LO**
DATE **04/11/2021**

REMARKS

PRELIMINARY



DRILLHOLE RECORD

HOLE No.

DH02

SHEET 4 of 4

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 005

E
N

DATE from 29/10/2021 to 02/11/2021

FLUSHING MEDIUM WATER

ORIENTATION **Vertical**

GROUND LEVEL mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
									No. Type Depth					
								↓ 50/35mm 200/65mm 200bls/65mm	42 • 30.00 43 • 30.10 30.15 30.20		30.00		V	and white, completely decomposed GRANITE. (Subangular fine to coarse GRAVEL sized rock fragments in sandy matrix)
								↓ 50/25mm 200/55mm 200bls/55mm	44 • 32.10 32.13 32.18		32.10		IV	Weak, orangish brown, spotted light grey and white, highly decomposed GRANITE. (Subangular fine to coarse GRAVEL sized rock fragments)
	HX 33.00			100	90	86	7.7		↑ 33.00		33.00		II	Strong, pinkish grey, spotted black and white, slightly decomposed, medium grained GRANITE. Joints are widely to medium, locally closely to very closely spaced, rough and smooth planar, extremely narrow, dipping 0°-10°, 20°-30°, 40°-50° and 60°-70°.
				100	100	100	1.8		↑ 34.20					
				100	99	94	0.7		↑ 35.69					
				100	100	100			↑ 37.19					
									↑ 38.56					
														End of hole at 38.56m depth.

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample (76/100mm)
- Standard penetration test
- Vibrocore sample
- Water sample
- Piezometer / Standpipe tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED **M H CHIU**
DATE **03/11/2021**
CHECKED **K M LO**
DATE **04/11/2021**

REMARKS

PRELIMINARY

PRELIMINARY



DRILLHOLE RECORD

HOLE No.

DH04

SHEET 3 of 4

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 4-1485

E

N

DATE from 01/11/2021 to 03/11/2021

FLUSHING MEDIUM WATER

ORIENTATION

Vertical

GROUND LEVEL

mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
								3,4 6,6,7,8 N=27	No. 37 Type Depth 20.00 20.10		20.00		V	As sheet 2 of 4.
									38 • 20.50 20.55					
								3,5 7,7,9,11 N=34	39 • 22.10					
									40 • 22.50 22.55					
									41 • 23.00		23.00		IV	Weak, orangish brown, spotted black and white, highly decomposed GRANITE. (Subangular fine to coarse GRAVEL sized rock fragments)
									42 • 24.00		24.10		IV	Weak, orangish brown, spotted black and white, highly decomposed GRANITE. (Subangular fine to coarse GRAVEL sized rock fragments)
									43 • 24.16 24.21		24.51		III	Weak, orangish brown, spotted black and white, highly decomposed GRANITE. (Subangular fine to coarse GRAVEL sized rock fragments in sandy matrix)
									44 • 25.76		26.74		IV	Weak, brownish pink, spotted black and white, highly decomposed GRANITE. (Subangular fine to coarse GRAVEL with occasional cobble sized rock fragments)
									45 • 28.00		28.10			
									46 • 29.10 29.20 29.23 29.28		30.00			

t:\gintw\library\library ags 3.0 (01 dec 2019).glb\3110 geo drillhole (march 2014)

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample (76/100mm)
- Standard penetration test
- Vibrocore sample
- Water sample
- Piezometer / Standpipe tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED **M H CHIU**
DATE **04/11/2021**
CHECKED **K M LO**
DATE **05/11/2021**

REMARKS

PRELIMINARY



DRILLHOLE RECORD

HOLE No.

DH04

SHEET 4 of 4

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 4-1485

E
N

DATE from 01/11/2021 to 03/11/2021

FLUSHING MEDIUM WATER

ORIENTATION **Vertical**

GROUND LEVEL mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
											30.00			As sheet 3 of 4.
				0					47 • 33.20 31.22 31.27					
				0					48 32.10 33.10 33.20					
									49 34.14 34.24		34.24			
	HX 34.24			100	98	93	12.5 >20 1.2		T2101				II	Strong, greyish pink, spotted light grey, black and white, slightly decomposed medium grained GRANITE. Joints are widely, locally medium to very closely spaced, smooth planar, extremely narrow, clean, dipping 10°-20°, 20°-30° and 50°-60°.
				100	100	100			T2101					
		5.10m at 18:00		100	100	100			T2101					
		4.85m at 08:00		100	100	100			T2101					
				100	100	100			T2101					
		18:00					5.0 1.0		T2101					
											39.80 39.89			End of hole at 39.89m depth.

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample (76/100mm)
- Standard penetration test
- Vibrocure sample
- Water sample
- Piezometer / Standpipe tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED **M H CHIU**
DATE **04/11/2021**
CHECKED **K M LO**
DATE **05/11/2021**

REMARKS

PRELIMINARY



DRILLHOLE RECORD

HOLE No.

DH06

SHEET 1 of 4

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 005

E
N

DATE from 25/10/2021 to 27/10/2021

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +11.28 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
25/10/2021	SX	08:00							No. Type Depth		0.00			
									A • 0.45		0.15			Pinkish brown and grey, subangular fine to coarse GRAVEL and COBBLE sized rock and concrete fragments in sandy matrix. (FILL)
									B • 0.95		0.95			Pinkish brown, spotted grey, fine to coarse SAND with some subangular fine to medium gravel sized rock and concrete fragments. (FILL)
									C • 1.45		1.45			
									D • 1.95		1.95			
									1 2.00		2.00			Loose, orangish pink, slightly silty fine to coarse SAND with some subangular fine gravel sized rock fragments. (FILL)
									2 • 2.40		2.40			
											3.00			Orangish pink, slightly silty fine to coarse SAND with occasional subangular fine to coarse GRAVEL sized rock fragments. (FILL)
									3 • 4.00		4.00			
									4 • 4.10		4.10			Firm, greyish brown, sandy SILT with some subangular fine gravel sized rock fragments. (FILL)
									5 • 5.10		5.10			
									6 • 5.20		5.20			
									7 • 5.60		5.60			
									8 • 6.10		6.10			
									9 • 7.10		7.10			
									10 • 7.20		7.20			Dense, grey, silty fine to coarse SAND. (ALLUVIUM)
									11 • 8.20		8.20			
									12 • 8.30		8.30			
									13 • 8.70		8.70			
									14 • 9.20		9.20			Dense, grey, dappled orangish brown, very silty fine to coarse SAND with occasional subangular fine gravel sized rock fragments. (ALLUVIUM)
											10.00			

t:\gintw\library\library ags 3.0 (01 dec 2019).glb\3110 geo drillhole (march 2014).l

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample (76/100mm)
- Standard penetration test
- Vibrocore sample
- Water sample
- Piezometer / Standpipe tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED **M H CHIU**
DATE **28/10/2021**
CHECKED **K M LO**
DATE **29/10/2021**

REMARKS

1. Inspection pit was dug to 2.00m depth.

PRELIMINARY



DRILLHOLE RECORD

HOLE No.

DH06

SHEET 2 of 4

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 005

E
N

DATE from 25/10/2021 to 27/10/2021

FLUSHING MEDIUM WATER

ORIENTATION **Vertical**

GROUND LEVEL mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
				100					No. Type Depth		10.00			As sheet 1 of 4.
		0.92m at 18:00						3,4 7,7,11,15 N=40	15 10.20 16 10.30					
		7.42m at 08:00		98					17 10.70 18 11.20		11.20			Dense, light brown, slightly silty fine to coarse SAND. (ALLUVIUM)
								4,4 10,10,11,17 N=48	19 12.20 20 12.30					
				100					21 12.70 22 13.20		13.20			Very dense, light yellowish grey, spotted light brown and orangish brown, angular fine to coarse SAND with some subangular fine gravel sized rock fragments. (ALLUVIUM)
								4,5 6,12,13,20 N=51	23 14.20 24 14.30					
				100					25 14.70 26 15.20		15.20			Pinkish brown, silty fine to coarse SAND with some subangular fine gravel sized rock fragments. (ALLUVIUM)
								3,3 9,12,16,16 N=53	27 16.20 28 16.30		16.30			Very dense, light brown, fine to coarse SAND. (ALLUVIUM)
				100					29 16.70 30 17.20		17.20			Extremely weak, dark orangish brown and orangish pink, spotted white, completely decomposed GRANITE. (Silty fine to coarse SAND with some subangular fine gravel sized rock fragments)
								4,6 10,12,11,19 N=52	31 18.20 32 18.30					
				100					33 18.70 34 19.20		20.00			
<p> Small disturbed sample SPT liner sample U76 undisturbed sample U100 undisturbed sample Mazier sample Piston sample (76/100mm) Standard penetration test Vibrocure sample </p> <p> Water sample Piezometer / Standpipe tip Permeability test Packer (Water Absorption) test Impression packer test Acoustic Televiwer Survey Test In-situ vane shear test Pressuremeter Test </p>										<p>LOGGED M H CHIU</p> <p>DATE 28/10/2021</p> <p>CHECKED K M LO</p> <p>DATE 29/10/2021</p>				
										REMARKS				
										PRELIMINARY				

t:\gintw\library\library ags 3.0 (01 dec 2019).glb\3110 geo drillhole (march 2014).l



DRILLHOLE RECORD

HOLE No.
DH13(S/P)

SHEET 2 of 4

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 20-134

E
N

DATE from 26/10/2021 to 29/10/2021

FLUSHING MEDIUM WATER

ORIENTATION **Vertical**

GROUND LEVEL mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
									No. Type Depth					
								3,3 14,16,17,18 N=65	16 10.00 17 10.10 18 10.50 10.55		10.00		V	As sheet 1 of 4.
				100					19 11.00					
								18,19 19,21,37,38 N=115	20 12.00 21 12.10 22 12.50 12.55		12.10		V	Extremely weak, orangish brown, spotted light grey, black and white, completely decomposed GRANITE. (Silty fine to coarse SAND with some subangular fine to coarse gravel sized rock fragments)
				100					23 13.00					
		1.50m at 18:00						4,11 25,52,65,58/65mm 200bls/290mm	24 14.00 25 14.10 26 14.49 14.54					
26/10/2021 27/10/2021		1.35m at 08:00		90					27 15.00					
								8,16 28,58,69,45/45mm 200bls/270mm	28 16.00 29 16.10 30 16.47 16.52					
				100					31 17.00					
								9,20 30,60,82,28/15mm 200bls/240mm	32 18.00 33 18.10 34 18.44 18.49					
				90					35 19.00					
	PX 20.00										20.00			
<div><div><div>●</div> Small disturbed sample</div><div><div>▮</div> SPT liner sample</div><div><div>▨</div> U76 undisturbed sample</div><div><div>■</div> U100 undisturbed sample</div><div><div>▩</div> Mazier sample</div><div><div>▧</div> Piston sample (76/100mm)</div><div><div>↓</div> Standard penetration test</div><div><div>▩</div> Vibrocore sample</div></div> <div><div>▲</div> Water sample</div> <div><div>⬮</div> Piezometer / Standpipe tip</div> <div><div>⬮</div> Permeability test</div> <div><div>⬮</div> Packer (Water Absorption) test</div> <div><div>⬮</div> Impression packer test</div> <div><div>⬮</div> Acoustic Televiwer Survey Test</div> <div><div>∇</div> In-situ vane shear test</div> <div><div>⬮</div> Pressuremeter Test</div> <div>LOGGED M H CHIU</div> <div>DATE 30/10/2021</div> <div>CHECKED K M LO</div> <div>DATE 01/11/2021</div>									REMARKS					
PRELIMINARY														



DRILLHOLE RECORD

HOLE No.
DH13(S/P)

SHEET **4** of **4**

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 20-134

E
N

DATE from 26/10/2021 to 29/10/2021

FLUSHING MEDIUM WATER

ORIENTATION **Vertical**

GROUND LEVEL mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
29/10/2021		1.35m at 08:00		100	99	95	1.20 0.4				30.00 30.15	+	II	As sheet 3 of 4. 30.15m: Fine grained GRANITE (70mm thick).
				100	100	100			T2101 31.33 T2101			+		
29/10/2021		1.40m at 18:00									32.68	+		End of hole at 32.68m depth.

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample (76/100mm)
- Standard penetration test
- Vibrocore sample
- Water sample
- Piezometer / Standpipe tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED **M H CHIU**
DATE **30/10/2021**
CHECKED **K M LO**
DATE **01/11/2021**

REMARKS

PRELIMINARY

PRELIMINARY



DRILLHOLE RECORD

HOLE No.

DH14

SHEET 3 of 4

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 20-134

E
N

DATE from 01/11/2021 to 04/11/2021

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description	
								13.28 33.52, 67.48/25mm 200bls/250mm	No. 36 Type Depth 37 20.00 20.10 38 20.45 20.50		20.00	V	As sheet 2 of 4.		
				0					21.00		21.00		V	Extremely weak, orangish brown, spotted light grey and white, completely decomposed GRANITE. (Fine to coarse SAND)	
				0					39 22.00 22.10		22.10		V	Extremely weak, orangish brown, spotted grey and white, completely decomposed GRANITE. (Slightly silty fine to coarse SAND with some subangular fine gravel sized rock fragments)	
								97.3/3mm 200/52mm 200bls/52mm	40 23.10 41 23.20 23.28 23.33		23.20		IV	Weak, orangish brown, spotted light grey and white, highly decomposed GRANITE. (Subangular fine to coarse GRAVEL sized rock fragments in sandy matrix)	
02/11/2021 03/11/2021		1.55m at 18:00 1.60m at 08:00						50/20mm 200/40mm 200bls/40mm	42 25.20 25.21 25.26		26.10		IV	Weak, orangish brown, spotted light grey and white, highly decomposed GRANITE. (Subangular fine to coarse GRAVEL and COBBLE sized rock fragments in sandy matrix)	
				0					43 27.10 27.20		28.30		IV	Weak, orangish brown, spotted light grey and white, highly decomposed GRANITE. (Subangular fine to coarse GRAVEL sized rock fragments in sandy matrix)	
				0					44 28.20 28.30 28.32		28.82		II	Weak, orangish brown, spotted light grey and white, highly decomposed GRANITE. (Subangular fine to coarse GRAVEL sized rock fragments in sandy matrix)	
	HX 28.82			100	98	80	2.2	50/5mm 200/15mm 200bls/15mm	28.82		29.55			Strong, pink, spotted light grey, black and white, slightly decomposed medium to coarse grained GRANITE. Joints are very widely to widely, locally medium to very closely spaced, rough planar, extremely to very narrow, iron stained, dipping 0°-10° and 80°-90°.	
<div><div><div>● Small disturbed sample</div><div>▮ SPT liner sample</div><div>▨ U76 undisturbed sample</div><div>▩ U100 undisturbed sample</div><div>▧ Mazier sample</div><div>▦ Piston sample (76/100mm)</div><div>↓ Standard penetration test</div><div>▩ Vibrocure sample</div></div><div><div>▲ Water sample</div><div>▮ Piezometer / Standpipe tip</div><div>⬆ Permeability test</div><div>⬆ Packer (Water Absorption) test</div><div>⬆ Impression packer test</div><div>⬆ Acoustic Televiwer Survey Test</div><div>∇ In-situ vane shear test</div><div>⬆ Pressuremeter Test</div></div></div>									<div>LOGGED M H CHIU</div> <div>DATE 05/11/2021</div> <div>CHECKED K M LO</div> <div>DATE 06/11/2021</div>					REMARKS	
PRELIMINARY															

PRELIMINARY



DRILLHOLE RECORD

HOLE No.

DH18

SHEET 1 of 5

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 78-006

E
N

DATE from 01/11/2021 to 08/11/2021

FLUSHING MEDIUM WATER

ORIENTATION **Vertical**

GROUND LEVEL +11.09 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
01/11/2021	SX	08:00							No. Type Depth		0.00			
									A • 0.45 INSPECTION PIT 0.50		0.50			Brown and grey, subangular fine to coarse GRAVEL sized rock and concrete fragments in sandy matrix. (FILL)
									B • 0.95 1.00					Medium dense, brown, slightly silty fine to coarse SAND with some subangular fine gravel sized rock fragments. (FILL)
									C • 1.45 1.50					
									D • 1.95 2.00					
								1.2 2.2,3.3 N=10	1 • 2.40 2.45					
									2 • 2.40 2.45					
									3 • 3.00		3.00			Firm, yellowish brown, sandy SILT with occasional subangular fine gravel sized rock fragments. (FILL)
									4 • 4.00 4.10					
								3.4 4.4,5.5 N=18	5 • 4.50 4.55					
									6 • 4.50 4.55					
									7 • 5.00		5.00			Firm, yellowish brown, sandy SILT with some subangular coarse gravel sized rock fragments. (FILL)
									8 • 6.00 6.10					
	SX 6.10 PX								9 • 7.10 7.20		6.10			Yellowish brown, silty fine to coarse SAND with some subangular fine to medium gravel sized rock fragments. (FILL)
									10 • 7.10 7.20					
								3.3 5.6,7.8 N=26	11 • 7.80 7.85		7.20			Extremely weak, yellowish brown, spotted grey and orangish brown, completely decomposed GRANITE. (Slightly silty fine to coarse SAND with some subangular fine gravel sized rock fragments)
									12 • 8.10					
									13 • 9.10 9.20					
								4.4 6.8,10,11 N=35	14 • 9.60 9.65					
									15 • 9.60 9.65					

t:\gintw\library\library ags 3.0 (01 dec 2019).glb\3110 geo drillhole (march 2014).y

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample (76/100mm)
- Standard penetration test
- Vibrocore sample
- Water sample
- Piezometer / Standpipe tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED **M H CHIU**
DATE **09/11/2021**
CHECKED **K M LO**
DATE **10/11/2021**

REMARKS

1. Inspection pit was dug to 2.00m depth.

PRELIMINARY



DRILLHOLE RECORD

HOLE No.

DH18

SHEET 2 of 5

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 78-006

E
N

DATE from 01/11/2021 to 08/11/2021

FLUSHING MEDIUM WATER

ORIENTATION **Vertical**

GROUND LEVEL mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
				98					No. Type Depth		10.00			
								4,6 7,8,12,12 N=39	16 10.10		10.10		V	As sheet 1 of 5.
									17 11.10					Extremely weak, light pink, spotted grey, orangish brown and white, completely decomposed GRANITE. (Slightly silty fine to coarse SAND with some subangular fine gravel sized rock fragments)
									18 11.20					
									19 11.60					
									20 12.10					
									21 13.10					
								10,21 31,45,55,62 N=193	22 13.20					
									23 13.60					
									24 14.10					
									25 15.10					
								14,16 39,52,76,33/15mm 200bls/240mm	26 15.20					
									27 15.54					
									28 16.10					
									29 17.10					
								16,20 42,52,80,26/15mm 200bls/240mm	30 17.20					
									31 17.54					
									32 18.10					
									33 19.10					
								20,28 68,82,50/40mm 200bls/190mm	34 19.20					
									35 19.49					
											20.00			

t:\gintw\library\library ags 3.0 (01 dec 2019)\gb3110 geo drillhole (march 2014)\

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample (76/100mm)
- Standard penetration test
- Vibrocore sample
- Water sample
- Piezometer / Standpipe tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED **M H CHIU**
DATE **09/11/2021**
CHECKED **K M LO**
DATE **10/11/2021**

REMARKS

PRELIMINARY



DRILLHOLE RECORD

HOLE No.

DH18

SHEET 3 of 5

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 78-006

E
N

DATE from 01/11/2021 to 08/11/2021

FLUSHING MEDIUM WATER

ORIENTATION **Vertical**

GROUND LEVEL mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
02/11/2021 03/11/2021		18.00 6.15m at 08:00		100					No. Type Depth		20.00			As sheet 2 of 5.
								25,25/50mm 72,89,39/25mm 200bls/175mm	36 20.10 37 21.10 38 21.20 39 21.45 21.50		20.10		V	Extremely weak, orangish brown, spotted grey and white, completely decomposed GRANITE. (Slightly silty fine to coarse SAND with some subangular fine gravel sized rock fragments)
								35,15/20mm 80,95,25/15mm 200bls/165mm	40 23.20 41 23.41 23.46					
				98				43,7/5mm 92,108/65mm 200bls/140mm	42 24.10 43 25.10 44 25.20 45 25.37 25.42		24.10		V	Extremely weak, pink, spotted grey and white, completely decomposed GRANITE. (Slightly silty fine to coarse SAND with some subangular fine gravel sized rock fragments)
								50/75mm 98,102/50mm 200bls/125mm	46 27.20 47 27.35 27.40					
				0					48 28.10 29.10 29.20		28.10		V	Very weak, brownish pink, spotted grey and white, completely decomposed GRANITE. (Slightly silty fine to coarse SAND with much subangular fine gravel sized rock fragments)
				0							30.00			
										LOGGED M H CHIU		REMARKS		
										DATE 09/11/2021				
										CHECKED K M LO				
										DATE 10/11/2021		PRELIMINARY		

<



DRILLHOLE RECORD

HOLE No.

DH23

SHEET 1 of 5

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 78-006

E
N

DATE from 23/10/2021 to 29/10/2021

FLUSHING MEDIUM WATER

ORIENTATION **Vertical**

GROUND LEVEL +11.11 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
23/10/2021	SX	08:00							No. Type Depth		0.00			
									A • 0.45 0.50		0.50			Orangish brown and grey, subangular coarse GRAVEL and COBBLE sized rock and concrete fragments in sandy silty matrix. (FILL)
									B • 0.95 1.00					Orangish brown, spotted grey, slightly silty fine to coarse SAND with some subangular fine gravel sized rock and concrete fragments. (FILL)
									C • 1.45 1.50					
									D • 1.95 2.00		2.00			
								2.2 2.2,2.3 N=9	1 2.40 2.45					Loose, orangish brown, slightly silty fine to coarse SAND with some subangular fine gravel sized rock fragments. (FILL)
									2 2.40 2.45					
									3 3.00					
									4 4.00 4.10		4.10			Medium dense, brownish grey, slightly silty fine to coarse SAND with some subangular fine gravel sized rock fragments. (FILL)
								1.2 2.2,3.3 N=10	5 4.50 4.55					
									6 4.50 4.55					
									7 5.00		5.00		V	Extremely weak, orangish brown, completely decomposed GRANITE. (Slightly silty fine to coarse SAND with some subangular fine gravel sized rock fragments)
	SX 6.00 PX								8 6.00 6.10					
		4.40m at 18:00						2.3 3,4,4.5 N=16	9 6.50 6.55					
23/10/2021 25/10/2021		4.25m at 08:00							10 6.50 6.55					
									11 7.00		7.00		V	Extremely weak, brownish grey, completely decomposed GRANITE. (Slightly silty fine to coarse SAND with some subangular fine gravel sized rock fragments)
									12 8.00 8.10					
									13 8.50 8.55					
								8,9 8,8,10,12 N=38	14 8.50 8.55					
									15 9.00					
											10.00			
<div> <div> <div>Small disturbed sample</div> <div>SPT liner sample</div> <div>U76 undisturbed sample</div> <div>U100 undisturbed sample</div> <div>Mazier sample</div> <div>Piston sample (76/100mm)</div> <div>Standard penetration test</div> <div>Vibrocure sample</div> </div> <div> <div>Water sample</div> <div>Piezometer / Standpipe tip</div> <div>Permeability test</div> <div>Packer (Water Absorption) test</div> <div>Impression packer test</div> <div>Acoustic Televiwer Survey Test</div> <div>In-situ vane shear test</div> <div>Pressuremeter Test</div> </div> </div>										REMARKS 1. Inspection pit was dug to 2.00m depth on 21/10/2021. 2. Packer (Water Absorption) test was carried out at 37.60m-41.32m depth. 3. Acoustic televiwer survey was carried out at 35.63m-41.32m depth.				
LOGGED M H CHIU DATE 30/10/2021 CHECKED K M LO DATE 01/11/2021										<div>PRELIMINARY</div>				

t:\gintw\library\library ags 3.0 (01 dec 2019).glb\3110 geo drillhole (march 2014).i



DRILLHOLE RECORD

HOLE No.

DH23

SHEET 2 of 5

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 78-006

E
N

DATE from 23/10/2021 to 29/10/2021

FLUSHING MEDIUM WATER

ORIENTATION **Vertical**

GROUND LEVEL mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
									No. Type Depth		10.00		V	As sheet 1 of 5.
								8, 10 12, 18, 20, 30 N=80	16 17		10.00 10.10			
									18		10.50 10.55			
				100					19		11.00			
								4, 11 11, 14, 21, 35 N=81	20 21		12.00 12.10			
									22		12.50 12.55			
				100					23		13.00			
								8, 12 11, 15, 23, 26 N=75	24 25		14.00 14.10			
									26		14.50 14.55			
				100					27		15.00			
								10, 13 15, 18, 25, 38 N=96	28 29		16.00 16.10			
									30		16.50 16.55			
				100					31		17.00			
								10, 17 20, 21, 28, 35 N=104	32 33		18.00 18.10			
									34		18.50 18.55			
				83					35		19.00			
											20.00			

Small disturbed sample
 SPT liner sample
 U76 undisturbed sample
 U100 undisturbed sample
 Mazier sample
 Piston sample (76/100mm)
 Standard penetration test
 Vibrocore sample

Water sample
 Piezometer / Standpipe tip
 Permeability test
 Packer (Water Absorption) test
 Impression packer test
 Acoustic Televiwer Survey Test
 In-situ vane shear test
 Pressuremeter Test

LOGGED **M H CHIU**

DATE **30/10/2021**

CHECKED **K M LO**

DATE **01/11/2021**

REMARKS

PRELIMINARY

t:\gintw\library\library ags 3.0 (01 dec 2019).glb\3110 geo drillhole (march 2014).l



DRILLHOLE RECORD

HOLE No.

DH23

SHEET 3 of 5

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 78-006

E
N

DATE from 23/10/2021 to 29/10/2021

FLUSHING MEDIUM WATER

ORIENTATION **Vertical**

GROUND LEVEL mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
								11,19 22,25,30,38 N=115	36 37 38 39 40 41 42		20.00		V	As sheet 1 of 5.
								11,21 23,25,32,41 N=121						
								22,25 23,29,32,45 N=129	43 44					
								14,31 46,62,92/75mm 200bls/225mm	45 46 47 48					
								29,21/10mm 60,83,57/25mm 200bls/175mm	49					
											30.00			

Small disturbed sample

SPT liner sample

U76 undisturbed sample

U100 undisturbed sample

Mazier sample

Piston sample (76/100mm)

Standard penetration test

Vibrocore sample

Water sample

Piezometer / Standpipe tip

Permeability test

Packer (Water Absorption) test

Impression packer test

Acoustic Televiwer Survey Test

In-situ vane shear test

Pressuremeter Test

LOGGED **M H CHIU**

DATE **30/10/2021**

CHECKED **K M LO**

DATE **01/11/2021**

REMARKS

PRELIMINARY



DRILLHOLE RECORD

HOLE No.

DH23

SHEET 5 of 5

PROJECT Ground Investigation Works for the Commercial Development on IL No 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT No. J3957

MACHINE & No. 78-006

E
N

DATE from 23/10/2021 to 29/10/2021

FLUSHING MEDIUM WATER

ORIENTATION **Vertical**

GROUND LEVEL mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
		4.50m at 18:00		100	100	94	17.4 5.9 1.8		T2101		40.00 41.32	+	II	38.31 - 38.45m: Fused with fine grained GRANITE. 39.12 - 39.28m: Moderately strong, moderately decomposed.
														End of hole at 41.32m depth.

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample (76/100mm)
- Standard penetration test
- Vibrocore sample
- Water sample
- Piezometer / Standpipe tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED **M H CHIU**
DATE **30/10/2021**
CHECKED **K M LO**
DATE **01/11/2021**

REMARKS

PRELIMINARY

Coreholes



COREHOLE RECORD

HOLE No.
FR32-CH01(H)

SHEET 1 of 1

PROJECT Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT NO. J3957

MACHINE & No. CH2

E 837313.52
N 815363.58

DATE from 20/01/2022 to 20/01/2022

FLUSHING MEDIUM WATER

ORIENTATION 204°/Horizontal

GROUND LEVEL + 9.12 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
20/01/2022		10:00		100					No. Type Depth	9.12	0.00			Pink, BOULDER sized rock fragments. (MASONRY WALL)
				67					HX 0.76	9.12	0.76			Pinkish brown, mottled grey, COBBLE and BOULDER with some subangular coarse gravel sized rock and concrete fragments binded with cement soil mortar. (MASONRY WALL?)
				43					HX 1.46	9.12	1.46			0.76m: Binded with cement soil mortar.
				48					HX 2.50					Brown, silty fine to coarse SAND with some subangular fine to coarse gravel and cobble sized rock fragments. (FILL)
				49					HX 3.30					
20/01/2022		Dry at 16:00							HX 4.02	9.12	4.02			End of hole at 4.02m depth.

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample
- Standard penetration test
- Water sample
- Standpipe tip
- Piezometer tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED M H CHIU
DATE 21/01/2022
CHECKED K M LO
DATE 22/01/2022

REMARKS



COREHOLE RECORD

HOLE No.
FR32-CH02(I)

SHEET 1 of 1

PROJECT Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT NO. J3957

MACHINE & No. CH2

E 837313.75
N 815363.63

DATE from 18/01/2022 to 19/01/2022

FLUSHING MEDIUM WATER

ORIENTATION 204°/30°

GROUND LEVEL + 6.81 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
18/01/2022		10:00		100					No. Type Depth	6.81	0.00			Pink, BOULDER sized rock fragment. (MASONRY WALL)
				100					HX 0.37	6.63	0.37			Brown, mottled grey, BOULDER with some cobble sized rock and concrete fragments binded with cement soil mortar. (MASONRY WALL?) 0.37m: Binded with cement soil mortar. 0.62 - 1.25m: Grey.
									HX 0.62	6.50	0.62			
									HX 1.25	6.19	1.25			
18/01/2022		Dry at 16:00		52					HX 1.45	5.95	1.72			No recovery.
19/01/2022		Dry at 10:00		22					HX 2.05	5.79	2.05			Brownish pink, subangular fine to coarse GRAVEL and COBBLE sized rock and concrete fragments binded with cement soil mortar. (MASONRY WALL?)
				47					NX 2.73					
				19					NX 3.05	5.29	3.05			
		Dry at 16:00							NX 4.10					Brown, very silty fine to coarse SAND with occasional subangular fine gravel sized rock fragments. (FILL)
19/01/2022										4.76	4.10			End of hole at 4.10m depth.

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample
- Standard penetration test
- Water sample
- Standpipe tip
- Piezometer tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED M H CHIU
DATE 20/01/2022
CHECKED K M LO
DATE 21/01/2022

REMARKS



COREHOLE RECORD

HOLE No.
FR32-CH03(H)

SHEET 1 of 1

PROJECT Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT NO. J3957

MACHINE & No. CH1

E 837336.81
N 815345.97

DATE from 19/01/2022 to 19/01/2022

FLUSHING MEDIUM WATER

ORIENTATION 226°/Horizontal

GROUND LEVEL + 9.17 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples			Reduced Level	Depth (m)	Legend	Grade	Description
									No.	Type	Depth					
19/01/2022		10:00		100							9.17	0.00				Pink, BOULDER sized rock fragment. (MASONRY WALL)
				100					HX	0.38	9.17	0.38				Pinkish brown, mottled grey, BOULDER sized concrete fragments. (MASONRY WALL?) 0.38m: Binded with cement soil mortar.
				94					HX	0.80						
				57					HX	1.30	9.17	1.30				Brown and pink, subangular fine to coarse GRAVEL and COBBLE sized rock and concrete fragments. (FILL)
				36					HX	2.00						
				38					HX	3.10						
19/01/2022		Dry at 16:00							HX	4.10	9.17	4.10				End of hole at 4.10m depth.

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample
- Standard penetration test
- Water sample
- Standpipe tip
- Piezometer tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED M H CHIU
DATE 20/01/2022
CHECKED K M LO
DATE 21/01/2022

REMARKS



COREHOLE RECORD

HOLE No.
FR32-CH04(I)

SHEET 1 of 1

PROJECT Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT NO. J3957

MACHINE & No. CH1

E 837336.70
N 815346.32

DATE from 18/01/2022 to 18/01/2022

FLUSHING MEDIUM WATER

ORIENTATION 226°/30°

GROUND LEVEL + 6.88 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples		Reduced Level	Depth (m)	Legend	Grade	Description
									No.	Type	Depth				
18/01/2022		10:00		100						HX	0.00	0.00			Grey, COBBLE and BOULDER sized rock and concrete fragments binded with cement soil mortar. (MASONRY WALL)
				94						HX	0.43	0.43			Brown, mottled grey, BOULDER with some angular fine to coarse gravel and cobble sized rock and concrete fragments binded with cement soil mortar. (MASONRY WALL?)
				46						HX	0.96				0.43m: Binded with cement soil mortar.
				93						HX	1.52				
				78						HX	2.10				
				88						HX	2.60	5.58	2.60		Brown, very silty fine to coarse SAND. (FILL)
				74						HX	3.05				
				90						HX	3.55				
18/01/2022		Dry at 16:00								HX	4.05	4.86	4.05		End of hole at 4.05m depth.

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample
- Standard penetration test
- Water sample
- Standpipe tip
- Piezometer tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED M H CHIU
DATE 19/01/2022
CHECKED K M LO
DATE 20/01/2022

REMARKS

REMARKS



COREHOLE RECORD

HOLE No.
FR190-CH02(I)

SHEET 1 of 1

PROJECT Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT NO. J3957

MACHINE & No. CH2

E 837204.42
N 815409.73

DATE from 17/01/2022 to 17/01/2022

FLUSHING MEDIUM WATER

ORIENTATION 149°/45°

GROUND LEVEL + 7.16 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
17/01/2022		10:00		100					No. Type Depth	7.16	0.00			Pink, BOULDER sized rock fragment. (MASONRY WALL)
				88					HX 0.90	6.95	0.30			Pinkish grey, BOULDER with occasional subangular coarse gravel and cobble sized rock and concrete fragments binded with cement mortar. (MASONRY WALL?)
				100					HX 1.75					0.30m: Binded with cement soil mortar.
				86					HX 2.10	5.68	2.10			Brown, fine to coarse SAND with some subangular fine to coarse gravel sized rock fragments. (FILL)
				44					HX 3.20					
17/01/2022		Dry at 16:00							HX 4.00	4.33	4.00			End of hole at 4.00m depth.

● Small disturbed sample

□ SPT liner sample

▨ U76 undisturbed sample

■ U100 undisturbed sample

▤ Mazier sample

▦ Piston sample

↓ Standard penetration test

▲ Water sample

⬆ Standpipe tip

⬇ Piezometer tip

⬇ Permeability test

⬇ Packer (Water Absorption) test

⬇ Impression packer test

⬇ Acoustic Televiewer Survey Test

✓ In-situ vane shear test

⬇ Pressuremeter Test

LOGGED M H CHIU
DATE 18/01/2022
CHECKED K M LO
DATE 19/01/2022

REMARKS



COREHOLE RECORD

HOLE No.
FR190-CH03(H)

SHEET 1 of 1

PROJECT Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT NO. J3957

MACHINE & No. CH1

E 837213.47
N 815419.26

DATE from 07/01/2022 to 10/01/2022

FLUSHING MEDIUM WATER

ORIENTATION 145°/Horizontal

GROUND LEVEL + 7.46 mPD

Drilling Progress	Casing depth/size (m)	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples		Reduced Level	Depth (m)	Legend	Grade	Description		
									No.	Type							
07/01/2022	10:00			94							7.46	0.00			Pink, BOULDER sized rock fragment. (MASONRY WALL)		
				HX					0.00								
									0.34	7.46	0.34						Greyish pink, BOULDER sized concrete fragment. (MASONRY WALL?)
				HX					0.78	7.46	0.78						0.34m: Binded with cement soil mortar.
									1.28								Brown, slightly silty fine to coarse SAND with much subangular fine to coarse gravel sized rock fragments. (FILL)
07/01/2022 10/01/2022	Dry at 16:00 Dry at 10:00			55													
				HX					2.10								
									3.10								
10/01/2022	Dry at 16:00			64							7.46	3.85			3.85 - 4.20m: COBBLE.		
				HX					4.20	7.46	4.20						
End of hole at 4.20m depth.																	

● Small disturbed sample

□ SPT liner sample

▨ U76 undisturbed sample

■ U100 undisturbed sample

▤ Mazier sample

▥ Piston sample

↓ Standard penetration test

▲ Water sample

⬆ Standpipe tip

⬇ Piezometer tip

⬇ Permeability test

⬇ Packer (Water Absorption) test

⬇ Impression packer test

⬇ Acoustic Televiwer Survey Test

✓ In-situ vane shear test

⬇ Pressuremeter Test

LOGGED M H CHIU
DATE 11/01/2022
CHECKED K M LO
DATE 12/01/2022

REMARKS



COREHOLE RECORD

HOLE No.
FR190-CH04(I)

SHEET 1 of 1

PROJECT Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT NO. J3957

MACHINE & No. CH1

E 837213.34
N 815419.19

DATE from 17/01/2022 to 17/01/2022

FLUSHING MEDIUM WATER

ORIENTATION 145°/45°

GROUND LEVEL + 6.67 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples			Reduced Level	Depth (m)	Legend	Grade	Description
									No.	Type	Depth					
17/01/2022		10:00		100								6.67	0.00			Pink, COBBLE and BOULDER sized rock fragments. (MASONRY WALL) 0.13m: Binded with cement mortar. 0.59m: Binded with cement soil mortar.
										HX		6.58	0.13			
												6.25	0.59			
										HX	0.80	6.10	0.80			
				83												Grey, BOULDER with occasional subangular coarse gravel and cobble sized rock and concrete fragments binded with cement mortar. (MASONRY WALL?) 0.80m: Binded with cement mortar.
										HX	1.55					
				94												
										HX	2.40	4.97	2.40			
				92												Brown, silty fine to coarse SAND with some subangular fine gravel sized rock fragments. (FILL)
										HX	3.05					
				68												
										HX	4.00	3.84	4.00			
17/01/2022		Dry at 16:00														End of hole at 4.00m depth.

- Small disturbed sample
- SPT liner sample
- ▨ U76 undisturbed sample
- U100 undisturbed sample
- ▤ Mazier sample
- ▦ Piston sample
- ↓ Standard penetration test
- ▲ Water sample
- ⬆ Standpipe tip
- ⬇ Piezometer tip
- ⬇ Permeability test
- ⬇ Packer (Water Absorption) test
- ⬇ Impression packer test
- ⬇ Acoustic Televiewer Survey Test
- ✓ In-situ vane shear test
- ⬇ Pressuremeter Test

LOGGED M H CHIU
DATE 18/01/2022
CHECKED K M LO
DATE 19/01/2022

REMARKS



COREHOLE RECORD

HOLE No.
FR193-CH02(I)

SHEET 1 of 1

PROJECT Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT NO. J3957

MACHINE & No. CH1

E 837235.58
N 815410.36

DATE from 20/01/2022 to 20/01/2022

FLUSHING MEDIUM WATER

ORIENTATION 230°/45°

GROUND LEVEL + 6.64 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples			Depth (m)	Legend	Grade	Description
									No.	Type	Depth	Reduced Level			
20/01/2022		10:00		100								6.64	0.00		Pink, BOULDER sized rock fragment. (MASONRY WALL)
				62					HX		0.48	6.30	0.48		Pinkish brown, mottled grey, COBBLE sized rock and concrete fragments binded with cement soil mortar. (MASONRY WALL?)
				56					HX		1.00	5.93	1.00		0.48m: Binded with cement soil mortar.
				33					HX		1.50				Brown, silty fine to coarse SAND with some subangular fine to coarse gravel sized rock fragments. (FILL)
				40					HX		2.10				
									NX						
				40							3.10				
									NX						
20/01/2022		Dry at 16:00									4.10	3.74	4.10		End of hole at 4.10m depth.

t:\gintw\library\library ags 3.0 (01 dec 2019).gib\3823 cedd (drillhole)

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample
- Standard penetration test
- Water sample
- Standpipe tip
- Piezometer tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED M H CHIU
DATE 21/01/2022
CHECKED K M LO
DATE 22/01/2022

REMARKS



COREHOLE RECORD

HOLE No.
FR193-CH04(I)

SHEET 1 of 1

PROJECT Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

METHOD Rotary

CO-ORDINATES

PROJECT NO. J3957

MACHINE & No. CH1

E 837247.70
N 815398.77

DATE from 21/01/2022 to 21/01/2022

FLUSHING MEDIUM WATER

ORIENTATION 230°/45°

GROUND LEVEL + 6.63 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples			Depth (m)	Legend	Grade	Description
									No.	Type	Depth	Reduced Level			
21/01/2022		10:00		100								6.63	0.00		Pink, BOULDER sized rock fragment. (MASONRY WALL) Pinkish brown, mottled grey, BOULDER with some cobble sized rock and concrete fragments binded with cement soil mortar. (MASONRY WALL?) 0.20m: Binded with cement soil mortar. 0.54m: Binded with cement soil mortar.
				100					HX		0.54	6.49	0.20		
				50					HX			6.25	0.54		
				29					NX		1.40	5.64	1.40		
				40					NX		1.80	5.36	1.80		Pinkish brown, subangular coarse GRAVEL and COBBLE sized rock and concrete fragments. (FILL)
				33					NX		2.50				Brownish grey, silty fine to coarse SAND with some subangular fine to coarse gravel sized rock fragments. (FILL)
				33					NX		3.00				
									NX		3.60				
									NX		4.20	3.66	4.20		
21/01/2022		Dry at 16:00													End of hole at 4.20m depth.

t:\gintw\library\library ags 3.0 (01 dec 2019).gbx3823 ceddd (drillhole)

- Small disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample
- Standard penetration test
- Water sample
- Standpipe tip
- Piezometer tip
- Permeability test
- Packer (Water Absorption) test
- Impression packer test
- Acoustic Televiwer Survey Test
- In-situ vane shear test
- Pressuremeter Test

LOGGED M H CHIU
DATE 22/01/2022
CHECKED K M LO
DATE 24/01/2022

REMARKS

Trial Pits



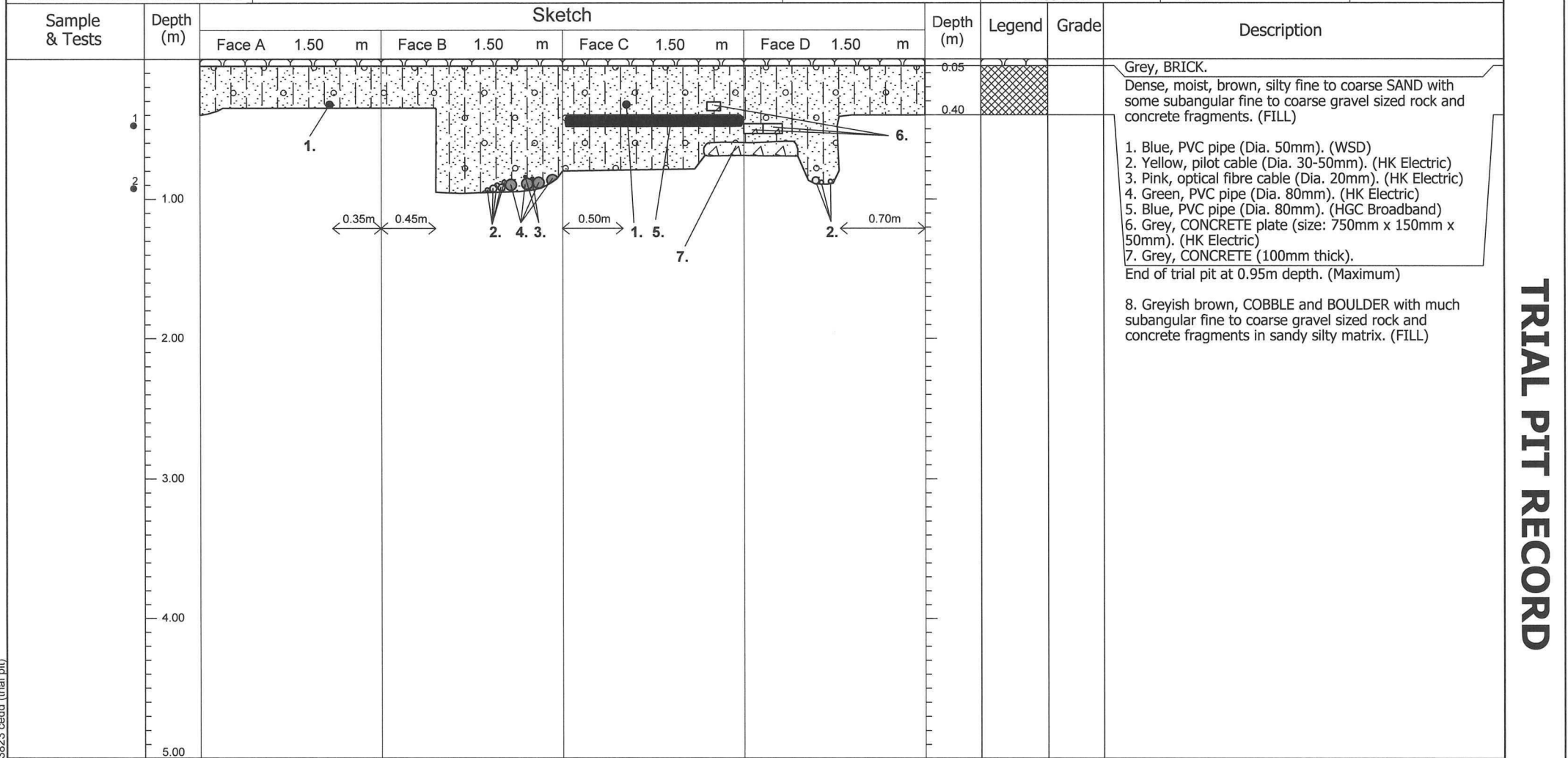
CONTRACT No.

PROJECT NO. J3957

PROJECT: Ground Investigation Works for the Commercial Development on IL
No. 8945, Causeway Bay, Hong KongLogged by: M H CHIU
Date: 19/01/2022
Checked by: K M LO
Date: 20/01/2022Co-ordinates :
E 837172.81
N 815256.37
Ground Level :
+ 12.35 mPDExcavation Dates:
18/01/2022 to 18/01/2022
Backfill Dates:
24/01/2022

TRIAL PIT No.

TP01U



TRIAL PIT RECORD

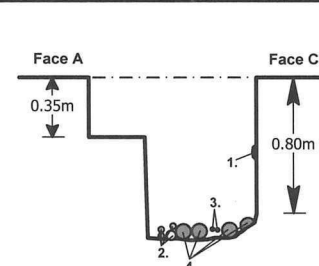
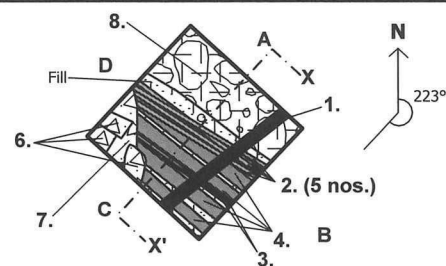
SYMBOL

PLAN

SECTION (X-X')

REMARKS

- Small disturbed
- Large disturbed
- U76 Undisturbed (Vertical sample)
- U100 Undisturbed (Vertical sample)
- U76 Undisturbed (Horizontal sample)
- U100 Undisturbed (Horizontal sample)
- Block sample
- In-situ density test
- Water sample
- Water seepage
- N - Schmidt Hammer test
- Standpipe tip
- Piezometer tip



Shoring: No
Stability: Stable
Water Seepage: No
Maximum Depth: 0.95m
1. Small disturbed samples were taken out at 0.50m and 0.95m depths.



CONTRACT No.

PROJECT NO. J3957

PROJECT: Ground Investigation Works for the Commercial Development on IL
No. 8945, Causeway Bay, Hong Kong

Logged by: M H CHIU

Date: 18/01/2022

Checked by: K M LO

Date: 19/01/2022

Co-ordinates:

E 837153.95

N 815290.87

Ground Level :
+ 10.48 mPD

Excavation Dates:

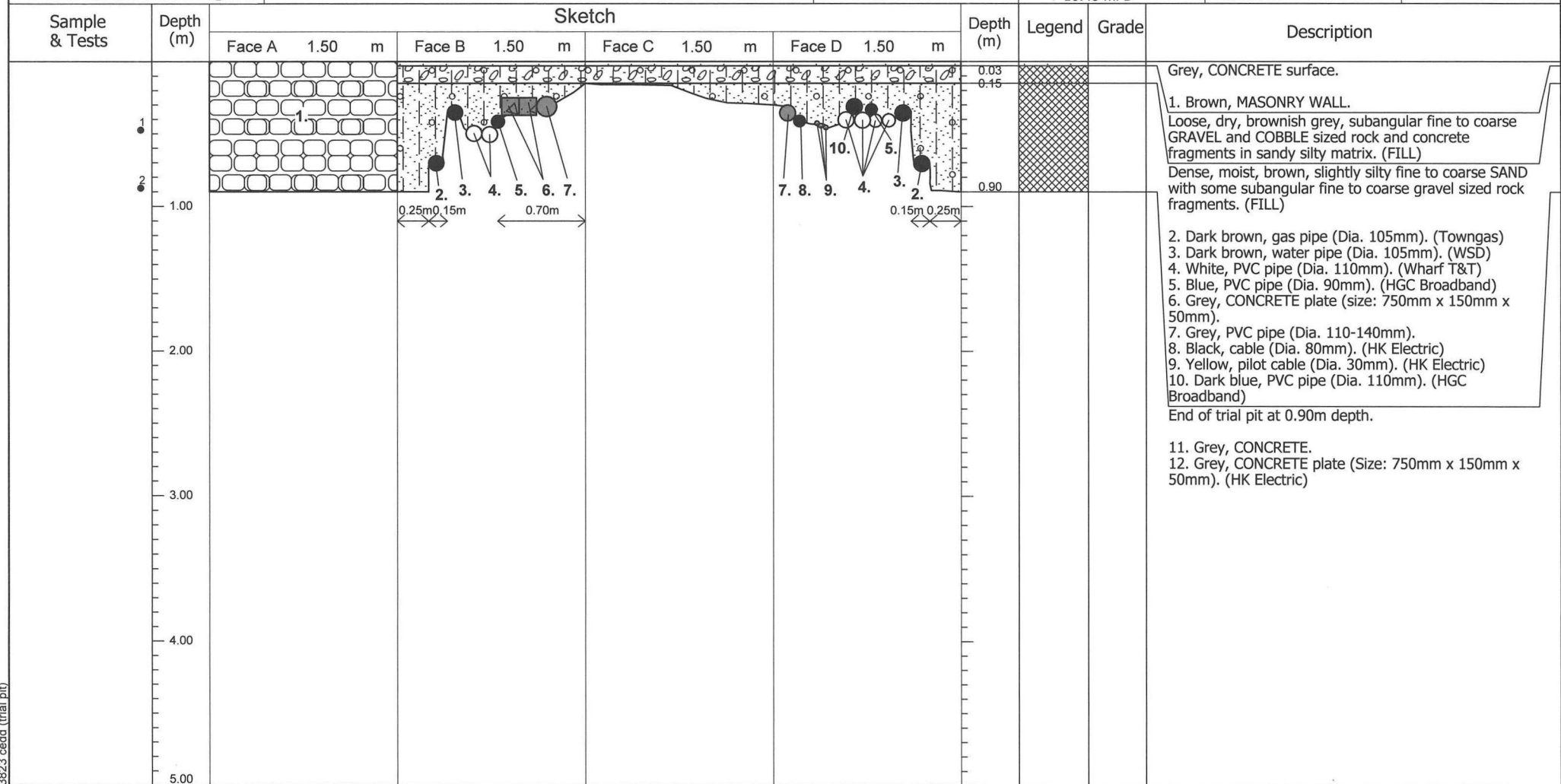
17/01/2022 to 17/01/2022

Backfill Dates:

24/01/2022

TRIAL PIT No.

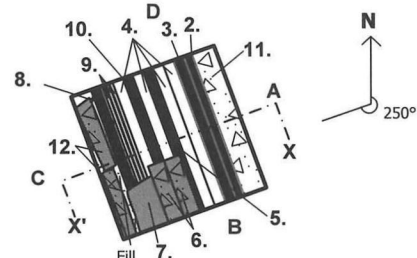
TP02U



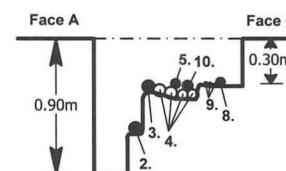
SYMBOL

- | | |
|--|---------------------------|
| ● Small disturbed | □ Block sample |
| ↑ Large disturbed | □ In-situ density test |
| ▨ U76 Undisturbed (Vertical sample) | ▲ Water sample |
| ■ U100 Undisturbed (Vertical sample) | ⤵ Water seepage |
| ▨ U76 Undisturbed (Horizontal sample) | ▼ N - Schmidt Hammer test |
| ■ U100 Undisturbed (Horizontal sample) | □ Standpipe tip |
| | ▲ Piezometer tip |

PLAN



SECTION (X-X')



REMARKS

Shoring: No
Stability: Stable
Water Seepage: No
Maximum Depth: 0.90m
1. Small disturbed samples were taken at 0.50m and 0.90m depths.

TRIAL PIT RECORD



CONTRACT No.

PROJECT NO. J3957

PROJECT: Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

Logged by: M H CHIU

Date: 15/01/2022

Checked by: K M LO

Date: 17/01/2022

Co-ordinates:

E 837150.40

N 815353.88

Ground Level:

+ 7.73 mPD

Excavation Dates:

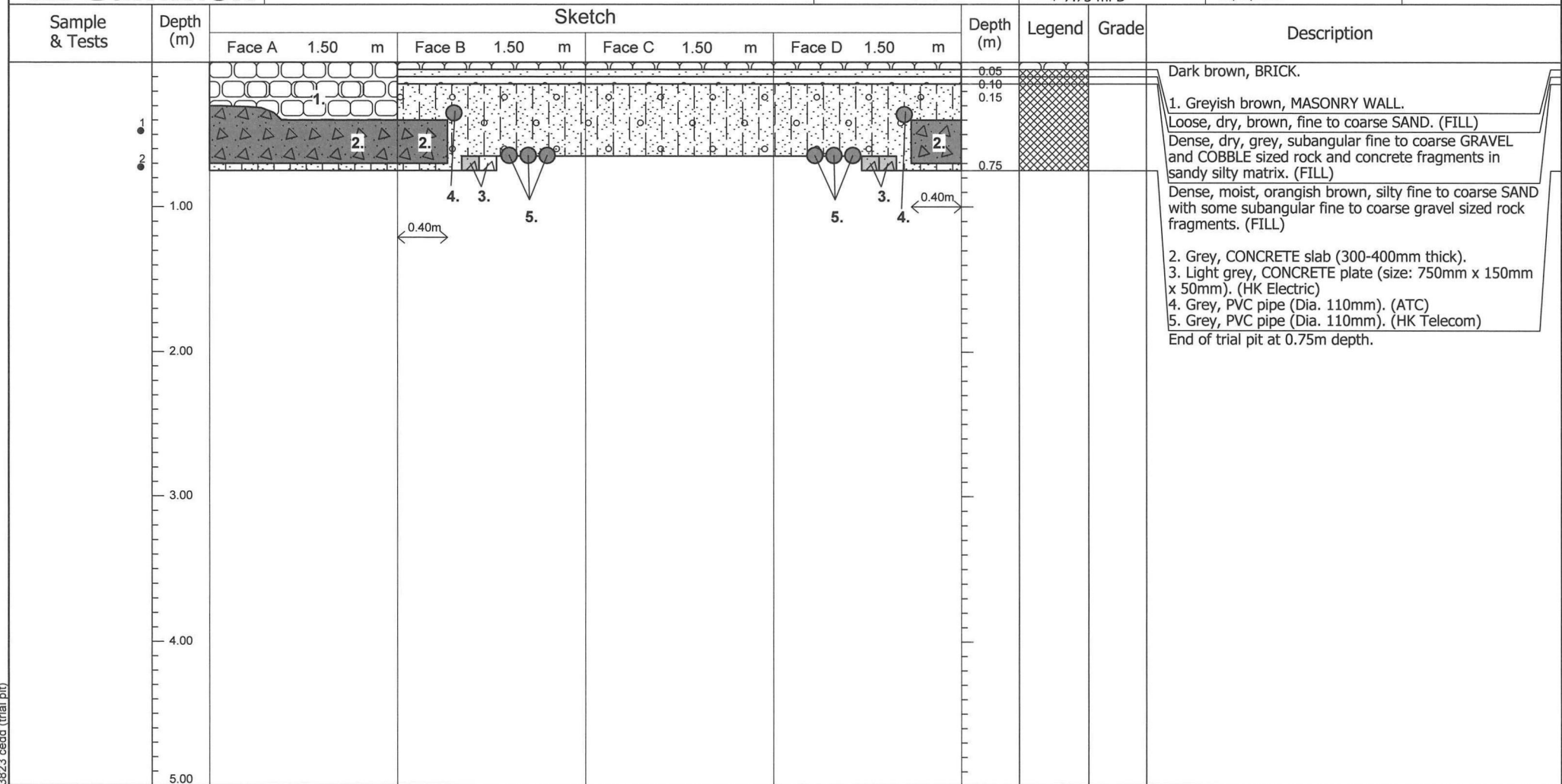
14/01/2022 to 14/01/2022

Backfill Dates:

18/01/2022

TRIAL PIT No.

TP03U



TRIAL PIT RECORD

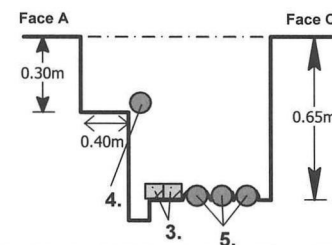
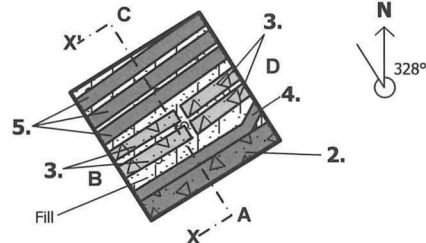
SYMBOL

PLAN

SECTION (X-X')

REMARKS

- Small disturbed
- Large disturbed
- U76 Undisturbed (Vertical sample)
- U100 Undisturbed (Vertical sample)
- U76 Undisturbed (Horizontal sample)
- U100 Undisturbed (Horizontal sample)
- Block sample
- In-situ density test
- Water sample
- Water seepage
- N - Schmidt Hammer test
- Standpipe tip
- Piezometer tip



Shoring: No
Stability: Stable
Water Seepage: No
Maximum Depth: 0.75m
1. Small disturbed samples were taken at 0.50m and 0.75m depths.



CONTRACT No.

PROJECT NO. J3957

PROJECT: Ground Investigation Works for the Commercial Development on IL
No. 8945, Causeway Bay, Hong Kong

Logged by: M H CHIU

Date: 15/01/2022

Checked by: K M LO

Date: 17/01/2022

Co-ordinates:

E 837166.05

N 815370.44

Ground Level:

+ 7.01 mPD

Excavation Dates:

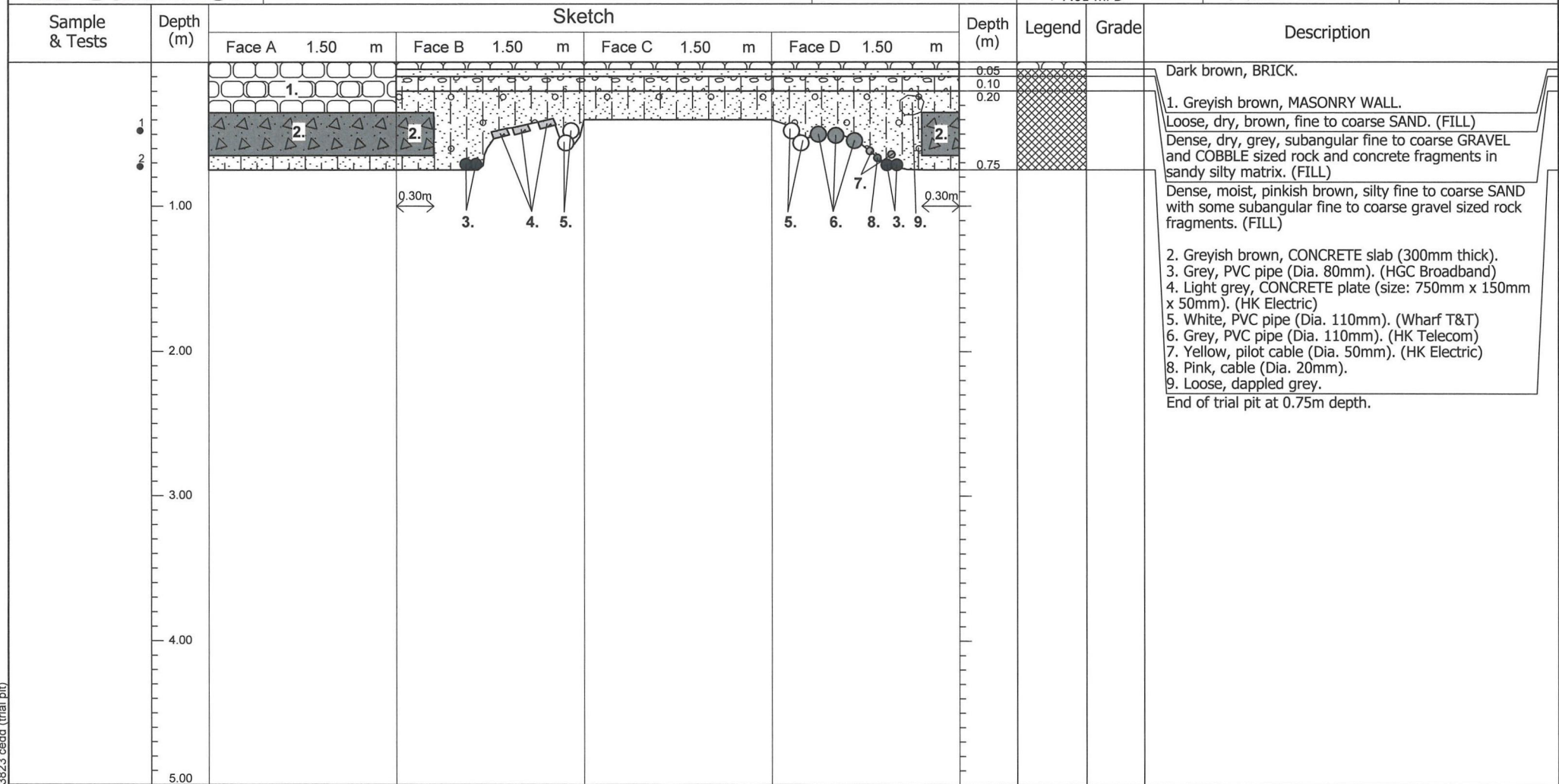
14/01/2022 to 14/01/2022

Backfill Dates:

18/01/2022

TRIAL PIT No.

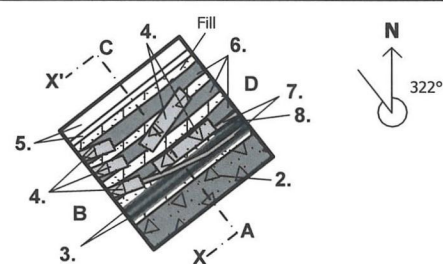
TP04U



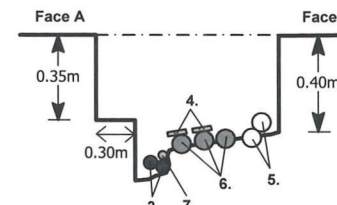
SYMBOL

- | | |
|--|---------------------------|
| ● Small disturbed | □ Block sample |
| ↑ Large disturbed | □ In-situ density test |
| ▨ U76 Undisturbed (Vertical sample) | ▲ Water sample |
| ■ U100 Undisturbed (Vertical sample) | ▼ Water seepage |
| ▨ U76 Undisturbed (Horizontal sample) | ▼ N - Schmidt Hammer test |
| ■ U100 Undisturbed (Horizontal sample) | □ Standpipe tip |
| | ▲ Piezometer tip |

PLAN



SECTION (X-X')


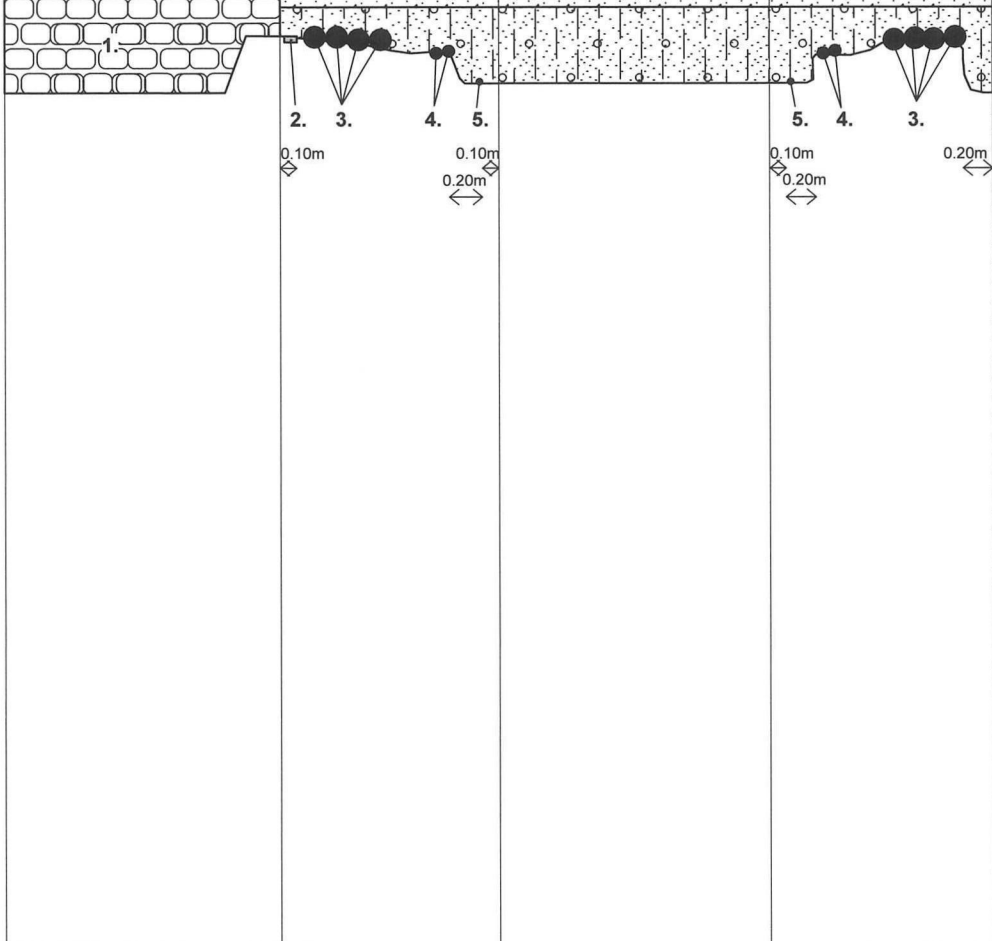
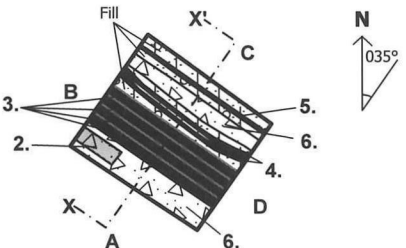
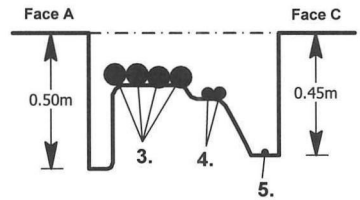


REMARKS

Shoring: No
Stability: Stable
Water Seepage: No
Maximum Depth: 0.75m
1. Small disturbed samples were taken at 0.50m and 0.75m depths.

TRIAL PIT RECORD

t:\gintw\library\library aqs 3.0 (01 dec 2019).qib\3823 cecid (trial pit)

	CONTRACT No.	PROJECT NO. J3957		Logged by : M H CHIU Date : 18/01/2022	Co-ordinates : E 837225.73 N 815420.58 Ground Level : + 4.85 mPD	Excavation Dates: 17/01/2022 to 17/01/2022 Backfill Dates: 21/01/2022	TRIAL PIT No. TP05U		
	PROJECT: Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong			Checked by : K M LO Date : 19/01/2022					
Sample & Tests	Depth (m)	Sketch				Depth (m)	Legend	Grade	Description
		Face A 1.50 m	Face B 1.20 m	Face C 1.50 m	Face B 1.20 m				
									
									Grey, CONCRETE surface. 1. Brown, MASONRY WALL. Dense, moist, brown, slightly silty fine to coarse SAND with some subangular fine to coarse gravel sized rock and concrete fragments. (FILL) 2. Grey, CONCRETE block (50mm thick). 3. Black, PVC pipe (Dia. 110mm). (New World) 4. Blue, PVC pipe (Dia. 60mm). (HGC Broadband) 5. Blue, low voltage cable (Dia. 30mm). (Highway) End of trial pit at 0.50m depth. 6. Grey, CONCRETE.
SYMBOL		PLAN		SECTION (X-X')		REMARKS			
<ul style="list-style-type: none">Small disturbedLarge disturbedU76 Undisturbed (Vertical sample)U100 Undisturbed (Vertical sample)U76 Undisturbed (Horizontal sample)U100 Undisturbed (Horizontal sample)Block sampleIn-situ density testWater sampleWater seepageN - Schmidt Hammer testStandpipe tipPiezometer tip						Shoring: No Stability: Stable Water Seepage: No Maximum Depth: 0.50m 1. Small disturbed sample was taken at 0.50m depth.			

TRIAL PIT RECORD



CONTRACT No.

PROJECT NO. J3957

PROJECT: Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

Logged by: M H CHIU

Date: 19/01/2022

Checked by: K M LO

Date: 20/01/2022

Co-ordinates:

E 837305.23

N 815368.09

Ground Level:

+ 5.86 mPD

Excavation Dates:

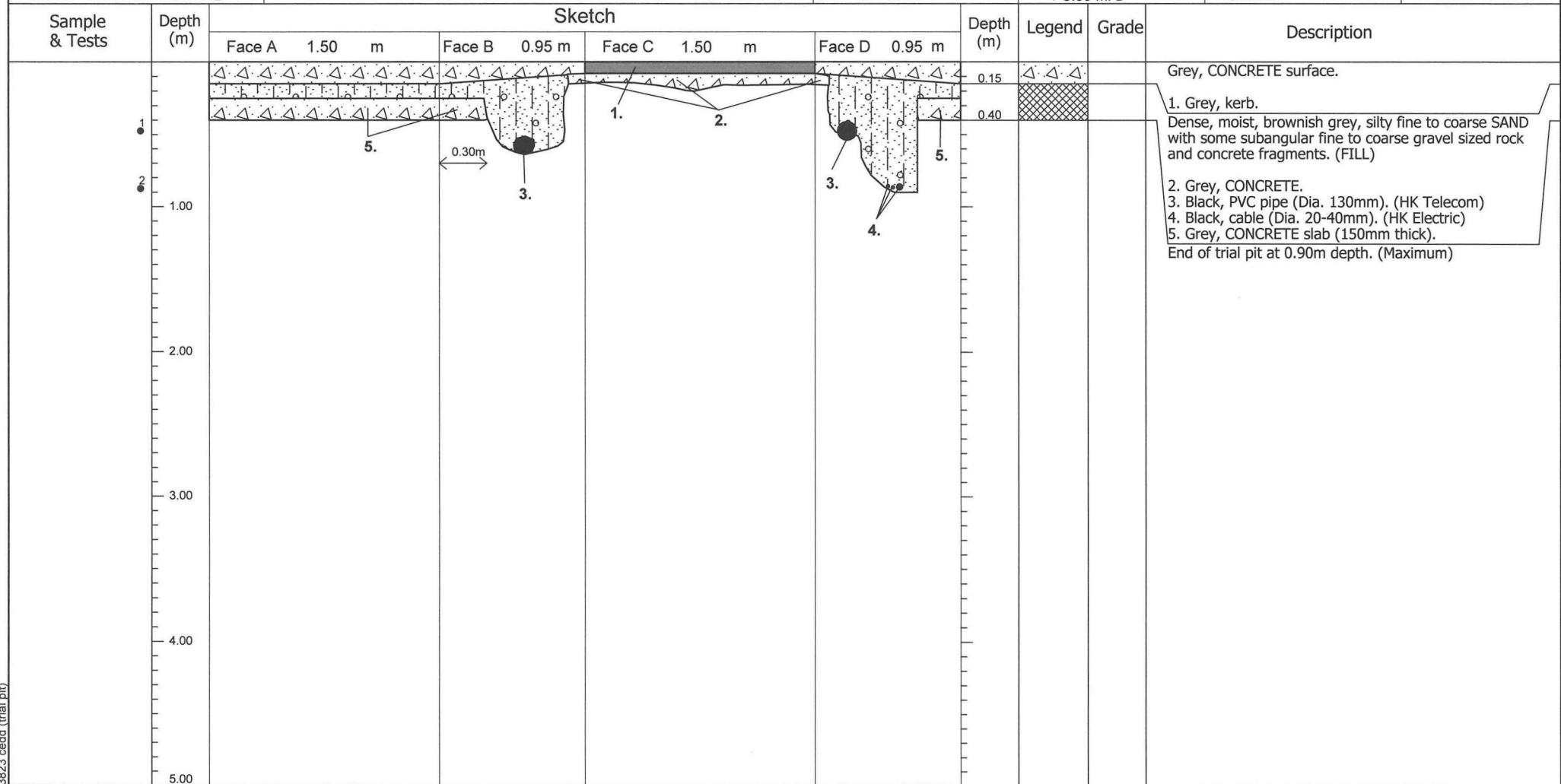
18/01/2022 to 18/01/2022

Backfill Dates:

24/01/2022

TRIAL PIT No.

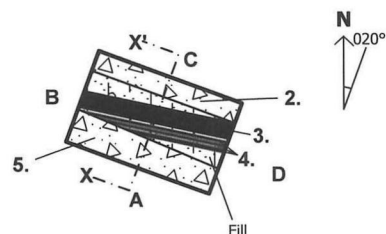
TP06U



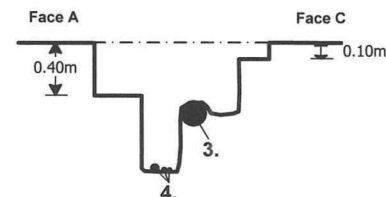
SYMBOL

- | | |
|--|---------------------------|
| ● Small disturbed | □ Block sample |
| ↑ Large disturbed | □ In-situ density test |
| ▨ U76 Undisturbed (Vertical sample) | ▲ Water sample |
| ■ U100 Undisturbed (Vertical sample) | ⤵ Water seepage |
| ▨ U76 Undisturbed (Horizontal sample) | ▼ N - Schmidt Hammer test |
| ■ U100 Undisturbed (Horizontal sample) | □ Standpipe tip |
| | ▲ Piezometer tip |

PLAN



SECTION (X-X')



REMARKS

Shoring: No
Stability: Stable
Water Seepage: No
Maximum Depth: 0.90m
1. Small disturbed samples were taken out at 0.50m and 0.90m depths.

TRIAL PIT RECORD

Inspection Pits



INSPECTION PIT RECORD

HOLE No.
IP02

SHEET 1 of 1

PROJECT Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

METHOD HAND DUG

CO-ORDINATES

PROJECT NO. J3957

MACHINE & No. N/A

E 837212.24
N 815418.43

DATE from 14/01/2022 to 14/01/2022

FLUSHING MEDIUM N/A

ORIENTATION Vertical

GROUND LEVEL + 5.33 mPD

Progress	Water Depth (m)	Samples		Reduced Level	Depth (m)	Legend	Grade	Description
		No.	Type Depth					
14/01/2022	10:00			5.33	0.00			Dark brown, BRICK.
				5.28	0.05			0.00 - 0.80m: Masonry wall. (Face A)
				5.13	0.20			Loose, dry, brownish grey, slightly silty fine to coarse SAND with some subangular fine to coarse gravel sized concrete fragments. (FILL)
								Dense, moist, brown, slightly fine to coarse SAND with occasional subangular fine to coarse gravel sized rock and bitumen fragments. (FILL)
		1	● 0.50	4.73	0.60			0.60 - 0.71m: Grey, 2 nos. of PVC pipes (Dia. 110mm) were encountered on face B and D.
				4.62	0.71			
14/01/2022	16:00	2	● 0.80	4.53	0.80			End of inspection pit at 0.80m depth.
								Bottom: Grey, CONCRETE.

● Small disturbed sample

■ U76 undisturbed sample

■ U100 undisturbed sample

▲ Water sample

↑ Large disturbed sample

⬆ Standpipe tip

⬆ Piezometer tip

LOGGED M H CHIU

DATE 15/01/2022

CHECKED K M LO

DATE 17/01/2022

REMARKS
1. Small disturbed samples were taken at 0.50m and 0.80m depths.



INSPECTION PIT RECORD

HOLE No.
IP03

SHEET 1 of 1

PROJECT Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

METHOD HAND DUG

CO-ORDINATES

PROJECT NO. J3957

MACHINE & No. N/A

E 837232.82
N 815413.37

DATE from 17/01/2022 to 17/01/2022

FLUSHING MEDIUM N/A

ORIENTATION Vertical

GROUND LEVEL + 4.94 mPD

Progress	Water Depth (m)	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
		No. Type Depth					
17/01/2022	10:00		4.94	0.00			Grey, CONCRETE surface.
			4.89	0.05			0.00 - 0.60m: Masonry wall. (Face A)
							Loose, dry, grey, subangular fine to coarse GRAVEL and COBBLE sized rock and concrete fragments in sandy silty matrix. (FILL)
			4.64	0.30			
		1 ● 0.50					Dense, moist, brown, slightly silty fine to coarse SAND with occasional subangular fine to coarse gravel and cobble sized rock and concrete fragments. (FILL)
			4.34	0.60			
			4.19	0.75			0.60 - 0.75m: Brownish grey, CONCRETE was encountered on face A.
		2 ● 1.00					
17/01/2022	16:00	3 ● 1.10	3.84	1.10			End of inspection pit at 1.10m depth.
							Bottom: Grey, 2 nos. of PVC pipes (Dia. 80mm).
				3.00			

● Small disturbed sample

■ U76 undisturbed sample

■ U100 undisturbed sample

▲ Water sample

↑ Large disturbed sample

△ Standpipe tip

▲ Piezometer tip

LOGGED M H CHIU
DATE 18/01/2022
CHECKED K M LO
DATE 19/01/2022

REMARKS
1. Small disturbed samples were taken at 0.50m, 1.00m and 1.10m depths.

PROJECT Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

METHOD	HAND DUG	CO-ORDINATES	PROJECT NO.				J3957		
MACHINE & No.	N/A		E	837244.02		DATE from	17/01/2022	to	17/01/2022
		N	815402.69						
FLUSHING MEDIUM	N/A	ORIENTATION	Vertical		GROUND LEVEL	+ 5.17		mPD	

Progress	Water Depth (m)	Samples		Reduced Level	Depth (m)	Legend	Grade	Description
		No.	Type Depth					
17/01/2022	10:00			5.17	0.00			Grey, CONCRETE surface. 0.00 - 0.25m: Masonry wall. (Face A) Loose, moist, brown, slightly silty fine to coarse SAND with occasional subangular fine to coarse gravel sized rock and concrete fragments. (FILL) 0.20m: Blue, 2 nos. of PVC pipes (Dia.60mm) were encountered on face B and D. 0.20 - 0.30m: Grey, CONCRETE was encountered on face A, B and D.
				5.12	0.05			
				4.97	0.20			
				4.92	0.25			
				4.87	0.30			
17/01/2022	16:00	1	0.40	4.77	0.40			End of inspection pit at 0.40m depth.
					3.00			

Small disturbed sample

U76 undisturbed sample

U100 undisturbed sample

Water sample

Large disturbed sample

Standpipe tip

Piezometer tip

LOGGED

M H CHIU

DATE

18/01/2022

CHECKED

K M LO

DATE

19/01/2022

REMARKS

1. Small disturbed sample was taken at 0.40m depth.

PROJECT Ground Investigation Works for the Commercial Development on IL No. 8945, Causeway Bay, Hong Kong

METHOD	HAND DUG	CO-ORDINATES	PROJECT NO.	J3957
MACHINE & No.	N/A	E 837312.39 N 815365.00	DATE from	18/01/2022 to 18/01/2022
FLUSHING MEDIUM	N/A	ORIENTATION	Vertical	GROUND LEVEL + 5.91 mPD

Progress	Water Depth (m)	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
18/01/2022	10:00		5.91	0.00			Grey, CONCRETE surface.
			5.81	0.10			0.00 - 0.20m: Grey, CONCRETE DRAINAGE CHANNEL was encountered on face A.
			5.76	0.15			Dense, moist, brown, silty fine to coarse SAND with some subangular fine to coarse gravel sized rock and concrete fragments. (FILL)
			5.71	0.20			0.15 - 0.30m: Grey and dark grey, subangular fine to coarse GRAVEL sized concrete and bitumen fragments in sandy silty matrix. (Face D)
			5.61	0.30			0.30 - 2.00m: Loose, with some cobble and boulder sized rock fragments. (Face A, B and D)
		1 ● 0.50					
		2 ● 1.00					
		3 ● 1.50					
18/01/2022	16:00	4 ● 2.00	3.91	2.00			End of inspection pit at 2.00m depth.
				3.00			
		<div> <div> <div>●</div> <div>Small disturbed sample</div> </div> <div> <div>■</div> <div>U76 undisturbed sample</div> </div> <div> <div>▲</div> <div>U100 undisturbed sample</div> </div> <div> <div>▲</div> <div>Water sample</div> </div> <div> <div>↓</div> <div>Large disturbed sample</div> </div> <div> <div>⬆</div> <div>Standpipe tip</div> </div> <div> <div>⬆</div> <div>Piezometer tip</div> </div> </div> <div> LOGGED <u>M H CHIU</u> DATE <u>19/01/2022</u> CHECKED <u>K M LO</u> DATE <u>20/01/2022</u> </div> <div> REMARKS 1. Small disturbed samples were taken at 0.50m, 1.00m, 1.50m and 2.00m depths. </div>					

Adjacent Ground
Investigation Records -
GIU Report
No. 68444

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH 1	
				SHEET 1 of 4	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 191.24 N 815 245.63		W.O. No. ASD 012560	
MACHINE / No. CCL-6				DATE from 03/10/2020 to 09/10/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +14.31 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
03/10/2020	SW	Dry at 08:00								+14.21	0.10			CONCRETE SLAB.
03/10/2020		Dry at 18:00							A 0.45 0.50					Grey (N6), silty fine to medium SAND with much angular to subangular fine to coarse gravel sized strong granite, concrete, cement sand mortar and brick fragments. (FILL)
07/10/2020		Dry at 08:00							B 0.90 0.95	+13.36	0.95			Grey (N6), angular coarse GRAVEL and COBBLE sized moderately strong to strong granite, concrete, brick and wood fragments. (FILL)
				87					T6-146					
				80										
				46					T6-146					
	4.00 SW													
	PW													
								(1, 2, 2, 2, 2, 4) N = 10	1 3.90 2 4.00 3 4.40 4 4.45	+10.41	3.90			Stiff, red (2.5YR 4/8), sandy clayey SILT with occasional fine to medium gravel sized moderately weak to moderately strong granite. (FILL)
									4.90					
				180					3					
								(2, 2, 2, 2, 3, 3) N = 10	4 5.90 5 6.00 6 6.10 7 6.40 8 6.45					
									6.90					
				70					7					
				180					8 7.90 9 8.00 10 8.10 11 8.40 12 8.45	+7.41	6.90			Stiff to very stiff, yellowish red (5YR 5/8), sandy clayey SILT with some fine gravel of quartz. (FILL)
								(2, 2, 2, 2, 2, 5) N = 11	8.90					
				180					11					
									12 9.90	+4.31	10.00			

<ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ⊥ Standard Penetration Test ⊥ Permeability Test ⊥ Impression Packer Test ⊥ Borehole Televiwer Test ⊥ Pressuremeter Test ⊥ Standpipe Tip ⊥ Piezometer Tip ⊥ In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 10/01/2020 CHECKED BY PETER CHU DATE 12/10/2020	REMARKS 1. Inspection pit excavated from 0.00m-0.95m.
---	---	--	--

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 1

SHEET 2 of 4

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-6

E 837 191.24

DATE from 03/10/2020 to 09/10/2020

N 815 245.63

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +14.31 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(1, 2, 4, 11, 5, 8) N = 28	13 14	10.00 10.10 10.40 10.45				As Sheet 1 of 4.
				100					15	10.90	+3.41	10.90		Stiff, light grey (N7), sandy clayey SILT with some subangular fine gravel of quartz. (ALLUVIUM)
								(1, 2, 4, 5, 5, 8) N = 22	16 17 18	11.90 12.00 12.40 12.45	+2.31	12.00		Very stiff, brown (10YR 5/3) spotted white and grey, sandy clayey SILT with some fine gravel. (ALLUVIUM)
				95					19	12.90	+1.41	12.90		Very stiff, light grey (N7), sandy clayey SILT with some fine gravel. (ALLUVIUM)
		0.40m at 18:00						(2, 3, 4, 6, 4, 6) N = 20	20 21 22	13.90 14.00 14.10 14.40 14.45	+0.31	14.00		Extremely weak, reddish yellow (5YR 6/8), completely decomposed medium grained GRANITE. (Very stiff, sandy clayey SILT with some fine gravel)
07/10/2020		1.80m at 08:00							23	14.90			V	
08/10/2020			70	100				(6, 17, 10, 9, 11, 12) N = 42	24 25 26	15.90 16.00 16.10 16.40 16.45	-1.69	16.00		Extremely weak, reddish yellow (5YR 6/8) to light red (10R 7/8), completely decomposed medium grained GRANITE. (Clayey silty medium to coarse SAND with some fine gravel)
									27	16.90			V	
				100				(3, 6, 10, 12, 13, 17) N = 52	28 29 30	17.90 18.00 18.10 18.40 18.45	-3.69	18.00		Extremely weak, red (10R 5/6), completely decomposed medium grained GRANITE. (Slightly clayey silty medium to coarse SAND with much fine to medium gravel)
									31	18.90	-4.59	18.90		Extremely weak, yellowish brown (10YR 5/8) to red (10R 5/6), completely decomposed medium grained GRANITE. (Medium to coarse SAND with some fine gravel)
				100					32	19.90	-5.69	20.00		
<div><div><div>● Small Disturbed Sample</div><div>┆ Large Disturbed Sample</div><div>▮ SPT Liner Sample</div><div>▨ U76 Undisturbed Sample</div><div>■ U100 Undisturbed Sample</div><div>▩ Mazier Sample</div><div>▭ Piston Sample</div><div>▲ Water Sample</div></div><div><div>┆ Standard Penetration Test</div><div>┆ Permeability Test</div><div>┆ Impression Packer Test</div><div>┆ Borehole Televiwer Test</div><div>┆ Pressuremeter Test</div><div>┆ Standpipe Tip</div><div>┆ Piezometer Tip</div><div>┆ In-situ Vane Shear Test</div></div></div>										LOGGED BY CALVIN TSANG DATE 10/01/2020 CHECKED BY PETER CHU DATE 12/10/2020		REMARKS		

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH 1	
		CONTRACT No. TC G518		SHEET 3 of 4	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 191.24 N 815 245.63		W.O. No. ASD 012560	
MACHINE / No. CCL-6				DATE from 03/10/2020 to 09/10/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +14.31 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
	22.00 PW HW		70					(2, 8, 17, 19, 24, 30) N = 90 (5, 10, 12, 14, 19, 32) N = 77 (7, 12, 18, 22, 31, 45) N = 116 (50/50mm 200/70mm) 200b/s/70mm	33 20.00 34 20.10 34 20.40 34 20.45 35 22.00 36 22.10 36 22.40 36 22.45 37 24.00 38 24.10 38 24.40 38 24.45 39 26.00 26.07 26.12					As Sheet 2 of 4.
	26.13 HW									-11.69	26.00			Weak, yellowish brown (10YR 5/4), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)
										-13.65	27.96			Strong, pinkish grey spotted black, slightly decomposed slightly epidotized medium grained GRANITE. Joints are closely to medium spaced, smooth planar, extremely narrow, iron oxide stained, epidote coated, dipping at 0°-10° and 10°-20°. 28.81- 29.33m: Fine grained GRANITE.
										-14.50	28.81			
										-15.02	29.33			
										-15.69	30.00			

<ul style="list-style-type: none"> ● Small Disturbed Sample ┆ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ┆ Standard Penetration Test ┆ Permeability Test ┆ Impression Packer Test ┆ Borehole Televiwer Test ┆ Pressuremeter Test ┆ Standpipe Tip ┆ Piezometer Tip ┆ In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 10/01/2020 CHECKED BY PETER CHU DATE 12/10/2020	REMARKS
---	---	--	---------



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 1

SHEET 4 of 4

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-6

E 837 191.24

DATE from 03/10/2020 to 09/10/2020

N 815 245.63

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +14.31 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
														As Sheet 3 of 4.
		0.50m at 18:00		100	99	86	10.9		T2-101	-16.24	30.55	+	II	
										-16.29	30.60	+	III	
										-16.43	30.74	+	II	30.55- 30.60m: PEGMATITE.
08/10/2020		1.50m at 08:00					2.7		30.97	-16.59	30.90	+	II	30.60- 30.74m: Moderately strong, moderately decomposed.
09/10/2020										-16.71	31.02	+	III	
			80	100	100	91	15.4		T2-101	-17.12	31.43	+	II	30.90- 31.02m: Fine grained GRANITE.
										-17.21	31.52	+	III	
										-17.36	31.67	+	II	31.02- 31.43m: Moderately strong, moderately decomposed.
										-17.44	31.75	+	II	31.43- 31.52m: Fine grained GRANITE.
										-17.51	31.82	+	II	31.52- 31.75m: Moderately strong, moderately decomposed.
09/10/2020		1.00m at 18:00		99	96	95	4.5		T2-101			+	II	31.67- 31.82m: Fine grained GRANITE.
										-18.97	33.28	+	II	End of drillhole at 33.28m.

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- ▨ Mazier Sample
- Piston Sample
- ▲ Water Sample
- ↓ Standard Penetration Test
- ↓ Permeability Test
- ↓ Impression Packer Test
- ↓ Borehole Televiwer Test
- ↓ Pressuremeter Test
- ↓ Standpipe Tip
- ↓ Piezometer Tip
- ✓ In-situ Vane Shear Test


LOGGED BY
CALVIN TSANG


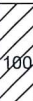
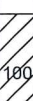
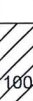

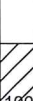
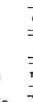

DATE
10/01/2020

CHECKED BY
PETER CHU

DATE
12/10/2020

REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH 2 SHEET 1 of 4										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 200.51 N 815 255.43		W.O. No. ASD 012560										
MACHINE / No. CCL-3				DATE from 10/09/2020 to 23/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +14.45 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
10/09/2020	SW	Dry at 08:00								+14.05	0.40			CONCRETE SLAB.
10/09/2020		Dry at 08:00								+14.00	0.45			Dark grey (N4), silty fine to medium SAND with much angular to subangular fine to medium gravel sized granite, concrete and brick fragments. (FILL)
18/09/2020			87						T2-101		1.50			Grey (N5), angular COBBLE sized reinforced concrete fragments. (FILL)
			80						T2-101					Grey (N5) and red (10R 4/8), angular coarse GRAVEL and COBBLE sized concrete and brick fragments. (FILL)
			42							+11.95	2.50			Stiff, reddish brown (5YR 5/4), sandy clayey SILT. (FILL)
			70					(1, 1, 2, 2, 3, 5) N = 12	1 2	+11.45	3.00			Grey (N5) and red (10R 4/8), angular to subangular COBBLE with some coarse gravel sized concrete and brick fragments. (FILL)
	4.06 SW PW		84						T2-101		4.06			Grey (N5), reinforced CONCRETE.
			80						T2-101					
		1.35m at 18:00	100						T2-101		5.52			
18/09/2020		1.50m at 08:00	100						T2-101		5.79			
19/09/2020								(2, 2, 3, 4, 5, 5) N = 17	3 4	+8.66	5.79			Very stiff, yellowish red (5YR 5/8) to reddish yellow (5YR 7/8), sandy clayey SILT with some fine gravel of quartz. (ALLUVIUM)
									5		6.70			
			100						6		7.70			
								(1, 1, 2, 3, 4, 6) N = 15	7 8		7.80			
			70						9		8.20			
									10		8.25			
											8.70			
			100								9.70			
											9.80			
											9.90			
										+4.45	10.00			
● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test		LOGGED BY CALVIN TSANG DATE 23/09/2020 CHECKED BY PETER CHU DATE 24/09/2020		REMARKS 1. Inspection pit excavated from 0.00m-0.45m.	

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518										DRILLHOLE No. BH 2	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																					
METHOD ROTARY CORED										CO-ORDINATES E 837 200.51 N 815 255.43										W.O. No. ASD 012560	
MACHINE / No. CCL-3																				DATE from 10/09/2020 to 23/09/2020	
FLUSHING MEDIUM WATER										ORIENTATION Vertical										GROUND LEVEL +14.45 mP.D.	
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description							
19/09/2020 21/09/2020	11.30m at 18:00 11.30m at 08:00			 100				(1, 2, 2, 3, 5, 7) N = 17	11	10.20				As Sheet 1 of 4.							
									12	10.25											
									13	10.70											
									14	11.70	+2.65	11.80									
									15	11.80											
									16	12.20											
									17	12.25											
									18	12.70	+1.75	12.70									
									19	13.70	+0.65	13.80									
									21/09/2020 22/09/2020	17.80 PW 11.30m at 18:00 11.30m			 100					(2, 2, 4, 4, 5, 6) N = 19	20	14.20	
21	14.25																				
22	14.70	-0.25	14.70																		
23	15.70	-1.35	15.80																		
24	15.80																				
25	16.20																				
26	16.25																				
27	16.70																				
28	17.70																				
29	17.80																				
21/09/2020 22/09/2020	17.80 PW 11.30m at 18:00 11.30m			 100				(3, 4, 4, 5, 5, 7) N = 21	30	19.70	-5.35	19.80		Very stiff, reddish yellow (5YR 6/8), sandy clayey SILT with much subangular fine gravel of quartz and feldspar. (ALLUVIUM)							
									31	19.80											
									32	19.90											
									33	18.20											
									34	18.25											
									35	18.70											
									36	17.70											
									37	17.80											
									38	17.90											
									39	18.20											
21/09/2020 22/09/2020	17.80 PW 11.30m at 18:00 11.30m			 100				(2, 5, 9, 13, 15, 19) N = 56	40	18.70				Very stiff, light grey (N7) dappled reddish yellow, sandy clayey SILT with much subangular fine gravel of quartz and feldspar. (ALLUVIUM)							
									41	17.70											
									42	17.80											
									43	17.90											
									44	18.20											
									45	18.25											
									46	18.70											
									47	19.70	-5.35	19.80									
									48	19.80											
									49	19.90	-5.55	20.00									
21/09/2020 22/09/2020	17.80 PW 11.30m at 18:00 11.30m			 100				(3, 4, 8, 12, 15, 18) N = 53	50	18.70				Light grey (N7), clayey silty coarse SAND with much subangular fine gravel of quartz and feldspar. (ALLUVIUM)							
									51	17.70											
									52	17.80											
									53	17.90											
									54	18.20											
									55	18.25											
									56	18.70											
									57	19.70	-5.35	19.80									
									58	19.80											
									59	19.90	-5.55	20.00									
21/09/2020 22/09/2020	17.80 PW 11.30m at 18:00 11.30m			 100				(3, 4, 8, 12, 15, 18) N = 53	60	18.70				Extremely weak, reddish yellow (5YR 7/8), completely decomposed medium grained GRANITE. (Slightly clayey silty medium to coarse SAND with some fine gravel)							
									61	17.70											
									62	17.80											
									63	17.90											
									64	18.20											
									65	18.25											
									66	18.70											
									67	19.70	-5.35	19.80									
									68	19.80											
									69	19.90	-5.55	20.00									
21/09/2020 22/09/2020	17.80 PW 11.30m at 18:00 11.30m			 100				(3, 4, 8, 12, 15, 18) N = 53	70	18.70				Extremely weak, yellowish red (5YR 5/8), completely							
									71	17.70											
									72	17.80											
									73	17.90											
									74	18.20											
									75	18.25											
									76	18.70											
									77	19.70	-5.35	19.80									
									78	19.80											
									79	19.90	-5.55	20.00									

- Small Disturbed Sample
- ▬ Large Disturbed Sample
- ▬ SPT Liner Sample
- ▨ U76 Undisturbed Sample
- ▩ U100 Undisturbed Sample
- ▨ Mazier Sample
- ▩ Piston Sample
- ▲ Water Sample
- ┆ Standard Penetration Test
- ┆ Permeability Test
- ┆ Impression Packer Test
- ┆ Borehole Televiwer Test
- ┆ Pressuremeter Test
- ┆ Standpipe Tip
- ┆ Piezometer Tip
- ┆ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
23/09/2020

CHECKED BY
PETER CHU

DATE
24/09/2020

REMARKS

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH 2										
				SHEET 3 of 4										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 200.51 N 815 255.43		W.O. No. ASD 012560										
MACHINE / No. CCL-3				DATE from 10/09/2020 to 23/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +14.45 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
		at 08:00						(4, 5, 7, 12, 15, 21) N = 55	31 20.20 32 20.25					decomposed fine grained GRANITE. (Slightly clayey silty fine to medium SAND)
								(5, 9, 16, 18, 19, 21) N = 74	33 21.80 34 21.90 35 22.20 36 22.25				V	
								(6, 12, 15, 17, 18, 20) N = 70	35 23.80 36 23.90 37 24.20 38 24.25	-9.35	23.80			Extremely weak, pinkish grey (5YR 7/2), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)
			70					(7, 13, 15, 18, 20, 21) N = 74	37 25.80 38 25.90 39 26.20 40 26.25				V	
								(8, 15, 21, 38, 45, 53) N = 157	39 27.80 40 27.90 41 28.20 42 28.25	-13.35	27.80			Extremely weak, yellowish red (5YR 5/8), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine gravel)
	29.79 HW								29.79	-15.25	29.70			
			80	100	20	0	NA		T2-101	-15.55	30.00		IV	Moderately weak, brown (10YR 4/3), highly
<div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> ⊥ Standard Penetration Test ⊥ Permeability Test ⊥ Impression Packer Test ⊥ Borehole Televiwer Test ⊥ Pressuremeter Test ⊥ Standpipe Tip ⊥ Piezometer Tip ✓ In-situ Vane Shear Test </div> </div>								LOGGED BY CALVIN TSANG DATE 23/09/2020 CHECKED BY PETER CHU DATE 24/09/2020		REMARKS				

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 2

SHEET 4 of 4

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-3

E 837 200.51

DATE from 10/09/2020 to 23/09/2020


N 815 255.43

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +14.45 mP.D.

[illegible]

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH 3 SHEET 1 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 210.82 N 815 266.33		W.O. No. ASD 012560	
MACHINE / No. CS60				DATE from 26/09/2020 to 07/10/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.20 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
26/09/2020	SW	Dry at 08:00								+15.05	0.15			CONCRETE SLAB.	
26/09/2020		Dry at 18:00												Firm to stiff, yellowish red (5YR 5/8), silty clayey fine to medium SAND with some subangular fine gravel sized moderately strong quartz and granite. (FILL)	
03/10/2020		Dry at 08:00						(2, 2, 1, 2, 2, 2) N = 7	A 0.45 B 0.95 C 1.45 D 1.95 1 2.10 2 2.40 2.45						
									2.90				3		
								(2, 2, 2, 2, 2, 3) N = 9	4 3.90 5 4.00 6 4.40 4.45				4		
	4.00 SW PW								4.90				7		
								(2, 2, 3, 2, 3, 3) N = 10	8 5.90 9 6.00 10 6.10 6.40 6.45				8		
									6.90				11		
								(3, 3, 2, 3, 3, 3) N = 11	12 7.90 13 8.00 14 8.40 8.45				12		
									8.90	+6.30	8.90		15		
									9.90	+5.20	10.00		16		
															Very stiff, brown (10YR 4/3), sandy clayey SILT with occasional angular to subangular fine gravel. (FILL)

<ul style="list-style-type: none"> Small Disturbed Sample Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample Water Sample 	<ul style="list-style-type: none"> Standard Penetration Test Permeability Test Impression Packer Test Borehole Televier Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 08/10/2020 CHECKED BY PETER CHU DATE 09/10/2020	REMARKS 1. Inspection pit excavated from 0.00m-2.00m.
---	--	--	--

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH 3	
		CONTRACT No. TC G518		SHEET 2 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 210.82 N 815 266.33		W.O. No. ASD 012560	
MACHINE / No. CS60				DATE from 26/09/2020 to 07/10/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.20 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description							
<div style="font-size: 0.8em;"> 3/10/2020 5/10/2020 </div>	4.00m at 18:00 4.50m at 08:00							(3, 3, 4, 4, 4, 4, 5) N = 17	17 18	10.00 10.10 10.40 10.45				As Sheet 1 of 5.							
									19	10.90	+4.30	10.90		Light grey (N7), silty slightly clayey medium to coarse SAND. (ALLUVIUM)							
									20	11.90	+3.20	12.00		Very stiff to hard, reddish yellow (5YR 7/8) to yellowish red (5YR 5/8), sandy clayey SILT with some subangular fine gravel of quartz. (ALLUVIUM)							
									21	12.00											
									22	12.40											
									23	12.45											
															32 bls	24	12.90				
																25	14.00				
																26	14.10				
																27	14.40				
																28	14.45				
																29	14.90	+0.30	14.90		Stiff, reddish yellow (5YR 7/8), silty CLAY. (ALLUVIUM)
																30	15.90	-0.80	16.00		Very stiff, grey (N5), silty CLAY. (ALLUVIUM)
																31	16.00				
																32	16.10				
																33	16.40				
																34	16.45				
																35	16.90	-1.70	16.90		Medium dense, light grey (N7), silty clayey fine to medium SAND. (ALLUVIUM)
								36	17.90												
								37	18.00												
								38	18.10												
								39	18.40												
								40	18.45												
								41	18.90	-3.70	18.90		Extremely weak, yellowish red (5YR 5/8), completely decomposed medium grained GRANITE. (Slightly clayey silty medium to coarse SAND with some fine gravel)								
								42	19.90												
								43	19.90	-4.80	20.00										

<ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ⬇ Standard Penetration Test ⬇ Permeability Test ⬇ Impression Packer Test ⬇ Borehole Televiwer Test ⬇ Pressuremeter Test ⬇ Standpipe Tip ⬇ Piezometer Tip ⬇ In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 08/10/2020 CHECKED BY PETER CHU DATE 09/10/2020	REMARKS
---	---	--	---------

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH 3	
		SHEET 3 of 5			
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 210.82 N 815 266.33		W.O. No. ASD 012560	
MACHINE / No. CS60				DATE from 26/09/2020 to 07/10/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.20 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
	HW							(6, 8, 10, 14, 18, 25) N = 67	37 20.00 38 20.10 38 20.40 38 20.45	-6.80	22.00	V	As Sheet 2 of 5.	
									39 22.00 40 22.10 40 22.40 40 22.45				V	Extremely weak, yellowish brown (10YR 5/8), completely decomposed medium grained GRANITE. (Slightly clayey silty fine to medium SAND with occasional fine gravel)
									41 24.00 42 24.10 42 24.40 42 24.45					
									43 26.00 44 26.25 44 26.30					
									45 28.00 45 28.10 45 28.15					
		6.20m at 18:00 6.50m at 08:00						(15, 24, 25, 33, 42, 55) N = 155						
								(11, 15, 12, 9, 15, 28) N = 64						
								(15, 35, 66, 134/75mm) 200bls/150mm						
								(50/75mm) 200/75mm 200bls/75mm						
								(50/50mm)						
										-14.80	30.00			

<ul style="list-style-type: none"> ● Small Disturbed Sample ┆ Large Disturbed Sample ▤ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▧ Mazier Sample ▦ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ┆ Standard Penetration Test ┆ Permeability Test ┆ Impression Packer Test ┆ Borehole Televiwer Test ┆ Pressuremeter Test ┆ Standpipe Tip ┆ Piezometer Tip ┆ In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 08/10/2020 CHECKED BY PETER CHU DATE 09/10/2020	REMARKS
---	---	--	---------

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 3

SHEET 4 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CS60

E 837 210.82

DATE from 26/09/2020 to 07/10/2020



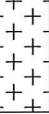
N 815 266.33

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.20 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(200/70mm) 200bls/70mm	46 30.00 30.07 30.12					Weak, yellowish red (5YR 5/8), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)
			70					(50/50mm) (200/70mm) 200bls/70mm	47 32.00 32.07 32.12				IV	
								(50/40mm) (200/60mm) 200bls/60mm	48 34.00 34.05 34.10					
	35.45 HW			96	68	68	NI		T2-101	35.45	-20.25	35.45		Moderately strong, greenish grey, moderately decomposed epidotized medium grained GRANITE. Joints are closely to medium spaced, rough and smooth planar, extremely narrow, iron oxide stained, epidote coated, dipping at 20°-30°, 50°-60°, 60°-70° and 70°-80°. 35.45- 35.87m: Fine grained GRANITE with pegmatite.
							5.6			35.92	-20.67	35.87		
				100	92	69	13.3		T2-101				III	
			80				2.8			37.36				Strong, pink dappled green, slightly decomposed slightly epidotized medium grained GRANITE. No joint.
				100	92	92			T2-101		-23.49	38.69		
							0.0			38.90			II	
				100	100	100			T2-101		-24.80	46.00		
<div><div><div>● Small Disturbed Sample</div><div>┆ Large Disturbed Sample</div><div>▢ SPT Liner Sample</div><div>▨ U76 Undisturbed Sample</div><div>■ U100 Undisturbed Sample</div><div>▤ Mazier Sample</div><div>▣ Piston Sample</div><div>▲ Water Sample</div></div><div><div>┆ Standard Penetration Test</div><div>● Permeability Test</div><div>┆ Impression Packer Test</div><div>┆ Borehole Televiwer Test</div><div>┆ Pressuremeter Test</div><div>┆ Standpipe Tip</div><div>┆ Piezometer Tip</div><div>┆ In-situ Vane Shear Test</div></div></div>									LOGGED BY CALVIN TSANG DATE 08/10/2020 CHECKED BY PETER CHU DATE 09/10/2020			REMARKS		

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518										DRILLHOLE No. BH 3			
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																							
METHOD ROTARY CORED										CO-ORDINATES E 837 210.82 N 815 266.33										W.O. No. ASD 012560			
MACHINE / No. CS60																				DATE from 26/09/2020 to 07/10/2020			
FLUSHING MEDIUM WATER										ORIENTATION Vertical										GROUND LEVEL +15.20 mP.D.			
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description									
06/10/2020 07/10/2020	6.80m at 08:00 7.00m at 08:00	80	100	100	100	0.0			 T2-101 40.40 T2-101 41.01	-25.81	41.01	 II	As Sheet 4 of 5.										
														End of drillhole at 41.01m.									
<ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 										<ul style="list-style-type: none"> Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test 										LOGGED BY CALVIN TSANG DATE 08/10/2020 CHECKED BY PETER CHU DATE 09/10/2020		REMARKS	

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 4

SHEET 1 of 4

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 202.14

DATE from 03/10/2020 to 09/10/2020

N 815 235.32

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.38 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
03/10/2020	SW	Dry at 08:00								+15.28	0.10			CONCRETE SLAB. Reddish brown (5YR 4/3), medium to coarse SAND with much angular to subangular fine to coarse gravel sized concrete, wood and plastic fragments. (FILL)
03/10/2020 07/10/2020		Dry at 18:00							A 0.45 B 0.50	+14.28	1.10			Grey (N6), angular to subangular coarse GRAVEL and COBBLE sized moderately strong to strong granite, concrete, steel, wood, glass and brick fragments. (FILL)
		Dry at 08:00							T6-120 C 0.95 1.00 1.05 1.10					
			80						2.20 T6-120					
									3.70 T6-120					
									5.00 T6-120					
									5.50 T6-120					
	6.00 SW PW							(2, 3, 4, 3, 3) N = 13	6.00 1 6.10 2 6.40 6.45	+9.38	6.00			Stiff, red (10R 5/6), sandy clayey SILT. (FILL)
									6.90 3					
			70					(3, 4, 5, 4, 5) N = 18	7.90 4 8.00 5 8.10 6 8.40 8.45	+7.48	7.90			Very stiff, reddish brown (5YR 5/3), sandy clayey SILT. (FILL)
									8.90 7	+6.48	8.90			Very stiff, yellowish brown (10YR 5/8), sandy clayey SILT. (ALLUVIUM)
									9.90 8	+5.38	10.00			

●

Small Disturbed Sample

⊥

Large Disturbed Sample

□

SPT Liner Sample

▨

U76 Undisturbed Sample

■

U100 Undisturbed Sample

▤

Mazier Sample

□

Piston Sample

▲

Water Sample

|

Standard Penetration Test

•

Permeability Test

┃

Impression Packer Test

┃

Borehole Televiewer Test

┃

Pressuremeter Test

⌚

Standpipe Tip

⬆

Piezometer Tip

<

In-situ Vane Shear Test

LOGGED BY

CALVIN TSANG

DATE

10/09/2020

CHECKED BY

PETER CHU

DATE

12/09/2020

REMARKS

1. Inspection pit excavated from 0.00m-1.10m.

2. A piezometer tip was installed at 28.00m depth.

3. A standpipe was installed to 25.00m depth.

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 4

SHEET 2 of 4

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 202.14

DATE from 03/10/2020 to 09/10/2020

N 815 235.32

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.38 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
<div>07/10/2020</div> <div>08/10/2020</div>	20.00 PW	6.20m at 18:00 4.00m at 08:00	<div>Water</div> <div>Recovery %</div> <div>Total core Recovery %</div> <div>Solid core Recovery %</div> <div>R.Q.D.</div> <div>Fracture Index</div>	<div>(7, 6, 4, 4, 5, 4) N = 17</div> <div>(6, 7, 5, 4, 6, 5) N = 20</div> <div>32 bls</div> <div>(8, 9, 12, 14, 25, 41) N = 92</div> <div>(9, 11, 13, 17, 25, 44) N = 100</div> <div>(14, 17, 19, 25, 37, 55) N = 136</div>	9	10.00	<div>+4.48</div> <div>+2.48</div> <div>-4.62</div>	10.10	<div>V</div>	As Sheet 1 of 4.				
					10	10.40		10.90			Medium dense, yellowish brown (10TYR 5/8), silty slightly clayey medium to coarse SAND. (ALLUVIUM)			
					11	10.90		<div>10.90</div> <div>12.90</div> <div>20.00</div>			12	11.90	Extremely weak, yellowish brown (10YR 5/8) to light red (2.5YR 6/6) spotted white and grey, completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with much fine gravel)	
					13	12.00								
					14	12.40								
					15	12.45								
					16	12.90								
					17	13.35								
					18	13.40								
					19	14.00								
					20	14.10								
					21	14.40								
					22	14.45								
					23	14.90								
					24	15.90								
					25	16.00								
					26	16.10								
					27	16.40								
					28	16.45								
					29	16.90								
					30	17.90								
					31	18.00								
					32	18.10								
					33	18.40								
					34	18.45								
					35	18.90								
					36	19.90								

●

Small Disturbed Sample

┆

Large Disturbed Sample

▢

SPT Liner Sample

▨

U76 Undisturbed Sample

■

U100 Undisturbed Sample

▤

Mazier Sample

▣

Piston Sample

▲

Water Sample

┆

Standard Penetration Test

●

Permeability Test

┆┆

Impression Packer Test

┆┆┆

Borehole Televiwer Test

┆┆┆┆

Pressuremeter Test

┆┆┆┆┆

Standpipe Tip

┆┆┆┆┆┆

Piezometer Tip

┆┆┆┆┆┆┆

In-situ Vane Shear Test

LOGGED BY

CALVIN TSANG

DATE

10/09/2020

CHECKED BY

PETER CHU

DATE


12/09/2020

REMARKS

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH 4	
		CONTRACT No. TC G518		SHEET 3 of 4	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED			CO-ORDINATES E 837 202.14 N 815 235.32		W.O. No. ASD 012560
MACHINE / No. CCL-1					DATE from 03/10/2020 to 09/10/2020
FLUSHING MEDIUM WATER			ORIENTATION Vertical		GROUND LEVEL +15.38 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
	HW							(11, 17, 29, 38, 51, 67) N = 185	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></div> <div> 29 20.00 30 20.10 30 20.40 30 20.45 </div> </div>					As Sheet 2 of 4.
			70					(50/60mm I 200/50mm) 200bts/50mm	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></div> <div> 31 22.00 31 22.06 31 22.11 </div> </div>	-6.62	22.00		V	Weak, yellowish brown (10YR 5/8), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)
							(50/50mm I 200/50mm) 200bts/50mm	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></div> <div> 32 24.00 32 24.05 32 24.10 </div> </div>				IV		
							(50/50mm I 200/40mm) 200bts/40mm	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></div> <div> 33 26.00 33 26.04 33 26.09 </div> </div>						
			80	100	87	77	6.1 20	(50/50mm I 200/50mm) 200bts/50mm	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></div> <div> 27.94 T2-101 28.81 28.90 28.95 29.00 29.38 T2-101 </div> </div>	-12.56 -12.75 -13.09 -13.20 -13.43	27.94 28.13 28.47 28.58 28.81		III	Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are very closely to closely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10°, 10°-20° and 40°-50°.
	29.35 HW		70				(50/50mm I 200/50mm) 200bts/50mm	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></div> <div> 34 28.81 28.90 29.00 </div> </div>	-14.00 -14.16 -14.32 -14.62	29.38 29.54 29.70 30.00		IV	28.13- 28.47m: With very closely spaced subhorizontal microfractures.	
			80	100	95	89	NI 5.3							28.58- 28.81m: With very closely spaced subhorizontal microfractures.

<ul style="list-style-type: none"> ● Small Disturbed Sample ▬ Large Disturbed Sample ▬ SPT Liner Sample ▬ U76 Undisturbed Sample ▬ U100 Undisturbed Sample ▬ Mazier Sample ▬ Piston Sample ▲ Water Sample ▬ Standard Penetration Test ▬ Permeability Test ▬ Impression Packer Test ▬ Borehole Televiwer Test ▬ Pressuremeter Test ▬ Standpipe Tip ▬ Piezometer Tip ▬ In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 10/09/2020 CHECKED BY PETER CHU DATE 12/09/2020	REMARKS
--	--	---------

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH 4 SHEET 4 of 4														
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																		
METHOD ROTARY CORED		CO-ORDINATES E 837 202.14 N 815 235.32		W.O. No. ASD 012560														
MACHINE / No. CCL-1				DATE from 03/10/2020 to 09/10/2020														
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.38 mP.D.														
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description				
08/10/2020 09/10/2020 09/10/2020	6.00m at 18:00 4.00m at 08:00 6.00m at 18:00	80	100	95	89	5.3		T2-101	30.48	-14.74	30.12	+	II	Weak, yellowish brown (10YR 5/8), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)				
			100	100	100				30.93			+						
			100	96	90	2.5		T2-101	32.03	-16.81	32.19	+		III	Strong, pink spotted black and white, slightly decomposed medium grained GRANITE. Joints are closely to medium locally very closely spaced, rough and smooth planar, extremely narrow, iron oxide stained, epidote coated, dipping at 0°-10°, 10°-20°, 30°-40°, 50°-60° and 70°-80°. 29.38- 29.54m: Moderately strong, moderately decomposed.			
			100	100	90				32.39	-17.01	32.39	+						
			100	100	90	6.3		T2-101	33.46	-17.09	32.47	+		II	29.70- 30.12m: Moderately strong, moderately decomposed.			
			100	100	90				32.85	-17.47	32.85	+						
			100	78	38	>20		T2-101	34.71	-17.91	33.29	+		II	32.19- 34.71m: Slightly epitoidized.			
			100	78	38				34.71	-19.33	34.71	+						
																		32.39- 32.47m: Moderately strong, moderately decomposed.
																		32.85- 33.29m: PEGMATITE.
														End of drillhole at 34.71m.				
● Small Disturbed Sample ▮ Large Disturbed Sample ▮ SPT Liner Sample ▮ U76 Undisturbed Sample ▮ U100 Undisturbed Sample ▮ Mazier Sample ▮ Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 10/09/2020 CHECKED BY PETER CHU DATE 12/09/2020		REMARKS				



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 7

SHEET 1 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 282.96

DATE from 18/08/2020 to 24/08/2020

N 815 342.63

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.21 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
18/08/2020	SW	Dry at 08:00								+15.06	0.15			CONCRETE SLAB.
									A 0.45 0.50	+14.71	0.50			Reddish yellow (7.5YR 6/8), silty medium to coarse SAND with some subangular fine to medium gravel sized moderately strong to strong granite. (FILL)
									B 0.95 1.00					Loose, red (2.5YR 5/6), clayey silty medium to coarse SAND with some subangular fine gravel. (FILL)
									C 1.45 1.50					
18/08/2020		Dry at 18:00							D 1.95 2.00					
20/08/2020		Dry at 08:00						(1, 1, 1, 1, 1) N=4	1 2.10					
									2 2.40 2.45					
	2.90 SW PW								2.90	+12.31	2.90			Firm, red (2.5YR 5/6), sandy clayey SILT with some subangular fine gravel sized moderately weak granite and quartz. (FILL)
									3					
									4 3.90 4.00					
								(1, 1, 2, 1, 2, 1) N=6	5 4.10					
									6 4.40 4.45					
									4.90	+10.31	4.90			Stiff, yellowish red (5YR 6/8), sandy clayey SILT with some subangular fine gravel of quartz. (RESIDUAL SOIL)
									7					
									8 5.90 6.00					
								(2, 1, 2, 3, 2, 2) N=9	9 6.10					
									10 6.40 6.45					
									6.90					
									11					
									12 7.90 8.00					
									13 8.10					
20/08/2020		3.00m at 18:00						(3, 2, 3, 4, 3, 2) N=12	14 8.40 8.45					
21/08/2020		3.00m at 08:00							15 8.90	+6.31	8.90			Extremely weak, yellowish red (5YR 6/8), completely decomposed medium grained GRANITE. (Clayey silty fine to medium SAND with some subangular fine gravel of quartz)
									16 9.90	+5.21	10.00			

● Small Disturbed Sample

┆ Large Disturbed Sample

┆ SPT Liner Sample

▨ U76 Undisturbed Sample

▨ U100 Undisturbed Sample

▨ Mazier Sample

▨ Piston Sample

▲ Water Sample

┆ Standard Penetration Test

┆ Permeability Test

┆ Impression Packer Test

┆ Borehole Televiwer Test

┆ Pressurometer Test

┆ Standpipe Tip

┆ Piezometer Tip

┆ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
24/08/2020

CHECKED BY
PETER CHU


DATE
25/08/2020

REMARKS
1. Inspection pit excavated from 0.00m-2.00m.

<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH 7	
		CONTRACT No. TC G518		SHEET 2 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 282.96 N 815 342.63		W.O. No. ASD 012560	
MACHINE / No. CCL-1				DATE from 18/08/2020 to 24/08/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.21 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(3, 2, 2, 2, 4, 4) N = 12	17 18	10.00 10.10 10.40 10.45				As Sheet 1 of 5.
				100					19	10.90			V	
								(2, 3, 4, 3, 3, 4) N = 14	20 21 22	11.90 12.00 12.10 12.40 12.45				
				95					23	12.90	+2.31	12.90		Extremely weak, dark reddish brown (5YR 3/2), completely decomposed medium grained GRANITE. (Slightly clayey silty fine to medium SAND)
								(4, 5, 7, 8, 12, 17) N = 44	24 25 26	13.90 14.00 14.10 14.40 14.45			V	
				70					27	14.90	+0.31	14.90		Extremely weak, dark reddish yellow (5YR 6/8), completely decomposed medium grained GRANITE. (Clayey silty fine to medium SAND with some fine gravel)
	16.00 PW HW			100				(4, 8, 10, 13, 19, 28) N = 70	28 29 30	15.90 16.00 16.10 16.40 16.45			V	
				100					31	16.90				
								(5, 7, 10, 19, 27, 43) N = 99	32 33 34	17.90 18.00 18.10 18.40 18.45				
				100					35	18.90	-3.69	18.90		Extremely weak, pale red (10R 6/4) spotted white, completely decomposed medium grained GRANITE. (Clayey silty fine to medium SAND with some fine gravel)
									36	19.90	-4.79	20.00		

<ul style="list-style-type: none"> ● Small Disturbed Sample ┆ Large Disturbed Sample ▤ SPT Liner Sample ▨ U76 Undisturbed Sample ■ U100 Undisturbed Sample ▩ Mazier Sample ▭ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ┆ Standard Penetration Test ┆ Permeability Test ┆ Impression Packer Test ┆ Borehole Televiwer Test ┆ Pressuremeter Test ┆ Standpipe Tip ┆ Piezometer Tip ┆ In-situ Vane Shear Test 	LOGGED BY <u>CALVIN TSANG</u> DATE <u>24/08/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>25/08/2020</u>
REMARKS		

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518										DRILLHOLE No. BH 7	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																					
METHOD ROTARY CORED										CO-ORDINATES E 837 282.96 N 815 342.63										W.O. No. ASD 012560	
MACHINE / No. CCL-1																				DATE from 18/08/2020 to 24/08/2020	
FLUSHING MEDIUM WATER										ORIENTATION Vertical										GROUND LEVEL +15.21 mP.D.	
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description							
21/08/2020 22/08/2020			70					(6, 8, 12, 17, 28, 43) N = 100	37 20.00 38 20.10 20.40 20.45				V	As Sheet 2 of 5.							
	1.60m at 18:00		80	100	96	71	8.9		T2-101 21.95	-6.74	21.95		III	Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are closely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 10°-20°.							
	9.50m at 08:00							(50/50mm I 200/30mm) 200bis/30mm 22.85 39 22.90 22.93 22.98		-7.17	22.38			22.38- 22.85m: With very closely spaced subhorizontal microfractures.							
								(50/60mm I 200/40mm) 200bis/40mm 24.90 40 24.95 25.00		-7.64	22.85		IV	Weak, yellowish brown (10YR 5/8) spotted black and white, highly decomposed medium grained GRANITE. (Fine to medium GRAVEL)							
			70					(50/60mm I 200/40mm) 200bis/40mm 26.90 41 26.95 27.00		-9.69	24.90		V	Extremely weak, yellowish brown (10YR 5/8) and pinkish grey (5YR 7/2), completely decomposed medium grained GRANITE. (Clayey silty medium to coarse SAND with much fine to medium gravel)							
								(50/60mm I 200/30mm) 200bis/30mm 28.90 42 28.94 28.99													
										-14.79	20.00										
● Small Disturbed Sample ▮ Large Disturbed Sample ▮ SPT Liner Sample ▮ U76 Undisturbed Sample ▮ U100 Undisturbed Sample ▮ Mazier Sample ▮ Piston Sample ▲ Water Sample									▮ Standard Penetration Test ▮ Permeability Test ▮ Impression Packer Test ▮ Borehole Televiwer Test ▮ Pressuremeter Test ▮ Standpipe Tip ▮ Piezometer Tip ▮ In-situ Vane Shear Test									LOGGED BY CALVIN TSANG DATE 24/08/2020 CHECKED BY PETER CHU DATE 25/08/2020			
													REMARKS								



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 7

SHEET 4 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 282.96

DATE from 18/08/2020 to 24/08/2020

N 815 342.63

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.21 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
			70					(50/50mm I 200/40mm) 200bts/40mm	43 30.90 30.94 30.99				V	As Sheet 3 of 5.
								(50/40mm I 200/30mm) 200bts/30mm	44 32.90 32.92 32.97 33.14	-17.69 -17.93	32.90 33.14		IV	Weak, pinkish grey (5YR 7/2), highly decomposed medium grained GRANITE. (Fine to medium GRAVEL)
				100	100	100	11.1		T2-101		34.59		II	Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are medium to widely locally very closely to closely spaced, rough and smooth planar, extremely narrow, iron oxide stained, dipping at 0°-10°, 50°-60° and 60°-70°.
				100	95	82	0.6		T2-101	-19.96 -20.19 -20.30	35.17 35.40 35.51		III	35.17- 35.90m: Moderately strong, moderately decomposed.
			80				15.4		T2-101	-20.69	35.90		II	35.40- 35.51m: With very closely spaced subhorizontal microfractures.
				100	97	97	2.4		T2-101	-21.14	36.35		III	36.35- 36.89m: Moderately strong, moderately decomposed.
				100	100	100			T2-101	-21.68	36.89		II	
				94	61	36	17.5		T2-101	-22.47	37.68		III	37.68- 38.13m: Moderately strong, moderately decomposed.
	38.40 HW		70					(50/50mm I 200/40mm) 200bts/40mm	45 38.13 38.15 38.19 38.24 38.40	-22.92 -23.19 -23.47	38.13 38.40 38.68		IV	Weak, yellowish brown (10YR 5/8), highly decomposed medium grained GRANITE. (Sandy Fine to medium GRAVEL)
				100	100	67	12.5		T2-101		38.83		III	
				100	98	83	3.0		T2-101				II	Strong, yellowish brown spotted black and white, slightly decomposed medium grained GRANITE. Joints are medium to widely locally very closely to closely spaced, smooth planar, extremely narrow, iron oxide stained, dipping at 0°-10° and 10°-20°.
			80				12.8							38.40- 38.68m: Moderately strong, moderately decomposed.
							1.5				-24.79	40.00		

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
24/08/2020

CHECKED BY
PETER CHU

DATE
25/08/2020

REMARKS

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 7

SHEET 5 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 282.96

DATE from 18/08/2020 to 24/08/2020


N 815 342.63

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.21 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				100	100	100	1.4	>20	T2-101 ↓ 40.08			+	II	As Sheet 4 of 5.
			80	100	90	77	14.3		T2-101 ↓ 41.51	-26.30	41.51	+	III	41.51- 41.83m: Moderately strong, moderately decomposed.
				100	90	77	1.0		T2-101 ↓ 42.88	-26.62	41.83	+	II	
		1.90m at 18:01		100	100	100			T2-101 ↓ 43.77	-28.56	43.77	+		
22/08/2020														End of drillhole at 43.77m.
										LOGGED BY <u>CALVIN TSANG</u> DATE <u>24/08/2020</u>		REMARKS		
										CHECKED BY <u>PETER CHU</u> DATE <u>25/08/2020</u>				

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518				DRILLHOLE No. BH 8 SHEET 1 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED						CO-ORDINATES E 837 214.30 N 815 245.59				W.O. No. ASD 012560					
MACHINE / No. CCL-3										DATE from 23/09/2020 to 28/09/2020					
FLUSHING MEDIUM WATER						ORIENTATION Vertical				GROUND LEVEL +15.37 mP.D.					
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
23/09/2020	SW	Dry at 08:00								+15.27	0.10			CONCRETE SLAB.	
23/09/2020									A 0.45	+14.87	0.50			Red (2.5YR 4/8), medium to coarse SAND. (FILL)	
24/09/2020		Dry at 08:00		96					B 0.50	+14.67	0.70			Red (2.5YR 4/8), clayey silty medium to coarse SAND with some subangular fine gravel sized moderately strong granite, quartz and occasional brick fragments. (FILL)	
			80	88					T2-101					Grey (N6) and red (2.5YR 5/8), angular to subangular COBBLE with some coarse gravel sized brick and concrete fragments. (FILL)	
								(1, 1, 2, 2, 3, 4) N = 11	1.65						
									2.25	+13.12	2.25			Medium dense, reddish brown (5YR 5/4), silty clayey medium to coarse SAND. (FILL)	
			70						2.30						
									2.40						
									2.70	+12.57	2.80			Grey (N6) and red (2.5YR 5/8), angular COBBLE with some coarse gravel sized concrete, brick, tile and plastic fragments. (FILL)	
			80	100				(1, 1, 1, 3, 4, 7) N = 15	3.10	+12.27	3.10			Very stiff, red (2.5YR 5/8), sandy clayey SILT. (FILL)	
									3.20						
									3.50						
									3.55						
									4.00						
				100					5						
	5.10 SW								6	+10.27	5.10			Very stiff, red (2.5YR 5/8), sandy clayey SILT with occasional decayed wood fragments. (FILL)	
	PW							(2, 3, 5, 5, 6, 6) N = 22	5.00						
									5.10						
									5.20						
									5.50						
									5.55						
									6.00						
				70	100				9						
									10	+8.27	7.10			Very stiff, greyish brown (10YR 5/2), sandy clayey SILT. (ALLUVIUM)	
								(3, 4, 4, 4, 4, 5) N = 17	7.00						
									7.10						
									7.20						
									7.50	+7.37	8.00			Very stiff, brown (10YR 4/3), sandy clayey SILT with occasional subangular fine gravel of strong granite and much quartz. (ALLUVIUM)	
									7.55						
									8.00						
									13						
				100					14	+6.27	9.10			Medium dense, white (N8) spotted grey, silty clayey medium to coarse SAND. (ALLUVIUM)	
								(2, 3, 4, 4, 3, 4) N = 15	9.00						
									9.10						
									9.20						
									9.50						
									9.55						
										+5.37	10.00				

● Small Disturbed Sample
 □ Large Disturbed Sample
 ▨ SPT Liner Sample
 ▨ U76 Undisturbed Sample
 ▨ U100 Undisturbed Sample
 ▨ Mazier Sample
 □ Piston Sample
 ▲ Water Sample

↓ Standard Penetration Test
 ↓ Permeability Test
 ↓ Impression Packer Test
 ↓ Borehole Televiwer Test
 ↓ Pressuremeter Test
 □ Standpipe Tip
 □ Piezometer Tip
 ∨ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG


DATE
28/09/2020







CHECKED BY
PETER CHU










DATE
29/09/2020

REMARKS

1. Inspection pit excavated from 0.00m-0.70m.

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH 8	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)		SHEET 2 of 5			
METHOD ROTARY CORED		CO-ORDINATES E 837 214.30 N 815 245.59		W.O. No. ASD 012560	
MACHINE / No. CCL-3				DATE from 23/09/2020 to 28/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.37 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
24/09/2020 25/09/2020	9.30m at 18:00 9.50m at 08:00		0	100				26 bls (1, 2, 2, 5, 7, 9) N = 23	17	11.00	+3.37 +2.47 +1.37 +0.47 -1.53 -4.43 -4.63	12.00 12.90 14.00 14.90 16.90 19.80 20.00	     	As Sheet 1 of 5. Medium dense, yellowish brown (10YR 5/8) spotted white, medium to coarse SAND. (ALLUVIUM) White (N8) spotted grey, silty clayey medium to coarse SAND. (ALLUVIUM) Stiff, white (N8) spotted grey, silty clayey medium to coarse SAND. (ALLUVIUM) Extremely weak, red (2.5YR 5/8), completely decomposed medium grained GRANITE. (Silty clayey fine SAND with some fine gravel) Extremely weak, pinkish grey (5YR 7/2) spotted grey and yellowish brown, completely decomposed medium grained GRANITE. (Medium to coarse SAND with some fine gravel) Extremely weak, yellowish red (5YR 5/8) dappled
									18	11.10				
									19	11.50				
									20	12.00				
									21	12.10				
									22	12.90				
									23	13.90				
									24	14.00				
									25	14.40				
									26	14.45				
									27	14.90				
									28	15.00				
									29	15.30				
									30	15.35				
									31	15.80				
									32	16.80				
									33	16.90				
									34	17.00				
									35	17.30				
									36	17.35				
									37	17.80				
									38	18.80				
									39	18.90				
									40	19.00				
41	19.30													
42	19.35													
43	19.80													
44	19.80													
45	19.80													
46	19.80													
47	19.80													
48	19.80													
49	19.80													
50	19.80													
51	19.80													
52	19.80													
53	19.80													
54	19.80													
55	19.80													
56	19.80													
57	19.80													
58	19.80													
59	19.80													
60	19.80													
61	19.80													
62	19.80													
63	19.80													
64	19.80													
65	19.80													
66	19.80													
67	19.80													
68	19.80													
69	19.80													
70	19.80													
71	19.80													
72	19.80													
73	19.80													
74	19.80													
75	19.80													
76	19.80													
77	19.80													
78	19.80													
79	19.80													
80	19.80													
81	19.80													
82	19.80													
83	19.80													
84	19.80													
85	19.80													
86	19.80													
87	19.80													
88	19.80													
89	19.80													
90	19.80													
91	19.80													
92	19.80													
93	19.80													
94	19.80													
95	19.80													
96	19.80													
97	19.80													
98	19.80													
99	19.80													
100	19.80													
101	19.80													
102	19.80													
103	19.80													
104	19.80													
105	19.80													
106	19.80													
107	19.80													
108	19.80													
109	19.80													
110	19.80													
111	19.80													
112	19.80													
113	19.80													
114	19.80													
115	19.80													
116	19.80													
117	19.80													
118	19.80													
119	19.80													
120	19.80													
121	19.80													
122	19.80													
123	19.80													
124	19.80													
125	19.80													
126	19.80													
127	19.80													
128	19.80													
129	19.80													
130	19.80													
131	19.80													
132	19.80													
133	19.80													
134	19.80													
135	19.80													
136	19.80													
137	19.80													
138	19.80													
139	19.80													
140	19.80													
141	19.80													
142	19.80													
143	19.80													
144	19.80													
145	19.80													
146	19.80													
147	19.80													
148	19.80													
149	19.80													
150	19.80													
151	19.80													
152	19.80													
153	19.80													
154	19.80													
155	19.80													
156	19.80													
157	19.80													
158	19.80													
159	19.80													
160	19.80													
161	19.80													
162	19.80													
163	19.80													
164	19.80													
165	19.80													
166	19.80													
167	19.80													
168	19.80													
169	19.80													
170	19.80													
171	19.80													
172	19.80													
173	19.80													
174	19.80													
175	19.80													
176	19.80													
177	19.80													
178	19.80													
179	19.80													
180	19.80													
181	19.80													
182	19.80													
183	19.80													
184	19.80													
185	19.80													
186	19.80													
187	19.80													
188	19.80													
189	19.80													
190	19.80													
191	19.80													
192	19.80													
193	19.80													
194	19.80													
195	19.80													
196	19.80													
197	19.80													
198	19.80													
199	19.80													
200	19.80													
201	19.80													
202	19.80													
203	19.80													
204	19.80													
205	19.80													
206	19.80													
207	19.80													
208	19.80													
209	19.80													
210	19.80													
211	19.80													
212	19.80													
213	19.80													
214	19.80													
215	19.80													
216	19.80													
217	19.80													
218	19.80													
219	19.80													
220	19.80													
221	19.80													
222	19.80													
223	19.80													
224	19.80													
225	19.80													
226	19.80													
227	19.80													
228	19.80													
229	19.80													
230	19.80													
231	19.80													
232	19.80													
233	19.80													
234	19.80													
235	19.80													
236	19.80													
237	19.80													
238	19.80													
239	19.80													
240	19.80													
241	19.80													
242	19.80													
243	19.80													
244	19.80													
245	19.80													
246	19.80													
247	19.80													
248	19.80													
249	19.80													
250	19.80													
251	19.80													
252	19.80													
253	19.80													
254	19.80													
255	19.80													
256	19.80													
257	19.80													
258	19.80													
259	19.80													
260	19.80													
261	19.80													
262	19.80													
263	19.80													
264	19.80													
265	19.80													
266	19.80													
267	19.80													
268	19.80													
269	19.80													
270	19.80													
271	19.80													
272	19.80													
273	19.80													
274	19.80													
275	19.80													
276	19.80													
277	19.80													
278	19.80													
279	19.80													
280	19.80													
281	19.80													
282	19.80													
283	19.80													
284	19.80													
285	19.80													
286	19.80													
287	19.80													
288	19.80													
289	19.80													
290	19.80													
291	19.80													
292	19.80													
293	19.80													
294	19.80													
295	19.80													
296	19.80													
297	19.80													
298	19.80													
299	19.80													
300	19.80													
301	19.80													
302	19.80													
303	19.80													
304	19.80													
305	19.80													
306	19.80													
307	19.80													
308	19.80													
309	19.80													
310	19.80													
311	19.80													
312	19.80													
313	19.80													
314	19.80													
315	19.80													
316	19.80													
317	19.80													
318	19.80													
319	19.80													
320	19.80													
321	19.80													
322	19.80													
323	19.80													
324	19.80													
325	19.80													
326	19.80													
327	19.80													
328	19.80													
329	19.80													
330	19.80													
331	19.80													
332	19.80													
333	19.80													
334	19.80													
335	19.80													
336	19.80													
337	19.80													
338	19.80													
339	19.80													
340	19.80													
341	19.80													
342	19.80													
343	19.80													
344	19.80													
345	19.80													
346	19.80													
347	19.80													
348	19.80													
349	19.80													
350	19.80													
351	19.80													
352	19.80													
353	19.80													
354	19.80													
355	19.80													
356	19.80													
357	19.80													
358	19.80													
359	19.80													
360	19.80													
361	19.80													
362	19.80													
363	19.80													
364	19.80													
365	19.80													
366	19.80													
367	19.80													
368	19.80													
369	19.80													
370	19.80													
371	19.80													
372	19.80													
373	19.80													
374	19.80													
375	19.80													
376	19.80													
377	19.80													
378	19.80													
379	19.80													
380	19.80													
381	19.80													
382	19.80													
383	19.80													
384	19.80													
385	19.80													
386	19.80													
387	19.80													
388	19.80													
389	19.80													
390	19.80													
391	19.80													
392	19.80													
393	19.80													
394	19.80													
395	19.80													
396	19.80													
397	19.80													
398	19.80													
399	19.80													
400	19.80													
401	19.80													
402	19.80													
403	19.80													
404	19.80													
405	19.80													
406	19.80													
407	19.80													
408	19.80													
409	19.80													
410	19.80													
411	19.80													
412	19.80													
413	19.80													
414	19.80													
415	19.80													
416	19.80													
417														

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH 8 SHEET 3 of 5											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 214.30 N 815 245.59		W.O. No. ASD 012560 DATE from 23/09/2020 to 28/09/2020											
MACHINE / No. CCL-3															
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.37 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
25/09/2020 26/09/2020	9.50m at 18:00 9.50m at 08:00		100					(6, 10, 15, 18, 21, 28) N = 82 (7, 13, 18, 19, 23, 32) N = 92 (15, 19, 23, 25, 32, 43) N = 123 (10, 18, 24, 30, 39, 50) N = 143 (9, 15, 25, 33, 44, 54) N = 156	35 36 20.80 20.90 21.00 37 38 21.30 21.35 39 40 23.30 23.35 41 42 25.30 25.35 43 44 27.30 27.35 45 46 29.30 29.35	-14.63	30.00	V	yellowish brown, completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine gravel)		
● Small Disturbed Sample ↑ Large Disturbed Sample  SPT Liner Sample  U76 Undisturbed Sample  U100 Undisturbed Sample  Mazier Sample  Piston Sample  Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressurometer Test  Standpipe Tip  Piezometer Tip ∨ In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 28/09/2020 CHECKED BY PETER CHU DATE 29/09/2020		REMARKS	

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tyssen Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH 8	
		SHEET 4 of 5			
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 214.30 N 815 245.59		W.O. No. ASD 012560	
MACHINE / No. CCL-3				DATE from 23/09/2020 to 28/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.37 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
														As Sheet 2 of 5.
			70					(10, 40/70mm 125, 75/60mm) 200bbs/135mm (50/70mm 120/75mm, 80/35mm) 200bbs/110mm	47 30.90 31.13 31.18 48 32.90 33.03 33.08					
	34.56 HW			100	60	0	NI		T2-101	34.56 34.66	-19.19 -19.29 -19.49 -19.55 -19.79 -19.84	34.56 34.66 34.86 34.92 35.16 35.21	III	Moderately strong, reddish brown, moderately decomposed medium grained GRANITE. Rock is non-intact. Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are closely to medium spaced, rough and smooth planar, extremely narrow, iron oxide stained, dipping at 0°-10°, 10°-20°, 20°-30° and 50°-60°.
				100	97	69	13.0		T2-101	35.90	-20.37 -20.76 -21.00	35.74 36.13 36.37	+	34.86- 34.92m: PEGMATITE. 35.16- 35.21m: PEGMATITE. 35.74- 36.13m: PEGMATITE.
	9.30m at 18:00			100	100	100	1.8		T2-101	37.11	-21.54 -21.69 -22.01	36.91 37.06 37.38	+	36.37- 36.91m: Fine grained GRANITE. 37.06- 37.38m: Fine grained GRANITE.
	9.30m at 08:00	80		100	100	92	10.2		T2-101	38.54	-22.83 -23.05	38.20 38.42	+	38.20- 38.42m: Fine grained GRANITE.
				100	100	93	4.3		T2-101	39.25	-23.68 -23.91 -24.20 -24.30 -24.47	39.05 39.28 39.57 39.67 39.84	+	39.05- 39.28m: Fine grained GRANITE. 39.57- 39.67m: Fine grained GRANITE.
	9.50m at 18:00			100	93	90			T2-101	39.84			+	

<ul style="list-style-type: none"> ● Small Disturbed Sample ┆ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ┆ Standard Penetration Test ┆ Permeability Test ┆ Impression Packer Test ┆ Borehole Televiwer Test ┆ Pressuremeter Test ┆ Standpipe Tip ┆ Piezometer Tip ┆ In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 28/09/2020 CHECKED BY PETER CHU DATE 29/09/2020	REMARKS
---	---	--	---------

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH 8										
		SHEET 5 of 5												
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 214.30 N 815 245.59		W.O. No. ASD 012560										
MACHINE / No. CCL-3				DATE from 23/09/2020 to 28/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.37 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
														End of drillhole at 39.84m.
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ■ U100 Undisturbed Sample ▤ Mazier Sample □ Piston Sample ▲ Water Sample </div> <div style="width: 45%;"> <ul style="list-style-type: none"> ↓ Standard Penetration Test ⬇ Permeability Test ⊞ Impression Packer Test ⊞ Borehole Televiwer Test ⊞ Pressuremeter Test ⬆ Standpipe Tip ⬆ Piezometer Tip ∨ In-situ Vane Shear Test </div> </div>								LOGGED BY <u>CALVIN TSANG</u> DATE <u>28/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>29/09/2020</u>		REMARKS				



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH 8A**

SHEET 1 of 1

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 211.41

DATE from 10/09/2020 to 17/09/2020

N 815 245.13

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.36 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
10/09/2020	SW	Dry at 08:00												CONCRETE SLAB. Reddish brown (5YR 5/4), silty medium to coarse SAND with some subangular fine to medium gravel sized brick and asphalt fragments. (FILL)
10/09/2020		Dry at 18:00		84					T6-120	+14.56	0.80			Grey (N5) and yellowish red (5YR 5/8), angular to subangular coarse GRAVEL and COBBLE sized moderately strong to strong granite, brick and concrete fragments. (FILL)
17/09/2020		Dry at 08:00		23					T6-120					
	3.00 SW													
	HW													CONCRETE. 3.14- 3.27m: Rusted iron pipe.
				83					T6-120	+12.36 +12.22 +12.09	3.00 3.14 3.27			
														Reinforced CONCRETE.
				92					T6-120	+10.86	4.50			
17/09/2020	5.76 HW	Dry at 18:00		100					T6-120	+9.60	5.76			End of drillhole at 5.76m.

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
18/09/2020

CHECKED BY
PETER CHU

DATE
19/09/2020

REMARKS

- Inspection pit excavated from 0.00m-0.80m.
- The drillhole terminated at 5.76m due to encountering rebars.

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 9

SHEET 1 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-3

E 837 221.72

DATE from 28/09/2020 to 03/10/2020

N 815 256.03

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.19 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
28/09/2020	SW	Dry at 08:00								+14.99	0.20			CONCRETE SLAB. Red (10R 5/6), clayey silty fine to medium SAND with much subrounded and subangular fine to medium gravel sized moderately weak to moderately strong granite, quartz and concrete fragments. (FILL)
			80	100				(1, 1, 1, 2, 2, 5) N = 10	A 0.45 0.50 B 0.95 1.00 1.10 1.20 1.30 1 1.60 2 1.65 3 2.10 4 3.10 3.20 3.30 5 3.60 6 3.65 7 4.10 8 5.10 5.20 5.30 9 5.60 10 5.65 11 6.10 12 7.10 7.20 7.30 13 7.60 14 7.65 15 8.10 16 9.10 9.20 9.30 17 9.60 18 9.65	+14.19 +14.00	1.00 1.10			Grey (N6) and light red (10R 6/8), angular COBBLE sized concrete and brick fragments. (FILL) Stiff to very stiff, red (2.5YR 5/8), sandy clayey SILT with some subangular fine gravel sized quartz. (FILL)
	3.65 SW PW			100				(1, 2, 2, 3, 3, 4) N = 12						
				100				(1, 1, 2, 2, 3, 3) N = 10						
		6.30m at 18:00		100						+7.99	7.20			7.20- 8.10m: Medium dense, silty clayey medium to coarse SAND. (FILL)
28/09/2020 29/09/2020		7.20m at 08:00						(1, 1, 3, 4, 7, 9) N = 23		+7.09	8.10			
				100				(1, 1, 2, 4, 5, 8) N = 19		+5.19	10.00			

- | | | | |
|---|-------------------------|---|---------------------------|
| ● | Small Disturbed Sample | ↓ | Standard Penetration Test |
| ↓ | Large Disturbed Sample | ⬇ | Permeability Test |
| □ | SPT Liner Sample | ⌋ | Impression Packer Test |
| ▨ | U76 Undisturbed Sample | ⌋ | Borehole Televier Test |
| ■ | U100 Undisturbed Sample | ⌋ | Pressuremeter Test |
| ▤ | Mazier Sample | ⬆ | Standpipe Tip |
| □ | Piston Sample | ⬆ | Piezometer Tip |
| ▲ | Water Sample | ∨ | In-situ Vane Shear Test |

LOGGED BY
CALVIN TSANG


DATE
05/10/2020

CHECKED BY
PETER CHU

DATE
06/10/2020



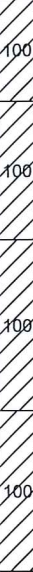
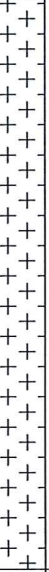














REMARKS


1. Inspection pit excavated from 0.00m-1.00m.


 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH 9 SHEET 2 of 5										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 221.72 N 815 256.03		W.O. No. ASD 012560										
MACHINE / No. CCL-3				DATE from 28/09/2020 to 03/10/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.19 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				100				(1, 1, 1, 3, 5, 7) N = 16	19					As Sheet 1 of 5.
									20	+3.99	11.20			Stiff, dark reddish grey (5YR 4/2), sandy clayey SILT with occasional subangular fine gravel sized quartz. (FILL)
									21					
									22					
				0					23	+3.09	12.10			Stiff, reddish yellow (5YR 6/8) and very dark grey (N3), silty CLAY with some subangular coarse gravel and cobble sized brick fragments. (FILL)
									24					
				100				31 bis	25	+1.99	13.20			Very stiff, dark grey (N4), sandy clayey SILT with some subangular fine gravel sized quartz. (ALLUVIUM)
									26					
	14.10 PW HW							(1, 1, 2, 2, 5, 7) N = 16	27					
									28					
			70						29	+0.19	15.00			Yellowish brown (10YR 5/4), silty medium to coarse SAND with some subangular fine gravel. (ALLUVIUM)
				0					30					
								31 bis	31	-1.01	16.20			Stiff, yellowish brown (10YR 5/4), sandy clayey SILT. (ALLUVIUM)
				0					32					
								(2, 2, 5, 7, 11, 15) N = 38	33	-1.91	17.10			Dense, pale brown (10YR 6/3), medium to coarse SAND with much subrounded and subangular fine gravel of quartz. (ALLUVIUM)
									34					
				100					35	-4.01	19.20			Extremely weak, yellowish red (5YR 5/8) to yellowish brown (10YR 5/4), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)
								(6, 8, 13, 14, 15, 17) N = 59	36	-4.81	20.00		V	
● Small Disturbed Sample ▮ Large Disturbed Sample ▮ SPT Liner Sample ▮ U76 Undisturbed Sample ▮ U100 Undisturbed Sample ▮ Mazier Sample ▮ Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 05/10/2020 CHECKED BY PETER CHU DATE 06/10/2020		REMARKS

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH 9										
		SHEET 3 of 5												
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 221.72 N 815 256.03		W.O. No. ASD 012560										
MACHINE / No. CCL-3				DATE from 28/09/2020 to 03/10/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.19 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
<div style="font-size: 0.8em;"> 29/09/2020 30/09/2020 </div>	6.50m at 18:00 9.10m at 08:00		<div style="background-color: #cccccc; width: 100%; height: 100%;"></div>	<div style="background-color: #cccccc; width: 100%; height: 100%;"></div>				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;"> (5, 6, 7, 7, 8, 9) N = 31 </div> <div style="margin-bottom: 10px;"> (6, 7, 7, 9, 10, 9) N = 35 </div> <div style="margin-bottom: 10px;"> (6, 8, 11, 12, 14, 13) N = 50 </div> <div style="margin-bottom: 10px;"> (9, 14, 20, 28, 35, 40) N = 123 </div> <div style="margin-bottom: 10px;"> (12, 29, 36, 42, 59, 62) N = 189 </div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;"> 37 20.10 </div> <div style="margin-bottom: 10px;"> 38 21.10 21.20 21.30 </div> <div style="margin-bottom: 10px;"> 39 21.60 21.65 </div> <div style="margin-bottom: 10px;"> 41 23.10 23.20 </div> <div style="margin-bottom: 10px;"> 42 23.50 23.55 </div> <div style="margin-bottom: 10px;"> 43 25.10 25.20 </div> <div style="margin-bottom: 10px;"> 44 25.50 25.55 </div> <div style="margin-bottom: 10px;"> 45 27.10 27.20 </div> <div style="margin-bottom: 10px;"> 46 27.50 27.55 </div> <div style="margin-bottom: 10px;"> 47 29.10 29.20 </div> <div style="margin-bottom: 10px;"> 48 29.50 29.55 </div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">-14.81</div> <div style="margin-bottom: 10px;">30.00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">V</div> </div>	As Sheet 2 of 5.		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <ul style="list-style-type: none"> ● Small Disturbed Sample ▬ Large Disturbed Sample ▬ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▧ Mazier Sample ▣ Piston Sample ▲ Water Sample </div> <div style="width: 45%;"> <ul style="list-style-type: none"> ⬇ Standard Penetration Test ⬇ Permeability Test ⬇ Impression Packer Test ⬇ Borehole Televiwer Test ⬇ Pressuremeter Test ⬇ Standpipe Tip ⬇ Piezometer Tip ⬇ In-situ Vane Shear Test </div> </div>									LOGGED BY CALVIN TSANG		REMARKS			
DATE 05/10/2020														
CHECKED BY PETER CHU														
DATE 06/10/2020														

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH 9										
				SHEET 4 of 5										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 221.72 N 815 256.03		W.O. No. ASD 012560										
MACHINE / No. CCL-3				DATE from 28/09/2020 to 03/10/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.19 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
	8.10m at 18:00 10.00m at 08:00		70					(50/70mm) 200/70mm (50/50mm) 200/70mm (50/30mm) 200/70mm (50/40mm) 200/60mm	49 31.10 31.19 31.24	-15.91	31.10		V	As Sheet 2 of 5.
									50 33.10 33.17 33.22					Weak, yellowish brown (10YR 5/4), highly decomposed medium grained GRANITE. (Fine to medium GRAVEL)
									51 35.10 35.15 35.20					
									52 37.10 37.15 37.20					
									53 39.10 39.15 39.20 39.29 39.44	-24.10 -24.25 -24.51 -24.81	39.29 39.44 39.70 40.00			
39.29 HW			80	100	100	100	1.0							
<div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> ┆ Standard Penetration Test ┆ Permeability Test ┆ Impression Packer Test ┆ Borehole Televiwer Test ┆ Pressuremeter Test ┆ Standpipe Tip ┆ Piezometer Tip ┆ In-situ Vane Shear Test </div> </div>								LOGGED BY CALVIN TSANG DATE 05/10/2020 CHECKED BY PETER CHU DATE 06/10/2020		REMARKS				

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH 9 SHEET 5 of 5											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 221.72 N 815 256.03		W.O. No. ASD 012560											
MACHINE / No. CCL-3				DATE from 28/09/2020 to 03/10/2020											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.19 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
		8.20m at 18:00		100	100	100	1.0		T2-101	-25.23	40.42		III	dappled green, moderately decomposed medium grained GRANITE. Joints are medium to widely spaced, rough and smooth planar, extremely narrow, iron oxide stained, epidote coated, dipping at 30°-40° and 50°-60°.	
					40.88					39.70- 40.42m: Fine grained GRANITE.					
				T2-101	-26.71	41.90									
					42.06	-27.00			42.19		41.90- 42.19m: Fine grained GRANITE.				
				T2-101	-27.71	42.90									
			100	100	100	2.0			-28.08	43.27			42.90- 43.27m: Fine grained GRANITE.		
			100	100	100				43.52						
									T2-101	-29.70	44.89			End of drillhole at 44.89m.	
• Small Disturbed Sample  Large Disturbed Sample  SPT Liner Sample  U76 Undisturbed Sample  U100 Undisturbed Sample  Mazier Sample  Piston Sample  Water Sample									Standard Penetration Test  Permeability Test  Impression Packer Test  Borehole Televiwer Test  Pressuremeter Test  Standpipe Tip  Piezometer Tip  In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 05/10/2020 CHECKED BY PETER CHU DATE 06/10/2020		REMARKS	

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH12 SHEET 1 of 5											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 293.86 N 815 332.32		W.O. No. ASD 012560											
MACHINE / No. CCL-1				DATE from 18/08/2020 to 26/08/2020											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.29 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
18/08/2020	SW	Dry at 08:00							A 0.45 0.50	+15.14	0.15			CONCRETE SLAB.	
		Dry at 18:00							B 0.95 1.00					Yellowish red (5YR 5/8), sandy clayey SILT with some fine to medium gravel sized moderately weak granite and quartz. (FILL)	
18/08/2020									C 1.45 1.50						
24/08/2020		Dry at 08:00						(1, 2, 1, 1, 1, 2) N = 5	D 1.95 2.00 2.10	+13.29	2.00			Firm, red (10R 5/8), sandy clayey SILT with some subangular fine gravel of quartz. (FILL)	
									1 2.40 2 2.45						
	4.00 SW								3 2.90					Firm to stiff, yellowish red (5YR 5/6), sandy clayey SILT with some fine gravel of quartz. (RESIDUAL SOIL)	
	PW								4 3.90 5 4.00 6 4.10						
									7 4.90	+10.39	4.90				
									8 5.90 9 6.00 10 6.10						
24/08/2020		4.00m at 18:00	70					(2, 1, 2, 1, 2, 2) N = 7	11 6.90						
25/08/2020		4.00m at 08:00							12 7.90 13 8.00 14 8.10						
									15 8.40 16 8.45						
									17 8.90						
									18 9.90	+5.29	10.00				
● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▩ U76 Undisturbed Sample ■ U100 Undisturbed Sample ▤ Mazier Sample □ Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Presssuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 27/08/2020 CHECKED BY PETER CHU DATE 28/08/2020		REMARKS 1. Inspection pit excavated from 0.00m-2.00m.	

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH12 SHEET 2 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 293.86 N 815 332.32		W.O. No. ASD 012560	
MACHINE / No. CCL-1				DATE from 18/08/2020 to 26/08/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.29 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(2, 2, 3, 2, 2, 3) N = 10	17 18	10.00 10.10 10.40 10.45			VI	As Sheet 1 of 5.
				85					19	10.90	+4.39	10.90	VI	Very stiff, red (10R 5/8), sandy clayey SILT with with some fine gravel of quartz. (RESIDUAL SOIL)
								(3, 4, 3, 5, 6, 8) N = 22	20 21 22	11.90 12.00 12.10 12.40 12.45			VI	
				100					23	12.90				
								(4, 6, 7, 9, 14, 20) N = 50	24 25 26	13.90 14.00 14.10 14.40 14.45				
	16.00 PW HW		70	100					27	14.90	+0.39	14.90	V	Extremely weak, red (10R 4/8) spotted white, completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND)
				100					28 29 30	15.90 16.00 16.10 16.40 16.45			V	Extremely weak, red (10R 4/8), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)
								(5, 7, 8, 10, 14, 28) N = 60	31	16.90				
				100					32 33 34	17.90 18.00 18.10 18.40 18.45	-2.71	18.00	V	
								(6, 8, 11, 14, 17, 30) N = 72	35	18.90				
				100					36	19.90	-4.71	20.00	V	

<ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ■ U100 Undisturbed Sample ▤ Mazier Sample □ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> — Standard Penetration Test — Permeability Test — Impression Packer Test — Borehole Televiwer Test — Presssuremeter Test — Standpipe Tip — Piezometer Tip — In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 27/08/2020 CHECKED BY PETER CHU DATE 28/08/2020	REMARKS
---	--	--	---------

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH12	
		CONTRACT No. TC G518		SHEET 3 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 293.86 N 815 332.32		W.O. No. ASD 012560	
MACHINE / No. CCL-1				DATE from 18/08/2020 to 26/08/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.29 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
25/08/2020 26/08/2020		7.00m at 18:00 9.00m at 08:00						(6, 9, 12, 17, 25, 36) N = 90	37 20.00 38 20.10 38 20.40 38 20.45				V	As Sheet 2 of 5.
								(8, 11, 17, 19, 25, 43) N = 104	39 22.00 40 22.10 40 22.40 40 22.45	-6.71	22.00			Extremely weak, reddish yellow (5YR 7/8), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with much fine gravel)
								(10, 13, 19, 27, 43, 64) N = 153	41 24.00 42 24.10 42 24.40 42 24.45					
								(50/60mm I 200/40mm) 200bts/40mm	43 26.00 43 26.05 43 26.10				V	
								(50/50mm I 200/40mm) 200bts/40mm	44 28.00 44 28.04 44 28.09					
								(50/50mm)		-14.71	30.00			

<ul style="list-style-type: none"> ● Small Disturbed Sample ▬ Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ■ U100 Undisturbed Sample ▤ Mazier Sample ▥ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ⊥ Standard Penetration Test ⊥ Permeability Test ⊥ Impression Packer Test ⊥ Borehole Televiwer Test ⊥ Pressuremeter Test ⊥ Standpipe Tip ⊥ Piezometer Tip ✓ In-situ Vane Shear Test 	<div>LOGGED BY CALVIN TSANG</div> <div>DATE 27/08/2020</div> <div>CHECKED BY PETER CHU</div> <div>DATE 28/08/2020</div>
REMARKS		

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH12										
				SHEET 4 of 5										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 293.86 N 815 332.32		W.O. No. ASD 012560										
MACHINE / No. CCL-1				DATE from 18/08/2020 to 26/08/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.29 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								I 200/40mm 200bts/40mm	● 45 30.00 30.04 30.09					As Sheet 3 of 5.
								(50/50mm I 200/40mm) 200bts/40mm	● 46 32.00 32.04 32.09					
								(50/40mm I 200/30mm) 200bts/30mm	● 47 34.00 34.02 34.07				V	
								(50/50mm I 200/40mm) 200bts/40mm	● 48 36.00 36.04 36.09					
								(50/40mm I 200/30mm) 200bts/30mm	● 49 38.00 38.02 38.07					
										-23.09	38.38			Weak, yellowish brown (10YR 5/8), highly decomposed medium grained GRANITE. (Medium GRAVEL)
								(50/30mm)		-24.71	40.00		IV	
<div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample I Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample □ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> I Standard Penetration Test ● Permeability Test I Impression Packer Test I Borehole Televiwer Test I Pressuremeter Test ▲ Standpipe Tip ▲ Piezometer Tip ✓ In-situ Vane Shear Test </div> </div>								LOGGED BY CALVIN TSANG DATE 27/08/2020 CHECKED BY PETER CHU DATE 28/08/2020		REMARKS				

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH12

SHEET 5 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 293.86

DATE from 18/08/2020 to 26/08/2020

N 815 332.32

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.29 mP.D.

[illegible]

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH13

SHEET 1 of 4

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. DR-25

E 837 213.03

DATE from 03/10/2020 to 07/10/2020

N 815 225.01

FLUSHING MEDIUM WATER

ORIENTATION Vertical


GROUND LEVEL +15.39 mP.D.

[illegible]

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH13	
		CONTRACT No. TC G518		SHEET 2 of 4	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 213.03 N 815 225.01		W.O. No. ASD 012560	
MACHINE / No. DR-25				DATE from 03/10/2020 to 07/10/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.39 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description							
03/10/2020 05/10/2020	3.80m at 18:00 4.60m at 08:00 14.00 PW HW 4.90m		70	95				(1, 2, 2, 2, 3, 3) N = 10 (12, 17, 76, 124/65mm) 200bbs/140mm T2-101 (6, 8, 13, 16, 21, 34) N = 84 (4, 7, 9, 10, 14, 19) N = 52 (5, 8, 10, 12, 16, 23) N = 61	8 10.00 9 10.10 10 10.20 10 10.50 10 10.55	+5.29 +4.39	10.10 11.00	VI V	As Sheet 1 of 4. Stiff, yellowish brown (10YR 5/8), sandy clayey SILT. (RESIDUAL SOIL)								
									11 11.00				Extremely weak, yellowish brown (10YR 5/8), completely decomposed medium grained GRANITE. (Slightly silty clayey medium to coarse SAND with much fine gravel)								
									12 12.00 12 12.10				Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are widely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 20°-30°.								
									13 12.34 13 12.39	+3.00	12.39	III									
									12 12.78 13 13.15	+2.61 +2.24	12.78 13.15	II III									
																	13.80 13.90 14 14.20 15 14.25	+1.59	13.80		Extremely weak, pale red (10R 7/4) to yellowish brown (10YR 5/4), completely decomposed medium grained GRANITE. (Slightly clayey silty medium to coarse SAND with much fine gravel)
									16 14.70												
									17 15.70 18 15.80 19 15.90												
									16 16.20 19 16.25												
									16 16.70												
20 17.70 21 17.80 22 17.90																					
								18 18.20 23 18.25 24 18.70													
								25 19.70 19.80 19.90	-4.61	20.00											

<div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample ┆ Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ■ U100 Undisturbed Sample ▤ Mazier Sample ▩ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> ┆ Standard Penetration Test ┆ Permeability Test ┆ Impression Packer Test ┆ Borehole Televier Test ┆ Pressuremeter Test ┆ Standpipe Tip ┆ Piezometer Tip ┆ In-situ Vane Shear Test </div> </div>	<div style="display: flex; justify-content: space-between;"> <div> LOGGED BY CALVIN TSANG DATE 08/10/2020 CHECKED BY PETER CHU DATE 09/10/2020 </div> <div style="width: 80%;"> REMARKS </div> </div>
--	---

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH13 SHEET 3 of 4											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 213.03 N 815 225.01		W.O. No. ASD 012560											
MACHINE / No. DR-25				DATE from 03/10/2020 to 07/10/2020											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.39 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
05/10/2020 06/10/2020		at 18.00 4.90m at 08:00	70					(5, 8, 15, 17, 36, 53) N = 121	26 27 20.20 20.25				V	As Sheet 2 of 4.	
			80	89	89	89	2.5		T2-101 21.20	-5.81	21.20		III	Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are medium spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10°.	
			70					(6, 10, 15, 21, 28, 32) N = 94	28 29 22.00 22.10 22.40 22.45	-6.61	22.00		V	Extremely weak, yellowish brown (10YR 5/8), completely decomposed medium grained GRANITE. (Medium to coarse SAND with some fine gravel)	
			80	100	67	67	8.0	(6, 9, 13, 15, 22, 31) N = 81	T2-101 23.30 23.60 23.70 24.00 24.05	-7.91 -8.16 -8.21	23.30 23.55 23.60		III IV	Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are closely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 20°-30° and 30°-40°.	
			70				NA	(14, 27, 41, 77, 82/30mm) 200bts/180mm	32 25.60 25.88 25.93				V	23.55- 23.60m: Moderately weak, highly decomposed. (Medium to coarse GRAVEL) Extremely weak, yellowish red (5YR 5/8), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)	
			70					(50/60mm, 135/75mm, 65) 200bts/150mm	33 27.60 27.70 27.75						
	29.85 HW		80	100	100	88	1.0	(50/50mm, 200bts/60mm)	34 29.60 29.66 29.74 29.85	-14.46 -14.61	29.85 30.00		III	Moderately strong, yellowish brown, moderately	
● Small Disturbed Sample ▮ Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▤ Mazier Sample ▥ Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 08/10/2020 CHECKED BY PETER CHU DATE 09/10/2020		REMARKS	

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH13

SHEET 4 of 4

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. DR-25

E 837 213.03

DATE from 03/10/2020 to 07/10/2020

N 815 225.01

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.39 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				100	100	88	1.0		T2-101	-15.07	30.46	+		decomposed medium grained GRANITE. Joints are medium to widely locally very closely to closely spaced, rough planar, extremely narrow, iron and manganese oxides stained, dipping at 0°-10°, 10°-20° and 70°-80°.
							20.0					+		
							3.4		31.30	-15.75	31.14	+	III	30.46- 31.14m: With very closely spaced subhorizontal microfractures.
										-16.10	31.49	+		
				100	82	54	>20		T2-101	-16.58	31.97	+		31.49- 31.97m: With very closely spaced subhorizontal microfractures.
							7.0			-16.92	32.31	+		
										-17.04	32.43	+	II	
										-17.25	32.64	+	III	32.31- 32.43m: Strong, slightly decomposed.
				100	100	100			T2-101			+		Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are closely to medium spaced, smooth planar, extremely narrow, epidote coated, dipping at 0°-10°.
							2.1					+		
06/10/2020		4.10m at 18:00										+		
07/10/2020		6.30m at 08:00							33.93			+	II	
		4.20m at 18:00		100	100	94			T2-101			+		
07/10/2020										-19.62	35.01	+		End of drillhole at 35.01m.

- | | | | |
|---|-------------------------|---|---------------------------|
| ● | Small Disturbed Sample | ↓ | Standard Penetration Test |
| ⋮ | Large Disturbed Sample | ⬇ | Permeability Test |
| □ | SPT Liner Sample | ⏏ | Impression Packer Test |
| ▨ | U76 Undisturbed Sample | ⏏ | Borehole Televiwer Test |
| ■ | U100 Undisturbed Sample | ⏏ | Pressuremeter Test |
| ▤ | Mazier Sample | ⏏ | Standpipe Tip |
| ▥ | Piston Sample | ⏏ | Piezometer Tip |
| ▲ | Water Sample | ∨ | In-situ Vane Shear Test |


LOGGED BY
CALVIN TSANG

DATE
08/10/2020

CHECKED BY
PETER CHU



DATE
09/10/2020

REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH14 SHEET 1 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 222.31 N 815 234.82		W.O. No. ASD 012560 DATE from 10/09/2020 to 19/09/2020	
MACHINE / No. CS60					
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.37 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
10/09/2020	SW	Dry at 08:00								+15.17	0.20			CONCRETE SLAB.
									A 0.45 0.50	+14.87	0.50			Brown (10YR 5/3), medium to coarse SAND with some angular to subangular fine to medium gravel sized moderately strong to strong granite. (FILL)
									B 0.95 1.00					Firm, red (10R 5/8), sandy clayey SILT with some angular to subangular fine to medium gravel sized moderately strong to strong granite and quartz. (FILL)
									C 1.45 1.50					
10/09/2020		Dry at 18:00							D 1.95 2.00					
15/09/2020		Dry at 08:00	70					(2, 2, 1, 2, 1, 2) N = 6	1 2.10 2 2.40 2.45	+12.57	2.80			Grey (N6) and yellowish red (5YR 5/8), angular coarse GRAVEL and COBBLE sized strong granite, concrete and brick fragments. (FILL)
	2.80 SW PW								T2-101					
			80	70										
									3 4.00 4 4.10	+11.57	3.80			Stiff, red (10R 5/8), sandy clayey SILT. (FILL)
			70					(2, 3, 4, 4, 3, 4) N = 15	4 4.40 4.45 4.65	+10.72	4.65			Brown (N6) and yellowish red (5YR 5/8), angular BOULDER with some cobble and occasional gravel sized concrete fragments. (FILL)
15/09/2020		2.20m at 18:00	80	76					T2-101					
16/09/2020		2.30m at 08:00		80					T2-101					
									5 5.90	+9.87	5.50			Very stiff, yellowish red (5YR 5/8) spotted white and grey, sandy clayey SILT. (FILL)
									6 6.90 7 7.00 7.10					
			70					(2, 3, 3, 4, 5, 5) N = 18	7 7.40 7.45					
									8 7.90					
									9 8.90 9.00 9.10					
									10 9.40 9.45	+5.47	9.90			
									11 9.90	+5.37	10.00			

<ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 21/09/2020 CHECKED BY PETER CHU DATE 22/09/2020	REMARKS 1. Inspection pit excavated from 0.00m-2.00m.
---	---	--	--

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH14 SHEET 2 of 5											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 222.31 N 815 234.82		W.O. No. ASD 012560											
MACHINE / No. CS60				DATE from 10/09/2020 to 19/09/2020											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.37 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
16/09/2020 17/09/2020	5.00m at 18:00 6.30m at 08:00 19.00 PW HW	18:00 08:00	98 100 100 100 100	70				(4, 6, 8, 12, 12) N = 38 55 bls (2, 4, 12, 19, 20, 24) N = 75 104 bls (5, 6, 8, 10, 13) N = 37 71 bls (5, 7, 11, 14, 18, 18) N = 61 (6, 16, 23, 30, 37, 49) N = 139	13 14 10.90 15 11.00 16 11.10 17 11.40 18 11.45 19 11.90 20 12.35 21 12.40 22 13.00 23 13.10 24 13.40 25 13.45 26 13.90 27 14.35 28 14.40 29 15.00 30 15.10 31 15.40 32 15.45 33 15.90 34 16.35 35 16.40 36 17.00 37 17.10 38 17.40 39 17.45 40 17.90 41 18.90 42 19.00 43 19.10 44 19.40 45 19.45	+4.37 +3.47 +1.47 +0.37 -0.53 -2.53 -4.63	11.00 11.90 13.90 15.00 15.90 17.90 20.00		VI V V	Stiff, reddish brown (5YR 5/3), sandy clayey SILT with some subangular and subrounded fine gravel sized moderately weak granite and quartz. (FILL) Hard, brown (10YR 4/3), clayey SILT. (FILL) Very dense, yellow (10YR 4/3), slightly clayey silty medium to coarse SAND with some subangular and subrounded fine gravel of quartz. (ALLUVIUM) Very dense, white (N8) spotted grey, slightly clayey silty medium to coarse SAND with some subangular and subrounded fine gravel of quartz. (ALLUVIUM) Hard, reddish yellow (5YR 6/8), sandy clayey SILT with some subangular fine gravel of quartz. (RESIDUAL SOIL) Extremely weak, light red (10R 6/8) spotted white, completely decomposed medium grained GRANITE. (Slightly clayey silty medium to coarse SAND with some fine gravel) Extremely weak, pale red (10R 7/4) spotted white and grey, completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)	
															● Small Disturbed Sample I Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH14**

SHEET **3** of **5**

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CS60

E 837 222.31

DATE from 10/09/2020 to 19/09/2020

N 815 234.82

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.37 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
														As Sheet 2 of 5.
		7.00m at 18:00						(8, 19, 21, 23, 27, 35) N = 106	33 21.00 34 21.10 21.40 21.45					
		7.20m at 08:00						(10, 17, 23, 25, 32, 40) N = 120	35 23.00 36 23.10 23.40 23.45					
			70					(22, 23, 60, 140) 200bls/150mm	37 25.00 25.25 25.30					
								(50/75mm 200/75mm) 200bls/75mm	38 27.00 27.10 27.15					
								(50/75mm 200/75mm) 200bls/75mm	39 29.00 29.10 29.15					
										-14.63	30.00			
<div><ul style="list-style-type: none">Small Disturbed SampleLarge Disturbed SampleSPT Liner SampleU76 Undisturbed SampleU100 Undisturbed SampleMazier SamplePiston SampleWater Sample<ul style="list-style-type: none">Standard Penetration TestPermeability TestImpression Packer TestBorehole Televiwer TestPressuremeter TestStandpipe TipPiezometer TipIn-situ Vane Shear Test</div>														
LOGGED BY CALVIN TSANG DATE 21/09/2020 CHECKED BY PETER CHU DATE 22/09/2020										REMARKS				

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH14

SHEET 4 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CS60

E 837 222.31

DATE from 10/09/2020 to 19/09/2020

N 815 234.82

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.37 mP.D.

[illegible]

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH14

SHEET 5 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CS60

E 837 222.31

DATE from 10/09/2020 to 19/09/2020

N 815 234.82

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.37 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
19/09/2020		7.50m at 08:00	80	100	92	70	18.2		T2-101 40.81			+	II	As Sheet 4 of 5.
19/09/2020		7.35m at 18:00		100	100	75	5.3		T2-101 42.05	-26.68	42.05	+		End of drillhole at 42.05m.

- | | | | |
|---|-------------------------|---|---------------------------|
| ● | Small Disturbed Sample | | Standard Penetration Test |
| ⌋ | Large Disturbed Sample | ⌋ | Permeability Test |
| □ | SPT Liner Sample | ⌋ | Impression Packer Test |
| ▨ | U76 Undisturbed Sample | ⌋ | Borehole Televiwer Test |
| ■ | U100 Undisturbed Sample | ⌋ | Pressuremeter Test |
| ▨ | Mazier Sample | ⌋ | Standpipe Tip |
| □ | Piston Sample | ⌋ | Piezometer Tip |
| ▲ | Water Sample | ∨ | In-situ Vane Shear Test |


LOGGED BY
CALVIN TSANG

DATE
21/09/2020

CHECKED BY
PETER CHU

DATE
22/09/2020

REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH15 SHEET 1 of 5										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 232.62 N 815 245.72		W.O. No. ASD 012560										
MACHINE / No. CCL-1				DATE from 26/09/2020 to 07/10/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.35 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
26/09/2020	SW	Dry at 08:00								+15.20	0.15			CONCRETE SLAB.
26/09/2020		Dry at 18:00						(1, 1, 2, 2, 1, 2) N=7	A 0.45 B 0.95 C 1.45 D 1.95 1 2.10 2 2.40 2.90 3 4 3.90 5 4.10 6 4.40 4.90 7 8 5.90 9 6.00 10 6.40 6.90 11 12 7.90 13 8.10 14 8.40 8.90 T6-120 15 9.50 16 9.90				Firm to stiff, red (10R 5/8), sandy clayey SILT with some subangular fine to medium gravel sized moderately strong granite and cement sand mortar. (FILL)	
03/10/2020	4.00 SW PW	Dry at 08:00						(2, 1, 2, 2, 3, 3) N=10						
								(2, 2, 3, 2, 2, 3) N=10						
								(2, 3, 2, 3, 3, 4) N=12						
								(4, 6, 8, 7, 7, 6) N=28						
										+6.45	8.90			Yellowish red (5YR 5/8) and grey (N6), angular coarse GRAVEL and COBBLE sized strong granite and concrete fragments. (FILL)
										+5.85	9.50			Very stiff, red (10R 5/8), sandy clayey SILT. (FILL)
										+5.35	10.00			
• Small Disturbed Sample Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▨ Mazier Sample □ Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test		LOGGED BY CALVIN TSANG DATE 08/10/2020 CHECKED BY PETER CHU DATE 09/10/2020		REMARKS 1. Inspection pit excavated from 0.00m-2.00m. 2. A piezometer tip was installed at 38.50m depth. 3. A standpipe was installed to 25.00m depth.	

<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH15	
				SHEET 2 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 232.62 N 815 245.72		W.O. No. ASD 012560	
MACHINE / No. CCL-1				DATE from 26/09/2020 to 07/10/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.35 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
										9.95				As Sheet 1 of 5.
				85					17		10.40			
								(9, 6, 7, 8, 7, 7) N = 29	18		11.40			
									19		11.50			
									20		11.60			
											11.90			
											11.95			
										+2.95	12.40			Firm, light grey (N7) dappled light yellowish brown, sandy silty CLAY with occasional subangular fine gravel of quartz. (ALLUVIUM)
				0					21		13.40			
									22	+1.85	13.50			Extremely weak, yellowish brown (10YR 5/8), completely decomposed medium grained GRANITE. (Medium to coarse SAND with some fine gravel)
				100				(4, 2, 9, 10, 14, 16) N = 49	23		14.50		V	
									24		14.60			
									25		14.70			
			70								15.00			
											15.05			
									26	-0.15	15.50		V	Extremely weak, light reddish brown (5YR 6/4), completely decomposed medium grained GRANITE. (Medium to coarse SAND with some fine gravel)
				85					27		16.50			
								(6, 8, 10, 13, 17, 26) N = 66	28	-1.25	16.60			Extremely weak, yellowish brown (10YR 5/8), completely decomposed medium grained GRANITE. (Medium to coarse SAND with some fine gravel)
									29		16.70			
											17.00			
											17.05			
									30		17.50		V	
									31		18.50			
									32		18.60			
								(7, 10, 10, 16, 21, 33) N = 60	33		18.70			
											19.00			
											19.05			
											19.50			
										-4.65	20.00			

<ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▧ Mazier Sample ▦ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> Standard Penetration Test ◆ Permeability Test — Impression Packer Test — Borehole Televier Test — Pressuremeter Test — Standpipe Tip ▲ Piezometer Tip ∨ In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 08/10/2020 CHECKED BY PETER CHU DATE 09/10/2020
REMARKS		

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH15

SHEET 3 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 232.62

DATE from 26/09/2020 to 07/10/2020

N 815 245.72

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.35 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
03/10/2020 05/10/2020	20.50 PVV HW	6.50m at 18:00	70	100				<div>(8, 12, 17, 22, 32, 42) N = 113</div>	<div>34</div> <div>35 20.50 20.60 20.70</div> <div>36 21.00 21.05</div>			V	As Sheet 2 of 5.	
		6.00m at 08:00		<div>(14, 14, 17, 22, 32, 52) N = 123</div>	<div>38 22.60 22.70</div> <div>39 23.00 23.05</div>									
								<div>(13, 22, 32, 42, 51, 60) N = 185</div>	<div>40 24.60 24.70</div> <div>41 25.00 25.05</div>	-9.25	24.60	V	Extremely weak, light red (10R 6/8), completely decomposed medium grained GRANITE. (Slightly clayey silty medium to coarse SAND with some fine to medium gravel)	
							<div>(50/60mm 200/50mm) 200bls/50mm</div>	<div>42 26.60 26.66 26.71</div>						
								<div>(50/60mm 200/50mm) 200bls/50mm</div>	<div>43 28.60 28.66 28.71</div>					
										-14.65	30.00			
<div><div>● Small Disturbed Sample</div><div>Large Disturbed Sample</div><div>SPT Liner Sample</div><div>U76 Undisturbed Sample</div><div>U100 Undisturbed Sample</div><div>Mazier Sample</div><div>Piston Sample</div><div>Water Sample</div><div>Standard Penetration Test</div><div>Permeability Test</div><div>Impression Packer Test</div><div>Borehole Televiewer Test</div><div>Pressuremeter Test</div><div>Standpipe Tip</div><div>Piezometer Tip</div><div>In-situ Vane Shear Test</div></div>									LOGGED BY CALVIN TSANG DATE 08/10/2020 CHECKED BY PETER CHU DATE 09/10/2020		REMARKS			

<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH15	
		CONTRACT No. TC G518		SHEET 4 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED			CO-ORDINATES		W.O. No. ASD 012560
MACHINE / No. CCL-1			E 837 232.62 N 815 245.72		DATE from 26/09/2020 to 07/10/2020
FLUSHING MEDIUM WATER			ORIENTATION Vertical		GROUND LEVEL +15.35 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(50/50mm) I 200/50mm 200b/s/50mm	● 44 30.60 30.65 30.70			V		As Sheet 3 of 5.
								(50/50mm) I 200/50mm 200b/s/50mm	● 45 32.60 32.65 32.70	-17.25	32.60	V		Weak, reddish brown (5YR 5/4), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)
								(50/50mm) I 200/50mm 200b/s/50mm	● 46 34.60 34.65 34.70			IV		
								(50/40mm) I 200/40mm 200b/s/40mm	● 47 36.60 36.63 36.68			IV		
								(50/40mm) I 200/30mm 200b/s/30mm	● 48 38.60 38.62 38.67			IV		
	39.70 HW		80	95	57	21	NI		T2-101 39.70	-24.35 -24.49 -24.59	39.70 39.84 39.94	III		Moderately strong, yellowish brown, moderately

<ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ■ U100 Undisturbed Sample ▤ Mazier Sample ▥ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> — Standard Penetration Test — Permeability Test — Impression Packer Test — Borehole Televier Test — Pressuremeter Test — Standpipe Tip — Piezometer Tip — In-situ Vane Shear Test 	<div> LOGGED BY CALVIN TSANG </div> <div> DATE 08/10/2020 </div> <div> CHECKED BY PETER CHU </div> <div> DATE 09/10/2020 </div>
REMARKS		

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH15

SHEET 5 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 232.62

DATE from 26/09/2020 to 07/10/2020

N 815 245.72

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.35 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
05/10/2020 06/10/2020 <														

- | | | | |
|---|-------------------------|---|---------------------------|
| ● | Small Disturbed Sample | ↓ | Standard Penetration Test |
| ↓ | Large Disturbed Sample | ⬇ | Permeability Test |
| □ | SPT Liner Sample | ⊥ | Impression Packer Test |
| ▨ | U76 Undisturbed Sample | ⋮ | Borehole Televiwer Test |
| ■ | U100 Undisturbed Sample | ⊥ | Pressuremeter Test |
| ▨ | Mazier Sample | ⬆ | Standpipe Tip |
| □ | Piston Sample | ⬇ | Piezometer Tip |
| ▲ | Water Sample | ∨ | In-situ Vane Shear Test |


LOGGED BY
CALVIN TSANG

DATE
08/10/2020

CHECKED BY
PETER CHU

DATE
09/10/2020

REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH21 SHEET 1 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 294.45 N 815 311.12		W.O. No. ASD 012560 DATE from 18/08/2020 to 02/09/2020	
MACHINE / No. DR-20		FLUSHING MEDIUM WATER		ORIENTATION Vertical GROUND LEVEL +15.43 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
18/08/2020	SW	Dry at 08:00								+15.28	0.15			CONCRETE SLAB.
18/08/2020		Dry at 18:00						(1, 1, 2, 1, 2, 2) N = 7	A 0.45 B 0.95 C 1.45 D 1.95 1 2.10 2 2.40 2.45				Loose, red (10R 5/8) spotted white, silty slightly clayey fine to medium SAND with some subangular fine gravel sized quartz. (FILL)	
29/08/2020	2.90 SW PW	Dry at 08:00		95				(1, 1, 2, 2, 3, 3) N = 10	3 2.90 4 3.90 5 4.00 6 4.40 4.45					
				95				(2, 2, 4, 4, 4, 5) N = 18	7 4.90 8 5.90 9 6.00 10 6.40 6.45	+10.53	4.90		VI	Stiff to very stiff, yellowish red (5YR 5/8), sandy clayey SILT with much subangular fine gravel of quartz. (RESIDUAL SOIL)
				100				(1, 2, 2, 2, 3, 5) N = 13	11 6.90 12 7.90 13 8.00 14 8.40 8.45					Extremely weak, reddish yellow (5YR 6/8), completely decomposed medium grained GRANITE. (Medium to coarse SAND with some fine to medium gravel)
	8.90 PW HW			100					15 8.90 16 9.90	+6.53	8.90		V	
										+5.43	10.00			

<ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> — Standard Penetration Test — Permeability Test — Impression Packer Test — Borehole Televiwer Test — Pressuremeter Test — Standpipe Tip — Piezometer Tip — In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 03/09/2020 CHECKED BY PETER CHU DATE 04/09/2020	REMARKS 1. Inspection pit excavated from 0.00m-2.00m.
---	---	--	--

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH21	
		SHEET 2 of 5			
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 294.45 N 815 311.12		W.O. No. ASD 012560	
MACHINE / No. DR-20				DATE from 18/08/2020 to 02/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.43 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
		5.45m at 18:00 7.43m at 08:00						(2, 2, 3, 5, 7, 10) N = 25 (2, 3, 3, 4, 5, 8) N = 20 (3, 2, 3, 3, 4, 10) N = 20 (2, 3, 3, 5, 6, 10) N = 24 (6, 9, 12, 14, 15, 24) N = 65	17 10.00 18 10.10 10.40 10.45	+4.53	10.90		V	As Sheet 1 of 5.
									19 10.90 20 11.90 21 12.00 22 12.40 12.45 23 12.90 24 13.90 25 14.00 26 14.10 14.45 27 14.90 28 15.90 29 16.00 30 16.10 16.45 31 16.90 32 17.90 33 18.00 18.10 34 18.40 18.45 35 18.90 36 19.90					
									Extremely weak, red (10R 6/8) spotted white and dark brown, completely decomposed medium grained GRANITE. (Medium to coarse SAND with some fine to medium gravel)					
									Extremely weak, yellowish red (5YR 5/8) spotted dark brown, completely decomposed medium grained GRANITE. (Silty fine to medium SAND)					
									Extremely weak, red (10R 5/8) spotted white and dark brown, completely decomposed medium grained GRANITE. (Silty medium to coarse SAND)					

<div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> ⊥ Standard Penetration Test ⊥ Permeability Test ⊥ Impression Packer Test ⊥ Borehole Televiwer Test ⊥ Pressuremeter Test ⊥ Standpipe Tip ⊥ Piezometer Tip ⊥ In-situ Vane Shear Test </div> </div>	LOGGED BY CALVIN TSANG DATE 03/09/2020 CHECKED BY PETER CHU DATE 04/09/2020	REMARKS
---	--	---------

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH21										
				SHEET 3 of 5										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 294.45 N 815 311.12		W.O. No. ASD 012560										
MACHINE / No. DR-20				DATE from 18/08/2020 to 02/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.43 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(4, 6, 10, 18, 25, 52) N = 105	20.00 20.10 37 20.40 38 20.45				V	As Sheet 2 of 5.
								(6, 10, 12, 21, 28, 49) N = 110	22.00 22.10 39 22.40 40 22.45	-6.57	22.00			Extremely weak, pink (5YR 7/3), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)
								(8, 14, 17, 20, 25, 27) N = 89	24.00 24.10 41 24.40 42 24.45					
								(8, 11, 16, 16, 18, 21) N = 71	26.00 26.10 43 26.40 44 26.45				V	
								(6, 10, 16, 19, 20, 32) N = 87	28.00 28.10 45 28.40 46 28.45					
										-14.57	30.00			
<div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▧ Mazier Sample ▦ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> Standard Penetration Test ○ Permeability Test — Impression Packer Test — Borehole Televiwer Test — Pressuremeter Test □ Standpipe Tip ▲ Piezometer Tip ✓ In-situ Vane Shear Test </div> </div>									LOGGED BY <u>CALVIN TSANG</u> DATE <u>03/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>04/09/2020</u>		REMARKS			

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH21

SHEET 4 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. DR-20

E 837 294.45

DATE from 18/08/2020 to 02/09/2020

N 815 311.12

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.43 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
31/08/2020 01/09/2020		6.21m at 18:00 9.43m at 08:00	70					(5, 20, 24, 26, 28, 43) N = 121	47 30.00 30.10 48 30.40 30.45				V	As Sheet 3 of 5.
								(5, 12, 17, 19, 29, 44) N = 109	49 32.00 32.10 50 32.40 32.45					
								(11, 39/65mm 200/20mm) 200bls/20mm	51 34.00 34.11 34.16					
								(27, 23/15mm 200/10mm) 200bls/10mm	52 36.00 36.05 36.10					
								-20.57	36.00					
								-22.12	37.55					
37.55 HW							NA	8.7 NI					IV	Weak, pink (5YR 7/3), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)
							8.7 NI						IV	
							6.9 NI						IV	
							NI						III	
								T2-101	37.55	-22.51	37.94			Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are closely locally very closely and medium spaced, rough and smooth planar, extremely narrow, iron and manganese oxides stained, dipping at 0°-10°, 10°-20° and 70°-80°. 37.55- 37.94m: Moderately weak, highly decomposed. (Coarse GRAVEL and COBBLE)
								T2-101	38.70					
								T2-101	39.20					
								T2-101		-24.57	40.00			

LOGGED BY CALVIN TSANG		REMARKS	
DATE 03/09/2020			
CHECKED BY PETER CHU			
DATE 04/09/2020			



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH21

SHEET 5 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. DR-20

E 837 294.45

DATE from 18/08/2020 to 02/09/2020

N 815 311.12

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.43 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				100	100	61	2.0		T2-101			+	III	As Sheet 4 of 5.
							12.3			40.60		+		
				100	39	38	NA		T2-101	-25.81	41.24	+	IV	
01/09/2020		6.43m at 18:00										+		
02/09/2020		9.78m at 08:00					>20			41.84		+	III	41.24- 41.77m: Moderately weak, highly decomposed with very closely subhorizontal microfractures. (COBBLE and some coarse gravel)
				100	87	82	5.7		T2-101	-26.34	41.77	+		
												+	III	Moderately strong, reddish brown, moderately decomposed medium grained GRANITE. Joints are closely locally very closely and widely spaced, rough and smooth planar, extremely narrow, iron and manganese oxides stained, dipping at 0°-10°, 10°-20° and 30°-40°.
			80	100	100	83			T2-101	43.20		+		
							1.5		T2-101	43.83		+	II	43.77- 44.61m: Strong, slightly decomposed.
				100	98	84	19.0		T2-101	-28.34	43.77	+		
												+	III	
							5.6		T2-101	-29.88	45.31	+		
				100	96	92	1.3		T2-101	-30.08	45.51	+	II	45.31- 45.51m: Strong, slightly decomposed.
										-30.18	45.61	+	III	
									T2-101	-30.48	46.61	+	II	45.61- 46.26m: Strong, slightly decomposed.
										-30.83	46.26	+		
02/09/2020		6.33m at 18:00		100	100	100	>20		T2-101	46.43		+	III	
										47.06		+		End of drillhole at 47.06m.

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test


LOGGED BY
CALVIN TSANG

DATE
03/09/2020

CHECKED BY
PETER CHU

DATE
04/09/2020

REMARKS













 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH22 SHEET 1 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 304.76 N 815 322.02		W.O. No. ASD 012560	
MACHINE / No. CCL-1				DATE from 27/08/2020 to 29/08/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.41 mP.D.	


Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
27/08/2020	SW	Dry at 08:00								+15.26	0.15			CONCRETE SLAB.
								(3, 1, 2, 1, 1, 1) N=5	A 0.45 0.50 B 0.95 1.00 C 1.45 1.50 D 1.95 2.00 1 2.10 2 2.40 2.45	+13.41	2.00			Red (10R 5/8), sandy clayey SILT with much subangular fine to medium gravel sized moderately weak to moderately strong granite and tuff. (FILL)
	2.90 SW PW							(1, 3, 1, 1, 2, 2) N=6	3 2.90 4 3.90 4.00 5 4.10 6 4.40 4.45 7 4.90					Firm to stiff, yellowish red (5YR 5/6) and yellowish brown (10YR 5/4), sandy clayey SILT with some subangular fine gravel sized quartz. (FILL)
			70					(2, 3, 2, 2, 3, 2) N=9	8 5.90 6.00 9 6.10 10 6.40 6.45					
								(4, 6, 8, 9, 10, 14) N=41	11 6.78 7.18 7.20 12 7.30 7.60 7.65 7.90	+8.63	6.78			Pinkish grey (5YR 7/2), subangular BOULDER sized strong granite. (FILL)
			80	48				(3, 6, 7, 9, 14, 20) N=50	13 8.90 9.00 14 9.10 15 9.40 9.45 16 9.90	+8.23	7.18			Hard, yellowish red (5YR 5/8), sandy clayey SILT. (RESIDUAL SOIL)
			70							+5.51	9.90		VI	
										+5.41	10.00			

<ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> Standard Penetration Test Permeability Test Impression Packer Test Borehole Televier Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 29/08/2020 CHECKED BY PETER CHU DATE 31/08/2020	REMARKS 1. Inspection pit excavated from 0.00m-2.00m. 2. A piezometer tip was installed at 42.58m depth. 3. A standpipe was installed to 25.00m depth.
---	--	--	---

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH22	
		CONTRACT No. TC G518		SHEET 2 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 304.76 N 815 322.02		W.O. No. ASD 012560	
MACHINE / No. CCL-1				DATE from 27/08/2020 to 29/08/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.41 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
<div style="font-size: 0.8em;"> 27/08/2020 28/08/2020 </div>	9.00m at 18:00	9.15m at 08:00	100	100				(5, 8, 10, 14, 21, 35) N = 80	17			V	Extremely weak, red (10R 4/6), completely decomposed medium grained GRANITE. (Hard, sandy clayey SILT)		
			70							18	10.90			V	
										19	11.00				
										20	11.10				
										21	11.40				
										22	11.45				
										T2-101	11.80	+3.61		11.80	
										21	11.84	+3.57		11.84	III
										22	12.00	+3.41		12.00	V
										23	12.40				
										24	12.45				
				16.00 PW HW		90									
							25	12.90							
							26	13.90	+1.41	14.00					
							27	14.00							
							28	14.40							
							29	14.45							
							30	14.90	+0.51	14.90					
							31	15.90							
							32	16.00							
							33	16.10							
							34	16.40							
			70									V	Extremely weak, light red (10R 6/6), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine gravel)		
			80								V	Extremely weak, red (10R 5/8) spotted white, completely decomposed medium grained GRANITE. (Slightly silty fine to medium SAND with some fine gravel)			
			70								V		Extremely weak, red (10R 5/8) spotted and dappled white, completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND with much fine to medium gravel)		
			80								V	Extremely weak, red (10R 5/8) spotted and dappled white, completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND with much fine to medium gravel)			
			70								V	Strong, white, slightly decomposed QUARTZ VEIN. Rock is non-intact. 17.84- 18.00m: No recovery assumed to be completely decomposed GRANITE. Extremely weak, red (10R 5/8) spotted grey and white, completely decomposed medium grained GRANITE. (Silty slightly clayey fine to medium SAND with much fine to medium gravel)			
			80								V	Extremely weak, red (10R 5/8) spotted and dappled white, completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND with much fine to medium gravel)			
			70								V	Extremely weak, red (10R 5/8) spotted and dappled white, completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND with much fine to medium gravel)			
			80								V	Extremely weak, red (10R 5/8) spotted and dappled white, completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND with much fine to medium gravel)			
			70								V	Extremely weak, red (10R 5/8) spotted and dappled white, completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND with much fine to medium gravel)			
			80								V	Extremely weak, red (10R 5/8) spotted and dappled white, completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND with much fine to medium gravel)			
			70								V	Extremely weak, red (10R 5/8) spotted and dappled white, completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND with much fine to medium gravel)			
			80								V	Extremely weak, red (10R 5/8) spotted and dappled white, completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND with much fine to medium gravel)			
			70								V	Extremely weak, red (10R 5/8) spotted and dappled white, completely decomposed medium grained GRANITE. (S			

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH22 SHEET 3 of 5											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 304.76 N 815 322.02		W.O. No. ASD 012560 DATE from 27/08/2020 to 29/08/2020											
MACHINE / No. CCL-1		FLUSHING MEDIUM WATER		ORIENTATION Vertical GROUND LEVEL +15.41 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
								(4, 6, 10, 11, 14, 15) N = 50 	37 20.00 38 20.10 38 20.40 38 20.45				V	As Sheet 2 of 5.	
								(6, 8, 11, 17, 28, 43) N = 97 	39 22.00 40 22.10 40 22.40 40 22.45	-6.59	22.00			Extremely weak, yellow (10YR 7/6), completely decomposed medium grained GRANITE. (Slightly clayey silty medium to coarse SAND with much fine gravel)	
								(8, 11, 17, 28, 33, 52) N = 130 	41 24.00 42 24.10 42 24.40 42 24.45						
			70												
								(10, 14, 27, 39, 42, 60) N = 168 	43 26.00 44 26.10 44 26.40				V		
								(50/70mm 200/40mm) 200bls/40mm 	45 28.00 45 28.06 45 28.11						
								(50/60mm)		-14.59	30.00				
● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample  U76 Undisturbed Sample  U100 Undisturbed Sample  Mazier Sample  Piston Sample  Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 29/08/2020 CHECKED BY PETER CHU DATE 31/08/2020		REMARKS	

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH22 SHEET 4 of 5											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 304.76 N 815 322.02		W.O. No. ASD 012560 DATE from 27/08/2020 to 29/08/2020											
MACHINE / No. CCL-1		FLUSHING MEDIUM WATER		ORIENTATION Vertical GROUND LEVEL +15.41 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
								I 200/40mm 200bls/40mm	● 46 30.00 30.05 30.10					As Sheet 3 of 5.	
								(50/50mm) I 200/40mm 200bls/40mm	● 47 32.00 32.04 32.09						
								(50/50mm) I 200/40mm 200bls/40mm	● 48 34.00 34.04 34.09						
								(50/50mm) I 200/40mm 200bls/40mm	● 49 36.00 36.04 36.09						
								(50/50mm) I 200/40mm 200bls/40mm	● 50 38.00 38.04 38.09	-22.59 -24.59	38.00 40.00			Weak, yellowish brown (10YR 5/8), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)	
(50/50mm)										-24.59	40.00				
● Small Disturbed Sample I Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televier Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 29/08/2020 CHECKED BY PETER CHU DATE 31/08/2020		REMARKS	

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH22

SHEET 5 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No.	ASD 012560
----------	------------

MACHINE / No. CCL-1

E 837 304.76

DATE from 27/08/2020 to 29/08/2020

N 815 322.02

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.41 mP.D.

[illegible]

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH23

SHEET 1 of 4

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. DR-25

E 837 223.48

DATE from 21/09/2020 to 26/09/2020

N 815 215.14

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.43 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
21/09/2020	HW	Dry at 08:00 Dry at 18:00								+15.28	0.15			CONCRETE SLAB. Light brownish grey (10YR 6/2), medium to coarse SAND with much fine to medium gravel sized strong granite, concrete, iron and wood fragments. (FILL)
21/09/2020 22/09/2020		Dry at 08:00								+14.48	0.95			Grey (N5) and brown (10YR 4/3), angular coarse GRAVEL and COBBLE sized concrete, brick, iron, wood and tile fragments. (FILL)

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH23	
		SHEET 2 of 4			
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 223.48 N 815 215.14		W.O. No. ASD 012560	
MACHINE / No. DR-25				DATE from 21/09/2020 to 26/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.43 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description		
23/09/2020 24/09/2020	5.30m at 18:00	08:00	100	100	100			(5, 9, 21, 39, 140/70mm) 200bls/220mm (5, 6, 12, 15, 21, 26) N = 74 (3, 6, 8, 10, 11, 13) N = 42	T2-101	10.20				10.00- 10.42m: Fine grained GRANITE.		
			70	100	100	100	0.3			T2-101	+5.01	10.42	++	II		
										T2-101	+4.54	10.89	++			
										T2-101	+4.26	11.17	++			
										T2-101	+4.20	11.23	++		10.89- 11.17m: Fine to medium grained GRANITE.	
										T2-101	+4.06	11.37	++		11.23- 11.37m: Fine to medium grained GRANITE.	
										T2-101	+3.95	11.48	++			
										T2-101	+3.63	11.80	++			
										T2-101	+3.26	12.17	++		V	11.48- 11.80m: Fine to medium grained GRANITE.
										T2-101	+2.89	12.54	++		III	Extremely weak, yellowish red (5YR 5/8), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine gravel)
24/09/2020 25/09/2020	5.10m at 08:00	08:00	80													
			70	100	92	92	0.4									
24/09/2020 25/09/2020	4.90m at 18:00	08:00	80	90												
24/09/2020 25/09/2020	4.60m at	08:00	0				20.0									
24/09/2020 25/09/2020	4.90m at 18:00	08:00	70	100	99	95	0.3									
24/09/2020 25/09/2020	4.60m at	08:00	100	100	100											

<ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ┆ Standard Penetration Test ┆ Permeability Test ┆ Impression Packer Test ┆ Borehole Televiwer Test ┆ Pressuremeter Test ┆ Standpipe Tip ┆ Piezometer Tip ┆ In-situ Vane Shear Test 	LOGGED BY <u>CALVIN TSANG</u> DATE <u>26/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>28/09/2020</u>	REMARKS
---	---	--	---------

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH23

SHEET 3 of 4

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. DR-25

E 837 223.48

DATE from 21/09/2020 to 26/09/2020

N 815 215.14

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.43 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
		08:00		100	100	100			T2-101			+		As Sheet 2 of 4.
				100	100	100			20.34			+		
				100	100	100			20.64			+		
			70	100	100	100	0.3		T2-101			+	II	
									21.53			+		
				92	92	92	3.5		T2-101	-6.40	21.83	+		
									22.40			+	III	21.83- 22.40m: Moderately strong, moderately decomposed.
									22.50	-6.97	22.40	+		
			80					(6, 10, 15, 17, 17, 22) N = 71	14 15			+	V	Extremely weak, yellowish red (5YR 5/8) spotted white and dark grey, completely decomposed medium grained GRANITE. (Silty medium to coarse SAND)
									22.80			+		
									22.85			+		
								(11, 25, 36, 47, 63, 54/35mm) 200bls/260mm	16 17			+		
									24.40			+		
									24.76			+		
									24.81			+		
	25.33 HW								25.33	-9.90	25.33	+	II	Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are widely to medium locally very closely spaced, rough and smooth planar, extremely narrow, iron and manganese oxides stained, dipping at 0°-10°, 10°-20°, 50°-60° and 60°-70°.
				100	97	64	18.0		T2-101	-10.22	25.65	+	III	
									26.63	-10.32	25.75	+		25.65- 25.75m: Moderately strong, moderately decomposed.
				100	100	85	1.3		T2-101			+		
			70				>20		28.12			+	II	
				100	100	98	3.9		T2-101			+		
		4.90m at 18:00							29.44			+		
25/09/2020		5.30m at 08:00		100	100	100	0.0		T2-101	-14.57	30.00	+		

- | | | | |
|---|-------------------------|---|---------------------------|
| ● | Small Disturbed Sample | ↓ | Standard Penetration Test |
| ⋮ | Large Disturbed Sample | ⬇ | Permeability Test |
| □ | SPT Liner Sample | ⏊ | Impression Packer Test |
| ▨ | U76 Undisturbed Sample | ⏊ | Borehole Televiwer Test |
| ■ | U100 Undisturbed Sample | ⏊ | Pressuremeter Test |
| ▩ | Mazier Sample | ⏊ | Standpipe Tip |
| ▮ | Piston Sample | ⏊ | Piezometer Tip |
| ▲ | Water Sample | ∨ | In-situ Vane Shear Test |


LOGGED BY
CALVIN TSANG

DATE
26/09/2020

CHECKED BY
PETER CHU

DATE
28/09/2020

REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518										DRILLHOLE No. BH23			
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																							
METHOD ROTARY CORED										CO-ORDINATES E 837 223.48 N 815 215.14										W.O. No. ASD 012560			
MACHINE / No. DR-25																				DATE from 21/09/2020 to 26/09/2020			
FLUSHING MEDIUM WATER										ORIENTATION Vertical										GROUND LEVEL +15.43 mP.D.			
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description									
26/09/2020			70	100	100	100	0.0		T2-101 ↓ 30.67	-15.24	30.67	++ ++ ++ ++	II	As Sheet 3 of 4.									
														End of drillhole at 30.67m.									
<ul style="list-style-type: none"> Small Disturbed Sample Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample Water Sample 										<ul style="list-style-type: none"> Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test 										LOGGED BY CALVIN TSANG DATE 26/09/2020 CHECKED BY PETER CHU DATE 28/09/2020		REMARKS	

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH24	
				SHEET 1 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 232.75 N 815 224.95		W.O. No. ASD 012560	
MACHINE / No. CS60				DATE from 19/09/2020 to 30/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.40 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
19/09/2020	SW	Dry at 08:00								+15.25	0.15			CONCRETE SLAB.
19/09/2020		Dry at 18:00												Yellowish red (5YR 5/8), sandy clayey SILT with some angular to subangular fine to coarse gravel sized strong granite, quartz and concrete fragments. (FILL)
22/09/2020		Dry at 08:00	80	85					T6-146	+14.40	1.00			Grey (N6), subangular COBBLE sized concrete and stell fragments. (FILL)
										+13.60	1.80			Stiff, yellowish red (5YR 5/8), sandy clayey SILT. (FILL)
			70					(2, 2, 3, 2, 2, 3) N = 10	1 2					
	3.00 SW PW									+12.40	3.00			Grey (N6), subangular COBBLE with some coarse gravel and occasional boulder sized concrete and steel fragments. (FILL)
				24					T6-120					
			80							4.00				
				21					T6-120					
								(2, 3, 3, 2, 3, 3) N = 11	3 4	+10.40	5.00			Stiff, yellowish red (5YR 5/8), sandy clayey SILT with some subangular fine gravel sized quartz. (FILL)
										5.00				
										5.10				
										5.40				
										5.45				
										5.90				
				90										
								(2, 2, 2, 3, 3, 3) N = 11	6 7 8	6.90 7.00 7.10				
		5.42m at 18:00	70							7.40				
		5.50m at 08:00								7.45				
										7.90				
										+7.50	7.90			Very stiff, yellowish brown (10YR 5/4), sandy clayey SILT with some subangular fine gravel of quartz. (ALLUVIUM)
								(3, 3, 3, 4, 4, 5) N = 16	9 10 11 12	8.90 9.00 9.10				
										9.40				
										9.45				
										9.64				
									T6-120	+5.76	9.64			Yellowish brown (10YR 5/8), subangular BOULDER and occasional cobble of moderately strong granite.
			80	100						+5.40	10.00			

<ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> — Standard Penetration Test ● Permeability Test — Impression Packer Test — Borehole Televier Test — Pressuremeter Test — Standpipe Tip — Piezometer Tip — In-situ Vane Shear Test 	LOGGED BY <u>CALVIN TSANG</u> DATE <u>03/10/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>05/10/2020</u>	REMARKS 1. Inspection pit excavated from 0.00m-1.00m.
---	--	--	--

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH24

SHEET 2 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CS60

E 837 232.75

DATE from 19/09/2020 to 30/09/2020

N 815 224.95

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.40 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				100					T6-120					(ALLUVIUM)
			80	100					T6-120					
		5.90m at 18:00		100					T6-120					
25/09/2020		5.50m at 08:00								+2.94	12.46			Yellowish brown (10YR 5/4), fine to medium SAND. (ALLUVIUM)
26/09/2020								(3, 3, 4, 5, 6, 6) N = 21	13					
				0				36 bls	14					
				100				74 bls	15					
									16					Extremely weak, light red (10R 6/8) to dark greyish brown (10YR 3/2), completely decomposed medium grained GRANITE. (Slightly silty clayey fine to medium SAND)
								(4, 7, 8, 18, 18, 24) N = 68	17					
									18					
			70						19					
		6.00m at 18:00		95					20					
26/09/2020		6.20m at 08:00						(5, 7, 10, 14, 18, 28) N = 170	21					
28/09/2020									22					
									23					
									24					
		19.50 PW HW		90				(8, 10, 18, 24, 32, 44) N = 118	25					
									26					
										-4.60	20.00			

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample

- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televierer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG





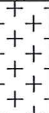



DATE
03/10/2020


CHECKED BY
PETER CHU


DATE
05/10/2020

REMARKS

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH24										
				SHEET 3 of 5										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 232.75 N 815 224.95		W.O. No. ASD 012560										
MACHINE / No. CS60				DATE from 19/09/2020 to 30/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.40 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
			70					(7, 9, 14, 20, 28, 40) N = 102	27 28	21.50 21.60 21.90 21.95			V	As Sheet 2 of 5.
							(8, 12, 15, 22, 30, 42) N = 109	29 30	23.50 23.60 23.90 23.95					
							(8, 11, 14, 21, 27, 40) N = 102	31 32	25.50 25.60 25.90 25.95					
							(25, 25/35mm, 75, 125/75mm) 200bts/150mm	33 34	27.50 27.71 27.76					
							(50/75mm, 200/75mm) 200bts/75mm	35	29.50 29.60 29.65					
										-14.60	30.00			
<div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample ↑ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> ⊥ Standard Penetration Test ⊥ Permeability Test ⊥ Impression Packer Test ⊥ Borehole Televiwer Test ⊥ Pressuremeter Test ⊥ Standpipe Tip ⊥ Piezometer Tip ∨ In-situ Vane Shear Test </div> </div>								LOGGED BY CALVIN TSANG DATE 03/10/2020 CHECKED BY PETER CHU DATE 05/10/2020		REMARKS				

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518										DRILLHOLE No. BH24					
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																									
METHOD ROTARY CORED										CO-ORDINATES E 837 232.75 N 815 224.95										W.O. No. ASD 012560					
MACHINE / No. CS60																				DATE from 19/09/2020 to 30/09/2020					
FLUSHING MEDIUM WATER										ORIENTATION Vertical										GROUND LEVEL +15.40 mP.D.					
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description											
			70					(50/75mm 200/75mm) 200bls/75mm	● 36 31.50 31.60 31.65	-16.10	31.50		V	As Sheet 2 of 5.											
								(50/50mm 200/70mm) 200bls/70mm	● 37 33.50 33.57 33.62				IV	Weak, yellowish brown (10YR 5/4), highly decomposed medium grained GRANITE. (Fine to medium GRAVEL)											
								(50/40mm 200/60mm) 200bls/60mm	● 38 35.50 35.55 35.60				IV												
								(50/40mm 200/60mm) 200bls/60mm	● 39 37.50 37.55 37.60 37.85	-22.45	37.85		III	Moderately strong, reddish brown spotted green and grey, moderately decomposed slightly epidotized medium grained GRANITE. Joints are closely to medium spaced, rough planar, extremely narrow, iron oxide stained, epidote coated, dipping at 20°-30°, 40°-50° and 80°-90°.											
			80	99	71	65	3.7						II												
	6.50m at 18:00						8.0						III	38.62- 38.95m: Strong, slightly decomposed.											
	7.00m at 08:00		70					(50/40mm 200/60mm) 200bls/60mm	● 40 39.35 39.50 39.55 39.60	-23.95	39.35		IV	Weak, pinkish grey (5YR 7/2) dappled green, highly decomposed slightly epidotized medium grained GRANITE. (Sandy fine to medium GRAVEL)											
28/09/2020 29/09/2020									T2-101																
● Small Disturbed Sample I Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample									I Standard Penetration Test ● Permeability Test I Impression Packer Test I Borehole Televiwer Test I Pressuremeter Test I Standpipe Tip I Piezometer Tip V In-situ Vane Shear Test									LOGGED BY <u>CALVIN TSANG</u> DATE <u>03/10/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>05/10/2020</u>				REMARKS			

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH24 SHEET 5 of 5													
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																	
METHOD ROTARY CORED		CO-ORDINATES E 837 232.75 N 815 224.95		W.O. No. ASD 012560 DATE from 19/09/2020 to 30/09/2020													
MACHINE / No. CS60																	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.40 mP.D.													
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description			
	40.80 HW		70										IV	As Sheet 4 of 5.			
				94	49	37	NA		T2-101	40.80	-25.40	40.80	IV	<p>Strong, pinkish grey spotted green, slightly decomposed slightly epidotized medium grained GRANITE. Joints are closely spaced, rough planar, extremely narrow, iron oxide stained, epidote coated, dipping at 0°-10° and 60°-70°.</p> <p>40.80- 40.96m: Moderately weak, highly decomposed. (Sandy medium to coarse GRAVEL and occasional cobble)</p> <p>Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are medium to widely locally closely spaced, rough and smooth planar, extremely narrow, epidote coated, dipping at 0°-10° and 10°-20°.</p> <p>43.05- 43.35m: Fine grained GRANITE with pegmatite.</p> <p>43.85- 44.15m: Fine grained GRANITE with pegmatite.</p> <p>44.24- 44.40m: With closely spaced irregular pegmatite veins (10-40mm thick).</p> <p>44.94- 45.40m: Fine grained GRANITE with pegmatite.</p>			
				100	77	57	NI		T2-101	41.50	-26.10	41.50	II				
				100			9.2		T2-101	42.49							
				100	100	85			T2-101	43.49	-27.65	43.05					
				100					T2-101	43.49	-27.95	43.35					
				100	96	83	2.4		T2-101	44.74	-28.45	43.85	II				
				100					T2-101	44.74	-28.75	44.15					
				100					T2-101	44.74	-28.84	44.24					
				100					T2-101	44.74	-29.00	44.40					
				100	100	97			T2-101	46.18	-29.54	44.94					
				100			0.6		T2-101	46.18	-30.00	45.40					
				100	100	100			T2-101	46.91	-31.51	46.91		End of drillhole at 46.91m.			
● Small Disturbed Sample Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 03/10/2020 CHECKED BY PETER CHU DATE 05/10/2020			REMARKS		

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH25 SHEET 1 of 6											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 243.06 N 815 235.85		W.O. No. ASD 012560											
MACHINE / No. CCL-1				DATE from 21/09/2020 to 30/09/2020											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.33 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
21/09/2020	SW	Dry at 08:00								+15.18	0.15			CONCRETE SLAB. Weak red (10R 5/4), silty clayey fine to medium SAND with much subangular fine to medium gravel sized strong granite, concrete, cement sand mortar and asphalt fragments. (FILL)	
21/09/2020		Dry at 18:00								+14.03	1.30			Pinkish grey (5YR 7/2), angular COBBLE sized strong granite. (FILL)	
25/09/2020		Dry at 08:00	80	14				(1, 2, 3, 3, 2, 2) N = 10	T2-101 1 2.00 2 2.10 3 2.40 4 2.45	+13.33	2.00			Stiff, yellowish brown (10YR 5/4), sandy clayey SILT with some subangular fine gravel sized moderately weak granite. (FILL)	
	2.90 SW PW							(2, 1, 2, 3, 2, 2) N = 9	5 2.90 6 3.90 7 4.00 8 4.10 9 4.40 10 4.45	+10.43	4.90			Stiff, yellowish red (10YR 5/8), sandy clayey SILT with some subangular fine gravel sized quartz. (FILL)	
								(2, 3, 2, 3, 3, 4) N = 12	11 4.90 12 5.90 13 6.00 14 6.10 15 6.40 16 6.45						
								(2, 3, 3, 4, 3, 4) N = 14	17 6.90 18 7.90 19 8.00 20 8.10 21 8.40 22 8.45	+6.43	8.90			Hard, yellowish red (10YR 5/8), sandy clayey SILT with some subangular fine gravel sized quartz. (FILL)	
									23 8.90 24 9.90	+5.33	10.00				
• Small Disturbed Sample Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▨ Mazier Sample □ Piston Sample ▲ Water Sample									Standard Penetration Test • Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test ▲ Standpipe Tip ▲ Piezometer Tip ∨ In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 03/10/2020 CHECKED BY PETER CHU DATE 05/10/2020		REMARKS 1. Inspection pit excavated from 0.00m-1.30m. 2. A piezometer tip was installed at 46.50m depth. 3. A standpipe was installed to 25.00m depth.	



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH25

SHEET 2 of 6

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 243.06

DATE from 21/09/2020 to 30/09/2020

N 815 235.85

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.33 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(4, 6, 7, 8, 7) N = 30	17 10.00 18 10.10 10.40 10.45					As Sheet 1 of 6.
				100				(4, 6, 7, 7, 9, 8) N = 31	19 10.90 20 11.90 21 12.00 22 12.40 12.45	+4.43	10.90			Hard, grey (N6) dappled red, slightly sandy clayey SILT. (ALLUVIUM)
25/09/2020 26/09/2020	6.50m at 18:00			100				(4, 7, 9, 13, 12, 17) N = 51	23 12.90 24 13.90 25 14.00 26 14.40 14.45	+2.43	12.90			Very dense, white (N8) spotted grey, slightly clayey silty medium to coarse SAND with some fine gravel of quartz. (ALLUVIUM)
	6.00m at 08:00			100				(4, 7, 9, 10, 10, 15) N = 44	27 14.90 28 15.90 29 16.00 30 16.40 16.45	-0.67	16.00			Hard, white (N8) spotted grey, sandy clayey SILT with some subangular fine gravel of quartz. (ALLUVIUM)
			70	100				(5, 8, 11, 14, 19, 30) N = 74	31 16.90 32 17.90 33 18.00 34 18.40 18.45	-1.57	16.90		V	Extremely weak, reddish yellow (5YR 6/8) spotted grey, completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND with some fine gravel)
				100					35 18.90 36 19.90	-3.57	18.90		V	Extremely weak, light red (10R 6/8) spotted black and white dappled brown, completely decomposed medium grained GRANITE. (Silty fine to medium SAND with some fine gravel)
										-4.67	20.00			

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
03/10/2020

CHECKED BY
PETER CHU

DATE
05/10/2020

REMARKS

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH25											
				SHEET 3 of 6											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 243.06 N 815 235.85		W.O. No. ASD 012560											
MACHINE / No. CCL-1				DATE from 21/09/2020 to 30/09/2020											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.33 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
	24.00 PW HW	70	70	70	70	70	70	(7, 10, 15, 27, 32, 45) N = 120	37 20.00 38 20.10 38 20.40 38 20.45	-6.67	22.00		V	As Sheet 2 of 6.	
								(8, 11, 10, 15, 16, 25) N = 66	39 22.00 40 22.10 40 22.40 40 22.45					Extremely weak, yellowish brown (10YR 5/4), completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND with some fine gravel)	
								(9, 9, 13, 17, 28, 42) N = 100	41 24.00 42 24.10 42 24.40 42 24.45					V	Extremely weak, light red (10R 6/8) and yellowish brown (10YR 5/4), completely decomposed medium grained GRANITE. (Clayey silty fine to medium SAND with some fine gravel)
								(9, 12, 28, 31, 45, 69) N = 173	43 26.00 44 26.10 44 26.40 44 26.45					V	Extremely weak, light red (10R 6/8) and yellowish brown (10YR 5/4), completely decomposed medium grained GRANITE. (Clayey silty fine to medium SAND with some fine gravel)
26/09/2020 28/09/2020	7.00m at 18:00 6.30m at 08:00							(13, 35, 73, 127/35mm) 200b/s/110mm	45 28.00 45 28.20 45 28.25	-10.67	26.00		V		
								(50/60mm)	-14.67					30.00	
<div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▧ Mazier Sample ▦ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> — Standard Penetration Test — Permeability Test — Impression Packer Test — Borehole Televiwer Test — Pressuremeter Test ▲ Standpipe Tip ▲ Piezometer Tip ✓ In-situ Vane Shear Test </div> </div>								LOGGED BY <u>CALVIN TSANG</u> DATE <u>03/10/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>05/10/2020</u>		REMARKS					

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH25 <hr/> SHEET 4 of 6	
		PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)			
METHOD ROTARY CORED <hr/> MACHINE / No. CCL-1		CO-ORDINATES E 837 243.06 N 815 235.85		W.O. No. ASD 012560 <hr/> DATE from 21/09/2020 to 30/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.33 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(200/40mm) I 200bls/40mm	● 46 30.00 30.07 30.12					Weak, light red (10R 6/8) dappled yellowish brown and green spotted grey, highly decomposed slightly epidotized medium grained GRANITE. (Fine to medium GRAVEL)
								(50/50mm) I 200/50mm 200bls/50mm	● 47 32.00 32.05 32.13					
								(50/40mm) I 200/30mm 200bls/30mm	● 48 34.00 34.02 34.07					
								(50/50mm) I 200/40mm 200bls/40mm	● 49 36.00 36.04 36.09					
								(50/50mm) I 200/40mm 200bls/40mm	● 50 38.00 38.02 38.07					
								(50/40mm)		-24.67	40.00			


<ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> I Standard Penetration Test ● Permeability Test I Impression Packer Test I Borehole Televiwer Test I Pressuremeter Test ▲ Standpipe Tip ▲ Piezometer Tip ✓ In-situ Vane Shear Test 	<div> LOGGED BY <u>CALVIN TSANG</u> DATE <u>03/10/2020</u> </div> <div> CHECKED BY <u>PETER CHU</u> DATE <u>05/10/2020</u> </div>
---	---	---


REMARKS

泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH25	
		SHEET 5 of 6			
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 243.06 N 815 235.85		W.O. No. ASD 012560	
MACHINE / No. CCL-1		DATE from 21/09/2020 to 30/09/2020			
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.33 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description			
	46.84 HW	7.00m at 18:00 6.00m at 08:00	70				NI	(200/30mm) 200bls/30mm (50/50mm) 200bls/30mm (50/50mm) 200bls/30mm	51	40.00 40.02 40.07 40.29	-24.96	40.29	IV	As Sheet 4 of 6.			
			100	96	89	7.6	T2-101		41.39	+	III	Moderately strong, yellowish brown spotted green, moderately decomposed slightly epidotized medium grained GRANITE. Joints are closely spaced, rough planar, extremely narrow, iron and manganese oxides stained, dipping at 20°-30°, 30°-40° and 60°-70°.					
			89	67	67	NI	T2-101		41.93	+							
			100	84	84	6.6	T2-101		42.99	+							
			88	32	20	NA	T2-101		-27.89	43.22	IV						
						70						52	43.80 43.63 43.68	-28.21	43.54	IV	43.22- 43.54m: Moderately weak, highly decomposed. (COBBLE with some coarse gravel) Weak, yellowish brown (10YR 5/8) dappled green, highly decomposed slightly epidotized medium grained GRANITE. (Fine to medium GRAVEL)
											53	45.60 45.63 45.68			IV		
											46.84	-31.51	46.84	IV	Moderately strong, red dappled dark green and yellowish brown, moderately decomposed slightly epidotized medium grained GRANITE. Joints are closely spaced, rough and smooth planar, extremely narrow, iron and manganese oxides stained, dipping at 20°-30° and 80°-90°. 46.84- 47.02m: Moderately weak, highly decomposed. (Coarse GRAVEL and COBBLE) 47.26- 47.53m: PEGMATITE. Strong, red dappled dark green spotted grey, slightly decomposed slightly epidotized medium grained GRANITE. Joints are medium spaced, rough and smooth planar, extremely narrow to very narrow, epidote and calcite coated (<2mm thick), dipping at 0°-10°, 10°-20°, 60°-70° and 70°-80°. 47.53- 47.61m: Quartz vein (80mm thick), dipping at 0°.		
					93	20	0		NA	T2-101	-31.69	47.02	+	III			
					100	88	81		3.8	T2-101	-32.20	47.53	+	II			
					100	100	100		4.3	T2-101	-32.26	47.61	+				
												48.53			+		
							49.37			+							
							-34.67	50.00			+						

<ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> — Standard Penetration Test ● Permeability Test — Impression Packer Test — Borehole Televiewer Test — Pressuremeter Test ▲ Standpipe Tip ▲ Piezometer Tip ✓ In-situ Vane Shear Test 	LOGGED BY <u>CALVIN TSANG</u> DATE <u>03/10/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>05/10/2020</u>	REMARKS
---	--	--	---------

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH25 SHEET 6 of 6										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 243.06 N 815 235.85		W.O. No. ASD 012560										
MACHINE / No. CCL-1				DATE from 21/09/2020 to 30/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.33 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
			100	100	90	4.3			T2-101 50.24			+		As Sheet 5 of 6.
			100	100	100				T2-101			+		
			80				1.9		51.61			+	II	
			100	100	100				T2-101			+		
29/09/2020	7.00m at 18:00								52.92	-37.59	52.92	+		End of drillhole at 52.92m.
<div> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ■ U100 Undisturbed Sample ▤ Mazier Sample □ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> ↓ Standard Penetration Test ⬇ Permeability Test ⊥ Impression Packer Test ⌈ Borehole Televiwer Test ⊥ Pressuremeter Test ⬆ Standpipe Tip ⬆ Piezometer Tip ∨ In-situ Vane Shear Test </div> </div> <div> LOGGED BY <u>CALVIN TSANG</u> DATE <u>03/10/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>05/10/2020</u> </div> <div> REMARKS </div>														

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH26 SHEET 1 of 7											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 252.00 N 815 248.03		W.O. No. ASD 012560											
MACHINE / No. CCL-1				DATE from 19/09/2020 to 24/09/2020											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.28 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
19/09/2020	SW	Dry at 08:00								+15.13	0.15			CONCRETE SLAB.	
									A 0.45 0.50	+14.78	0.50			Red (10R 5/8), silty fine SAND. (FILL)	
									B 0.95 1.00					Yellowish red (5YR 5/6), medium to coarse SAND. (FILL)	
									C 1.45 1.50						
19/09/2020		Dry at 18:00							D 1.95 2.00	+13.28	2.00			Firm to stiff, yellowish red (5YR 5/8), sandy clayey SILT with some subangular fine gravel sized moderately weak granite and quartz. (FILL)	
21/09/2020		Dry at 08:00						(1, 2, 1, 2, 2, 1) N=6	1 2.10 2.45						
									2 2.90						
	4.00 SW PW			100				(2, 2, 1, 2, 2, 2) N=7	3 3.90 4.00 4.10						
									4 4.40 4.45						
				85					5 4.90						
									6 5.90 6.00 6.10						
				70				(2, 2, 3, 2, 3, 3) N=11	7 6.40 6.45						
									8 6.90	+8.38	6.90			Stiff, yellowish red (5YR 5/8), sandy clayey SILT with some subangular fine gravel sized quartz. (FILL)	
									9 7.90 8.00 8.10	+7.28	8.00			Medium dense, yellowish brown (10YR 5/6), silty medium to coarse SAND with some fine gravel sized quartz. (FILL)	
									10 8.40 8.45						
								(4, 4, 5, 6, 7, 10) N=28	11 8.90	+6.38	8.90			Very dense, yellowish red (5YR 5/8), silty medium to coarse SAND with much subangular fine gravel sized quartz. (FILL)	
				100					12 9.90	+5.28	10.00				
									13						
									14						
									15						
									16						
• Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▨ Mazier Sample □ Piston Sample ▲ Water Sample									Standard Penetration Test • Permeability Test — Impression Packer Test ▨ Borehole Televiwer Test ▨ Pressuremeter Test ▨ Standpipe Tip ▨ Piezometer Tip ▨ In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 25/09/2020 CHECKED BY PETER CHU DATE 26/09/2020		REMARKS 1. Inspection pit excavated from 0.00m-2.00m.	

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH26	
				SHEET 2 of 7	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 252.00 N 815 248.03		W.O. No. ASD 012560	
MACHINE / No. CCL-1				DATE from 19/09/2020 to 24/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.28 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
	8.10m at 18:00	70						(4, 6, 8, 13, 17, 29) N = 67	17	10.00		VI	As Sheet 1 of 7.	
									18	10.10				
									19	10.40				
									20	10.45				
									21	+4.38				
									22	10.90				
									23	11.90				
									24	12.00				
									25	12.10				
									26	12.40				
									27	12.45				
									(8, 10, 14, 17, 20, 42) N = 93					
29	+2.38													
30	12.90													
31	13.90													
32	14.00													
33	14.10													
34	14.40													
35	14.45													
36	14.90													
37	+0.38													
38	14.90													
(3, 4, 5, 4, 5, 5) N = 19						(3, 4, 5, 4, 5, 5) N = 19	39	14.90				V	Very stiff, reddish yellow (5YR 6/8), sandy clayey SILT with much subangular fine gravel of quartz. (RESIDUAL SOIL)	
							40	+0.38						
							41	14.90						
							42	15.90						
							43	16.00						
							44	16.10						
							45	16.40						
							46	16.45						
							47	16.90						
							48	-1.62						
							49	16.90						
							(3, 8, 12, 17, 21, 39) N = 89							
51	18.00													
52	18.10													
53	18.40													
54	18.45													
55	18.90													
56	-3.62													
57	18.90													
58	19.90													
59	-4.72													
60	20.00													
(7, 12, 12, 23, 35, 42) N = 112						(7, 12, 12, 23, 35, 42) N = 112					61	18.90		
							62	-3.62						
							63	18.90						
							64	19.90						
							65	-4.72						
							66	20.00						
							67	20.00						
							68	20.00						
							69	20.00						
							70	20.00						
							71	20.00						
							72	20.00						


<ul style="list-style-type: none"> ● Small Disturbed Sample ┆ Large Disturbed Sample ▨ SPT Liner Sample ▩ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▨ Mazier Sample ▩ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ┆ Standard Penetration Test ● Permeability Test ┆ Impression Packer Test ┆ Borehole Televiwer Test ┆ Pressuremeter Test ┆ Standpipe Tip ┆ Piezometer Tip ┆ In-situ Vane Shear Test 	LOGGED BY <u>CALVIN TSANG</u> DATE <u>25/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>26/09/2020</u>
REMARKS		

泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD		DRILLHOLE No. BH26	
		CONTRACT No. TC G518		SHEET 3 of 7	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED			CO-ORDINATES E 837 252.00 N 815 248.03		W.O. No. ASD 012560
MACHINE / No. CCL-1					DATE from 19/09/2020 to 24/09/2020
FLUSHING MEDIUM WATER			ORIENTATION Vertical		GROUND LEVEL +15.28 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
22/09/2020		7.00m at 08:00						(8, 11, 15, 17, 28, 43) N = 103	<div style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></div> 37 <div style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></div> 38	20.00 20.10 20.40 20.45				As Sheet 2 of 7.
								(9, 13, 19, 27, 35, 55) N = 136	<div style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></div> 39 <div style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></div> 40	22.00 22.10 22.40 22.45	-6.72	22.00		Extremely weak, light yellowish brown (10YR 6/4), completely decomposed medium grained GRANITE. (Fine to medium SAND)
	24.00 PW HW							(10, 17, 29, 38, 52, 60) N = 179	<div style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></div> 41 <div style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></div> 42	24.00 24.10 24.40 24.45				
			70					(11, 19, 29, 38, 44, 57) N = 176	<div style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></div> 43 <div style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></div> 44	26.00 26.10 26.40 26.45				
								(19, 30, 72, 128) 200bls/150mm	<div style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></div> 45	28.00 28.25 28.30	-12.72	28.00		Extremely weak, light reddish brown (5YR 6/4), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with occasional fine gravel)
								(50/60mm)			-14.72	30.00		

<ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> Standard Penetration Test • Permeability Test — Impression Packer Test — Borehole Televiwer Test — Pressuremeter Test ▲ Standpipe Tip ▲ Piezometer Tip ∨ In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 25/09/2020 <hr/> CHECKED BY PETER CHU DATE 26/09/2020	REMARKS
---	---	--	---------

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH26										
				SHEET 4 of 7										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 252.00 N 815 248.03		W.O. No. ASD 012560										
MACHINE / No. CCL-1				DATE from 19/09/2020 to 24/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.28 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(200/50mm) 200bts/50mm	● 46 30.00 30.06 30.11					As Sheet 3 of 7.
								(50/50mm) (200/50mm) 200bts/50mm	● 47 32.00 32.05 32.10					
								(50/40mm) (200/50mm) 200bts/50mm	● 48 34.00 34.04 34.09					
								(50/40mm) (200/50mm) 200bts/50mm	● 49 36.00 36.04 36.09	-20.72	36.00			
								(50/40mm) (200/40mm) 200bts/40mm	● 50 38.00 38.05 38.10					Weak, yellowish brown (10YR 5/8), highly decomposed fine grained GRANITE. (Sandy medium to coarse GRAVEL)
								(50/30mm)		-24.72	40.00			
<div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample ┆ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> ┆ Standard Penetration Test ● Permeability Test ┆ Impression Packer Test ┆ Borehole Televiwer Test ┆ Pressuremeter Test ┆ Standpipe Tip ▲ Piezometer Tip ┆ In-situ Vane Shear Test </div> </div>									LOGGED BY <u>CALVIN TSANG</u> DATE <u>25/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>26/09/2020</u>			REMARKS		

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518				DRILLHOLE No. BH26 SHEET 5 of 7		
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																
METHOD ROTARY CORED				CO-ORDINATES E 837 252.00 N 815 248.03				W.O. No. ASD 012560								
MACHINE / No. CCL-1								DATE from 19/09/2020 to 24/09/2020								
FLUSHING MEDIUM WATER				ORIENTATION Vertical				GROUND LEVEL +15.28 mP.D.								
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description		
22/09/2020 23/09/2020	7.30m at 18:00 6.00m at 08:00		70					I 200/40mm 200bbs/40mm	51 40.00 40.02 40.07				IV	As Sheet 4 of 7.		
									(50/30mm I 200/40mm) 200bbs/40mm	52 42.00 42.02 42.07						
											42.90	-27.62	42.90			
												-27.95	43.23		IV	Moderately weak, yellowish brown (10YR 5/4) spotted dark brown and white, highly decomposed medium grained GRANITE. (COBBLE with some coarse gravel)
												-28.05	43.33			42.90- 43.33m: Fine grained GRANITE.
												-28.62	43.90		IV	43.23m: PEGMATITE (20mm thick), dipping at 25°. Weak, yellowish brown (10YR 5/8), highly decomposed fine grained GRANITE. (Sandy fine to medium GRAVEL)
												-29.52	44.80		IV	
												-29.67	44.95		IV	Moderately weak, yellowish brown (10YR 5/4) spotted grey and white, highly decomposed medium grained GRANITE. (COBBLE and BOULDER with some coarse gravel)
												-29.78	45.06		III	
												-30.07	45.35		IV	44.95- 45.35m: Fine grained GRANITE.
															IV	45.06- 45.35m: Moderately strong, moderately decomposed GRANITE.
															III	Moderately strong, yellowish brown, moderately decomposed fine grained GRANITE. Joints are very closely to closely spaced, rough and smooth planar, extremely narrow, iron and manganese oxides stained, dipping at 10°-20° and 30°-40°.
												IV	Weak, yellowish red (5YR 5/8), highly decomposed fine grained GRANITE. (Sandy fine to medium GRAVEL)			
												IV	Moderately weak, yellowish red (10YR 5/4) spotted grey and white, highly decomposed fine grained GRANITE. (COBBLE and BOULDER with some coarse gravel)			
												IV	48.70- 49.12m: Medium grained GRANITE.			
												IV	Weak, yellowish red (5YR 5/8), highly decomposed fine grained GRANITE. (Fine to medium GRAVEL)			
												III				
												IV	Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are			
												III				

● Small Disturbed Sample
 I Large Disturbed Sample
 SPT Liner Sample
 U76 Undisturbed Sample
 U100 Undisturbed Sample
 Mazier Sample
 Piston Sample
 ▲ Water Sample

| Standard Penetration Test
 ● Permeability Test
 | Impression Packer Test
 | Borehole Televiwer Test
 | Pressuremeter Test
 □ Standpipe Tip
 ▲ Piezometer Tip
 ∨ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG
 DATE
25/09/2020

CHECKED BY
PETER CHU
 DATE
26/09/2020

REMARKS

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH26	
		CONTRACT No. TC G518		SHEET 6 of 7	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED			CO-ORDINATES E 837 252.00 N 815 248.03		W.O. No. ASD 012560
MACHINE / No. CCL-1					DATE from 19/09/2020 to 24/09/2020
FLUSHING MEDIUM WATER			ORIENTATION Vertical		GROUND LEVEL +15.28 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
23/09/2020 24/09/2020	56.38 HW	7.10m at 18:00 6.00m at 08:00	80	97	39	23	NA	(50/40mm 200/30mm 200bis/20mm)	T2-101	-34.66	49.94		IV	very closely to closely spaced, rough and smooth planar, extremely narrow, iron and manganese oxides stained, dipping at 0°-10°, 30°-40° and 40°-50°.
							50.67		-34.75	50.03	III			
									-35.04	50.32				
									-35.06	50.34				
									-35.39	50.67	IV			
									-35.49	50.77				
									-35.60	50.88				
									-35.83	51.11	III			
									-36.33	51.61				
									-36.50	51.78	V			
											IV		49.59- 49.73m: Moderately weak, highly decomposed. (COBBLE)	
											III		49.82- 49.94m: Fine grained GRANITE.	
			V	50.03- 50.34m: Moderately weak, highly decomposed. (COBBLE)										
			IV	50.32- 50.77m: Fine grained GRANITE.										
				50.67- 50.77m: Moderately weak, highly decomposed. (Sandy coarse GRAVEL)										
			III	50.77- 50.88m: Moderately weak, highly decomposed. (Sandy coarse GRAVEL)										
				50.88- 51.11m: PEGMATITE.										
				51.11- 51.61m: Fine grained GRANITE.										
				51.61- 51.78m: No recovery assumed to be completely decomposed GRANITE.										
			IV	51.78- 52.47m: Moderately weak, highly decomposed. (Coarse GRAVEL and COBBLE)										
				52.47- 52.78m: Fine grained GRANITE.										
				52.78- 52.99m: Fine grained GRANITE.										
				52.99- 53.08m: Fine grained GRANITE.										
				53.08- 53.22m: PEGMATITE.										
				53.22- 53.54m: Fine grained GRANITE.										
				53.54- 53.82m: Fine grained GRANITE.										
				53.82- 53.92m: Fine grained GRANITE.										
				54.04- 54.27m: Moderately weak, highly decomposed. (Sandy coarse GRAVEL and COBBLE)										
				Weak, pinkish grey (5YR 7/3), highly decomposed medium grained GRANITE. (Fine to medium GRAVEL)										
			III	Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are closely spaced, rough and smooth planar, extremely narrow, iron and manganese oxides stained, dipping at 10°-20°, 40°-50° and 50°-60°.										
				57.97- 58.43m: PEGMATITE.										
				Strong, pink spotted green and light grey, slightly decomposed slightly epidotized medium grained GRANITE. Joints are medium spaced, rough and smooth planar, extremely narrow, epidote coated, dipping at 10°-20° and 70°-80°.										
			II	59.66- 59.80m: Fine grained GRANITE.										
				59.80- 59.88m: Fine grained GRANITE.										
				59.88- 59.92m: Fine grained GRANITE.										
				59.92- 59.98m: Fine grained GRANITE.										
				59.98- 60.00m: Fine grained GRANITE.										

<ul style="list-style-type: none"> ● Small Disturbed Sample ▬ Large Disturbed Sample ▬ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ⬇ Standard Penetration Test ⬇ Permeability Test ⬇ Impression Packer Test ⬇ Borehole Televier Test ⬇ Pressuremeter Test ⬇ Standpipe Tip ⬇ Piezometer Tip ⬇ In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 25/09/2020 CHECKED BY PETER CHU DATE 26/09/2020	REMARKS
---	--	--	---------



DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH27

SHEET 1 of 7

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. DR-25

E 837 262.31

DATE from 02/09/2020 to 21/09/2020


N 815 258.93

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.37 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
02/09/2020	PW	Dry at 08:00								+15.22	0.15			CONCRETE SLAB.
		Dry at 18:00												
02/09/2020		Dry at 08:00						(1, 2, 2, 2, 2, 2) N = 8	A 0.45 0.50 B 0.95 1.00 C 1.45 1.50 D 1.95 2.00 1 2.10 2 2.40 2.45 2.90 3 4 3.90 4.00 5 4.10 6 4.40 4.45 4.90 7 8 5.90 6.00 9 6.10 10 6.40 6.45 6.90 11 12 7.90 8.00 13 8.10 14 8.40 8.45 8.90 15 16 9.90				Loose to medium dense, red (10R 5/8), silty slightly clayey fine to medium SAND with some subangular fine gravel sized moderately weak to strong granite and quartz. (FILL)	
15/09/2020				90				(1, 2, 2, 2, 2, 3) N = 9						Stiff, yellowish red (5YR 5/8), sandy clayey SILT with some subangular fine gravel of quartz. (ALLUVIUM)
				90				(2, 2, 2, 3, 3, 4) N = 12						Stiff, reddish yellow (5YR 7/8), sandy clayey SILT with occasional subangular fine gravel of quartz. (ALLUVIUM)
				70				(1, 2, 2, 2, 2, 3) N = 9						
				100						+8.47	6.90			
				85						+6.47	8.90			
										+5.37	10.00			
<ul style="list-style-type: none">Small Disturbed SampleLarge Disturbed SampleSPT Liner SampleU76 Undisturbed SampleU100 Undisturbed SampleMazier SamplePiston SampleWater SampleStandard Penetration TestPermeability TestImpression Packer TestBorehole Televiewer TestPressuremeter TestStandpipe TipPiezometer TipIn-situ Vane Shear Test										LOGGED BY CALVIN TSANG DATE 21/09/2020 CHECKED BY PETER CHU DATE 22/09/2020		REMARKS 1. Inspection pit excavated from 0.00m-2.00m.		

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH27 SHEET 2 of 7												
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																
METHOD ROTARY CORED		CO-ORDINATES E 837 262.31 N 815 258.93		W.O. No. ASD 012560												
MACHINE / No. DR-25				DATE from 02/09/2020 to 21/09/2020												
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.37 mP.D.												
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description		
16/06/2020 15/09/2020		6.20m at 08:00 4.70m at 18:00						(2, 2, 3, 3, 4, 4) N = 14	17 18	10.00 10.10 10.40 10.45				As Sheet 1 of 7.		
				100				(2, 2, 3, 3, 4, 4) N = 14	19 20 21 22	10.90 11.90 12.00 12.10 12.40 12.45	+4.47	10.90		Stiff, red (10R 5/8), sandy clayey SILT with occasional subangular fine gravel of quartz. (ALLUVIUM)		
				100				(2, 2, 3, 3, 3, 4) N = 13	23 24 25 26	12.90 13.90 14.00 14.10 14.40 14.45	+2.47	12.90		Stiff, white (N8), sandy clayey SILT with occasional subangular fine gravel of quartz. (ALLUVIUM)		
			70	100				(2, 3, 3, 4, 4, 4) N = 15	27 28 29 30	14.90 15.90 16.00 16.10 16.40 16.45	+0.47	14.90	V	Extremely weak, yellowish red (5YR 5/8), completely decomposed fine to medium grained GRANITE. (Sandy clayey SILT)		
				100				(3, 3, 5, 6, 9, 13) N = 33	31 32 33 34	16.90 17.90 18.00 18.10 18.40 18.45	-0.63	16.00	V	Extremely weak, red (10R 5/8), completely decomposed fine grained GRANITE. (Sandy clayey SILT)		
				100					35 36	16.90 17.90 18.00 18.10 18.40 18.45 18.90 19.90	-1.53	16.90	V	Extremely weak, light red (10R 6/8), completely decomposed medium grained GRANITE. (Sandy clayey SILT with some subangular fine gravel)		
		18.90 PW HW		100							-2.63	18.00	V	Extremely weak, pale red (10R 6/4), completely decomposed fine grained GRANITE. (Sandy clayey SILT)		
											-3.53	18.90	V	Extremely weak, pale red (10R 7/4) dappled yellowish red, completely decomposed medium grained GRANITE. (Silty fine to medium SAND with some subangular fine gravel)		
											-4.63	20.00	V			
• Small Disturbed Sample ▮ Large Disturbed Sample ▮ SPT Liner Sample ▮ U76 Undisturbed Sample ▮ U100 Undisturbed Sample ▮ Mazier Sample ▮ Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 21/09/2020 CHECKED BY PETER CHU DATE 22/09/2020			REMARKS	

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH27

SHEET 3 of 7

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No.	ASD 012560
----------	------------

MACHINE / No. DR-25

E 837 262.31

DATE from 02/09/2020 to 21/09/2020


N 815 258.93


FLUSHING MEDIUM WATER



ORIENTATION Vertical


GROUND LEVEL +15.37 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(5, 7, 10, 11, 13, 16) N = 50	37 20.00 20.10 38 20.40 20.45					As Sheet 2 of 7.
								(7, 10, 12, 17, 29, 31) N = 69	39 22.00 22.10 40 22.40 22.45					
			70					(6, 9, 11, 15, 25, 30) N = 81	41 24.00 24.10 42 24.40 24.45	-8.63	24.00		V	24.00- 28.00m: Fine grained GRANITE.
		4.60m at 18:00						(9, 15, 24, 27, 38, 50) N = 139	43 26.00 26.10 44 26.40 26.45					
		6.10m at 08:00						(7, 17, 25, 36, 41, 58) N = 160	45 28.00 28.10 46 28.40 28.45	-12.63	28.00			
										-14.63	30.00			
<div><div><div>● Small Disturbed Sample</div><div>┆ Large Disturbed Sample</div><div>▢ SPT Liner Sample</div><div>▨ U76 Undisturbed Sample</div><div>■ U100 Undisturbed Sample</div><div>▩ Mazier Sample</div><div>□ Piston Sample</div><div>▲ Water Sample</div></div><div><div>┆ Standard Penetration Test</div><div>• Permeability Test</div><div>— Impression Packer Test</div><div>TV Borehole Televiewer Test</div><div>T Pressuremeter Test</div><div>⦿ Standpipe Tip</div><div>▲ Piezometer Tip</div><div>< In-situ Vane Shear Test</div></div></div>									LOGGED BY CALVIN TSANG DATE 21/09/2020 CHECKED BY PETER CHU DATE 22/09/2020			REMARKS		

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH27 SHEET 4 of 7										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 262.31 N 815 258.93		W.O. No. ASD 012560										
MACHINE / No. DR-25				DATE from 02/09/2020 to 21/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.37 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
			70					(8, 16, 23, 29, 43, 51) N = 146 (23, 27/55mm 63, 76, 71/60mm) 210bs/210mm	47 30.00 48 30.10 30.40 30.45 49 32.00 50 32.29 32.34				V	Extremely weak, yellowish brown (10YR 5/8), completely decomposed medium grained GRANITE. (Medium to coarse SAND with some subangular gravel)
			80	86	72	72	NI	(50/60mm 200/70mm) 200bs/70mm	T2-101 51 33.80 34.30 34.38 34.43	-18.43	33.80	+	III	Moderately strong, yellowish red, moderately decomposed medium grained GRANITE. Joints are very closely to closely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10° and 10°-20°.
			70					(36, 14/15mm 122, 78/25mm) 200bs/100mm	52 36.30 36.44 36.49	-20.93	36.30	+	V	Extremely weak, dark yellowish brown (10YR 4/4), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine to medium gravel)
			80	97	81	74	NI 6.7 NA 4.2	(50/50mm 200/60mm) 200bs/60mm	53 38.30 38.36 38.41 38.85	-23.48 -23.60 -23.67 -23.74 -24.17 -24.63	38.85 38.97 39.04 39.11 39.54 40.00	+	III IV II III	Moderately strong, reddish brown, moderately decomposed medium grained GRANITE. Joints are closely to medium spaced, rough planar, extremely narrow, iron and manganese oxides stained, dipping at 0°-10° and 10°-20°.
<div> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample ┃ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> ┃ Standard Penetration Test ┃ Permeability Test ┃ Impression Packer Test ┃ Borehole Televiwer Test ┃ Pressuremeter Test ┃ Standpipe Tip ┃ Piezometer Tip ┃ In-situ Vane Shear Test </div> </div> <div> LOGGED BY CALVIN TSANG DATE 21/09/2020 CHECKED BY PETER CHU DATE 22/09/2020 </div> <div> REMARKS </div>														

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518										DRILLHOLE No. BH27			
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																							
METHOD ROTARY CORED										CO-ORDINATES E 837 262.31 N 815 258.93										W.O. No. ASD 012560			
MACHINE / No. DR-25																				DATE from 02/09/2020 to 21/09/2020			
FLUSHING MEDIUM WATER										ORIENTATION Vertical										GROUND LEVEL +15.37 mP.D.			
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description									
17/09/2020 18/09/2020	at 4.60m at 08:00	80	97	81	74	4.2		(50/70mm I 200/60mm) 200bls/60mm	T2-101 40.21 40.30 40.38 40.43	-24.93	40.30	+	III	38.97- 39.11m: PEGMATITE. 39.04- 39.11m: Moderately weak, highly decomposed. (Sandy medium to coarse GRAVEL) 39.11- 39.54m: Strong, slightly decomposed. Extremely weak, yellowish red (5YR 5/8), completely decomposed fine to medium grained GRANITE. (Silty fine to medium SAND)									
								(50/30mm I 200/50mm) 200bls/50mm	55 42.30 42.33 42.38				V										
			70					(50/40mm I 200/50mm) 200bls/50mm	56 44.30 44.34 44.39														
								(50/30mm I 200/40mm) 200bls/40mm	57 46.30 46.32 46.37	-30.93	46.30		IV	Weak, yellowish red (5YR 5/8) spotted dark grey and white, highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)									
								(50/30mm I 200/40mm) 200bls/40mm	58 48.30 48.32 48.37 48.65	-33.28	48.65												
			80	100	57	44	6.3 >20 NI		T2-101 49.85	-33.88	49.25	+	III	Moderately strong, pink dappled yellowish red, moderately decomposed medium grained GRANITE. Joints are very closely to closely spaced, rough planar, extremely narrow, iron and manganese oxides stained, dipping at 0°-10°, 10°-20°, 20°-30° and 50°-60°.									
	4.60m		84	33	32	15.0			T2-101 49.85	-34.63	50.00	+											
● Small Disturbed Sample — Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample										Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test										LOGGED BY CALVIN TSANG DATE 21/09/2020 CHECKED BY PETER CHU DATE 22/09/2020		REMARKS	

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518										DRILLHOLE No. BH27	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														SHEET 6 of 7							
METHOD ROTARY CORED						CO-ORDINATES E 837 262.31 N 815 258.93						W.O. No. ASD 012560									
MACHINE / No. DR-25												DATE from 02/09/2020 to 21/09/2020									
FLUSHING MEDIUM WATER						ORIENTATION Vertical						GROUND LEVEL +15.37 mP.D.									
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description							
18/09/2020 19/09/2020		at 18:00 6.15m at 08:00	80	94	33	32	NA		T2-101	-34.68 34.89	50.05 50.26	○ ○	IV	49.25- 51.30m: With very closely spaced subhorizontal microfractures.							
						8.1				-35.26	50.63	○ ○	III	50.05- 50.26m: Moderately weak, highly decomposed. (Sandy fine to medium GRAVEL)							
						NA				-35.93	51.30	○ ○	IV	50.63- 51.30m: Moderately weak, highly decomposed. (Sandy fine to medium GRAVEL)							
			70							51.30 51.32 51.37		○ ○	IV	Weak, yellowish red (5YR 5/8), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)							
	52.32 HW									52.32	-36.95	52.32	+		Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are very closely to closely locally medium to widely spaced, smooth planar, extremely narrow, iron and manganese oxides stained, dipping at 0°-10°, 10°-20° and 80°-90°.						
						3.4				T2-101			+								
						17.6							+								
						1.1				53.82			+	III							
						10.7				T2-101			+								
						NI							+								
						>20				55.28	-40.08	55.45	○ ○	IV	55.45- 55.72m: Moderately weak, highly decomposed. (Sandy medium to coarse GRAVEL and COBBLE)						
						NA				55.96	-40.35	55.72	○ ○	III	55.45- 55.96m: With very closely spaced subhorizontal microfractures.						
			80							T2-101	-40.59	55.96	+		Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are medium to widely locally very closely to closely spaced, smooth planar, extremely narrow, iron oxide stained, chlorite coated, dipping at 0°-10°, 10°-20°, 30°-40° and 60°-70°.						
						3.2				56.72	-42.08	57.45	+		55.96- 57.45m: Moderately strong, moderately decomposed.						
						17.1					-42.32	57.69	+	II	57.69- 58.40m: Moderately strong, moderately decomposed.						
						4.5			58.21	-43.03	58.40	+	III								
						>20			T2-101			+	II								
						1.4			59.62	-44.63	60.00	+									
● Small Disturbed Sample ▬ Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▤ Mazier Sample ▥ Piston Sample ▲ Water Sample								Standard Penetration Test ▬ Permeability Test ▬ Impression Packer Test ▬ Borehole Televiwer Test ▬ Pressuremeter Test ▬ Standpipe Tip ▬ Piezometer Tip ▬ In-situ Vane Shear Test		LOGGED BY CALVIN TSANG DATE 21/09/2020 CHECKED BY PETER CHU DATE 22/09/2020		REMARKS									

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH27										
				SHEET 7 of 7										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 262.31 N 815 258.93		W.O. No. ASD 012560										
MACHINE / No. DR-25				DATE from 02/09/2020 to 21/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.37 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
		4.50m at 18:00	80	100	97	86	1.4		T2-101			+	II	As Sheet 6 of 7.
19/09/2020									61.12	-45.75	61.12	+		End of drillhole at 61.12m.
<div> <div> <div>●</div> Small Disturbed Sample <div>┆</div> Standard Penetration Test </div> <div> <div>┆</div> Large Disturbed Sample <div>●</div> Permeability Test </div> <div> <div>▨</div> SPT Liner Sample <div>┆</div> Impression Packer Test </div> <div> <div>▨</div> U76 Undisturbed Sample <div>┆</div> Borehole Televiwer Test </div> <div> <div>▨</div> U100 Undisturbed Sample <div>┆</div> Pressuremeter Test </div> <div> <div>▨</div> Mazier Sample <div>┆</div> Standpipe Tip </div> <div> <div>▨</div> Piston Sample <div>┆</div> Piezometer Tip </div> <div> <div>▲</div> Water Sample <div>┆</div> In-situ Vane Shear Test </div> </div> <div> LOGGED BY CALVIN TSANG DATE 21/09/2020 CHECKED BY PETER CHU DATE 22/09/2020 </div> <div> REMARKS </div>														

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH28

SHEET 1 of 6

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 272.62

DATE from 31/08/2020 to 15/09/2020

N 815 269.83

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.43 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
31/08/2020	SW	Dry at 08:00								+15.28	0.15			CONCRETE.
									A 0.45 0.50					Firm, light red (10R 6/8), sandy clayey SILT with some subangular fine to medium gravel sized moderately weak granite, quartz and cement sand mortar. (FILL)
									B 0.95 1.00					
									C 1.45 1.50					
									D 1.95 2.00					
31/08/2020		Dry at 18:00						(1, 1, 2, 1, 1, 1) N = 5	1 2.10					
30/09/2020		Dry at 08:00							2 2.40 2.45					
	2.90 SW PW			100					3 2.90					
									4 3.90 4.00					
								(2, 2, 1, 2, 2, 2) N = 7	5 4.10					
									6 4.40 4.45					
				70					7 4.90	+10.53	4.90			Stiff, red (10R 5/8), sandy clayey SILT with some subangular fine gravel of quartz. (RESIDUAL SOIL)
									8 5.90 6.00				VI	
								(2, 3, 3, 4, 3, 3) N = 13	9 6.10					
									10 6.40 6.45					
									11 6.90	+8.53	6.90			Very stiff, light red (10R 7/8) dappled red, sandy clayey SILT with some fine gravel of quartz. (RESIDUAL SOIL)
				100					12 7.90 8.00				VI	
								(2, 3, 4, 4, 3, 5) N = 16	13 8.10					
									14 8.40 8.45					
									15 8.90	+6.53	8.90			Very stiff, reddish yellow (5YR 7/8), sandy clayey SILT with some subangular fine to medium gravel of quartz. (RESIDUAL SOIL)
				100					16 9.90	+5.43	10.00			

Standard Penetration Test

Permeability Test

Impression Packer Test

Borehole Televiwer Test

Pressuremeter Test

Standpipe Tip

Piezometer Tip

In-situ Vane Shear Test

LOGGED BY

CALVIN TSANG

DATE

15/09/2020

CHECKED BY

PETER CHU

DATE

16/09/2020

REMARKS

1. Inspection pit excavated from 0.00m-2.00m.

2. A piezometer tip was installed at 52.00m depth.

3. A standpipe was installed to 25.00m depth.

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH28	
		SHEET 2 of 6			
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 272.62 N 815 269.83		W.O. No. ASD 012560	
MACHINE / No. CCL-1				DATE from 31/08/2020 to 15/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.43 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(3, 4, 6, 5, 7, 10) N = 28	17 18	10.00 10.10 10.40 10.45			VI	As Sheet 1 of 6.
				100					19	10.90	+4.53	10.90		Extremely weak, yellowish brown (10YR 5/4) spotted white, completely decomposed fine grained GRANITE. (Silty clayey fine SAND)
								(3, 5, 4, 5, 6, 8) N = 23	20 21 22	11.90 12.00 12.10 12.40 12.45				
				100					23	12.90	+2.53	12.90		
		8.00m at 18:00							24	13.90	+1.43	14.00	V	
10/09/2020 11/09/2020		9.00m at 08:00						(3, 3, 4, 4, 7, 6) N = 21	25 26	14.00 14.10 14.40 14.45				14.90- 16.00m: Pale red (10R 6/4).
				70					27	14.90	+0.53	14.90		
				100					28	15.90 16.00 16.10	-0.57	16.00		
								(3, 4, 5, 6, 8, 7) N = 26	29 30	16.40 16.45				
				100					31	16.90	-1.47	16.90		Extremely weak, red (10R 5/8) streaked white, completely decomposed fine to medium grained GRANITE. (Silty clayey fine to medium SAND)
									32	17.90 18.00 18.10			V	
								(4, 6, 9, 8, 8, 10) N = 35	33 34	18.40 18.45				
				100					35	18.90				
									36	19.90	-4.57	20.00		

<ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ⊥ Standard Penetration Test ⊥ Permeability Test ⊥ Impression Packer Test ⊥ Borehole Televiwer Test ⊥ Pressuremeter Test ⊥ Standpipe Tip ⊥ Piezometer Tip ⊥ In-situ Vane Shear Test 	LOGGED BY <u>CALVIN TSANG</u> DATE <u>15/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>16/09/2020</u>	REMARKS
---	---	--	---------

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH28	
				SHEET 3 of 6	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 272.62 N 815 269.83		W.O. No. ASD 012560	
MACHINE / No. CCL-1				DATE from 31/08/2020 to 15/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.43 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(4, 9, 11, 15, 17, 35) N = 78	37 38	20.00 20.10 20.40 20.45			V	As Sheet 2 of 6.
								(6, 10, 17, 23, 31, 45) N = 116	39 40	22.00 22.10 22.40 22.45	-6.57	22.00	V	Extremely weak, yellow (10YR 7/8) spotted white, completely decomposed fine to medium grained GRANITE. (Silty fine to medium SAND)
	24.00 PW HW		70					(7, 13, 18, 27, 39, 53) N = 137	41 42	24.00 24.10 24.40 24.45	-8.57	24.00		Extremely weak, yellowish red (5YR 5/8), completely decomposed medium grained GRANITE. (Slightly clayey silty medium to coarse SAND with some fine gravel)
								(10, 17, 28, 49, 52, 60) N = 189	43 44	26.00 26.10 26.40 26.45			V	
								(13, 30, 47, 52, 101/50mm) 200bs/200mm	45 46	28.00 28.30 28.35				
								(50/60mm)			-14.57	30.00		

<ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ⊥ Standard Penetration Test ⊥ Permeability Test ⊥ Impression Packer Test ⊥ Borehole Televiwer Test ⊥ Pressurometer Test ⊥ Standpipe Tip ⊥ Piezometer Tip ∨ In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 15/09/2020 CHECKED BY PETER CHU DATE 16/09/2020
REMARKS		

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH28

SHEET 4 of 6

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 272.62

DATE from 31/08/2020 to 15/09/2020


N 815 269.83

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.43 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
			70					(200/40mm) 200bs/40mm (50/60mm) (200/40mm) 200bs/40mm (50/60mm) (200/40mm) 200bs/40mm (50/50mm) (200/40mm) 200bs/40mm (50/60mm) (200/40mm) 200bs/40mm	47 30.00 30.05 30.10 48 32.00 32.05 32.10 49 34.00 34.05 34.10 50 36.00 36.02 36.07 51 38.00 38.05 38.10					As Sheet 3 of 6.
									(50/50mm)	-24.57	40.00			
<div><div><div>●</div> Small Disturbed Sample</div><div><div>┆</div> Large Disturbed Sample</div><div><div>┆</div> SPT Liner Sample</div><div><div>▨</div> U76 Undisturbed Sample</div><div><div>■</div> U100 Undisturbed Sample</div><div><div>▨</div> Mazier Sample</div><div><div>▨</div> Piston Sample</div><div><div>▲</div> Water Sample</div></div> <div><div><div>┆</div> Standard Penetration Test</div><div><div>●</div> Permeability Test</div><div><div>┆</div> Impression Packer Test</div><div><div>┆</div> Borehole Televiewer Test</div><div><div>┆</div> Pressuremeter Test</div><div><div>┆</div> Standpipe Tip</div><div><div>┆</div> Piezometer Tip</div><div><div>┆</div> In-situ Vane Shear Test</div></div>									LOGGED BY CALVIN TSANG DATE 15/09/2020 CHECKED BY PETER CHU DATE 16/09/2020		REMARKS			

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH28 SHEET 5 of 6										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 272.62 N 815 269.83		W.O. No. ASD 012560										
MACHINE / No. CCL-1				DATE from 31/08/2020 to 15/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.43 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
11/09/2020 12/09/2020	8.50m at 18:00 8.00m at 08:00	70	70	100	98	94	8.2 3.1	I 200/40mm 200bs/40mm (50/50mm I 200/30mm) 200bs/30mm	52 40.00 40.04 40.09	-26.57 -27.41 -27.52 -29.00 -34.05 -34.57	42.00 42.03 42.08 42.84 42.95 44.04 44.43 44.54 44.59 46.50 46.51 46.56 48.50 48.55	V IV III II IV III	As Sheet 3 of 6. Weak, yellowish red (5YR 5/8), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL) Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are closely to medium spaced, rough and smooth planar, extremely narrow, iron oxide stained, dipping at 0°-10° and 10°-20°. 42.84- 42.95m: Moderately strong, moderately decomposed. Weak, yellowish red (5YR 5/8), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL) Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are very closely to closely locally medium spaced, rough	
									53 42.00 42.03 42.08					
									42.84					
									T2-101					
									44.04					
									T2-101					
									54 44.43 44.50 44.54 44.59					
									55 46.50 46.51 46.56					
									56 48.50 48.55					
									49.48					
T2-101														
80	100	74	62	>20 9.6										
● Small Disturbed Sample Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample								Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test		LOGGED BY CALVIN TSANG DATE 15/09/2020 CHECKED BY PETER CHU DATE 16/09/2020		REMARKS		

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH28

SHEET 6 of 6

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

F 837 272.62

DATE from 31/08/2020 to 15/09/2020

N 815 269.83

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.43 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description		
12/09/2020 15/09/2020	52.40 HW		80	100	74	62	9.6	(50/30mm + 200/20mm) 200bs/20mm	T2-101	-34.77	50.20	++	II	and smooth planar, extremely narrow, iron oxide stained, dipping at 0°-10° and 10°-20°.		
							NI					+++	III	50.00- 50.20m: Strong, slightly decomposed.		
							2.3					+++				
			70										ooo	IV	50.20- 50.98m: With very closely spaced subhorizontal microfractures. Weak, yellowish red (5YR 5/6) spotted white, highly decomposed medium grained GRANITE. (Fine to medium GRAVEL)	
			80	100	96	96	5.4		(50/40mm + 200/20mm) 200bs/20mm	T2-101	-36.41	51.84	++	+	III	Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are closely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10° and 10°-20°.
													++	+		51.84- 52.03m: With very closely spaced subhorizontal microfractures.
			70											ooo	IV	51.84- 52.03m: With very closely spaced subhorizontal microfractures.
													ooo			
	8.00m at 18:00	100	84	62	NA		T2-101	-37.55	52.98	++	+	III	Weak, yellowish red (5YR 5/6) spotted white, highly decomposed medium grained GRANITE. (Fine to medium GRAVEL)			
	8.00m at 08:00					8.2					++	+	III	Moderately strong, reddish brown, moderately decomposed medium grained GRANITE. Joints are closely to medium locally very closely spaced, rough and smooth planar, extremely narrow, iron oxide stained, chlorite coated, dipping at 0°-10° and 30°-40°.		
		89	89	52	>20	3.8	T2-101	-39.10	54.53	++	+	II	54.53- 54.69m: Strong, slightly decomposed.			
											++	+				
	80				12.7						++	+				
		95	64	36	NI		T2-101	-40.39	55.82	++	+	III	55.82- 56.69m: Fine grained GRANITE.			
					3.8						++	+				
	9.00m at 18:00	100	99	89	2.9		T2-101	-41.26	56.69	++	+					
										++	+					
15/09/2020														End of drillhole at 58.20m.		

● Small Disturbed Sample

⊥ Large Disturbed Sample

□ SPT Liner Sample

▨ U76 Undisturbed Sample

■ U100 Undisturbed Sample

▩ Mazier Sample

□ Piston Sample

▲ Water Sample

↓ Standard Penetration Test

● Permeability Test

⊥ Impression Packer Test

⊥ Borehole Televiewer Test

⊥ Pressuremeter Test

⊕ Standpipe Tip

⊕ Piezometer Tip

< In-situ Vane Shear Test


LOGGED BY
CALVIN TSANG

DATE
15/09/2020

CHECKED BY
PETER CHU

DATE
16/09/2020

REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH29 SHEET 1 of 7	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 282.92 N 815 280.73		W.O. No. ASD 012560 DATE from 31/08/2020 to 14/09/2020	
MACHINE / No. DR-25		FLUSHING MEDIUM WATER		ORIENTATION Vertical GROUND LEVEL +15.43 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
31/08/2020	PW	Dry at 08:00								+15.28	0.15			CONCRETE SLAB.
31/08/2020		Dry at 18:00						(1, 1, 1, 2, 2, 2) N = 7	A 0.45 B 0.95 C 1.45 D 1.95 1 2.10 2 2.40 2.90				Firm, red (10R 5/8), sandy clayey SILT with some subangular fine to medium gravel sized moderately weak granite, quartz, brick and concrete fragments. (FILL)	
09/09/2020		Dry at 08:00						(1, 1, 2, 2, 1, 2) N = 7	3 4 3.90 5 4.00 6 4.40 4.90	+12.53	2.90		VI	Firm to stiff, yellowish red (5YR 5/8), sandy clayey SILT with some subangular fine gravel of quartz. (RESIDUAL SOIL)
								(1, 2, 2, 3, 3, 4) N = 12	7 8 5.90 9 6.00 10 6.40 6.90	+8.53	6.90			Extremely weak, light red (10R 6/8), completely decomposed medium grained GRANITE. (Stiff, sandy clayey SILT with occasional fine gravel)
								(2, 2, 2, 3, 4, 5) N = 14	11 12 7.90 13 8.00 14 8.40 8.90	+5.43	10.00		V	
									15 9.90					


<ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 15/09/2020 CHECKED BY PETER CHU DATE 16/09/2020	REMARKS 1. Inspection pit excavated from 0.00m-2.00m.
---	---	--	--

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH29	
		CONTRACT No. TC G518		SHEET 2 of 7	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 282.92 N 815 280.73		W.O. No. ASD 012560	
MACHINE / No. DR-25				DATE from 31/08/2020 to 14/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.43 mP.D.	


Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
<div style="font-size: 0.8em;"> 09/09/2020 10/09/2020 </div>	<div style="font-size: 0.8em;"> 7.50m at 18:00 8.40m at 08:00 </div>	<div style="font-size: 0.8em;"> 70 </div>	<div style="font-size: 0.8em;"> 100 </div>	<div style="font-size: 0.8em;"> 100 </div>	<div style="font-size: 0.8em;"> 100 </div>	<div style="font-size: 0.8em;"> 100 </div>	<div style="font-size: 0.8em;"> 100 </div>	<div style="font-size: 0.8em;"> (2, 2, 3, 3, 4, 4) N = 14 (2, 2, 3, 4, 4, 5) N = 16 (2, 2, 2, 3, 3, 3) N = 11 (4, 6, 9, 11, 13, 20) N = 53 (4, 6, 7, 11, 14, 19) N = 51 </div>	17	10.00	+2.53	12.90	V	Extremely weak, reddish yellow (5YR 7/8) dappled red, completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND)
									18	10.10				
									19	10.40				
									20	10.45				
									21	10.90	-2.57	18.00	V	Extremely weak, red (10R 5/6), completely decomposed medium grained GRANITE. (Silty slightly clayey fine to medium SAND with some fine gravel)
									22	11.90				
									23	12.00				
									24	12.10				
									25	12.40	-4.57	20.00	V	Extremely weak, pale red (10R 6/4), completely decomposed medium grained GRANITE. (Silty fine to medium SAND with some fine gravel)
									26	12.45				
									27	12.90				
									28	13.90				
									29	14.00	-4.57	20.00	V	
									30	14.10				
									31	14.40				
									32	14.45				
									33	14.90	-4.57	20.00	V	
									34	15.90				
35	16.00													
36	16.10													
37	16.40	-4.57	20.00	V										
38	16.45													
39	16.90													
40	17.90													
41	18.00	-4.57	20.00	V										
42	18.10													
43	18.40													
44	18.45													
45	18.90	-4.57	20.00	V										
46	19.90													
47														
48														

<ul style="list-style-type: none"> ● Small Disturbed Sample ┆ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ┆ Standard Penetration Test ┆ Permeability Test ┆ Impression Packer Test ┆ Borehole Televiewer Test ┆ Pressuremeter Test ┆ Standpipe Tip ┆ Piezometer Tip ┆ In-situ Vane Shear Test 	<div> LOGGED BY CALVIN TSANG DATE 15/09/2020 CHECKED BY PETER CHU DATE 16/09/2020 </div>
REMARKS		

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH29										
		SHEET 3 of 7												
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 282.92 N 815 280.73		W.O. No. ASD 012560										
MACHINE / No. DR-25				DATE from 31/08/2020 to 14/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.43 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
	20.45 PW							(4, 7, 10, 14, 19, 23) N = 66	37 20.00 38 20.10 39 20.40 40 20.45				V	As Sheet 2 of 7.
	HW						(4, 9, 13, 16, 18, 25) N = 72	39 22.00 40 22.10 41 22.40 42 22.45						
							(4, 6, 13, 18, 21, 28) N = 80	41 24.00 42 24.10 43 24.40 44 24.45	-8.57	24.00	Extremely weak, yellowish red (5YR 5/8), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)			
							(5, 8, 10, 19, 25, 33) N = 87	43 26.00 44 26.10 45 26.40 46 26.45						
							(9, 13, 19, 22, 37, 46) N = 124	45 28.00 46 28.10 47 28.40 48 28.45	-14.57	30.00				
<div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> Small Disturbed Sample Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample Water Sample </div> <div> <ul style="list-style-type: none"> Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test </div> </div>									LOGGED BY CALVIN TSANG		REMARKS			
DATE 15/09/2020														
CHECKED BY PETER CHU														
DATE 16/09/2020														


 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH29 SHEET 4 of 7											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 282.92 N 815 280.73		W.O. No. ASD 012560 DATE from 31/08/2020 to 14/09/2020											
MACHINE / No. DR-25															
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.43 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
10/09/2020 11/09/2020	6.50m at 18:00 8.70m at 08:00							(7, 14, 20, 28, 40, 51) N = 139	47 30.00 48 30.10 48 30.40 48 30.45					As Sheet 3 of 7.	
								(14, 36/55mm 73, 127/85mm) 200bbs/140mm	49 32.00 50 32.22 50 32.27				V		
								(50/50mm 200/70mm) 200bbs/70mm	51 34.00 51 34.08 51 34.13						
								(50/50mm 200/70mm) 200bbs/70mm	52 36.00 52 36.07 52 36.12	-20.57	36.00			Weak, light red (10R 6/8), highly decomposed medium grained GRANITE. (Sandy medium to coarse GRAVEL)	
								(50/40mm 200/50mm) 200bbs/50mm	53 38.00 53 38.04 53 38.09				IV		
								(50/50mm)		-24.57	40.00				
● Small Disturbed Sample I Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 15/09/2020 CHECKED BY PETER CHU DATE 16/09/2020		REMARKS	


<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH29										
				SHEET 5 of 7										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 282.92 N 815 280.73		W.O. No. ASD 012560										
MACHINE / No. DR-25				DATE from 31/08/2020 to 14/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.43 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(200/70mm) 200bts/70mm	● 54 40.00 40.07 40.12					Very weak, yellowish red (5YR 5/8), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)
								(50/40mm) 200bts/50mm	● 55 42.00 42.04 42.09					
								(50/40mm) 200bts/60mm	● 56 44.00 44.05 44.10					
								(50/30mm) 200bts/40mm	● 57 46.00 46.02 46.07					
								(50/40mm) 200bts/50mm	● 58 48.00 48.04 48.09					
				70										
								(50/30mm)		-34.57	50.00			
<div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample ┃ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> ┃ Standard Penetration Test ● Permeability Test ┃ Impression Packer Test ┃ Borehole Televiewer Test ┃ Pressuremeter Test ┃ Standpipe Tip ┃ Piezometer Tip ┃ In-situ Vane Shear Test </div> </div>								LOGGED BY <u>CALVIN TSANG</u> DATE <u>15/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>16/09/2020</u>		REMARKS				

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH29 SHEET 6 of 7	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 282.92 N 815 280.73		W.O. No. ASD 012560 DATE from 31/08/2020 to 14/09/2020	
MACHINE / No. DR-25					
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.43 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description			
31/09/2020 12/09/2020	55.22 HW	7.20m at 18:00 8.90m at 08:00	70					I 200/50mm 200bts/50mm (50/30mm I 200/50mm) 200bts/50mm (50/40mm I 200/50mm) 200bts/50mm	59 50.00 50.03 50.08 50.45	-35.02	50.45	○ ○ ○ ○	IV	As Sheet 5 of 7.			
12/09/2020 14/09/2020	7.40m at 18:00 9.10m at 08:00	80	100	94	89	6.3								Moderately strong, reddish brown to yellowish brown, moderately decomposed medium grained GRANITE. Joints are very closely to closely spaced, rough and smooth planar, extremely narrow, iron and manganese oxides stained, dipping at 0°-10° and 10°-20°. 50.45- 50.68m: Fine grained GRANITE. 51.79- 52.13m: Moderately weak, highly decomposed. (Coarse GRAVEL and COBBLE) Very weak, yellowish red (5YR 5/8), highly decomposed medium grained GRANITE. (Sandy medium to coarse GRAVEL) Moderately strong, reddish brown, moderately decomposed medium grained GRANITE. Joints are widely locally closely spaced, rough and smooth planar, extremely narrow, iron and manganese oxides stained, chlorite coated, dipping at 20°-30° and 30°-40°.			
			100	91	54	11.8								Strong, pink spotted black and white, slightly decomposed medium grained GRANITE. Joints are widely spaced, smooth planar, tight, clean, dipping at 0°-10° and 20°-30°. 59.35- 59.50m: PEGMATITE.			

● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample □ Piston Sample ▲ Water Sample	Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test	LOGGED BY CALVIN TSANG DATE 15/09/2020 CHECKED BY PETER CHU DATE 16/09/2020	REMARKS
---	---	--	---------













 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH29										
SHEET 7 of 7														
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 282.92 N 815 280.73		W.O. No. ASD 012560										
MACHINE / No. DR-25				DATE from 31/08/2020 to 14/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.43 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
14/09/2020		7.50m at 18:00	80	100	100	100	1.0		T2-101 ↓	60.60 -45.17	60.60	+	II	As Sheet 6 of 7.
														End of drillhole at 60.60m.
<div> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> ┆ Standard Penetration Test ┆ Permeability Test ┆ Impression Packer Test ┆ Borehole Televiewer Test ┆ Pressuremeter Test ┆ Standpipe Tip ┆ Piezometer Tip ┆ In-situ Vane Shear Test </div> </div>									LOGGED BY <u>CALVIN TSANG</u> DATE <u>15/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>16/09/2020</u>			REMARKS		


 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH30 SHEET 1 of 5											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 293.23 N 815 291.63		W.O. No. ASD 012560											
MACHINE / No. DR-25				DATE from 28/08/2020 to 07/09/2020											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.44 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
28/08/2020	SW	Dry at 08:00							A 0.45 0.50	+15.29	0.15			CONCRETE SLAB.	
		Dry at 18:00						(1, 1, 2, 2, 1, 2) N = 7	B 0.95 1.00					Firm to stiff, yellowish red (5YR 5/8), sandy clayey SILT with some subangular fine gravel sized moderately weak to moderately strong granite and quartz. (FILL)	
28/08/2020 02/09/2020		Dry at 08:00							C 1.45 1.50						
									D 1.95 2.00						
									1 2.10						
									2 2.40 2.45						
									3 2.90						
									4 3.90 4.00						
									5 4.10						
									6 4.40 4.45						
	4.45 SW PW								7 4.90	+10.54	4.90			Stiff, yellowish brown (10YR 5/8) dappled red, sandy clayey SILT. (FILL)	
									8 5.90 6.00	+9.44	6.00			Firm, red (2.5YR 5/8), sandy clayey SILT with some subangular fine gravel sized moderately weak to moderately strong granite. (FILL)	
									9 6.10						
									10 6.40 6.45						
									11 6.90	+8.54	6.90			Firm, red (2.5YR 5/8), sandy clayey SILT with some subangular fine gravel sized quartz. (RESIDUAL SOIL)	
									12 7.90 8.00	+7.44	8.00		VI		
									13 8.10						
									14 8.40 8.45				V	Extremely weak, red (10R 5/8) spotted white, completely decomposed medium grained GRANITE. (Stiff, sandy clayey SILT)	
									15 8.90	+6.54	8.90				
									16 9.90	+5.44	10.00		V	Extremely weak, yellowish brown (10YR 5/8) spotted white, completely decomposed medium grained GRANITE. (Silty fine to medium SAND with some fine gravel)	
● Small Disturbed Sample ▮ Large Disturbed Sample ▮ SPT Liner Sample ▮ U76 Undisturbed Sample ▮ U100 Undisturbed Sample ▮ Mazier Sample ▮ Piston Sample ▲ Water Sample									Standard Penetration Test ● Permeability Test ▮ Impression Packer Test ▮ Borehole Televiwer Test ▮ Pressuremeter Test ▮ Standpipe Tip ▮ Piezometer Tip ∨ In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 08/09/2020 CHECKED BY PETER CHU DATE 09/09/2020		REMARKS 1. Inspection pit excavated from 0.00m-2.00m. 2. A piezometer tip was installed at 34.00m depth. 3. A standpipe was installed to 25.00m depth.	

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH30	
		CONTRACT No. TC G518		SHEET 2 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 293.23 N 815 291.63		W.O. No. ASD 012560	
MACHINE / No. DR-25				DATE from 28/08/2020 to 07/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.44 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
<div style="font-size: 0.8em;"> 03/09/2020 04/09/2020 </div>	<div style="font-size: 0.8em;"> 18.00 PW HW </div>	<div style="font-size: 0.8em;"> 5.80m at 18:00 8.05m at 08:00 </div>	<div style="font-size: 0.8em;"> 70 </div>	<div style="font-size: 0.8em;"> 100 95 95 100 95 </div>	<div style="font-size: 0.8em;"> 100 95 95 100 95 </div>	<div style="font-size: 0.8em;"> 100 95 95 100 95 </div>	<div style="font-size: 0.8em;"> 100 95 95 100 95 </div>	(2, 2, 3, 3, 3, 5) N = 14	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	10.00 10.10 10.40 10.45 10.90 11.90 12.00 12.10 12.40 12.45 12.90 13.90 14.00 14.10 14.40 14.45 14.90 15.90 16.00 16.10 16.40 16.45 16.90 17.90 18.00 18.10 18.40 18.45 18.90 19.90	+4.54 +0.54 -3.46 -4.56	10.90 14.90 18.90 20.00	V V V V V V V V V V V V V V V V	As Sheet 1 of 5. Extremely weak, red (10R 5/8) dappled yellowish brown spotted white, completely decomposed medium grained GRANITE. (Silty fine to medium SAND with some fine gravel) Extremely weak, red (10R 5/8) spotted white and grey, completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel) Extremely weak, red (10R 5/8) spotted dark brown and white, completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)

<div style="font-size: 0.8em;"> <ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample </div>	<div style="font-size: 0.8em;"> <ul style="list-style-type: none"> ⊥ Standard Penetration Test ⊥ Permeability Test ⊥ Impression Packer Test ⊥ Borehole Televiwer Test ⊥ Pressuremeter Test ⊥ Standpipe Tip ⊥ Piezometer Tip ⊥ In-situ Vane Shear Test </div>	<div style="font-size: 0.8em;"> LOGGED BY CALVIN TSANG DATE 08/09/2020 CHECKED BY PETER CHU DATE 09/09/2020 </div>	<div style="font-size: 0.8em;"> REMARKS </div>
--	--	---	--

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH30 SHEET 3 of 5												
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																
METHOD ROTARY CORED		CO-ORDINATES E 837 293.23 N 815 291.63		W.O. No. ASD 012560												
MACHINE / No. DR-25				DATE from 28/08/2020 to 07/09/2020												
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.44 mP.D.												
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description		
								(9, 15, 24, 28, 33, 41) N = 126	 37 20.00 20.10  38 20.40 20.45				V	As Sheet 2 of 5.		
								(9, 15, 22, 26, 27, 30) N = 105	 39 22.00 22.10  40 22.40 22.45	-6.56	22.00		V	Extremely weak, red (10R 5/8) dappled reddish brown and dark brownish grey, completely decomposed medium grained GRANITE. (Silty fine to medium SAND)		
								(6, 8, 12, 15, 17, 23) N = 67	 41 24.00 24.10  42 24.40 24.45				V			
			70													
								(7, 12, 16, 19, 20, 37) N = 92	 43 26.00 26.10  44 26.40 26.45	-10.56	26.00		V	Extremely weak, pale red (10R 7/4), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)		
								(11, 15, 13, 19, 22, 35) N = 89	 45 28.00 28.10  46 28.40 28.45				V			
										-14.56	30.00					
● Small Disturbed Sample ▮ Large Disturbed Sample ▮ SPT Liner Sample ▮ U76 Undisturbed Sample ▮ U100 Undisturbed Sample ▮ Mazier Sample ▮ Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressurometer Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 08/09/2020 CHECKED BY PETER CHU DATE 09/09/2020			REMARKS	

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518				DRILLHOLE No. BH30 SHEET 4 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED				CO-ORDINATES E 837 293.23 N 815 291.63				W.O. No. ASD 012560							
MACHINE / No. DR-25								DATE from 28/08/2020 to 07/09/2020							
FLUSHING MEDIUM WATER				ORIENTATION Vertical				GROUND LEVEL +15.44 mP.D.							
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
04/09/2020 05/09/2020 05/09/2020 07/09/2020	7.55m at 18:00 8.20m at 08:00 7.30m at 18:00 8.70m at 08:00 35.25 HW	70 80 70 80	70 97 100 100 100 100 98	75 75 99 99 100 100 98	61 61 97 97 100 100 98	NI 7.8 NI 7.1 0.8 >20 5.6 2.9 18.2 0.8	(6, 13, 20, 23, 30, 41) N=114 (6, 11, 17, 23, 28, 47) N=113	47 48 T2-101 T2-101 T2-101 T2-101 T2-101 T2-101 T2-101 T2-101	30.00 30.10 30.40 30.45 31.05 32.36 32.78 33.05 33.46 33.60 33.86 34.04 34.40 34.50 34.80 34.85 35.25 35.96 36.88 37.12 37.88 38.39 39.31 39.64 39.72 40.00	-15.61 -16.69 -17.34 -17.61 -18.02 -18.16 -18.42 -18.60 -18.96 -19.81 -20.52 -21.44 -21.68 -22.95 -24.20 -24.26 -24.56	31.05 32.13 32.78 33.05 33.46 33.60 33.86 34.04 34.40 35.25 35.96 36.88 37.12 37.88 38.39 39.31 39.64 39.72 40.00	V III II III V III II III	Extremely weak, pale red (10R 7/2), completely decomposed medium grained GRANITE. (Fine to medium SAND) Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are closely locally very closely and widely spaced, rough planar, extremely narrow, iron oxide stained, kaolin coated (<2mm), dipping at 20°-30°, 30°-40°, 50°-60° and 60°-70°. 32.13- 33.46m: With some pegmatite (20-50mm thick). 32.13- 32.78m: Fine to medium grained GRANITE. 32.78- 33.05m: Strong, slightly decomposed. 33.05- 33.60m: Fine to medium grained GRANITE. 33.86- 34.04m: With very closely spaced microfractures, dipping at 20°-30°. Extremely weak, pale red (10R 7/4) dappled yellowish brown, completely decomposed medium grained GRANITE. (Silty fine to medium SAND) Moderately strong, yellowish brown, moderately decomposed fine to medium grained GRANITE. Joints are medium to widely locally very closely spaced, rough and smooth planar, extremely narrow, iron oxide stained, dipping at 0°-10°, 10°-20°, 50°-60° and 70°-80°. 35.96- 38.39m: Medium grained GRANITE. 36.88- 37.12m: Strong, slightly decomposed. 39.64- 39.72m: PEGMATITE.		

<ul style="list-style-type: none"> ● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample □ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> — Standard Penetration Test ● Permeability Test — Impression Packer Test — Borehole Televiwer Test — Pressuremeter Test ▲ Standpipe Tip ▲ Piezometer Tip ∨ In-situ Vane Shear Test 	LOGGED BY <u>CALVIN TSANG</u> DATE <u>08/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>09/09/2020</u>	REMARKS
---	---	--	---------

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH30

SHEET 5 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. DR-25

E 837 293.23

DATE from 28/08/2020 to 07/09/2020

N 815 291.63

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.44 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
07/09/2020			80	98	98	98	0.8		T2-101	-24.84	40.28	+	III	As Sheet 4 of 5.
														End of drillhole at 40.28m.

- | | | | |
|---|-------------------------|---|---------------------------|
| ● | Small Disturbed Sample | | Standard Penetration Test |
| ⬆ | Large Disturbed Sample | ◆ | Permeability Test |
| □ | SPT Liner Sample | ⊥ | Impression Packer Test |
| ▨ | U76 Undisturbed Sample | ⋈ | Borehole Televiwer Test |
| ■ | U100 Undisturbed Sample | ⊥ | Pressuremeter Test |
| ▧ | Mazier Sample | ⬆ | Standpipe Tip |
| ▩ | Piston Sample | ⬆ | Piezometer Tip |
| ▲ | Water Sample | ∨ | In-situ Vane Shear Test |


LOGGED BY
CALVIN TSANG

DATE
08/09/2020

CHECKED BY
PETER CHU

DATE
09/09/2020

REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH31 SHEET 1 of 5											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 305.35 N 815 300.81		W.O. No. ASD 012560											
MACHINE / No. DR-20				DATE from 18/08/2020 to 28/08/2020											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.44 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
18/08/2020	SW	Dry at 08:00							A 0.45 0.50	+15.29	0.15			CONCRETE SLAB.	
18/08/2020		Dry at 18:00						(1, 1, 1, 2, 2, 2) N = 7	B 0.95 1.00					Loose, yellowish red (5YR 5/8), silty medium to coarse SAND with some subangular fine gravel sized granite. (FILL)	
22/08/2020		Dry at 08:00						C 1.45 1.50							
	2.90 SW PW								D 1.95 2.00 2.10						
									1 2.40 2 2.45						
									2.90						
									3						
									4 3.90 4.00 4.10	+11.54	3.90			Firm, yellowish red (5YR 5/8) spotted white, clayey SILT with occasional subangular fine gravel sized quartz. (FILL)	
									5 4.40 4.45						
									6 4.90	+10.54	4.90			Medium dense, yellowish red (5YR 5/8), silty medium to coarse SAND with much subangular fine to medium gravel sized moderately strong granite and quartz. (FILL)	
									7						
									8 5.90 6.00 6.10						
									9 6.40 6.45						
									10 6.90	+8.54	6.90			Firm, yellowish red (5YR 5/8), sandy clayey SILT with some subangular fine gravel sized quartz and brick fragments. (FILL)	
									11						
									12 7.90 8.00 8.10	+7.44	8.00			Extremely weak, red (10R 5/8), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)	
									13 8.40 8.45						
									14 8.90						
	8.90 PW HW								15						
									16 9.90	+5.44	10.00				
● Small Disturbed Sample Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 29/08/2020 CHECKED BY PETER CHU DATE 31/08/2020		REMARKS 1. Inspection pit excavated from 0.00m-2.00m.	

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH31

SHEET 2 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. DR-20

E 837 305.35

DATE from 18/08/2020 to 28/08/2020

N 815 300.81

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.44 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(2, 2, 8, 10, 10, 12) N = 40	17 18	10.00 10.10 10.40 10.45			V	As Sheet 1 of 5.
		7.03m at 18:00		100					19	10.90	+4.54	10.90	V	Extremely weak, yellowish brown (10R 5/4), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)
22/08/2020		8.82m at 08:00						(4, 16, 24, 30, 32, 41) N = 127	20 21 22	11.90 12.00 12.10 12.40 12.45			V	
24/08/2020				100					23	12.90	+2.54	12.90	V	Extremely weak, dark reddish grey (5YR 4/2), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)
								(17, 33/65mm 200/20mm) 200bs/20mm	24 25 26	13.90 14.00 14.10 14.15			V	
			70	95					27	14.90	+0.54	14.90	V	Extremely weak, yellowish brown (10YR 5/8), completely decomposed medium grained GRANITE. (Silty fine to medium SAND with some fine gravel)
								(6, 10, 12, 19, 23, 35) N = 69	28 29 30	15.90 16.00 16.10 16.40 16.45			V	
				100					31	16.90			V	
								(5, 11, 14, 17, 20, 31) N = 82	32 33 34	17.90 18.00 18.10 18.40 18.45	-2.56	18.00	V	Extremely weak, light red (10R 7/8) spotted black, completely decomposed medium grained GRANITE. (Silty fine to medium SAND with some fine gravel)
				95					35	18.90	-3.46	18.90	V	Extremely weak, pinkish grey (5YR 7/2) mottled and spotted white, completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)
									36	19.90	-4.56	20.00	V	

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample

- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiewer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
29/08/2020

CHECKED BY
PETER CHU

DATE
31/08/2020

REMARKS

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH31	
		SHEET 3 of 5			
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 305.35 N 815 300.81		W.O. No. ASD 012560	
MACHINE / No. DR-20				DATE from 18/08/2020 to 28/08/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.44 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description				
24/08/2020 25/08/2020	6.01m at 18:00 10.03m at 08:00	70	93	79	79	7.1	0.7	>20	0.7	(11, 15, 17, 21, 24, 33) N = 95	37 20.00 38 20.10 20.40 20.45	-10.56	26.00	V	As Sheet 2 of 5.			
										(5, 9, 15, 15, 27, 41) N = 98	39 22.00 40 22.10 22.40 22.45							
										(5, 8, 15, 17, 28, 39) N = 97	41 24.00 42 24.10 24.40 24.45							
										(11, 21, 32, 34, 54, 80) 65mm 200b/s/290mm	43 26.00 44 26.09 26.39 26.44							
										T2-101 27.45 T2-101 27.59	-12.01 -12.23					27.45 27.67	III	Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are widely locally very closely to closely spaced, rough planar, extremely narrow, iron and manganese oxides stained, dipping at 0°-10° and 20°-30°. 27.45- 27.67m: Moderately strong, moderately decomposed. 28.87- 29.16m: Moderately strong, moderately decomposed with very closely spaced subhorizontal microfractures.
										T2-101 28.49	-13.43					28.87	II	
										T2-101 29.50	-13.72					29.16	III	
										T2-101 29.50	-14.56					30.00	II	
										T2-101 29.50	-14.56					30.00	II	

<ul style="list-style-type: none"> ● Small Disturbed Sample ┆ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ┆ Standard Penetration Test ┆ Permeability Test ┆ Impression Packer Test ┆ Borehole Televiwer Test ┆ Pressuremeter Test ┆ Standpipe Tip ┆ Piezometer Tip ┆ In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 29/08/2020 CHECKED BY PETER CHU DATE 31/08/2020	REMARKS
---	---	--	---------

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH31

SHEET 4 of 5

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. DR-20

E 837 305.35

DATE from 18/08/2020 to 28/08/2020

N 815 300.81

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.44 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				100	100	94	0.7		T2-101	-14.90	30.34	+	II	As Sheet 3 of 5.
							NA			-15.04	30.48	+	III	
							11.1			-15.16	30.60	+	IV	30.34- 30.48m: Moderately strong, moderately decomposed.
			80						30.75	-15.55	30.99	+	III	
				97	97	97	1.5		T2-101	-16.21	31.65	+	II	30.48- 30.60m: Moderately weak, highly decomposed (Sandy coarse GRAVEL and COBBLE)
										-16.43	31.87	+	III	30.60- 30.99m: Moderately strong, moderately decomposed.
		7.97m at 18:00							32.05	-16.69	32.13	+	II	31.65- 31.87m: Moderately strong, moderately decomposed.
25/08/2020				46	43	43	NR		T2-101	-16.77	32.21	+	III	
27/08/2020		11.22m at 08:00						(29, 21/15mm 200/20mm) 200bs/20mm	32.40	-16.96	32.40	○	V	32.13- 32.21m: Moderately strong, moderately decomposed.
			70						32.46			○		32.21- 32.40m: No recovery assumed to be completely decomposed GRANITE.
									32.51			○		Weak, pinkish grey (5YR 7/2), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)
	35.44 HW						NI					○	IV	
							9.1					○		
				100	96	90	1.0		T2-101			+	III	Moderately strong, yellowish brown spotted white, moderately decomposed medium grained GRANITE. Joints are widely locally closely to medium spaced, rough planar, extremely narrow, iron and manganese oxides stained, dipping at 0°-10°, 20°-30°, 40°-50° and subvertical.
							16.0					+		
				100	97	86			T2-101	-21.78	37.22	+	II	37.22- 37.85m: Strong, slightly decomposed.
			80							-22.41	37.85	+	III	
										-22.48	37.92	+		37.92- 37.99m: PEGMATITE.
									38.05	-22.55	37.99	+		38.17- 39.27m: Strong, slightly decomposed.
							1.3		T2-101	-22.73	38.17	+	II	
		8.43m at 18:00		98	96	96						+		
27/08/2020										-23.83	39.27	+	III	39.54- 39.64m: PEGMATITE.
28/08/2020		11.35m at 08:00		100	92	85			T2-101	-24.10	39.54	+		
										-24.20	39.64	+		
										-24.44	39.88	+		
										-24.56	40.00	+		

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test


LOGGED BY
CALVIN TSANG


DATE
29/08/2020

CHECKED BY
PETER CHU

DATE
31/08/2020

REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH31										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 305.35 N 815 300.81		W.O. No. ASD 012560										
MACHINE / No. DR-20				DATE from 18/08/2020 to 28/08/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.44 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
28/08/2020			80	100	92	85	7.7 NA 3.4		T2-101 ↓ 40.53	24.66 24.80 24.85 24.93 25.09	40.10 40.24 40.29 40.37 40.53	+	IV III	39.88- 40.29m: With very closely spaced subhorizontal microfractures. 40.10- 40.24m: Moderately weak, highly decomposed. (Sandy coarse GRAVEL and COBBLE) 40.37- 40.53m: PEGMATITE. End of drillhole at 40.53m.
<div> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ■ U100 Undisturbed Sample ▤ Mazier Sample □ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> Standard Penetration Test ⬇ Permeability Test — Impression Packer Test ⬆ Borehole Televiwer Test ⊥ Pressuremeter Test ⬆ Standpipe Tip ▲ Piezometer Tip ✓ In-situ Vane Shear Test </div> </div> <div> LOGGED BY CALVIN TSANG DATE 29/08/2020 CHECKED BY PETER CHU DATE 31/08/2020 </div> <div> REMARKS </div>														


 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH32 SHEET 1 of 4											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 315.65 N 815 311.71		W.O. No. ASD 012560 DATE from 18/08/2020 to 25/08/2020											
MACHINE / No. DR-19															
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.41 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
18/08/2020	HW	Dry at 08:00								+15.21	0.20			CONCRETE SLAB.	
18/08/2020		Dry at 18:00												Medium dense, yellowish red (5YR 5/6), slightly clayey silty medium to coarse SAND with much subangular fine gravel sized moderately weak to moderately strong granite and quartz. (FILL)	
19/08/2020		Dry at 08:00						(2, 2, 3, 3, 3, 4) N = 13	A 0.45 B 0.95 C 1.45 D 1.95 1 2.10 2 2.40 2.90 3 4 3.90 5 4.10 6 4.40 4.90 7 8 5.90 9 6.10 10 6.40 6.90 11 12 7.90 13 8.10 14 8.40 8.90 15 16 9.90						
19/08/2020		0.70m at 18:00	70					(2, 2, 3, 3, 4, 5) N = 16		+8.51	6.90			Very stiff, red (2.5YR 5/6), sandy clayey SILT with some subangular fine gravel of moderately weak granite and quartz. (RESIDUAL SOIL)	
20/08/2020		3.60m at 08:00						(2, 3, 3, 3, 4, 6) N = 16		+6.51	8.90		VI	Extremely weak, light red (2.5YR 6/8), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much subangular fine gravel)	
										+5.41	10.00		V		
• Small Disturbed Sample Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiewer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 26/08/2020 CHECKED BY PETER CHU DATE 27/08/2020		REMARKS 1. Inspection pit excavated from 0.00m-2.00m.	

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH32	
		SHEET 2 of 4			
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 315.65 N 815 311.71		W.O. No. ASD 012560	
MACHINE / No. DR-19				DATE from 18/08/2020 to 25/08/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.41 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(2, 2, 3, 3, 4, 5) N = 15	17 18	10.00 10.10 10.40 10.45			V	As Sheet 1 of 4.
				100					19	+4.51	10.90		V	Extremely weak, reddish yellow (7.5YR 6/6), completely decomposed fine grained GRANITE. (Clayey silty fine to medium SAND)
								(2, 2, 3, 4, 4, 6) N = 17	20 21 22	11.90 12.00 12.10 12.40 12.45			V	
				100					23	+2.51	12.90		V	Extremely weak, red (2.5YR 5/8), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND)
								(2, 3, 4, 6, 7, 9) N = 26	24 25 26	13.90 14.00 14.10 14.40 14.45			V	
			70	100					27	+0.51	14.90		V	Extremely weak, light red (10R 7/8), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine to medium gravel)
								(4, 8, 10, 13, 19, 23) N = 65	28 29 30	15.90 16.00 16.10 16.40 16.45			V	
				100					31		16.90		V	
								(4, 9, 13, 20, 30, 48) N = 111	32 33 34	17.90 18.00 18.10 18.40 18.45	-2.59	18.00	V	Extremely weak, reddish yellow (5YR 6/8), completely decomposed medium grained GRANITE. (Fine to medium SAND with some fine gravel)
				100					35	-3.49	18.90		V	Extremely weak, pinkish grey (10YR 6/2), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine to medium gravel)
20/08/2020		2.50m at 18:00						(50/30mm)	36	-4.59	19.90		V	

<ul style="list-style-type: none"> ● Small Disturbed Sample ▮ Large Disturbed Sample ▮ SPT Liner Sample ▮ U76 Undisturbed Sample ▮ U100 Undisturbed Sample ▮ Mazier Sample ▮ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ⊥ Standard Penetration Test ⊥ Permeability Test ⊥ Impression Packer Test ⊥ Borehole Televiwer Test ⊥ Pressuremeter Test ⊥ Standpipe Tip ⊥ Piezometer Tip ⊥ In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 26/08/2020 CHECKED BY PETER CHU DATE 27/08/2020	REMARKS
---	---	--	---------



 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH32 SHEET 4 of 4										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 315.65 N 815 311.71		W.O. No. ASD 012560										
MACHINE / No. DR-19				DATE from 18/08/2020 to 25/08/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.41 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
22/08/2020 24/08/2020	8.20m at 18:00		80	100	100	100	2.2	(50/30mm I 200/70mm) 200b/s/70mm	T2-101 30.00	-14.90	30.31	+	III	30.00- 30.31m: Moderately strong, moderately decomposed.
	8.20m at 08:00								41 31.06 31.10 31.15 31.20	-15.65	31.06	+	II	
24/08/2020 25/08/2020	9.30m at 18:00		70					(50/30mm I 200/70mm) 200b/s/70mm	42 33.10 33.15 33.20 33.46	-18.05	33.46	+	III	Extremely weak, light brownish grey (10YR 6/2), completely decomposed medium grained GRANITE. (Medium to coarse SAND with some fine gravel)
	10.00m at 08:00												V	
25/08/2020				100	97	97	3.6	(50/30mm I 200/70mm) 200b/s/70mm	T2-101	-19.12	34.53	+	III	Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are medium to widely spaced, rough and smooth planar, extremely narrow, iron oxide stained, dipping at 20°-30°. 33.46- 34.53m: Moderately strong, moderately decomposed.
				100	100	100			34.99				II	
				100	100	100			35.72				II	
				100	100	100			36.55	-21.14	36.55	+	III	36.55- 37.23m: Moderately strong, moderately decomposed.
				100	100	100			37.23	-21.82	37.23	+	II	
				100	100	100			37.47	-22.06	37.47	+	III	37.47- 37.74m: Moderately strong, moderately decomposed.
				100	100	100			37.74	-22.33	37.74	+	II	
				100	100	100			38.24	-22.83	38.24	+	III	38.24- 38.56m: Moderately strong, moderately decomposed.
				100	100	100			38.56	-23.15	38.56	+	III	

● Small Disturbed Sample
 I Large Disturbed Sample
 SPT Liner Sample
 U76 Undisturbed Sample
 U100 Undisturbed Sample
 Mazier Sample
 Piston Sample
 ▲ Water Sample

| Standard Penetration Test
 ● Permeability Test
 | Impression Packer Test
 | Borehole Televiwer Test
 | Pressuremeter Test
 □ Standpipe Tip
 ■ Piezometer Tip
 ∨ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG
 DATE
26/08/2020
 CHECKED BY
PETER CHU
 DATE
27/08/2020

REMARKS

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH33

SHEET 1 of 3

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. DR-25

E 837 231.20

DATE from 26/09/2020 to 30/09/2020

N 815 207.84

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.29 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description					
26/09/2020	PW									+15.14	0.15			CONCRETE SLAB.					
									A 0.45 0.50				VI	Red (2.5YR 5/8), sandy clayey SILT. (RESIDUAL SOIL)					
									B 0.95 1.00										
									C 1.45 1.50										
									D 1.95 2.00	+13.29	2.00								
								(1, 1, 1, 2, 3, 3) N = 9	1 2.10 2.40					Stiff, red (2.5YR 5/8), sandy clayey SILT with some subangular fine gravel of quartz. (RESIDUAL SOIL)					
									2 2.45 2.90										
				90					3 2.90 3.90				VI						
									4 3.90 4.00										
								(1, 1, 2, 1, 2, 3) N = 8	5 4.10 4.40										
									6 4.45 4.90	+10.39	4.90			Extremely weak, weak red (10R 5/4), completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND with some fine gravel)					
		3.70m at 18:00	70	90					7 4.90 5.90				V						
									8 5.90 6.00	+9.29	6.00			Extremely weak, red (2.5YR 5/8), completely decomposed fine to medium grained GRANITE. (Silty clayey fine to medium SAND with some fine gravel)					
26/09/2020		4.90m at 08:00						(1, 2, 2, 2, 2, 2) N = 8	9 6.10 6.40				V	Extremely weak, red (2.5YR 5/8), completely decomposed fine to medium grained GRANITE. (Stiff, sandy clayey SILT)					
28/09/2020									10 6.45 6.90	+8.39	6.90			Extremely weak, reddish yellow (5YR 7/8), completely decomposed fine grained GRANITE. (Stiff, sandy clayey SILT)					
				90					11 6.90 7.90				V						
									12 7.90 8.00	+7.29	8.00			Extremely weak, yellowish red (5YR 5/8), completely decomposed fine grained GRANITE. (Silty fine to medium SAND)					
								(1, 2, 2, 3, 3, 3) N = 11	13 8.10 8.40				V						
									14 8.45 8.90	+6.39	8.90			Extremely weak, reddish yellow (5YR 6/8), completely decomposed medium grained GRANITE. (Silty fine to medium SAND with much fine gravel and occasional cobble)					
	8.90 PW			0					15 8.90 9.07	+6.12	9.17		V						
	HW								T2-101 9.17 9.87				II	Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are					
			80	99	97	97	0.4		T2-101	+5.29	10.00								
<div><div><div>● Small Disturbed Sample</div><div>┆ Large Disturbed Sample</div><div>▤ SPT Liner Sample</div><div>▨ U76 Undisturbed Sample</div><div>▩ U100 Undisturbed Sample</div><div>▧ Mazier Sample</div><div>▣ Piston Sample</div><div>▲ Water Sample</div></div><div><div>┆ Standard Penetration Test</div><div>● Permeability Test</div><div>┆ Impression Packer Test</div><div>┆ Borehole Televiwer Test</div><div>┆ Pressuremeter Test</div><div>┆ Standpipe Tip</div><div>┆ Piezometer Tip</div><div>┆ In-situ Vane Shear Test</div></div></div>										LOGGED BY CALVIN TSANG DATE 03/10/2020 CHECKED BY PETER CHU DATE 05/10/2020					REMARKS 1. Inspection pit excavated from 0.00m-2.00m.				

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH33

SHEET 2 of 3

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. DR-25

E 837 231.20

DATE from 26/09/2020 to 30/09/2020

N 815 207.84

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.29 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
28/09/2020 29/09/2020	20.06	5.10m at 18:00 5.45m at 08:00	80	100	100	100	0.4	(2, 2, 4, 6, 6, 7) N = 23	T2-101			+	II	widely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10° and 20°-30°.
												+		
				100	98	98			10.66	+4.12	11.17	+		
												+		
			70	100				(3, 5, 7, 8, 9, 11) N = 35	T2-101			+	III	11.17- 11.70m: Moderately strong, moderately decomposed.
												+		
									11.70	+3.59	11.70	+		
									11.80			+		
			70	100					16			o	V	Extremely weak, dark yellowish brown (10YR 6/4) to yellowish brown (10YR 5/6), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine gravel)
									17			o		
									12.10			o		
									12.15			o		
			70	100					18			o		
									19			o		
									13.60			o		
									13.70			o		
			70	0					20			o		
									21			o		
									14.10			o		
									14.15			o		
			80	94	66	66	NI	0.0				+	IV	Weak, yellowish red (5YR 5/8), highly decomposed medium grained GRANITE. (Coarse GRAVEL)
											+			
											+			
											+			
			80	94			NA		T2-101			+	III	Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are very widely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 30°-40°.
											+			
											+			
											+			
70	94				(8, 11, 13, 10, 8, 7) N = 38	T2-101			+	IV	15.39- 15.60m: Moderately weak, highly decomposed. (Sandy COBBLE)			
									+					
						15.60	-0.10	15.60	+					
						15.70			+					
70	94					23			o	V	Extremely weak, light yellowish brown (10YR 6/4) to yellowish red (5YR 5/8), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine gravel)			
						24			o					
						16.00			o					
						16.05			o					
80	94	92	92	1.7		25			o					
						26			o					
						17.30			o					
						17.40			o					
80	92	89	89			T2-101			+	II	Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are medium spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10°, 30°-40° and 40°-50°.			
									+					
						18.30			+					
									+					
70					(8, 13, 11, 15, 17, 25) N = 68	T2-101			+	III	19.03- 19.20m: Moderately strong, moderately decomposed.			
									+					
						19.20	-3.74	19.03	+					
						19.30	-3.91	19.20	+					
70						27			o	V	Extremely weak, light yellowish brown (10YR 6/4), completely decomposed medium grained GRANITE.			
						28			o					
						19.60			o					
						19.65			o					

- | | | | |
|---|-------------------------|---|---------------------------|
| ● | Small Disturbed Sample | ↓ | Standard Penetration Test |
| ↓ | Large Disturbed Sample | ⬇ | Permeability Test |
| □ | SPT Liner Sample | ⬇ | Impression Packer Test |
| ▨ | U76 Undisturbed Sample | ⬇ | Borehole Televiwer Test |
| ■ | U100 Undisturbed Sample | ⬇ | Pressuremeter Test |
| ▧ | Mazier Sample | ⬆ | Standpipe Tip |
| ▩ | Piston Sample | ⬆ | Piezometer Tip |
| ▲ | Water Sample | ∨ | In-situ Vane Shear Test |

LOGGED BY
CALVIN TSANG

DATE
03/10/2020

CHECKED BY
PETER CHU

DATE 05/10/2020

REMARKS

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH33

SHEET 3 of 3

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. DR-25

E 837 231.20

DATE from 26/09/2020 to 30/09/2020

N 815 207.84

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.29 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
29/09/2020 30/09/2020	HW	5.10m at 18:00	80	100	98	98	0.2		T2-101	-4.77	20.06	+	III	(Silty medium to coarse SAND with some fine gravel) Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are widely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10° and 30°-40°. 20.06- 20.36m: Moderately strong, moderately decomposed.
										-5.07	20.36	+		
												+		
												+		
												+		
												+		
30/09/2020	5.50m at 08:00	100	100	100				T2-101			+			
											+			
											+			
											+			
											+			
											+			
30/09/2020	5.20m at 18:00	100	100	100				T2-101			+			
											+			
											+			
											+			
											+			
											+			
30/09/2020	5.20m at 18:00	89	86	86				T2-101			+			
											+			
											+			
											+			
											+			
											+			
30/09/2020	5.20m at 18:00							T2-101	-9.77	25.06	+			
30/09/2020	5.20m at 18:00											II	End of drillhole at 25.06m.	

- | | | | |
|---|-------------------------|---|---------------------------|
| ● | Small Disturbed Sample | ↓ | Standard Penetration Test |
| ⌋ | Large Disturbed Sample | ⌋ | Permeability Test |
| □ | SPT Liner Sample | ⌋ | Impression Packer Test |
| ▨ | U76 Undisturbed Sample | ⌋ | Borehole Televier Test |
| ■ | U100 Undisturbed Sample | ⌋ | Pressuremeter Test |
| ▨ | Mazier Sample | ⌋ | Standpipe Tip |
| ▨ | Piston Sample | ⌋ | Piezometer Tip |
| ▲ | Water Sample | ∨ | In-situ Vane Shear Test |






















LOGGED BY
CALVIN TSANG









DATE
03/10/2020









CHECKED BY
PETER CHU

DATE
05/10/2020

REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518				DRILLHOLE No. BH34 SHEET 1 of 5	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED						CO-ORDINATES E 837 242.29 N 815 215.93				W.O. No. ASD 012560					
MACHINE / No. CCL-6										DATE from 26/09/2020 to 05/10/2020					
FLUSHING MEDIUM WATER						ORIENTATION Vertical				GROUND LEVEL +15.37 mP.D.					
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
26/09/2020	SW	Dry at 08:00								+15.22	0.15			CONCRETE SLAB.	
		Dry at 18:00												Reddish brown (5YR 4/3), medium to coarse SAND with some subrounded and subangular fine to medium gravel sized moderately strong to strong granite, quartz and concrete fragments. (FILL)	
26/09/2020 30/09/2020		Dry at 08:00	80	44				(1, 2, 2, 2, 3, 3) N = 10	 A 0.45  B 0.95  C 1.00  T2-101 1.15  1 2.00  2 2.40  3 2.45  4 2.90  5 3.90  6 4.00  7 4.10  8 4.40  9 4.45  10 4.90  11 5.90  12 6.00  13 6.10  14 6.40  15 6.45  16 8.90	+14.17	1.20			Grey (N6) and light red (2.5YR 6/8), angular COBBLE with some coarse gravel sized concrete fragments in a matrix of silty clayey sand. (FILL)	
	2.90 SW PW							(1, 2, 2, 3, 3, 3) N = 11		+13.37	2.00			Stiff, yellowish red (5YR 5/8), sandy clayey SILT with some subangular fine gravel of quartz. (FILL)	
								(1, 1, 2, 2, 3, 4) N = 11							
								(1, 2, 2, 3, 2, 4) N = 11							
										+8.47	6.90			Stiff, reddish yellow (5YR 6/8), sandy clayey SILT with some fine gravel of quartz. (FILL)	
										+6.47	8.90			White (N8) dappled light reddish brown, silty clayey medium to coarse SAND with much fine gravel. (ALLUVIUM)	
										+5.37	10.00				

 Small Disturbed Sample
 Large Disturbed Sample
 SPT Liner Sample
 U76 Undisturbed Sample
 U100 Undisturbed Sample
 Mazier Sample
 Piston Sample
 Water Sample

 Standard Penetration Test
 Permeability Test
 Impression Packer Test
 Borehole Televiewer Test
 Pressuremeter Test
 Standpipe Tip
 Piezometer Tip
 In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG
 DATE
05/10/2020
 CHECKED BY
PETER CHU
 DATE
06/10/2020

REMARKS
 1. Inspection pit excavated from 0.00m-1.20m.

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH34	
		SHEET 2 of 5			
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 242.29 N 815 215.93		W.O. No. ASD 012560	
MACHINE / No. CCL-6				DATE from 26/09/2020 to 05/10/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.37 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
<div style="font-size: 0.8em;"> 30/09/2020 at 18:00 03/10/2020 at 08:00 </div>								(1, 1, 2, 2, 4, 5) N = 13	17 18	10.00 10.10 10.40 10.45				Extremely weak, yellowish red (5YR 5/8), completely decomposed medium grained GRANITE. (Stiff, sandy clayey SILT with some fine gravel)	
									19 20 21 22	10.90 11.90 12.00 12.10 12.40 12.45			Extremely weak, red (10R 5/8) spotted white, completely decomposed medium grained GRANITE. (Stiff to very stiff, sandy clayey SILT with some fine gravel)		
									23 24 25 26	12.90 13.90 14.00 14.10 14.40 14.45					
									27 28 29 30	14.90 15.90 16.00 16.10 16.40 16.45					
									31 32 33 34	16.90 17.90 18.00 18.10 18.40 18.45					Extremely weak, pale red (10R 7/4), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine to medium gravel)
									35 36	18.90 19.90					

<ul style="list-style-type: none"> ● Small Disturbed Sample ⊢ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ⊢ Standard Penetration Test ● Permeability Test ⊢ Impression Packer Test ⊢ Borehole Televiwer Test ⊢ Pressuremeter Test ⊢ Standpipe Tip ⊢ Piezometer Tip ⊢ In-situ Vane Shear Test 	LOGGED BY <u>CALVIN TSANG</u> DATE <u>05/10/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>06/10/2020</u>
REMARKS		

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH34										
				SHEET 3 of 5										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 242.29 N 815 215.93		W.O. No. ASD 012560										
MACHINE / No. CCL-6				DATE from 26/09/2020 to 05/10/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.37 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
	22.00 PW HW							(5, 8, 12, 15, 16) N = 58 ↓	 37 20.00 38 20.10 38 20.40 38 20.45					As Sheet 2 of 5.
								(5, 9, 12, 16, 17) N = 61 ↓	 39 22.00 40 22.10 40 22.40 40 22.45					
								(6, 12, 14, 14, 16, 18) N = 62 ↓	 41 24.00 42 24.10 42 24.40 42 24.45					
								(6, 11, 15, 15, 17, 19) N = 66 ↓	 43 26.00 44 26.10 44 26.40 44 26.45					
								(10, 21, 33, 35, 37, 42) N = 147 ↓	 45 28.00 46 28.10 46 28.40 46 28.45					
										-14.63	30.00			

● Small Disturbed Sample	┆ Standard Penetration Test
┆ Large Disturbed Sample	● Permeability Test
▨ SPT Liner Sample	┆ Impression Packer Test
▨ U76 Undisturbed Sample	┆ Borehole Televiwer Test
▨ U100 Undisturbed Sample	┆ Pressurometer Test
▨ Mazier Sample	┆ Standpipe Tip
▨ Piston Sample	┆ Piezometer Tip
▲ Water Sample	┆ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
05/10/2020

CHECKED BY
PETER CHU

DATE
06/10/2020

REMARKS

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH34										
				SHEET 4 of 5										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 242.29 N 815 215.93		W.O. No. ASD 012560										
MACHINE / No. CCL-6				DATE from 26/09/2020 to 05/10/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.37 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
		0.70m at 18:00 1.80m at 08:00	70					(11, 28, 30, 41, 45, 58) N = 174	47 30.00 48 30.10 30.40 30.45	-16.63	32.00		V	As Sheet 2 of 5.
								(17, 33/40mm 115, 85/50mm) 200bs/125mm	49 32.00 50 32.19 32.24					Extremely weak, yellowish brown (10YR 5/8), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine to medium gravel)
								(50/60mm 200/70mm) 200bs/70mm	51 34.00 34.08 34.13					
								(50/50mm 200/70mm) 200bs/70mm	52 36.00 36.07 36.12					
								(50/40mm 200/60mm) 200bs/60mm	53 38.00 38.05 38.10					
								(50/10mm)		-24.63	40.06			
<div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample ┆ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> ┆ Standard Penetration Test ● Permeability Test ┆ Impression Packer Test ┆ Borehole Televiwer Test ┆ Pressuremeter Test ▨ Standpipe Tip ▨ Piezometer Tip ┆ In-situ Vane Shear Test </div> </div>								LOGGED BY CALVIN TSANG DATE 05/10/2020 CHECKED BY PETER CHU DATE 06/10/2020		REMARKS				



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH34**

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

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD **ROTARY CORED**

CO-ORDINATES

W.O. No. **ASD 012560**

MACHINE / No. **CCL-6**

E 837 242.29

DATE from **26/09/2020** to **05/10/2020**

N 815 215.93

FLUSHING MEDIUM **WATER**

ORIENTATION **Vertical**

GROUND LEVEL **+15.37 mP.D.**

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
	41.28 HW		70					1. 200/50mm 200bts/50mm	54 40.00 40.01 40.06				V	As Sheet 4 of 5.
				99	86	51	14.0		T2-101 41.28	-25.91	41.28			Moderately strong, reddish brown, moderately decomposed medium grained GRANITE. Joints are very closely to closely spaced, smooth planar, extremely narrow, iron oxide stained, dipping at 20°-30°, 30°-40°, 50°-60°, 60°-70° and 70°-80°.
				100	75	28	13.3		T2-101 42.70	-26.53 -26.78	41.90 42.15			41.90- 42.15m: Fine grained GRANITE with pegmatite.
			80				>20		T2-101 43.72				III	
				99	81	53	8.6		T2-101 45.22	-28.93 -29.28	44.30 44.65			44.30- 44.65m: Fine grained GRANITE with pegmatite.
				100	97	72	5.1		T2-101 46.54	-29.85 -30.11	45.22 45.48			45.22- 45.48m: Fine grained GRANITE with pegmatite.
05/10/2020	0.60m at 18:00									-31.19 -31.17	46.47 46.54			46.47- 46.54m: Fine grained GRANITE with pegmatite. End of drillhole at 46.54m.

- Small Disturbed Sample
- Large Disturbed Sample
- ▨ SPT Liner Sample
- ▨ U76 Undisturbed Sample
- ▨ U100 Undisturbed Sample
- ▨ Mazier Sample
- ▨ Piston Sample
- ▲ Water Sample
- ┆ Standard Penetration Test
- Permeability Test
- ┆ Impression Packer Test
- ┆ Borehole Televiwer Test
- ┆ Pressuremeter Test
- ┆ Standpipe Tip
- ┆ Piezometer Tip
- ┆ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
05/10/2020

CHECKED BY
PETER CHU

DATE
06/10/2020

REMARKS

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH35

SHEET 1 of 6

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-6

E 837 254.41

DATE from 19/09/2020 to 29/09/2020

N 815 225.11

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.25 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
19/09/2020	SW	Dry at 08:00								+15.10	0.15			CONCRETE SLAB.
									A 0.45 0.50					Weak red (10R 5/3), sandy clayey SILT with much subangular fine gravel sized moderately weak to moderately strong granite. (FILL)
									B 0.95 1.00					
									C 1.45 1.50					
		Dry at 18:00							D 1.95 2.00	+13.25	2.00			Stiff, weak red (10R 5/3), sandy clayey SILT with some subangular fine gravel sized moderately weak granite and quartz. (FILL)
19/09/2020 25/09/2020		Dry at 08:00						(1, 2, 2, 2, 2, 3) N = 9	1 2.10 2 2.40 2.45					
									2.90	+12.35	2.90			Stiff, yellowish red (5YR 5/8) and yellowish brown (10YR 5/6), sandy clayey SILT with some fine gravel sized quartz and plagioclase. (FILL)
	4.00 SW PW			100					3					
									4 3.90 4.00 4.10					
								(2, 2, 3, 3, 3, 4) N = 13	5 4.40 4.45					
									6					
									4.90					
				100					7					
			70						8 5.90 6.00 6.10					
								(2, 2, 2, 3, 3, 5) N = 13	9 6.40 6.45					
									10					
									6.90					
				100					11					
									12 7.90 8.00 8.10					
								(2, 2, 2, 3, 3, 5) N = 13	13 8.40 8.45					
									14					
									8.90					
				100					15					
									16 9.90	+5.25	10.00			

● Small Disturbed Sample

┆ Large Disturbed Sample

▭ SPT Liner Sample

▨ U76 Undisturbed Sample

■ U100 Undisturbed Sample

▩ Mazier Sample

□ Piston Sample

▲ Water Sample

┆ Standard Penetration Test

● Permeability Test

┆ Impression Packer Test

┆ Borehole Televiever Test

┆ Pressuremeter Test

⌄ Standpipe Tip

⌄ Piezometer Tap

< In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG


DATE
30/09/2020

CHECKED BY
PETER CHU

DATE
03/10/2020

REMARKS

1. Inspection pit excavated from 0.00m-2.00m.

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH35 SHEET 2 of 6											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 254.41 N 815 225.11		W.O. No. ASD 012560											
MACHINE / No. CCL-6				DATE from 19/09/2020 to 29/09/2020											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.25 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
25/09/2020 26/09/2020		0.60m at 18:00 1.20m at 08:00						(1, 2, 2, 3, 3, 4) N = 12	17 18	10.00 10.10 10.40 10.45				Stiff, light reddish brown (5YR 6/4), sandy clayey SILT. (FILL)	
				100					19	10.90	+4.35	10.90		Stiff, white (N8) spotted grey dappled yellowish brown, sandy clayey SILT with some fine gravel sized quartz and plagioclase. (ALLUVIUM)	
								(2, 2, 2, 3, 4, 4) N = 13	20 21 22	11.90 12.00 12.10 12.40 12.45	+3.25	12.00		Stiff, reddish yellow (5YR 6/8), sandy clayey SILT. (ALLUVIUM)	
				100					23	12.90	+2.35	12.90		Stiff, white (N8) dappled red, sandy clayey SILT with some fine gravel of quartz. (ALLUVIUM)	
								(1, 2, 3, 4, 5, 7) N = 19	24 25 26	13.90 14.00 14.10 14.40 14.45	+1.25	14.00		Medium dense, white (N8) spotted grey, clayey silty medium to coarse SAND with much fine gravel of quartz. (ALLUVIUM)	
			70	100					27	14.90					
								(5, 9, 13, 15, 13, 16) N = 57	28 29 30	15.90 16.00 16.10 16.40 16.45	-0.75	16.00	V	Extremely weak, light yellowish brown (10YR 6/4), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine gravel)	
				100					31	16.90	-1.65	16.90	V	Extremely weak, yellowish brown (10YR 5/8) spotted white, completely decomposed medium grained GRANITE. (Sandy clayey SILT with some fine gravel)	
								(7, 15, 17, 16, 13, 14) N = 60	32 33 34	17.90 18.00 18.10 18.40 18.45	-2.75	18.00	V	Extremely weak, dark yellowish brown (10YR 4/8), completely decomposed medium grained GRANITE. (Medium to coarse SAND with some fine gravel)	
				100					35	18.90	-3.65	18.90	V	Extremely weak, pinkish grey (5YR 7/2) spotted white and grey dappled brown, completely decomposed medium grained GRANITE. (Medium to coarse SAND with some fine gravel)	
									36	19.90	-4.75	20.00			
● Small Disturbed Sample □ Large Disturbed Sample ▨ SPT Liner Sample ▩ U76 Undisturbed Sample ■ U100 Undisturbed Sample ▨ Mazier Sample □ Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY <u>CALVIN TSANG</u> DATE <u>30/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>03/10/2020</u>		REMARKS	

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH35																
		SHEET 3 of 6																		
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																				
METHOD ROTARY CORED		CO-ORDINATES E 837 254.41 N 815 225.11		W.O. No. ASD 012560																
MACHINE / No. CCL-6				DATE from 19/09/2020 to 29/09/2020																
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.25 mP.D.																
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description						
<div style="font-size: 0.8em;"> 26/09/2020 28/09/2020 </div>	22.00 PW HW	70	70	70	70	70	70	(6, 8, 10, 13, 14, 17) N = 54	37 38 20.00 20.10 20.40 20.45	20.00 20.10 20.40 20.45	20.00 20.10 20.40 20.45	20.00 20.10 20.40 20.45	20.00 20.10 20.40 20.45	As Sheet 2 of 6.						
								(6, 12, 14, 15, 16) N = 60	39 40 22.00 22.10 22.40 22.45						22.00 22.10 22.40 22.45	22.00 22.10 22.40 22.45				
								(7, 18, 21, 23, 22, 24) N = 90	41 42 24.00 24.10 24.40 24.45								24.00 24.10 24.40 24.45	24.00 24.10 24.40 24.45		
								(16, 23, 23, 28, 32, 36) N = 119	43 44 26.00 26.10 26.40 26.45										26.00 26.10 26.40 26.45	26.00 26.10 26.40 26.45
								(17, 33/30mm 114, 83/40mm) 200bls/115mm	45 46 28.00 28.17 28.22											
(50/30mm)								-14.75 30.00		30.00		30.00								
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <ul style="list-style-type: none"> ● Small Disturbed Sample ↑ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample </div> <div style="width: 45%;"> <ul style="list-style-type: none"> ⊥ Standard Penetration Test ⊥ Permeability Test ⊥ Impression Packer Test ⊥ Borehole Televiwer Test ⊥ Pressuremeter Test ⊥ Standpipe Tip ⊥ Piezometer Tip ⊥ In-situ Vane Shear Test </div> </div>								LOGGED BY CALVIN TSANG		REMARKS										
DATE 30/09/2020																				
CHECKED BY PETER CHU																				
DATE 03/10/2020																				

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH35

SHEET 4 of 6

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-6

E 837 254.41

DATE from 19/09/2020 to 29/09/2020

N 815 225.11

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.25 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(200/70mm) I 200bls/70mm	● 47 30.00 30.05 30.10					Extremely weak, yellowish brown (10YR 4/8), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine to medium gravel)
								(50/25mm) I 200/65mm 200bls/65mm	● 48 32.00 32.04 32.09					
								(50/30mm) I 200/70mm 200bls/70mm	● 49 34.00 34.04 34.09					
								(50/15mm) I 200/65mm 200bls/65mm	● 50 36.00 36.03 36.08					
								(50/20mm) I 200/70mm 200bls/70mm	● 51 38.00 38.04 38.09					
								(50/10mm)		-24.75	40.00		V	

● Small Disturbed Sample I Standard Penetration Test
 I Large Disturbed Sample ● Permeability Test
 □ SPT Liner Sample I Impression Packer Test
 ▨ U76 Undisturbed Sample I Borehole Televiewer Test
 ■ U100 Undisturbed Sample I Pressuremeter Test
 ▩ Mazier Sample ⚙ Standpipe Tip
 □ Piston Sample ▲ Piezometer Tip
 ▲ Water Sample < In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
30/09/2020

CHECKED BY
PETER CHU

DATE
03/10/2020

REMARKS

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH35

SHEET 5 of 6

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-6

E 837 254.41

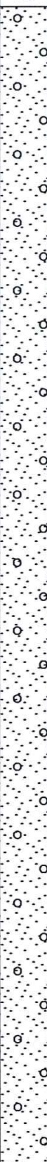
DATE from 19/09/2020 to 29/09/2020

N 815 225.11

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.25 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
			70					1 200/60mm 200bls/60mm	● 52 40.00 40.02 40.07				V	As Sheet 4 of 6.
							(50/15mm 1 200/65mm) 200bls/65mm	● 53 42.00 42.03 42.08						
							(50/20mm 1 200/70mm) 200bls/70mm	● 54 44.00 44.04 44.09						
							(50/15mm 1 200/65mm) 200bls/65mm	● 55 46.00 46.03 46.08						
							(50/15mm 1 200/65mm) 200bls/65mm	● 56 48.00 48.03 48.08						
								(50/10mm		-34.75	50.00			
<div><div><div>●</div>Small Disturbed Sample</div><div><div>┆</div>Large Disturbed Sample</div><div><div>□</div>SPT Liner Sample</div><div><div>▨</div>U76 Undisturbed Sample</div><div><div>■</div>U100 Undisturbed Sample</div><div><div>▩</div>Mazier Sample</div><div><div>□</div>Piston Sample</div><div><div>▲</div>Water Sample</div></div> <div><div>┆</div>Standard Penetration Test</div> <div><div>●</div>Permeability Test</div> <div><div>┆</div>Impression Packer Test</div> <div><div>┆</div>Borehole Televiwer Test</div> <div><div>┆</div>Pressuremeter Test</div> <div><div>▲</div>Standpipe Tip</div> <div><div>▲</div>Piezometer Tip</div> <div><div><</div>In-situ Vane Shear Test</div> <div><div>LOGGED BY</div><div>CALVIN TSANG</div><div>DATE</div><div>30/09/2020</div><div>CHECKED BY</div><div>PETER CHU</div><div>DATE</div><div>03/10/2020</div></div> <div>REMARKS</div>														

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH35	
				SHEET 6 of 6	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 254.41 N 815 225.11		W.O. No. ASD 012560	
MACHINE / No. CCL-6				DATE from 19/09/2020 to 29/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.25 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description		
<div style="font-size: 0.8em;"> 28/09/2020 29/09/2020 29/09/2020 </div>	50.21 HW		70				NI	<div style="font-size: 0.8em;"> 1 200/60mm 200bbs/60mm </div>	57	50.00	34.96	50.21	V	As Sheet 4 of 6.		
									50.02	-35.05	50.30	++	II	Strong, pink and red, slightly decomposed medium grained GRANITE. Joints are closely and widely locally very closely and medium spaced, smooth planar, extremely narrow, iron oxide stained, epidote coated, dipping at 20°-30°, 30°-40° and 50°-60°.		
									50.07	-35.37	50.62	++				
									50.21	-35.99	51.24	++				
										-36.11	51.36	++				
										51.56	-36.52	51.77	++	III	50.30- 50.62m: Fine grained GRANITE with pegmatite.	
											-36.96	52.21	++		51.24- 51.77m: Fine grained GRANITE with pegmatite.	
												-37.41	52.66	++	II	51.36- 52.21m: Moderately strong, moderately decomposed.
												-37.69	52.94	++		52.66- 52.94m: Fine grained GRANITE with pegmatite.
												-37.72	52.97	++	II	52.97- 53.69m: With closely spaced pegmatite veins (40-70mm thick).
												-38.44	53.69	++		53.69- 54.02m: Fine grained GRANITE with pegmatite.
												-38.77	54.02	++	II	54.02- 54.23m: With closely spaced pegmatite quartz (40-70mm thick).
										-38.98	54.23	++	54.94- 55.70m: Epidotized.			
										-39.69	54.94	++				
										-40.27	55.52	++				
										-40.45	55.70	++				
														55.52- 55.70m: Fine grained GRANITE with pegmatite. End of drillhole at 55.70m.		

<div style="font-size: 0.8em;"> <ul style="list-style-type: none"> ● Small Disturbed Sample ↑ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample <ul style="list-style-type: none"> ⊥ Standard Penetration Test ● Permeability Test ⊥ Impression Packer Test ⊥ Borehole Televiewer Test ⊥ Pressuremeter Test ⊥ Standpipe Tip ⊥ Piezometer Tip ∨ In-situ Vane Shear Test </div>	LOGGED BY <u>CALVIN TSANG</u> DATE <u>30/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>03/10/2020</u>	REMARKS
---	--	---------

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH36

SHEET 1 of 6

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-6

E 837 264.72

DATE from 19/09/2020 to 25/09/2020

N 815 236.01

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.22 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
19/09/2020 21/09/2020	SW 4.00 SW PWV	Dry at 08:00 Dry at 18:00 Dry at 08:00								+15.07	0.15			CONCRETE SLAB. Very stiff, yellowish red (5YR 5/6), sandy clayey SILT with occasional coarse gravel sized cement sand mortar. (FILL)
				100				(2, 3, 3, 4, 4, 5) N = 17	A 0.45 0.50 B 0.95 1.00 C 1.45 1.50 D 1.95 2.00 1 2.10 2 2.40 2.45 2.90 3 4 3.90 4.00 4.10 5 4.40 6 4.45 4.90 7 8 5.90 6.00 6.10 9 6.40 10 6.45 6.90 11 12 7.90 8.00 8.10 13 8.40 14 8.45 8.90 15 16 9.90					
				100				(3, 3, 4, 5, 5, 7) N = 21		+7.22	8.00			Medium dense, yellowish red (5YR 5/6), silty clayey medium to coarse SAND. (FILL)
				100				(3, 3, 4, 4, 5, 4) N = 17		+6.32	8.90			Very stiff, yellowish brown (10YR 5/4), sandy clayey SILT. (ALLUVIUM)
				100				(3, 3, 3, 3, 4, 4) N = 14		+5.22	10.00			

● Small Disturbed Sample

┆ Large Disturbed Sample

▢ SPT Liner Sample

▨ U76 Undisturbed Sample

■ U100 Undisturbed Sample

▤ Mazier Sample

▣ Piston Sample

▲ Water Sample

┆ Standard Penetration Test

● Permeability Test

┆ Impression Packer Test

┆ Borehole Televiwer Test

┆ Pressuremeter Test

⚙ Standpipe Tip

⚙ Piezometer Tip

< In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG












DATE
25/09/2020

CHECKED BY
PETER CHU


















DATE
26/09/2020

REMARKS

1. Inspection pit excavated from 0.00m-2.00m.

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH36 SHEET 2 of 6													
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																	
METHOD ROTARY CORED		CO-ORDINATES E 837 264.72 N 815 236.01		W.O. No. ASD 012560													
MACHINE / No. CCL-6				DATE from 19/09/2020 to 25/09/2020													
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.22 mP.D.													
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description			
21/09/2020 22/09/2020	0.40m at 18:00 1.10m at 08:00	18:00 08:00	100	100	100	70	100	(2, 3, 2, 4, 3, 4) N = 13	17 18 10.00 10.10 10.40 10.45	+4.32	10.90		V	Medium dense, yellowish brown (10YR 5/4), silty clayey medium to coarse SAND. (ALLUVIUM)			
								(3, 5, 6, 7, 7, 7) N = 27	19 20 10.90 11.90 12.00 12.10	+3.22	12.00		V	Very stiff, reddish yellow (5YR 6/8), sandy clayey SILT with some subrounded fine gravel of plagioclase and quartz. (ALLUVIUM)			
								(3, 3, 3, 4, 3, 4) N = 14	21 22 12.40 12.45	+2.32	12.90		V	Medium dense, yellowish brown (10YR 5/4), silty clayey medium to coarse SAND. (ALLUVIUM)			
								(4, 5, 5, 8, 8, 9) N = 30	23 24 12.90 13.90 14.00 14.10	+1.22	14.00		V	Very stiff, light yellowish brown (10YR 6/4), sandy clayey SILT with much fine gravel of quartz. (ALLUVIUM)			
								(4, 9, 11, 13, 13, 14) N = 51	25 26 14.40 14.45	+0.32	14.90		V	Stiff, red (2.5YR 5/8) dappled dark grey, sandy clayey SILT. (ALLUVIUM)			
								(4, 5, 5, 8, 8, 9) N = 30	27 28 14.90 15.90 16.00 16.10	-0.78	16.00		V	Extremely weak, yellowish red (5YR 5/8), completely decomposed medium grained GRANITE. (Silty clayey fine SAND)			
								(4, 5, 5, 8, 8, 9) N = 30	29 30 16.40 16.45	-1.68	16.90		V	Extremely weak, red (2.5YR 5/8), completely decomposed fine grained GRANITE. (Slightly clayey silty fine to medium SAND)			
								(4, 5, 5, 8, 8, 9) N = 30	31 32 16.90 17.90 18.00 18.10	-3.68	18.90		V	Extremely weak, red (2.5YR 5/8), completely decomposed medium grained GRANITE. (Clayey silty medium to coarse SAND with much fine gravel)			
								(4, 5, 5, 8, 8, 9) N = 30	33 34 18.40 18.45	-4.78	20.00		V	Extremely weak, pinkish grey (5YR 7/2), completely decomposed medium grained GRANITE. (Clayey silty medium to coarse SAND with some fine gravel)			
								(4, 5, 5, 8, 8, 9) N = 30	35 36 18.90 19.90	-4.78	20.00		V	Extremely weak, pinkish grey (5YR 7/2), completely decomposed medium grained GRANITE. (Clayey silty medium to coarse SAND with some fine gravel)			
								LOGGED BY <u>CALVIN TSANG</u> DATE <u>25/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>26/09/2020</u>								REMARKS	

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH36										
				SHEET 3 of 6										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 264.72 N 815 236.01		W.O. No. ASD 012560										
MACHINE / No. CCL-6				DATE from 19/09/2020 to 25/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.22 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
<div style="font-size: small;"> 22/09/2020 23/09/2020 </div>	22.00 PW HW							(6, 11, 16, 13, 14, 17) N = 60	37 20.00 38 20.10 20.40 20.45					As Sheet 2 of 6.
								(5, 10, 11, 15, 19, 23) N = 68	39 22.00 40 22.10 22.40 22.45					
								(7, 11, 14, 14, 18, 19) N = 63	41 24.00 42 24.10 24.40 24.45	-8.78	24.00		Extremely weak, yellowish brown (10YR 5/4), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine to medium gravel)	
								(8, 13, 16, 19, 20, 22) N = 77	43 26.00 44 26.10 26.40 26.45					
								(8, 17, 23, 20, 21, 24) N = 88	45 28.00 46 28.10 28.40 28.45					
										-14.78	30.00			
<div style="display: flex; justify-content: space-between;"> <div style="font-size: x-small;"> <ul style="list-style-type: none"> ● Small Disturbed Sample ┆ Large Disturbed Sample ▨ SPT Liner Sample ▩ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▨ Mazier Sample ▩ Piston Sample ▲ Water Sample </div> <div style="font-size: x-small;"> <ul style="list-style-type: none"> ┆ Standard Penetration Test ● Permeability Test ┆ Impression Packer Test ┆ Borehole Televiwer Test ┆ Pressuremeter Test ▩ Standpipe Tip ▩ Piezometer Tip ┆ In-situ Vane Shear Test </div> </div>								LOGGED BY CALVIN TSANG		REMARKS				
DATE 25/09/2020														
CHECKED BY PETER CHU														
DATE 26/09/2020														

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH36 SHEET 4 of 6										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES		W.O. No. ASD 012560										
MACHINE / No. CCL-6		E 837 264.72 N 815 236.01		DATE from 19/09/2020 to 25/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.22 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(9, 19, 21, 19, 22, 25) N = 87	 47 30.00  48 30.10  30.40  30.45					As Sheet 3 of 6.
								(18, 32/45mm 95, 105/35mm) 200bts/110mm	 49 32.00  50 32.18  32.23					
								(50/20mm 200/70mm) 200bts/70mm	 51 34.00  34.04  34.09					
								(50/25mm 200/75mm) 200bts/75mm	 52 36.00  36.05  36.10					
								(50/20mm 200/70mm) 200bts/70mm	 53 38.00  38.04  38.09					
	0.60m at		70					(50/15mm)		-24.78	40.00			
<ul style="list-style-type: none"> ● Small Disturbed Sample ▬ Large Disturbed Sample ▨ SPT Liner Sample ▩ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▨ Mazier Sample ▩ Piston Sample ▲ Water Sample 								<ul style="list-style-type: none"> ▬ Standard Penetration Test ● Permeability Test ▬ Impression Packer Test ▨ Borehole Televiewer Test ▬ Pressuremeter Test ▩ Standpipe Tip ▩ Piezometer Tip ▽ In-situ Vane Shear Test 		LOGGED BY CALVIN TSANG DATE 25/09/2020 CHECKED BY PETER CHU DATE 26/09/2020		REMARKS		

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH36	
		CONTRACT No. TC G518		SHEET 5 of 6	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 264.72 N 815 236.01		W.O. No. ASD 012560	
MACHINE / No. CCL-6				DATE from 19/09/2020 to 25/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.22 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
23/09/2020 24/09/2020		18.00 1.80m at 08:00						I 200/65mm 200b/s/65mm	● 54 40.00 40.03 40.08					As Sheet 3 of 6.
			70					(50/20mm I 200/70mm) 200b/s/70mm	● 55 42.00 42.04 42.09					
								(50/15mm I 200/65mm) 200b/s/65mm	● 56 44.00 44.03 44.08				V	
	45.38 HW							(50/30mm I 200/60mm) 200b/s/60mm	● 57 46.00 46.04 46.09					
								(50/15mm I 200/65mm) 200b/s/65mm	● 58 48.00 48.03 48.08					
										-33.16 -33.33 -33.52 -33.86 -34.17 -34.32 -34.77	48.38 48.55 48.74 49.08 49.39 49.54 49.99	+	III IV III III	Moderately strong, pink dappled yellowish brown, moderately decomposed medium grained GRANITE. Joints are very closely to closely spaced, rough and smooth planar, extremely narrow, iron and manganese oxides stained, kaolin coated (<2mm), dipping at 10°-20° and 60°-70°.
			80	99	37	9	NI NA >20 10.8			49.54		+	III	48.55- 48.74m: Moderately weak, highly decomposed. (Sandy fine to coarse GRAVEL)
				100	80	35	NI 12.7					+	III	

<ul style="list-style-type: none"> ● Small Disturbed Sample ┆ Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ┆ Standard Penetration Test ● Permeability Test ┆ Impression Packer Test ┆ Borehole Televiwer Test ┆ Pressurometer Test □ Standpipe Tip ■ Piezometer Tip ∨ In-situ Vane Shear Test 	LOGGED BY <u>CALVIN TSANG</u> DATE <u>25/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>26/09/2020</u>
---	---	--






























REMARKS


<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH36														
				SHEET 6 of 6														
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																		
METHOD ROTARY CORED		CO-ORDINATES E 837 264.72 N 815 236.01		W.O. No. ASD 012560														
MACHINE / No. CCL-6				DATE from 19/09/2020 to 25/09/2020														
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.22 mP.D.														
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description				
<div style="display: flex; justify-content: space-between;"> 24/09/2020 25/09/2020 </div>	<div style="display: flex; justify-content: space-between;"> 0.80m at 18:00 1.80m at 08:00 </div>	<div style="display: flex; justify-content: space-between;"> 80 80 </div>	100	80	35	12.7			T2-101	50.50		+	III	49.08m: PEGMATITE (30mm thick), dipping at 10°.				
			100	97	42				T2-101	51.45		+		49.39- 49.54m: Fine grained GRANITE.				
			100	93	55				T2-101	52.40		+		Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are closely to medium spaced, rough and smooth planar, extremely narrow, iron oxide stained, dipping at 20°-30°, 30°-40° and 60°-70°.				
			100	94	63				T2-101	53.38		+		49.54- 49.99m: Fine grained GRANITE with pegmatite.				
						100	96	96	3.1			T2-101		54.28		+	50.75- 53.52m: With very closely spaced subhorizontal microfractures.	
						100	98	90				T2-101		55.33		+	53.53- 53.77m: Fine grained GRANITE.	
																		53.60m: PEGMATITE (30mm thick), dipping at 10°.
																		53.85- 54.28m: With very closely spaced subhorizontal microfractures.
																		54.43- 55.02m: Fine grained GRANITE with pegmatite.
																		55.12- 55.33m: With very closely spaced subhorizontal microfractures.
														End of drillhole at 55.33m.				

● Small Disturbed Sample | Standard Penetration Test
 | Large Disturbed Sample | Permeability Test
 ▨ SPT Liner Sample | Impression Packer Test
 ▨ U76 Undisturbed Sample | Borehole Televiwer Test
 ▨ U100 Undisturbed Sample | Pressuremeter Test
 ▨ Mazier Sample | Standpipe Tip
 ▨ Piston Sample | Piezometer Tip
 ▲ Water Sample | In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG
 DATE
25/09/2020
 CHECKED BY
PETER CHU
 DATE
26/09/2020












REMARKS


 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH37 SHEET 1 of 6														
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																		
METHOD ROTARY CORED		CO-ORDINATES E 837 275.03 N 815 246.91		W.O. No. ASD 012560														
MACHINE / No. CS60				DATE from 31/08/2020 to 14/09/2020														
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.28 mP.D.														
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description				
31/08/2020	SW	Dry at 08:00							 A 0.45  B 0.95  C 1.45  D 1.95  1 2.10  2 2.40  2.45  2.90  3 3.90  4 4.00  5 4.10  6 4.40  4.45  4.90  7 5.90  8 6.00  9 6.10  10 6.40  6.45  6.90  11 7.90  12 8.00  13 8.10  14 8.40  8.45  8.90  15 9.90  16 9.90	+15.13 0.15 4.90 +10.38 4.90 +8.38 6.90 +5.28 10.00	0.15 4.90 6.90 10.00	VI VI	CONCRETE. Loose, reddish brown (5YR 5/4) spotted white, silty medium to coarse SAND with much subangular fine gravel sized moderately weak to moderately strong granite and quartz. (FILL)					
31/08/2020		Dry at 18:00						(2, 3, 2, 2, 3, 3) N = 10										
09/09/2020	2.90 SW PW	Dry at 08:00		90				(2, 2, 2, 2, 2, 2) N = 8										
				95				(1, 1, 2, 1, 2, 2) N = 7						Firm, yellowish brown (10YR 5/4), sandy clayey SILT. (RESIDUAL SOIL)				
				70				(1, 1, 2, 2, 2, 2) N = 8						Stiff, yellowish red (5YR 5/8), sandy clayey SILT with some subangular fine gravel of quartz. (RESIDUAL SOIL)				
				95														
				180														
<table border="0"> <tr> <td> <ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample </td> <td> <ul style="list-style-type: none"> — Standard Penetration Test — Permeability Test — Impression Packer Test — Borehole Televiewer Test — Pressuremeter Test — Standpipe Tip — Piezometer Tip — In-situ Vane Shear Test </td> <td> LOGGED BY <u>CALVIN TSANG</u> DATE <u>15/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>16/09/2020</u> </td> <td> REMARKS 1. Inspection pit excavated from 0.00m-2.00m. </td> </tr> </table>															<ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> — Standard Penetration Test — Permeability Test — Impression Packer Test — Borehole Televiewer Test — Pressuremeter Test — Standpipe Tip — Piezometer Tip — In-situ Vane Shear Test 	LOGGED BY <u>CALVIN TSANG</u> DATE <u>15/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>16/09/2020</u>	REMARKS 1. Inspection pit excavated from 0.00m-2.00m.
<ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> — Standard Penetration Test — Permeability Test — Impression Packer Test — Borehole Televiewer Test — Pressuremeter Test — Standpipe Tip — Piezometer Tip — In-situ Vane Shear Test 	LOGGED BY <u>CALVIN TSANG</u> DATE <u>15/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>16/09/2020</u>	REMARKS 1. Inspection pit excavated from 0.00m-2.00m.															


 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH37 SHEET 2 of 6	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 275.03 N 815 246.91		W.O. No. ASD 012560	
MACHINE / No. CS60				DATE from 31/08/2020 to 14/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.28 mP.D.	


Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
09/09/2020 10/09/2020	6.10m at 18:00 6.60m at 08:00		100	100	100	100	100	(2, 2, 2, 2, 2, 2) N = 8	17 18	10.00 10.10 10.40 10.45	+4.38 10.90	VI	As Sheet 1 of 6.	
								(2, 4, 4, 5, 5, 6) N = 20	19 20 21 22	10.90 11.90 12.00 12.10 12.40 12.45	10.90	V	Extremely weak, yellowish brown (10YR 5/8) dappled black, completely decomposed medium grained GRANITE. (Very stiff, sandy clayey SILT)	
								(2, 4, 6, 5, 6, 6) N = 23	23 24 25 26	12.90 13.90 14.00 14.10 14.40 14.45	12.90	V	Extremely weak, reddish yellow (5YR 6/8) spotted white dappled red, completely decomposed medium grained GRANITE. (Very stiff, sandy clayey SILT)	
								(4, 6, 8, 11, 13, 17) N = 49	27 28 29 30	14.90 15.90 16.00 16.10 16.40 16.45	14.90	V	Extremely weak, reddish yellow (5YR 7/8) spotted grey and white, completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND)	
								(5, 9, 12, 15, 20, 21) N = 68	31 32 33 34 35 36	16.90 17.90 18.00 18.10 18.40 18.45 18.90 19.90	16.90 -1.62 16.90 -4.72 20.00	V	Extremely weak, light red (10R 6/8) spotted grey and white, completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)	





























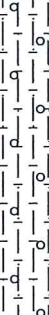



● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▨ Mazier Sample □ Piston Sample ▲ Water Sample	Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip v In-situ Vane Shear Test	LOGGED BY <u>CALVIN TSANG</u> DATE <u>15/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>16/09/2020</u>	REMARKS
---	---	--	---------









 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH37 SHEET 3 of 6												
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																
METHOD ROTARY CORED		CO-ORDINATES		W.O. No. ASD 012560												
MACHINE / No. CS60		E 837 275.03 N 815 246.91		DATE from 31/08/2020 to 14/09/2020												
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.28 mP.D.												
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description		
								(5, 8, 12, 11, 15, 16) N = 56	 37  38 20.00 20.10 20.40 20.45				V	As Sheet 2 of 6.		
								(5, 8, 14, 13, 15, 17) N = 59	 39  40 22.00 22.10 22.40 22.45	-6.72	22.00		V	Extremely weak, weak red (10R 6/4) spotted grey and white, completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)		
								(5, 9, 11, 13, 16, 19) N = 59	 41  42 24.00 24.10 24.40 24.45				V			
								(12, 21, 34, 34, 46, 58) N = 172	 43  44 26.00 26.10 26.40 26.45							
								(11, 20, 25, 34, 40, 49) N = 148	 45  46 28.00 28.10 28.40 28.45	-12.72	28.00		V	Extremely weak, red (10R 5/8), completely decomposed fine to medium grained GRANITE. (Silty medium SAND with occasional fine gravel)		
	28.00 PW HW									-14.72	30.00					
● Small Disturbed Sample — Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 15/09/2020 CHECKED BY PETER CHU DATE 16/09/2020			REMARKS	









 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH37 SHEET 4 of 6											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 275.03 N 815 246.91		W.O. No. ASD 012560											
MACHINE / No. CS60				DATE from 31/08/2020 to 14/09/2020											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.28 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
10/09/2020 11/09/2020	6.50m at 18:00 6.80m at 08:00							(11, 19, 26, 37, 43, 50) N = 156	47 30.00 48 30.10 48 30.40 48 30.45					As Sheet 3 of 6.	
								(12, 24, 32, 44, 53, 60) N = 195	49 32.00 50 32.10 50 32.40 50 32.45				V		
								(13, 35, 46, 68, 80, 6/25mm) 200bts/250mm	51 34.00 52 34.05 52 34.35 52 34.40	-18.72	34.00			Extremely weak, yellowish brown (10YR 5/8), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)	
			70					(50/75mm 200/75mm) 200bts/75mm	53 36.00 53 36.10 53 36.15				V		
								(50/75mm 200/75mm) 200bts/75mm	54 38.00 54 38.10 54 38.15	-22.72	38.00			Extremely weak, pink (10R 8/3) spotted grey and white, completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)	
	7.00m at									-24.72	40.00				
● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▨ Mazier Sample ▩ Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 15/09/2020 CHECKED BY PETER CHU DATE 16/09/2020		REMARKS	

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH37 SHEET 5 of 6										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 275.03 N 815 246.91		W.O. No. ASD 012560										
MACHINE / No. CS60				DATE from 31/08/2020 to 14/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.28 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
11/09/2020 12/09/2020		18:00 7.20m at 08:00						(50/75mm) 200/75mm	● 55 40.00 40.10 40.15				V	As Sheet 4 of 6.
								(50/50mm) 200/70mm	● 56 42.00 42.07 42.12	-26.72	42.00			Weak, yellowish brown (10YR 5/8), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)
								(50/50mm) 200/70mm	● 57 44.00 44.07 44.12					
								(50/40mm) 200/60mm	● 58 46.00 46.05 46.10				IV	
								(50/40mm) 200/60mm	● 59 48.00 48.05 48.10					
12/09/2020		7.10m at 18:00						(50/40mm)		-34.72	50.00			
● Small Disturbed Sample Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample								Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test		LOGGED BY <u>CALVIN TSANG</u> DATE <u>15/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>16/09/2020</u>		REMARKS		

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518										DRILLHOLE No. BH37			
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)										SHEET 6 of 6													
METHOD ROTARY CORED										CO-ORDINATES E 837 275.03 N 815 246.91										W.O. No. ASD 012560			
MACHINE / No. CS60										DATE from 31/08/2020 to 14/09/2020													
FLUSHING MEDIUM WATER										ORIENTATION Vertical										GROUND LEVEL +15.28 mP.D.			
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description									
14/09/2020	7.20m at 08:00		70					I 200b(6mm) 200b(6mm)	60 50.00 50.05 50.10				IV	As Sheet 5 of 6.									
	51.79 HW			87	0	0	NI		T2-101	51.79 -36.51 51.79			IV	Moderately weak, pale red (10R 6/4) dappled yellowish red, highly decomposed medium grained GRANITE. (Coarse GRAVEL and COBBLE)									
				100	100	100	5.3		T2-101	52.09 -36.72 52.00			III	52.00- 52.09m: Moderately strong, moderately decomposed GRANITE.									
				100	100	100	>20		T2-101	53.26 -38.26 53.54			III	Moderately strong, reddish brown spotted black and white, moderately decomposed medium grained GRANITE. Joints are closely locally medium and very closely spaced, rough and smooth planar, extremely narrow, iron and manganese oxides stained, dipping at 20°-30°, 50°-60° and 70°-80°.									
				100	94	87	2.9		T2-101	54.76 -39.30 54.58			III	53.54- 54.58m: Fine grained GRANITE.									
				100	89	79	6.7		T2-101	54.93 -39.65 54.93			III	54.93- 55.46m: With very closely spaced subhorizontal microfractures.									
				100	100	91	7.5		T2-101	56.25 -40.18 55.46			III	56.50- 57.64m: Strong, slightly decomposed.									
				100	100	91	7.5		T2-101	56.50 -41.22 56.50			II										
14/09/2020	7.10m at 18:00																						
														End of drillhole at 57.64m.									
● Small Disturbed Sample I Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample										Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test										LOGGED BY CALVIN TSANG DATE 15/09/2020 CHECKED BY PETER CHU DATE 16/09/2020		REMARKS	

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH38 SHEET 1 of 6										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 285.33 N 815 257.81		W.O. No. ASD 012560										
MACHINE / No. DR-20				DATE from 31/08/2020 to 09/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.24 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
31/08/2020	SW	Dry at 08:00							 A 0.45  B 0.95  C 1.45  D 1.95  1 2.00  2 2.40  3 2.90  4 3.90  5 4.00  6 4.10  7 4.40  8 4.45  9 4.90  10 5.90  11 6.00  12 6.10  13 6.40  14 6.45  15 6.90  16 7.90  17 8.00  18 8.10  19 8.40  20 8.45  21 8.90  22 9.90	+15.09 +13.24 +10.34 +6.34 +5.24	0.15 2.00 4.90 8.90 10.00	    	VI VI V	CONCRETE SLAB. Yellowish brown (10YR 5/8), sandy clayey SILT with some subangular fine to medium gravel sized moderately weak to moderately strong granite and quartz. (FILL) Firm to stiff, red (2.5YR 5/8), sandy clayey SILT with some subangular fine gravel sized quartz. (RESIDUAL SOIL) Stiff to very stiff, red (2.5YR 5/8) dappled reddish yellow, sandy clayey SILT. (RESIDUAL SOIL) Extremely weak, reddish yellow (5YR 7/6), completely decomposed fine grained GRANITE. (Very stiff, sandy clayey SILT with occasional fine gravel of quartz)
31/08/2020		Dry at 18:00						(1, 1, 2, 1, 2, 2) N = 7						
03/09/2020	2.90 SW PW	Dry at 08:00						(1, 1, 1, 2, 3, 4) N = 10						
								(1, 2, 2, 2, 3, 5) N = 12						
								(1, 2, 3, 3, 4, 6) N = 16						
03/09/2020		1.45m at 18:00												
04/09/2020	8.90 PW HW	5.76m at 08:00												

 Small Disturbed Sample
 Large Disturbed Sample
 SPT Liner Sample
 U76 Undisturbed Sample
 U100 Undisturbed Sample
 Mazier Sample
 Piston Sample
 Water Sample

 Standard Penetration Test
 Permeability Test
 Impression Packer Test
 Borehole Televier Test
 Pressuremeter Test
 Standpipe Tip
 Piezometer Tip
 In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG
 DATE
10/09/2020


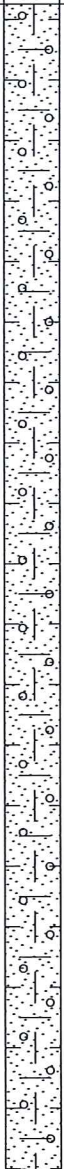








CHECKED BY
PETER CHU
 DATE
11/09/2020

REMARKS
 1. Inspection pit excavated from 0.00m-2.00m.


<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH38	
		CONTRACT No. TC G518		SHEET 2 of 6	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 285.33 N 815 257.81		W.O. No. ASD 012560	
MACHINE / No. DR-20				DATE from 31/08/2020 to 09/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.24 mP.D.	



Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(2, 2, 3, 5, 7, 10) N = 25	17 18	10.00 10.10 10.40 10.45			V	As Sheet 1 of 6.
				100					19	10.90	+4.34	10.90	V	Extremely weak, yellowish red (5YR 5/8), completely decomposed fine grained GRANITE. (Clayey silty fine SAND)
								(1, 2, 2, 2, 3, 7) N = 14	20 21 22	11.90 12.00 12.10 12.40 12.45				
				100					23	12.90	+2.34	12.90	V	Extremely weak, red (10R 5/8) dappled black and white, completely decomposed medium grained GRANITE. (Clayey silty fine to medium SAND with some fine to medium gravel)
								(2, 2, 4, 6, 10, 14) N = 34	24 25 26	13.90 14.00 14.10 14.40 14.45				
			70	100					27	14.90			V	
								(2, 3, 5, 7, 10, 15) N = 37	28 29 30	15.90 16.00 16.10 16.40 16.45				
				100					31	16.90			V	
								(2, 5, 9, 11, 16, 21) N = 57	32 33 34	17.90 18.00 18.10 18.40 18.45				
				100					35	18.90			V	Extremely weak, pinkish grey (5YR 7/2) dappled yellowish brown, completely decomposed medium grained GRANITE. (Slightly clayey silty medium to coarse SAND with some fine gravel)
									36	19.90	-2.76	18.00		
											-4.76	20.00		









<ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▧ Mazier Sample ▦ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> Standard Penetration Test ⬇ Permeability Test ⊥ Impression Packer Test ⌈ Borehole Televier Test ⊥ Pressuremeter Test ⊥ Standpipe Tip ⬆ Piezometer Tip ∨ In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 10/09/2020 CHECKED BY PETER CHU DATE 11/09/2020	REMARKS
---	--	--	---------









 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH38 SHEET 3 of 6										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 285.33 N 815 257.81		W.O. No. ASD 012560										
MACHINE / No. DR-20				DATE from 31/08/2020 to 09/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.24 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
04/09/2020 05/09/2020	5.45m at 18:00 6.78m at 08:00		70					(3, 6, 8, 22, 23, 27) N = 80 (5, 9, 10, 18, 20, 29) N = 77 (9, 14, 20, 22, 22, 33) N = 97 (7, 14, 17, 19, 21, 24) N = 81 (6, 11, 16, 20, 23, 25) N = 84	37 20.00 38 20.10 38 20.40 38 20.45 39 22.00 40 22.10 40 22.40 40 22.45 41 24.00 42 24.10 42 24.40 42 24.45 43 26.00 44 26.10 44 26.40 44 26.45 45 28.00 46 28.10 46 28.40 46 28.45	-14.76 30.00		V	As Sheet 2 of 6.	
● Small Disturbed Sample — Large Disturbed Sample  SPT Liner Sample  U76 Undisturbed Sample  U100 Undisturbed Sample  Mazier Sample  Piston Sample  Water Sample								Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test  Standpipe Tip  Piezometer Tip v In-situ Vane Shear Test		LOGGED BY <u>CALVIN TSANG</u> DATE <u>10/09/2020</u> CHECKED BY <u>PETER CHU</u> DATE <u>11/09/2020</u>		REMARKS		

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH38										
				SHEET 4 of 6										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 285.33 N 815 257.81		W.O. No. ASD 012560										
MACHINE / No. DR-20				DATE from 31/08/2020 to 09/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.24 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(13, 28, 32, 33, 35, 47) N = 147 ↓	30.00 30.10 47 30.40 48 30.45					As Sheet 2 of 6.
								(10, 19, 26, 30, 34, 49) N = 139 ↓	32.00 32.10 49 32.40 50 32.45					
								(8, 16, 27, 30, 45, 56) N = 158 ↓	34.00 34.10 51 34.40 52 34.45					
								(18, 30, 40, 51, 62, 47/25mm) 200b/s/250mm ↓	36.00 36.05 53 36.35 54 36.40					
								(15, 29, 40, 52, 67, 41/15mm) 200b/s/240mm ↓	38.00 38.04 55 38.34 56 38.39					
05/09/2020 07/09/2020		6.11m at 18:00 9.79m at 08:00	70							-24.76	40.00			
<div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample ▨ SPT Liner Sample ▨ U76 Undisturbed Sample ▨ U100 Undisturbed Sample ▨ Mazier Sample ▨ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> — Standard Penetration Test ● Permeability Test — Impression Packer Test — Borehole Televiwer Test — Pressuremeter Test — Standpipe Tip — Piezometer Tip — In-situ Vane Shear Test </div> </div>								LOGGED BY CALVIN TSANG DATE 10/09/2020 CHECKED BY PETER CHU DATE 11/09/2020		REMARKS				

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH38										
SHEET 5 of 6														
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED		CO-ORDINATES E 837 285.33 N 815 257.81		W.O. No. ASD 012560										
MACHINE / No. DR-20				DATE from 31/08/2020 to 09/09/2020										
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.24 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
			70					(10, 18, 26, 29, 34, 42) N = 131 ↓	57 40.00 58 40.10 58 40.40 58 40.45					As Sheet 2 of 6.
								(13, 22, 26, 30, 38, 56) N = 150 ↓	59 42.00 60 42.10 60 42.40 60 42.45					
								(14, 29, 57, 40, 49, 60) N = 206 ↓	61 44.00 62 44.10 62 44.40 62 44.45				V	
								(13, 31, 37, 44, 63, 56/55mm) 200bis/280mm ↓	63 46.00 64 46.08 64 46.38 64 46.43					
								(15, 34, 41, 56, 66, 37/25mm) 200bis/250mm ↓	65 48.00 66 48.05 66 48.35 66 48.40	-32.76	48.00		IV	Weak, yellowish brown (10YR 5/4), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)
										-34.76	50.00			
● Small Disturbed Sample Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample								Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test		LOGGED BY CALVIN TSANG DATE 10/09/2020 CHECKED BY PETER CHU DATE 11/09/2020		REMARKS		

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518				DRILLHOLE No. BH38 SHEET 6 of 6	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED				CO-ORDINATES E 837 285.33 N 815 257.81				W.O. No. ASD 012560							
MACHINE / No. DR-20								DATE from 31/08/2020 to 09/09/2020							
FLUSHING MEDIUM WATER				ORIENTATION Vertical				GROUND LEVEL +15.24 mP.D.							
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
			70						 67 50.00 50.10 50.15				IV	As Sheet 5 of 6.	
	52.00 HW			96	13	13	NA		T2-101	52.00	-36.76	52.00		Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are closely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10°, 30°-40° and 70°-80°. 52.00- 52.78m: Moderately weak, highly decomposed. (Sandy medium to coarse GRAVEL and COBBLE) 52.00- 54.40m: With very closely spaced subhorizontal microfractures.	
				100	85	76	7.0		T2-101	52.92	-37.54	52.78			
				97	41	30	NI		T2-101	53.71	-38.98	54.22			
				100	96	91	4.8		T2-101	54.40	-39.16	54.40			
				100	99	92	9.8		T2-101	55.71	-40.19	55.43			
07/09/2020 08/09/2020	7.04m at 18:00 10.15m at 08:00		80											54.22- 54.40m: Moderately weak, highly decomposed. (Medium to coarse GRAVEL) Moderately strong, yellowish brown to reddish brown, moderately decomposed medium grained GRANITE. Joints are closely to medium locally very closely spaced, rough and smooth planar, extremely narrow, iron and manganese oxides stained, chlorite coated, dipping at 0°-10° and 20°-30°. 54.40- 55.97m: With very closely spaced subhorizontal microfractures. 55.43- 55.47m: PEGMATITE. 55.97- 56.01m: PEGMATITE. 56.01- 56.14m: Fine grained GRANITE. 56.46- 57.19m: With very closely spaced subhorizontal microfractures. 56.84- 56.88m: PEGMATITE.	
				100	82	71	4.0		T2-101	57.11	-40.77	56.01			
				100	96	78	3.8		T2-101	58.30	-40.73	55.97			
				100	96	78	3.8		T2-101	58.30	-40.77	56.01			
				100	96	78	3.8		T2-101	58.30	-40.77	56.01			
08/09/2020	7.44m at 18:00			100	96	78	3.8		T2-101	58.30	-40.77	56.01		56.01- 56.14m: Fine grained GRANITE.	
				100	96	78	3.8		T2-101	58.30	-40.77	56.01		56.46- 57.19m: With very closely spaced subhorizontal microfractures.	
				100	96	78	3.8		T2-101	58.30	-40.77	56.01		56.84- 56.88m: PEGMATITE.	
				100	96	78	3.8		T2-101	58.30	-40.77	56.01		58.93- 59.40m: Strong, slightly decomposed.	
				100	96	78	3.8		T2-101	58.30	-40.77	56.01		End of drillhole at 59.40m.	

 Small Disturbed Sample
 Large Disturbed Sample
 SPT Liner Sample
 U76 Undisturbed Sample
 U100 Undisturbed Sample
 Mazier Sample
 Piston Sample
 Water Sample

 Standard Penetration Test
 Permeability Test
 Impression Packer Test
 Borehole Televier Test
 Pressuremeter Test
 Standpipe Tip
 Piezometer Tip
 In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG
 DATE
10/09/2020

CHECKED BY
PETER CHU
 DATE
11/09/2020

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH39**

SHEET **1** of **7**

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD **ROTARY CORED**

CO-ORDINATES

W.O. No. **ASD 012560**

MACHINE / No. **CCL-1**

E 837 295.64

DATE from **31/08/2020** to **10/09/2020**

N 815 268.71

FLUSHING MEDIUM **WATER**

ORIENTATION **Vertical**

GROUND LEVEL **+15.45 mP.D.**

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
31/08/2020	SW	Dry at 08:00								+15.30	0.15			CONCRETE SLAB.
									A 0.45 0.50					Yellowish red (5YR 5/8), sandy clayey SILT with some subangular fine gravel sized moderately weak to moderately strong granite and quartz. (FILL)
									B 0.95 1.00					
									C 1.45 1.50					
		Dry at 18:00							D 1.95 2.00 2.10	+13.45	2.00			
31/08/2020		Dry at 08:00						(2, 1, 2, 1, 2, 2) N = 7	1 2.40 2 2.45					Firm to stiff, yellowish red (5YR 5/8) to red (10R 5/8), sandy clayey SILT with some subangular fine gravel of quartz. (RESIDUAL SOIL)
07/09/2020									3 2.90					
	4.00 SW								4 3.90 4.00 4.10					
	PW								5 4.40 4.45					
									6 4.90					
									7 5.90 6.00 6.10					
									8 6.40 6.45					
									9 6.90					
									10 7.90 8.00 8.10					
									11 8.40 8.45					
									12 8.90	+6.55	8.90			Extremely weak, yellowish brown (10YR 5/8) dappled red, completely decomposed medium grained GRANITE. (Very stiff, sandy clayey SILT with some subangular fine gravel)
									13 9.90	+5.45	10.00			
									14 9.90					
									15 9.90					
									16 9.90					

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- U100 Undisturbed Sample
- ▨ Mazier Sample
- Piston Sample
- ▲ Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
10/09/2020

CHECKED BY
PETER CHU

DATE
11/09/2020

REMARKS

1. Inspection pit excavated from 0.00m-2.00m.



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH39**

SHEET **2** of **7**

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD **ROTARY CORED**

CO-ORDINATES

W.O. No. **ASD 012560**

MACHINE / No. **CCL-1**

E 837 295.64

DATE from **31/08/2020** to **10/09/2020**

N 815 268.71

FLUSHING MEDIUM **WATER**

ORIENTATION **Vertical**

GROUND LEVEL **+15.45 mP.D.**

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(3, 5, 4, 4, 5, 4) N = 17	17 18	10.00 10.10 10.40 10.45				As Sheet 1 of 7.
				100					19	10.90			V	
								(3, 4, 6, 5, 6, 8) N = 25	20 21 22	11.90 12.00 12.10 12.40 12.45				
				100					23	12.90	+2.55	12.90	V	Extremely weak, red (10R 5/6) spotted white, completely decomposed medium grained GRANITE. (Clayey silty fine to medium SAND)
		9.00m at 18:00						(4, 5, 7, 6, 7, 9) N = 29	24 25 26	13.90 14.00 14.10 14.40 14.45				
		9.00m at 08:00		70					27	14.90	+0.55	14.90	V	Extremely weak, yellowish brown (10YR 5/4) spotted white and grey, completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)
				100				(5, 7, 9, 10, 13, 22) N = 54	28 29 30	15.90 16.00 16.10 16.40 16.45				
									31	16.90	-1.45	16.90	V	Extremely weak, red (10R 5/6) spotted white and grey, completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with some fine gravel)
				100				(6, 9, 12, 17, 25, 46) N = 100	32 33 34	17.90 18.00 18.10 18.40 18.45				
				85					35	18.90			V	
									36	19.90	-4.55	20.00	V	

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test


LOGGED BY
CALVIN TSANG


DATE
10/09/2020

CHECKED BY
PETER CHU

DATE
11/09/2020

REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH39 SHEET 3 of 7												
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																
METHOD ROTARY CORED		CO-ORDINATES E 837 295.64 N 815 268.71		W.O. No. ASD 012560												
MACHINE / No. CCL-1				DATE from 31/08/2020 to 10/09/2020												
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.45 mP.D.												
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description		
08/09/2020 09/09/2020	9.10m at 18:00 9.10m at 08:00							(9, 13, 17, 24, 34, 50) N = 125	37 20.00 38 20.10 38 20.40 38 20.45					As Sheet 2 of 7.		
								(14, 15, 12, 28, 42, 51) N = 133	39 22.00 40 22.10 40 22.40 40 22.45				V			
								(15, 30, 42, 158) 200bls/150mm	41 24.00 41 24.25 41 24.30	-8.55	24.00		V	Extremely weak, dusky red (10R 3/2), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND)		
	26.00 PW HW		70					(50/70mm) 200/50mm 200bls/50mm	42 26.00 42 26.07 42 26.12	-10.55	26.00			Extremely weak, yellowish brown (10YR 5/8) spotted white and dark brown, completely decomposed medium grained GRANITE. (Clayey silty fine to medium SAND with occasional fine gravel)		
								(50/70mm) 200/50mm 200bls/50mm	43 28.00 43 28.08 43 28.13				V			
								(50/70mm)		-14.55	30.00					
• Small Disturbed Sample — Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 10/09/2020 CHECKED BY PETER CHU DATE 11/09/2020			REMARKS	

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH39											
				SHEET 4 of 7											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 295.64 N 815 268.71		W.O. No. ASD 012560											
MACHINE / No. CCL-1				DATE from 31/08/2020 to 10/09/2020											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.45 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
								200/70mm 200bs/70mm	44 30.00 30.09 30.14				V	Extremely weak, yellowish brown (10YR 5/8) dappled white, completely decomposed medium grained GRANITE. (Slightly clayey silty fine to medium SAND with occasional fine gravel)	
								(50/50mm) 200/50mm 200bs/50mm	45 32.00 32.05 32.10	-16.55	32.00		IV	Weak, yellowish brown (10YR 5/8) spotted white and dark yellowish brown, highly decomposed medium grained GRANITE. (Medium GRAVEL in a matrix of clayey silty sand)	
								(50/50mm) 200/50mm 200bs/50mm	46 34.00 34.05 34.10	-18.55	34.00			Weak, yellowish brown (10YR 5/8) spotted white and grey, highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)	
								(50/60mm) 200/40mm 200bs/40mm	47 36.00 36.05 36.10				IV		
								(50/50mm) 200/40mm 200bs/40mm	48 38.00 38.02 38.07						
								(50/50mm)		-24.55	40.00				
● Small Disturbed Sample Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 10/09/2020 CHECKED BY PETER CHU DATE 11/09/2020		REMARKS	

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH39

SHEET 5 of 7

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 295.64

DATE from 31/08/2020 to 10/09/2020


N 815 268.71

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.45 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
			70					1 200/50mm) 200bls/50mm	● 49 40.00 40.05 40.10					As Sheet 4 of 7.
								(50/50mm) 1 200/40mm) 200bls/40mm	● 50 42.00 42.04 42.09					
								(50/50mm) 1 200/40mm) 200bls/40mm	● 51 44.00 44.04 44.09					
								(50/50mm) 1 200/40mm) 200bls/40mm	● 52 46.00 46.04 46.09					
								(50/50mm) 1 200/30mm) 200bls/30mm	● 50 48.00 48.03 48.08					
								(50/50mm)		-34.55	50.00			
<div><div><div>●</div><div>┆</div><div>▮</div><div>▨</div><div>■</div><div>▩</div><div>▮</div><div>▮</div><div>▲</div></div><div><div>┆</div><div>●</div><div>┆┆</div><div>┆┆</div><div>┆┆</div><div>⚙</div><div>⚙</div><div>∨</div></div></div> <div><div>Small Disturbed Sample</div><div>Large Disturbed Sample</div><div>SPT Liner Sample</div><div>U76 Undisturbed Sample</div><div>U100 Undisturbed Sample</div><div>Mazier Sample</div><div>Piston Sample</div><div>Water Sample</div></div> <div><div>Standard Penetration Test</div><div>Permeability Test</div><div>Impression Packer Test</div><div>Borehole Televiewer Test</div><div>Pressuremeter Test</div><div>Standpipe Tip</div><div>Piezometer Tip</div><div>In-situ Vane Shear Test</div></div>									<div>LOGGED BY CALVIN TSANG DATE 10/09/2020 CHECKED BY PETER CHU DATE 11/09/2020</div>			REMARKS		

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH39											
				SHEET 6 of 7											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 295.64 N 815 268.71		W.O. No. ASD 012560											
MACHINE / No. CCL-1				DATE from 31/08/2020 to 10/09/2020											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.45 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
			70					I 200(40mm) 200bs/40mm (50/50mm I 200(30mm) 200bs/30mm (50/50mm I 200(30mm) 200bs/30mm (50/50mm I 200(20mm) 200bs/20mm	51 50.00 50.04 50.09 52 52.00 52.03 52.08 53 54.00 54.03 54.08 54 56.00 56.02 56.07					As Sheet 4 of 7.	
	56.68 HW			100	100	96	1.1			56.68	-41.23	56.68	IV		
			80				5.2				-41.99	57.44		Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are closely to medium locally widely spaced, rough and smooth planar, extremely narrow, iron and manganese oxides stained, chlorite coated, dipping at 0°-10°, 10°-20°, 30°-40° and 70°-80°.	
				99	99	96	1.9				-42.36	57.81			
				86	89	65	12.2				58.05		III		57.44- 57.81m: With very closely spaced subhorizontal microfractures.
											59.55	-44.37	59.82		
											-44.55	60.00	II		
• Small Disturbed Sample + Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 10/09/2020 CHECKED BY PETER CHU DATE 11/09/2020		REMARKS	



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH39**

SHEET **7** of **7**

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD **ROTARY CORED**

CO-ORDINATES

W.O. No. **ASD 012560**

MACHINE / No. **CCL-1**

E 837 295.64

DATE from **31/08/2020** to **10/09/2020**

N 815 268.71

FLUSHING MEDIUM **WATER**

ORIENTATION **Vertical**

GROUND LEVEL **+15.45 mP.D.**

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				98	89	65	12.2		T2-101	-44.60	60.05	+	III	59.82- 60.05m: Strong, slightly decomposed.
			80						60.84	-45.34	60.79	+		60.79- 62.26m: Strong, slightly decomposed.
		9.13m at 18:00		89	99	93	2.3		T2-101	-46.27	61.72	+	II	61.72- 62.26m: Epidotized.
09/09/2020									62.26	-46.81	62.26	+		End of drillhole at 62.26m.

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- U100 Undisturbed Sample
- ▤ Mazier Sample
- ▥ Piston Sample
- ▲ Water Sample
- ┆ Standard Penetration Test
- ┆ Permeability Test
- ┆ Impression Packer Test
- ┆ Borehole Televiwer Test
- ┆ Pressuremeter Test
- Standpipe Tip
- ▲ Piezometer Tip
- ∨ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
10/09/2020

CHECKED BY
PETER CHU

DATE
11/09/2020

REMARKS

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH40

SHEET 1 of 7

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 305.94

DATE from 18/08/2020 to 05/09/2020

N 815 279.61

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.45 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
18/08/2020	SW	Dry at 08:00								+15.30	0.15			CONCRETE SLAB. Red (10R 5/8), sandy clayey SILT with much subangular fine gravel sized moderately weak granite, quartz and cement sand mortar. (FILL)
18/08/2020 31/08/2020	4.00 SW PW	Dry at 18:00 Dry at 08:00						(1, 1, 2, 1, 2, 1) N=6	A 0.45 0.50 B 0.95 1.00 C 1.45 1.50 D 1.95 2.00 1 2.10 2 2.40 2.45	+13.45	2.00		Firm, yellowish red (5YR 5/8), sandy clayey SILT with some subangular fine gravel. (FILL)	
				90				(1, 2, 1, 1, 2, 1) N=5	3 2.90 4 3.90 4.00 5 4.10 6 4.40 4.45					
				90				(1, 2, 2, 1, 2, 1) N=6	7 4.90 8 5.90 6.00 9 6.10 10 6.40 6.45	+9.45	6.00		Extremely weak, red (10R 4/8) dappled dark grey and white, completely decomposed medium grained GRANITE. (Stiff to very stiff, sandy clayey SILT with much fine gravel)	
			70	100				(2, 1, 2, 3, 3, 3) N=11	11 6.90 12 7.90 8.00 13 8.10 14 8.40 8.45			V		
				100					15 8.90 16 9.90					

- | | | | |
|---|-------------------------|---|---------------------------|
| ● | Small Disturbed Sample | ↓ | Standard Penetration Test |
| ⬇ | Large Disturbed Sample | ⬇ | Permeability Test |
| □ | SPT Liner Sample | ⊥ | Impression Packer Test |
| ▨ | U76 Undisturbed Sample | ⋮ | Borehole Televiwer Test |
| ■ | U100 Undisturbed Sample | ⊥ | Pressuremeter Test |
| ▧ | Mazier Sample | ⬆ | Standpipe Tip |
| ▩ | Piston Sample | ⬆ | Piezometer Tip |
| ▲ | Water Sample | ∨ | In-situ Vane Shear Test |

LOGGED BY
CALVIN TSANG

DATE
05/09/2020

CHECKED BY
PETER CHU

DATE
07/09/2020

REMARKS

1. Inspection pit excavated from 0.00m-2.00m.



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH40

SHEET 2 of 7

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 305.94

DATE from 18/08/2020 to 05/09/2020

N 815 279.61

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.45 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
31/08/2020 01/09/2020	9.00m at 18:00 9.30m at 08:01							(3, 4, 3, 4, 4, 5) N = 16	17 18	10.00 10.10 10.40 10.45			V	
	12.00 PW HW			100				(4, 7, 10, 14, 19, 35) N = 78	19 20 21 22	10.90 11.90 12.00 12.10 12.40 12.45	+4.55 10.90		V	Extremely weak, yellowish brown (10YR 5/8) spotted grey and light yellowish brown, completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with much fine gravel)
			70	100				(6, 8, 11, 17, 22, 48) N = 98	23 24 25 26	12.90 13.90 14.00 14.10 14.40 14.45			V	
				100				(50/60mm 200/40mm) 200bs/40mm	27 28 29	14.90 15.90 16.00 16.05 16.10 16.40	+0.55 14.90		V	Extremely weak, dark reddish grey (5YR 4/2), completely decomposed medium grained GRANITE. (Medium to coarse SAND with much fine gravel)
			80	100	100	100	0.7		T2-101	17.75 17.90 18.00 18.20 18.25	-0.95 16.40		II	Strong, pink spotted black and white, slightly decomposed medium grained GRANITE. Joints are widely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10°.
								(8, 12, 25, 35, 42, 60) N = 162	30 31	17.75 17.90 18.00 18.20 18.25	-2.30 17.75		IV	Weak, dark reddish grey (5YR 4/2), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)
			70	90					32	18.90	-3.45 18.90		V	Extremely weak, red (10R 5/8) spotted dark grey, completely decomposed medium grained GRANITE. (Medium to coarse SAND with some fine gravel)
01/09/2020	9.30m at 18:00							(50/50mm)	33	19.90	-4.55 20.00			

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- U100 Undisturbed Sample
- ▤ Mazier Sample
- ▥ Piston Sample
- ▲ Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televier Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test


LOGGED BY
CALVIN TSANG

DATE
05/09/2020

CHECKED BY
PETER CHU


DATE
07/09/2020


REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH40 SHEET 3 of 7											
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED		CO-ORDINATES E 837 305.94 N 815 279.61		W.O. No. ASD 012560											
MACHINE / No. CCL-1				DATE from 18/08/2020 to 05/09/2020											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.45 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
02/09/2020		9.00m at 08:00						I 200(30mm) 200bts/30mm	34 20.00 20.03 20.08				IV	Weak, yellowish brown (10YR 5/8) spotted dark grey, highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)	
			70					(50/40mm) I 200(30mm) 200bts/30mm	35 22.00 22.02 22.07						
							NI						III	Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are medium spaced, rough and smooth planar, extremely narrow, iron and manganese oxides stained, dipping at 0°-10° and 30°-40°.	
			80	100	78	78	3.4						II		
				100	0	0	NA						III		
								(50/60mm) I 200(40mm) 200bts/40mm	36 25.20 25.25 25.30				IV	24.06- 24.27m: Strong, slightly decomposed. 24.51- 25.20m: Moderately weak, highly decomposed. (COBBLE and some coarse gravel)	
														Weak, yellowish brown (10YR 5/8) spotted white and grey, highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)	
			70					(50/50mm) I 200(40mm) 200bts/40mm	37 27.20 27.22 27.27				IV		
								(50/50mm) I 200(40mm) 200bts/40mm	38 29.20 29.24 29.29						
										-14.55	30.00				
• Small Disturbed Sample I Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test			LOGGED BY CALVIN TSANG DATE 05/09/2020 CHECKED BY PETER CHU DATE 07/09/2020		REMARKS	

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH40										
		CONTRACT No. TC G518		SHEET 4 of 7										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED			CO-ORDINATES E 837 305.94 N 815 279.61		W.O. No. ASD 012560									
MACHINE / No. CCL-1					DATE from 18/08/2020 to 05/09/2020									
FLUSHING MEDIUM WATER			ORIENTATION Vertical		GROUND LEVEL +15.45 mP.D.									
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
<div style="display: flex; align-items: center;"> <div style="width: 100px; border-left: 1px solid black; margin-right: 5px;"></div> <div> 02/09/2020 03/09/2020 </div> </div>		9.00m at 18:00						(50/50mm) I 200/50mm	● 39 31.20 31.25 31.30				IV	As Sheet 3 of 7.
		9.10m at 08:00						(50/60mm) I 200/40mm	● 40 33.20 33.25 33.30					
								(50/50mm) I 200/40mm	● 41 35.20 35.24 35.29					
								(50/50mm) I 200/30mm	● 42 37.20 37.23 37.28					
								(50/60mm) I 200/40mm	● 43 39.20 39.25 39.30					
			70							-24.55	40.00			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ■ U100 Undisturbed Sample ▤ Mazier Sample ▩ Piston Sample ▲ Water Sample </div> <div style="width: 45%;"> <ul style="list-style-type: none"> ⊥ Standard Penetration Test ⊥ Permeability Test ⊥ Impression Packer Test ⊥ Borehole Televier Test ⊥ Pressuremeter Test ⊥ Standpipe Tip ⊥ Piezometer Tip ✓ In-situ Vane Shear Test </div> </div>						LOGGED BY CALVIN TSANG DATE 05/09/2020 CHECKED BY PETER CHU DATE 07/09/2020		REMARKS						

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH40										
		CONTRACT No. TC G518		SHEET 5 of 7										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED			CO-ORDINATES E 837 305.94 N 815 279.61		W.O. No. ASD 012560									
MACHINE / No. CCL-1					DATE from 18/08/2020 to 05/09/2020									
FLUSHING MEDIUM WATER			ORIENTATION Vertical		GROUND LEVEL +15.45 mP.D.									
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
														As Sheet 3 of 7.
								(50/50mm I 200/40mm) 200bs/40mm	● 44 41.20 41.24 41.29					
								(50/50mm I 200/40mm) 200bs/40mm	● 45 43.20 43.25 43.30					
			70					(50/50mm I 200/40mm) 200bs/40mm	● 46 45.20 45.24 45.29				IV	
								(50/50mm I 200/30mm) 200bs/30mm	● 47 47.20 47.23 47.28					
								(50/50mm I 200/40mm) 200bs/40mm	● 48 49.20 49.23 49.28					
										-34.55	50.00			
<div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ■ U100 Undisturbed Sample ▤ Mazier Sample ▩ Piston Sample ▲ Water Sample </div> <div> <ul style="list-style-type: none"> ⊥ Standard Penetration Test ⊥ Permeability Test ⊥ Impression Packer Test ⊥ Borehole Televiwer Test ⊥ Pressuremeter Test ⊥ Standpipe Tip ⊥ Piezometer Tip ✓ In-situ Vane Shear Test </div> </div>									LOGGED BY CALVIN TSANG DATE 05/09/2020 CHECKED BY PETER CHU DATE 07/09/2020			REMARKS		

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH40 SHEET 6 of 7	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES		W.O. No. ASD 012560	
MACHINE / No. CCL-1		E 837 305.94 N 815 279.61		DATE from 18/08/2020 to 05/09/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.45 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
	9.30m at 18:00 9.00m at 08:00	03/09/2020 04/09/2020	70					(50/50mm I 200/30mm) 200bls/30mm (50/50mm I 200/30mm) 200bls/30mm (50/50mm I 200/40mm) 200bls/40mm	49 51.20 51.23 51.28			IV	As Sheet 3 of 7.	
			80	100	93	64	4.0			T2-101 53.63	-38.18	53.63	III	Moderately strong, reddish brown spotted white, moderately decomposed medium grained GRANITE. Joints are medium locally very closely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 20°-30° and 30°-40°.
			70				NI			51 54.78 54.80 54.84 54.89	-39.33	54.78	IV	Weak, pinkish grey (5YR 7/2) spotted white and grey, highly decomposed medium grained GRANITE. (Fine to medium GRAVEL)
			80	100	68	57	7.4			T2-101 56.20	-40.31	55.76	III	Moderately strong, reddish brown spotted white, moderately decomposed medium grained GRANITE. Joints are closely to medium locally very closely spaced, rough and smooth planar, extremely narrow, iron oxide stained, chlorite coated, dipping at 0°-10°, 40°-50° and 60°-70°.
			80	100	64	57	NR			T2-101 57.27	-40.98 -41.11	56.43 56.56	V	56.43- 56.56m: No recovery assumed to be completely decomposed GRANITE.
			80	100	97	97	2.2			T2-101 58.04 58.15	-42.09	57.54	II	56.56- 57.54m: Strong, slightly decomposed.
			80	100	100	100				T2-101 59.50			III	
			80	100	94	90				T2-101 59.86 59.90	-44.41 -44.55	59.86 60.00	IV	
			70							52 59.86 59.90				

• Small Disturbed Sample
 — Large Disturbed Sample
 □ SPT Liner Sample
 ▨ U76 Undisturbed Sample
 ■ U100 Undisturbed Sample
 ▨ Mazier Sample
 □ Piston Sample
 ▲ Water Sample

Standard Penetration Test
 Permeability Test
 Impression Packer Test
 Borehole Televiwer Test
 Pressuremeter Test
 Standpipe Tip
 Piezometer Tip
 In-situ Vane Shear Test

LOGGED BY
 CALVIN TSANG
 DATE
 05/09/2020
 CHECKED BY
 PETER CHU
 DATE
 07/09/2020

REMARKS

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH40

SHEET 7 of 7

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. CCL-1

E 837 305.94

DATE from 18/08/2020 to 05/09/2020

N 815 279.61

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.45 mP.D.

[illegible]

- | | | | |
|---|-------------------------|---|---------------------------|
| ● | Small Disturbed Sample | | Standard Penetration Test |
| ⋮ | Large Disturbed Sample | ⬇ | Permeability Test |
| □ | SPT Liner Sample | ⊢ | Impression Packer Test |
| ▨ | U76 Undisturbed Sample | ⋈ | Borehole Televiwer Test |
| ■ | U100 Undisturbed Sample | ⊥ | Pressuremeter Test |
| ▤ | Mazier Sample | ⬆ | Standpipe Tip |
| ▥ | Piston Sample | ⬇ | Piezometer Tip |
| ▲ | Water Sample | ∨ | In-situ Vane Shear Test |


LOGGED BY
CALVIN TSANG


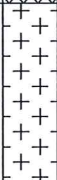

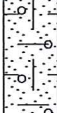
DATE
05/09/2020

CHECKED BY
PETER CHU


DATE 07/09/2020

REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH41 SHEET 1 of 3	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)					
METHOD ROTARY CORED		CO-ORDINATES E 837 316.25 N 815 290.51		W.O. No. ASD 012560	
MACHINE / No. DR-20				DATE from 18/08/2020 to 21/08/2020	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.42 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
18/08/2020	SW	Dry at 08:00							A 0.45 0.50 B 0.95 1.00 C 1.45 1.50 D 1.95 2.00 2.10 1 2.40 2 2.45 2.90 3 4 3.90 5 4.00 4.10 6 4.40 4.45 4.54 T2-101 5.28 T2-101 6.10 6.20 7 6.50 8 6.55 7.00 9 8.00 8.10 8.20 11 8.50 8.55 9.00 13	+15.37 0.05 +10.88 4.54 +9.32 6.10 +6.42 9.00 +5.42 10.00	0.05 4.54 6.10 9.00 10.00	   	II V V	CONCRETE SLAB. Loose, red (2.5YR 5/8), clayey silty fine to medium SAND with some subangular fine to medium gravel sized moderately strong to strong granite, tile and cement sand mortar. (FILL) Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are widely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 30°-40°. Extremely weak, red (10R 5/8), completely decomposed medium grained GRANITE. (Clayey silty fine to medium SAND with some fine gravel of quartz) Extremely weak, yellowish brown (10YR 5/8), completely decomposed medium grained GRANITE. (Slightly clayey silty medium to coarse SAND with much fine gravel)
18/08/2020	2.90 SW PW		70	90				(1, 1, 2, 1, 2, 2) N = 7 (1, 1, 1, 2, 3, 3) N = 9 (3, 3, 4, 5, 6, 7) N = 22 (1, 2, 3, 3, 3, 5, 9) N = 20						
18/08/2020		5.12m at 18:00		100	100	100	0.6							
19/08/2020		7.21m at 08:00		100	98	98								
	9.00 PW HW		70	85										

<ul style="list-style-type: none"> ● Small Disturbed Sample — Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▧ Mazier Sample ▦ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> — Standard Penetration Test — Permeability Test — Impression Packer Test — Borehole Televier Test — Pressuremeter Test — Standpipe Tip — Piezometer Tip — In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 24/08/2020 CHECKED BY PETER CHU DATE 25/08/2020	REMARKS 1. Inspection pit excavated from 0.00m-2.00m.
---	--	--	--

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518				DRILLHOLE No. BH41 SHEET 2 of 3	
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)															
METHOD ROTARY CORED						CO-ORDINATES E 837 316.25 N 815 290.51				W.O. No. ASD 012560					
MACHINE / No. DR-20										DATE from 18/08/2020 to 21/08/2020					
FLUSHING MEDIUM WATER						ORIENTATION Vertical				GROUND LEVEL +15.42 mP.D.					
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
19/08/2020 20/08/2020	4.65m at 18:00	70						(3, 21, 31, 32, 33, 35) N = 131	14 10.00 15 10.10 16 10.20 10.50 10.55				V	As Sheet 1 of 3.	
	8.46m at 08:00	80	100	100	100	1.5			T2-101 10.85	+4.57	10.85		II	Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are widely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10°.	
		70	87	77	77	3.3		(4, 15, 32, 42, 87, 39/5mm) 200bts/230mm	17 11.50 18 11.53 11.83 11.88	+3.92	11.50		V	Extremely weak, brownish yellow (10YR 6/8), completely decomposed medium grained GRANITE. (Silty medium to coarse SAND with much fine gravel)	
								(15, 35/25mm) 200bts/10mm	12.30 12.90 12.96 13.01 13.30	+3.12 +2.62 +2.62 +2.12	12.30 12.80 12.90 13.30		II III IV	Strong, pinkish grey, slightly decomposed medium grained GRANITE. Joints are medium spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10°, 10°-20° and 30°-40°.	
			93	0	0	NA			T2-101 13.59	+1.87 +1.83	13.55 13.59		IV III	12.80- 12.90m: Moderately strong, moderately decomposed. Weak, dark yellowish brown (10YR 4/6), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)	
		80	100	100	100	0.6			T2-101 14.34	+1.12 +0.73	14.30 14.69		II	Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are closely and widely spaced, rough and smooth planar, extremely narrow, iron oxide stained, dipping at 0°-10°, 30°-40° and 40°-50°.	
			96	70	70		NA		T2-101 15.24				II	13.30- 13.55m: Moderately weak, highly decomposed. (Sandy coarse GRAVEL and COBBLE)	
	16.32 HW	70						(31, 19/25mm) 200bts/10mm	15.90 15.96 16.01 16.32	-0.22 -0.30 -0.48 -0.90	15.64 15.72 15.90 16.32		III IV III II	13.55- 14.30m: Moderately strong, moderately decomposed. 13.59- 14.69m: With some fine grained GRANITE dykes.	
			100	93	93		6.0		T2-101 17.20	-1.22 -1.37 -1.67	16.64 16.79 17.09		III II	15.64- 15.72m: Moderately strong, moderately decomposed.	
			100	92	74		NI		T2-101 18.06	-2.18 -2.32 -2.54 -2.73 -2.89 -3.10	17.60 17.74 17.96 18.15 18.31 18.52		II III	15.72- 15.90m: Moderately weak, highly decomposed. (Sandy coarse GRAVEL and COBBLE) Weak, dark greyish brown (10YR 3/2), highly decomposed medium grained GRANITE. (Sandy medium to coarse GRAVEL)	
	7.13m at 18:00	100	68	53		6.8			T2-101 19.00				III	Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are closely locally widely and very closely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10°, 20°-30° and 70°-80°.	
20/08/2020 21/08/2020	10.47m at 08:00	100	95	95		0.4			T2-101 -4.58	-3.78	19.20 20.00		II	16.32- 17.09m: Fine grained GRANITE. 16.64- 16.79m: Strong, slightly decomposed. 17.60- 17.74m: Strong, slightly decomposed.	


● Small Disturbed Sample
 | Large Disturbed Sample
 SPT Liner Sample
 U76 Undisturbed Sample
 U100 Undisturbed Sample
 Mazier Sample
 Piston Sample
 ▲ Water Sample


| Standard Penetration Test
 | Permeability Test
 | Impression Packer Test
 | Borehole Televier Test
 | Pressuremeter Test
 | Standpipe Tip
 | Piezometer Tip
 | In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG
 DATE
24/08/2020

CHECKED BY
PETER CHU
 DATE
25/08/2020

REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH42 SHEET 1 of 3										
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)														
METHOD ROTARY CORED MACHINE / No. DR-19 FLUSHING MEDIUM WATER		CO-ORDINATES E 837 322.92 N 815 304.84 ORIENTATION Vertical		W.O. No. ASD 012560 DATE from 18/08/2020 to 29/08/2020 GROUND LEVEL +15.40 mP.D.										
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
18/08/2020	HW	Dry at 08:00							A 0.45 0.50	+15.25	0.15			CONCRETE SLAB.
		Dry at 18:00						(2, 2, 3, 3, 3, 4) N = 13	B 0.95 1.00 C 1.45 1.50 D 1.95 2.00 1 2.10 2 2.40 2.45				Red (10R 5/8), silty slightly clayey medium to coarse SAND with some subangular fine gravel sized moderately strong granite, quartz and brick fragments. (FILL)	
18/08/2020		Dry at 08:00							3 2.90	+12.50	2.90			Extremely weak, red (10R 5/8), completely decomposed medium grained GRANITE. (Stiff, sandy clayey SILT)
								(2, 2, 3, 3, 4, 4) N = 14	4 3.90 4.00 5 4.10 6 4.40 4.45			V		
									7 4.90	+10.50	4.90		V	Extremely weak, yellowish red (5YR 5/8), completely decomposed medium grained GRANITE. (Silty clayey fine to medium SAND)
								(2, 2, 3, 3, 3, 5) N = 14	8 5.90 6.00 9 6.10 10 6.40 6.45			V		
									11 6.90	+8.50	6.90		V	Extremely weak, pale red (10R 6/4), completely decomposed medium grained GRANITE. (Slightly clayey silty fine to medium SAND with some fine gravel)
								(2, 3, 3, 3, 4, 4) N = 14	12 7.90 8.00 13 8.10 14 8.40 8.45			V		
		3.00m at 18:00							15 8.90	+6.50	8.90		IV	Weak, yellow (10YR 7/8), highly decomposed medium grained GRANITE. (Sandy coarse GRAVEL and COBBLE)
26/08/2020		5.00m at 08:00	80	100	100	100	0.4		9.25 9.35 9.42	+5.98	9.42		II	Strong, light pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are widely spaced, rough planar, extremely
26/08/2020									T2-101	+5.40	10.00			
● Small Disturbed Sample Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▨ Mazier Sample □ Piston Sample ▲ Water Sample									Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test		LOGGED BY CALVIN TSANG DATE 29/08/2020 CHECKED BY PETER CHU DATE 31/08/2020		REMARKS 1. Inspection pit excavated from 0.00m-2.00m.	

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518				DRILLHOLE No. BH42 SHEET 2 of 3			
PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)																	
METHOD ROTARY CORED MACHINE / No. DR-19 FLUSHING MEDIUM WATER						CO-ORDINATES E 837 322.92 N 815 304.84 ORIENTATION Vertical				W.O. No. ASD 012560 DATE from 18/08/2020 to 29/08/2020 GROUND LEVEL +15.40 mP.D.							
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description			
27/08/2020 28/08/2020	16.40 HW	8.20m at 18:00 10.50m at 08:00	100	100	100	0.4		(50/30mm 200/70mm 200bis/70mm	T2-101	10.53		+	II	narrow, iron oxide stained, dipping at 0°-10° and 30°-40°.			
			80	100	99				99	T2-101	12.07	+3.33	12.07	+			
			100	99	99												
						100				(5, 8, 12, 16, 20, 27) N = 75	16	12.10		o	IV	Weak, yellowish brown (10YR 5/8), highly decomposed medium grained GRANITE. (Sandy fine to medium GRAVEL)	
						180					17	13.10		o			
											18	13.20		o			
						70					19	14.10	+1.30	14.10	o	V	Extremely weak, dark greyish brown (10YR 4/2), completely decomposed medium grained GRANITE. (Silty fine to medium SAND)
						100					20	15.10	+0.20	15.20	o		
											21	15.20		15.30	o		
						0					22	15.60		15.65	o	V	Extremely weak, reddish yellow (5YR 7/6), completely decomposed medium grained GRANITE. (Silty fine to medium SAND)
			100	100	100	23	16.10	-0.70			16.10	o	IV	Weak, yellowish brown (10YR 5/6), completely decomposed medium grained GRANITE. (Sandy medium to coarse GRAVEL)			
			100	100	100	T2-101	16.30	-1.00			16.40	+	II				
			100	100	100	1.4			16.40	-1.12	16.52	+	III	Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are widely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10° and 10°-20°.			
			100	100	100				16.73	-1.33	16.73	+	III	16.40- 16.52m: Moderately strong, moderately decomposed.			
			100	100	100				16.73	-1.51	16.91	+	III	16.73- 16.91m: Moderately strong, moderately decomposed.			
			80			0.0			18.26	-2.87	18.27	+	II	18.27- 18.95m: Moderately strong, moderately decomposed.			
			100	100	100				18.81	-3.17	18.57	+	III	18.57- 18.95m: Fine grained GRANITE.			
			100	100	100				18.81	-3.55	18.95	+	III				
									19.70	-4.30	19.70	+	II				
									19.87	-4.47	19.87	+	II				
									20.00	-4.60	20.00	+	II				

● Small Disturbed Sample
 | Large Disturbed Sample
 □ SPT Liner Sample
 ▨ U76 Undisturbed Sample
 ▩ U100 Undisturbed Sample
 ▨ Mazier Sample
 □ Piston Sample
 ▲ Water Sample

| Standard Penetration Test
 | Permeability Test
 | Impression Packer Test
 | Borehole Televiwer Test
 | Pressuremeter Test
 | Standpipe Tip
 | Piezometer Tip
 | In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG
 DATE
29/08/2020
 CHECKED BY
PETER CHU
 DATE
31/08/2020

REMARKS

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH42

SHEET 3 of 3

PROJECT PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012560

MACHINE / No. DR-19

E 837 322.92

DATE from 18/08/2020 to 29/08/2020

N 815 304.84

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.40 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
28/08/2020		0.20m at 18:00	80	100	100	100	0.0		 T2-101 21.37 T2-101 21.62	-4.98	20.38	+ + + + + + + + + + +	II	19.70- 19.87m: Fine grained GRANITE. 20.38m: PEGMATITE (30mm thick), dipping at 20°.
										-6.22	21.62			End of drillhole at 21.62m.

- | | | | |
|---|-------------------------|---|---------------------------|
| ● | Small Disturbed Sample | ↓ | Standard Penetration Test |
| ⌋ | Large Disturbed Sample | ⌋ | Permeability Test |
| □ | SPT Liner Sample | ⌋ | Impression Packer Test |
| ▨ | U76 Undisturbed Sample | ⌋ | Borehole Televier Test |
| ■ | U100 Undisturbed Sample | ⌋ | Pressuremeter Test |
| ▨ | Mazier Sample | ⌋ | Standpipe Tip |
| ▨ | Piston Sample | ⌋ | Piezometer Tip |
| ▲ | Water Sample | ∨ | In-situ Vane Shear Test |

LOGGED BY
CALVIN TSANG

DATE
29/08/2020

CHECKED BY
PETER CHU

DATE
31/08/2020

REMARKS

Adjacent Ground
Investigation Records -
GIU Report
No. 67763



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 5

SHEET 1 of 5

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. CS60

E 837 215.59

DATE from 17/08/2019 to 05/09/2019

N 815 276.77

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.04 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
17/08/2019	SW	Dry at 08:00								+14.84	0.20			CONCRETE.
		Dry at 18:00												Reddish yellow (5YR 6/6), silty SAND with angular to subangular fine to medium gravel sized moderately weak to strong granite. (FILL)
17/08/2019		Dry at 08:00						(1, 2, 1, 1, 1, 1) 1) N = 4	1 2.00 2 2.40 3 2.45 4 2.50	+13.04	2.00			Loose to medium dense, reddish brown (5YR 5/4), silty clayey SAND with much angular to subangular fine gravel sized moderately weak granite. (FILL)
				100					5 4.00 6 4.10 7 4.40 8 4.45 9 4.50					
				100				(1, 1, 1, 1, 2, 2) 2) N = 6	10 5.50 11 5.60 12 6.00 13 6.10					
	6.50 SW PW		70					(1, 2, 2, 2, 2, 2, 3) 3) N = 9	14 6.40 15 6.45 16 6.50 17 7.50 18 7.60					
				100					19 8.00 20 8.10 21 8.40 22 8.45 23 8.50					
				100				(2, 2, 3, 3, 3, 3, 4) 4) N = 13	24 9.50 25 9.60					
									26 9.50 27 9.60	+5.04	10.00			

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televier Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG
DATE
05/09/2019
CHECKED BY
PETER CHU
DATE
06/09/2019

REMARKS
1. Inspection pit excavated from 0.00m-2.00m.



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH 5**

SHEET **2** of **5**

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. CS60

E 837 215.59

DATE from 17/08/2019 to 05/09/2019

N 815 276.77

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.04 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
29/08/2019 30/08/2019	2.00m at 18:00 2.60m at 08:00	20.00 PW	70	0	85			(3, 4, 4, 5, 5, 6) N = 20	17	10.00	+4.54	10.50		As Sheet 1 of 5.
									18	10.10				Light brownish grey (10YR 6/2), silty fine to coarse SAND. (FILL)
									19	10.40				
									20	10.45				
									21	10.50				
									22	11.50				
									23	11.60				
									24	11.60				
									25	11.60				
									26	11.60				
27	11.60													
(3, 3, 4, 3, 3, 5) N = 15	43 bls	(3, 4, 6, 7, 8, 10) N = 31		22	13.00	+2.04	13.00		Medium dense to dense, reddish yellow (5YR 7/8), slightly clayey silty SAND with some subangular fine gravel of quartz. (ALLUVIUM)					
				23	13.10									
				24	13.40									
				25	13.45									
				26	13.50									
				27	14.50									
				28	14.60									
				29	15.05									
				30	15.10									
				31	15.20									
(3, 4, 6, 7, 8, 10) N = 31				28	15.50	-1.46	16.50		Extremely weak, reddish yellow (5YR 6/8), completely decomposed medium grained GRANITE. (Very stiff, sandy clayey SILT with some subangular fine gravel of quartz)					
				29	15.55									
				30	16.50									
				31	17.50									
				32	17.60									
				33	18.00									
				34	18.10									
				35	18.40									
				36	18.45									
				37	18.50									
(2, 3, 3, 4, 6, 8) N = 21				30	18.00	-3.46	18.50		Extremely weak, red(10R 5/8), completely decomposed medium grained GRANITE. (Dense, slightly clayey silty SAND with much subangular fine gravel of quartz)					
				31	18.10									
				32	18.40									
				33	18.45									
				34	18.50									
				35	19.50									
				36	19.60									
				37	19.60									
				38	19.60									
				39	19.60									
40	19.60													

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televier Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
05/09/2019

CHECKED BY
PETER CHU

DATE
06/09/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 5

SHEET 3 of 5

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. CS60

E 837 215.59

DATE from 17/08/2019 to 05/09/2019

N 815 276.77

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.04 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
	HW							(3, 5, 7, 10, 11, 14) N = 42	34 20.00 35 20.10 35 20.40 35 20.45					As Sheet 2 of 5.
								(5, 7, 8, 10, 16, 20) N = 54	36 22.00 37 22.10 37 22.40 37 22.45					
								(7, 10, 12, 12, 24, 30) N = 78	38 24.00 39 24.10 39 24.40 39 24.45					
								(8, 10, 14, 18, 26, 36) N = 94	40 26.00 41 26.10 41 26.40 41 26.45					
								(12, 16, 19, 21, 28, 40) N = 108	42 28.00 43 28.10 43 28.40 43 28.45					
										-14.96	30.00			

- Small Disturbed Sample
- ↑ Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- U100 Undisturbed Sample
- ▨ Mazier Sample
- Piston Sample
- ▲ Water Sample
- ↓ Standard Penetration Test
- ↑ Permeability Test
- ⊥ Impression Packer Test
- ⊥ Borehole Televiwer Test
- ⊥ Pressuremeter Test
- ⊥ Standpipe Tip
- ⊥ Piezometer Tip
- ⊥ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
05/09/2019

CHECKED BY
PETER CHU

DATE
06/09/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 5

SHEET 4 of 5

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. CS60

E 837 215.59

DATE from 17/08/2019 to 05/09/2019

N 815 276.77

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.04 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(11, 18, 22, 35, 46, 52) N = 155	44 30.00 45 30.10 30.40 30.45				V	As Sheet 2 of 5.
		2.10m at 18:00						(13, 20, 24, 32, 42, 54) N = 152	46 32.00 47 32.10 32.40 32.45	-16.96	32.00		V	Extremely weak, brown (10YR 5/3), completely decomposed medium grained GRANITE. (Very dense, clayey silty SAND with much subangular fine gravel of quartz)
		2.50m at 08:00						(32, 18/25mm 70, 130/25mm) 200bts/100mm	48 34.00 34.15 34.20	-18.96	34.00			Extremely weak, light reddish brown (5YR 6/4), completely decomposed medium grained GRANITE. (Very dense, slightly clayey silty SAND with much angular to subangular fine to medium gravel)
			70					(30, 20/25mm 75, 125/25mm) 200bts/100mm	49 36.00 36.15 36.20				V	
								(50/75mm 200/75mm) 200bts/75mm	50 38.00 38.10 38.15					
										-24.96	40.00			

- Small Disturbed Sample
- ↑ Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- U100 Undisturbed Sample
- ▤ Mazier Sample
- Piston Sample
- ▲ Water Sample
- ↓ Standard Penetration Test
- ↑ Permeability Test
- ⊥ Impression Packer Test
- ⋮ Borehole Televiwer Test
- ⊥ Pressuremeter Test
- ⊥ Standpipe Tip
- ⊥ Piezometer Tip
- ∨ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG
DATE
05/09/2019
CHECKED BY
PETER CHU
DATE
06/09/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 5

SHEET 5 of 5

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. CS60

E 837 215.59

DATE from 17/08/2019 to 05/09/2019

N 815 276.77

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.04 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
			70					(50/75mm) 200/75mm 200bts/75mm	51 40.00 40.10 40.15				V	As Sheet 4 of 5.
	43.05 HW							(50/30mm) 200/70mm 200bts/70mm	52 42.00 42.05 42.10	-26.96	42.00		IV	Very weak, yellowish red (5YR 5/8), highly decomposed medium grained GRANITE. (Angular fine to medium GRAVEL in a matrix of silty sand)
				70	51	51	5.9 NI NR		T2-101 43.05	-28.01	43.05		III	Moderately weak, yellowish red locally green, highly decomposed chloritized medium grained GRANITE. Joints are closely spaced, rough planar and undulating, extremely narrow, iron oxide stained, dipping at 0°-10° and 60°-70°.
				100	100	100	5.9		T2-101 43.58	-28.46	43.50		V	
				100	100	81			T2-101 43.88	-28.70	43.74		III	
				100	100	81				-28.84	43.88		II	43.34- 43.50m: No recovery assumed to be completely decomposed GRANITE.
				100	100	93	2.8		T2-101 44.55				II	43.74- 43.88m: Strong, slightly decomposed. Strong, pinkish grey to reddish grey locally green, slightly decomposed medium grained GRANITE. Joints are closely to medium locally very closely spaced, smooth planar and undulating, extremely narrow to tight, chlorite and kaolin coated (<2mm), dipping at 0°-10°, 20°-30°, 40°-50° and 70°-80°.
			80				>20		T2-101 45.83	-31.16	46.20		IV	43.88- 46.87m: Chloritized.
				97	90	85			T2-101 46.20	-31.26	46.30			46.20- 46.30m: Moderately weak, highly decomposed.
	2.20m at 18:00						5.8		T2-101 47.20	-31.83	46.87			
04/09/2019 18:00				100	97	97			T2-101 48.08	-33.19	48.23		II	48.23- 49.19m: Chloritized.
05/09/2019 08:00									T2-101 49.19	-34.15	49.19			End of drillhole at 49.19m.
05/09/2019 18:00				100	100	100	2.1							
	2.15m at 18:00													

- Small Disturbed Sample
- ↑ Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- U100 Undisturbed Sample
- ▨ Mazier Sample
- Piston Sample
- ▲ Water Sample
- ↓ Standard Penetration Test
- ↓ Permeability Test
- ↓ Impression Packer Test
- ↓ Borehole Televiwer Test
- ↓ Pressuremeter Test
- ↓ Standpipe Tip
- ↓ Piezometer Tip
- ↓ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
05/09/2019

CHECKED BY
PETER CHU

DATE
06/09/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 6

SHEET 1 of 5

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. D60

E 837 271.21

DATE from 16/08/2019 to 23/08/2019

N 815 331.62

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.12 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
16/08/2019	HW	Dry at 08:00								+14.97	0.15			CONCRETE.
									A 0.45 0.50					Yellowish red (5YR 5/6), sandy clayey SILT with much subangular fine gravel sized moderately weak to moderately granite and quartz. (FILL)
									B 0.95 1.00					
									C 1.45 1.50					
16/08/2019		Dry at 18:00							D 1.95 2.00	+13.12	2.00			
21/08/2019		Dry at 08:00						(1, 2, 2, 2, 2, 2) N = 8	1 2.00 2.10					Firm, red (25YR 5/8), sandy clayey SILT with much subangular fine gravel of quartz. (RESIDUAL SOIL)
									2 2.40 2.45 2.50				VI	
									3					
									4 3.50 3.60					
									5 4.00 4.10					
								(1, 2, 1, 2, 2, 2) N = 7	6 4.40 4.45 4.50	+10.62	4.50			Extremely weak, reddish yellow (5YR 6/8), completely decomposed medium grained GRANITE. (Clayey silty SAND with much subangular fine gravel of quartz)
									7				V	
									8 5.50 5.60					
									9 6.00 6.10	+9.12	6.00			Extremely weak, red (10R 5/6), completely decomposed medium grained GRANITE. (Medium dense, clayey silty SAND with much subangular fine gravel of quartz)
								(2, 3, 2, 3, 4, 3) N = 12	10 6.40 6.45 6.50					
									11					
									12 7.50 7.60					
									13 8.00 8.10				V	
								(3, 2, 3, 2, 4, 4) N = 13	14 8.40 8.45 8.50					
									15					
									16 9.50 9.60	+5.12	10.00			

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televier Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
27/08/2019

CHECKED BY
PETER CHU

DATE
28/08/2019

REMARKS

1. Inspection pit excavated from 0.00m-2.00m.



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 6

SHEET 2 of 5

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. D60

E 837 271.21

DATE from 16/08/2019 to 23/08/2019

N 815 331.62

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.12 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				95				(2, 3, 3, 2, 3, 5) N = 13	17 18 19 20	10.00 10.10 10.40 10.45 10.50 11.50 11.60				As Sheet 1 of 5.
				95				(2, 3, 2, 3, 5, 4) N = 14	21 22 23 24	12.00 12.10 12.40 12.45 12.50 13.50 13.60			V	
			70	95				(4, 4, 6, 9, 11, 11) N = 37	25 26 27 28	14.00 14.10 14.40 14.45 14.50 15.50 15.60	+1.12	14.00		Extremely weak, pale red (10R 7/4) to weak red (10R 5/4), completely decomposed medium grained GRANITE. (Dense to very dense, silty SAND with much subangular fine gravel of quartz)
				95				(4, 5, 8, 10, 13, 12) N = 43	29 30 31 32	16.00 16.10 16.40 16.45 16.50 17.50 17.60			V	
				95				(6, 5, 10, 13, 13, 17) N = 53	33 34 35	18.00 18.10 18.40 18.45 18.50	-3.38	18.50		Extremely weak, pink (10R 8/4) spotted white (N8) and grey (N6), completely decomposed medium grained GRANITE. (Very dense, silty SAND with much subangular fine gravel)
21/08/2019 22/08/2019		5.30m at 18:00 9.83m at							36	19.50 19.60	-4.88	20.00	V	

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televier Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
27/08/2019

CHECKED BY
PETER CHU

DATE
28/08/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 6

SHEET 3 of 5

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. D60

E 837 271.21

DATE from 16/08/2019 to 23/08/2019

N 815 331.62

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.12 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
		08:00						(5, 8, 13, 9, 13, 20) N = 55	37 38 20.00 20.10 20.40 20.45					As Sheet 2 of 5.
								(9, 8, 15, 15, 20, 28) N = 78	39 40 22.00 22.10 22.40 22.45					
								(12, 17, 23, 28, 25, 31) N = 105	41 42 24.00 24.10 24.40 24.45					
								(15, 16, 27, 28, 33, 45) N = 133	43 44 26.00 26.10 26.40 26.45					
								(6, 5, 10, 13, 13, 17) N = 53	45 46 28.00 28.10 28.40 28.45					
			70							-14.88	30.00		V	

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample

- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televier Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
27/08/2019

CHECKED BY
PETER CHU

DATE
28/08/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH 6

SHEET 4 of 5

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. D60

E 837 271.21

DATE from 16/08/2019 to 23/08/2019

N 815 331.62

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.12 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(14, 20, 31, 43, 50, 56) N = 180	47 30.00 48 30.10 48 30.40 48 30.45					Extremely weak, light red (10R 7/8), completely decomposed medium grained GRANITE. (Very dense, silty SAND with much subangular fine gravel)
			70					(9, 8, 15, 15, 20, 28) N = 78	49 32.00 50 32.10 50 32.40 50 32.45				V	
								(50/50mm 92, 108/45mm) 200bls/120mm	51 34.00 51 34.12 51 34.17 51 34.39	-19.27	34.39			Moderately strong, yellowish brown spotted grey and white, moderately decomposed medium grained GRANITE. Joints are closely to medium locally widely spaced, rough planar and undulating, extremely narrow, iron oxide stained, kaolin coated (<2mm), dipping at 0°-10°, 10°-20° and 60°-70°.
				91	87	72	NI		T2-101					
							4.5							
							NI							
							6.1							
			80	95	100	100			T2-101				III	
							1.1							
				98	100	91			T2-101					37.28- 38.70m: With very closely spaced subhorizontal joints.
							7.0							
			70					(50/40mm 112/75mm, 88/25mm) 200bls/100mm	52 38.70 52 39.00 52 39.09 52 39.14	-23.58	38.70		IV	Weak, reddish yellow (5YR 6/8), highly decomposed medium grained GRANITE. (Angular fine to medium GRAVEL)
	39.62 HW													
			80	96	95	95	NI		T2-101	-24.50 -24.60 -24.88	39.62 39.72 40.00		III II	Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are

- Small Disturbed Sample
- ↑ Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- U100 Undisturbed Sample
- ▤ Mazier Sample
- Piston Sample
- ▲ Water Sample
- ↓ Standard Penetration Test
- ↑ Permeability Test
- ⊥ Impression Packer Test
- ⋮ Borehole Televiwer Test
- ⊥ Pressuremeter Test
- ⊥ Standpipe Tip
- ⊥ Piezometer Tip
- ∨ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
27/08/2019

CHECKED BY
PETER CHU

DATE
28/08/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH 6**

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

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD **ROTARY CORED**

CO-ORDINATES

W.O. No. **ASD 012516**

MACHINE / No. **D60**

E 837 271.21

DATE from **16/08/2019** to **23/08/2019**

N 815 331.62

FLUSHING MEDIUM **WATER**

ORIENTATION **Vertical**

GROUND LEVEL **+15.12 mP.D.**

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
22/08/2019 23/08/2019 <														

- Small Disturbed Sample
- ┆ Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- U100 Undisturbed Sample
- ▤ Mazier Sample
- Piston Sample
- ▲ Water Sample
- ┆ Standard Penetration Test
- ┆ Permeability Test
- ┆ Impression Packer Test
- ┆ Borehole Televiwer Test
- ┆ Pressuremeter Test
- ┆ Standpipe Tip
- ┆ Piezometer Tip
- ┆ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
27/08/2019

CHECKED BY
PETER CHU

DATE
28/08/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH10**

SHEET **1** of **6**

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD **ROTARY CORED**

CO-ORDINATES

W.O. No. **ASD 012516**

MACHINE / No. **DR60**

E 837 229.63

DATE from **17/08/2019** to **31/08/2019**

N 815 269.16

FLUSHING MEDIUM **WATER**

ORIENTATION **Vertical**

GROUND LEVEL **+15.07 mP.D.**

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
17/08/2019	SW	Dry at 08:00								+14.87	0.20			CONCRETE.
									A 0.45 0.50					Yellowish red (5YR 4/6), clayey silty SAND with much angular to subangular fine to medium gravel sized moderately weak to moderately strong granite and brick fragments. (FILL)
									B 0.95 1.00					
									C 1.45 1.50					
17/08/2019		Dry at 18:00							D 1.95 2.00	+13.07	2.00			
27/08/2019		Dry at 08:00						(3, 2, 3, 3, 3) N = 12	1 2.00 2.10					Medium dense, reddish brown (5YR 5/4), clayey silty SAND with much subangular fine occasional medium grave sized moderately weak granite and quartz. (FILL)
									2 2.40 2.45 2.50					
									3					
									4 3.50 3.60					
	4.00 SW PW								5 4.00 4.10					
									6 4.40 4.45 4.50					
									7					
									8 5.50 5.60					
									9 6.00 6.10	+9.07	6.00			Stiff, reddish brown (5YR 4/3), sandy clayey SILT with much subangular fine gravel sized moderately weak granite and wood fragments. (FILL)
									10 6.40 6.45 6.50					
									11					
									12 7.50 7.60					
									13 8.00 8.10	+7.07	8.00			Medium dense, yellowish red (10YR 5/6), clayey silty SAND with much subangular fine gravel sized moderately weak granite and quartz. (FILL)
									14 8.40 8.45 8.50					
									15					
27/08/2019		1.50m at 18:00							16 9.50 9.60					
28/08/2019		6.50m at								+5.07	10.00			

- Small Disturbed Sample
- ↑ Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- U100 Undisturbed Sample
- ▤ Mazier Sample
- Piston Sample
- ▲ Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
31/08/2019

CHECKED BY
PETER CHU

DATE
02/09/2019

REMARKS

1. Inspection pit excavated from 0.00m-2.00m.
2. A piezometer tip was installed at 15.00m depth.
3. A standpipe was installed to 12.50m depth.

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH10

SHEET 2 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. DR60

E 837 229.63

DATE from 17/08/2019 to 31/08/2019

N 815 269.16

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.07 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
		08:00						(2, 2, 3, 2, 3, 3) N = 11	<div><div></div><div>17 10.00 10.10</div><div>18 10.40 10.45 10.50</div><div>19</div><div>20 11.50 11.60</div></div>					Stiff, black (N2.5), sandy clayey SILT with much subangular fine gravel sized quartz. (FILL)
				100				(2, 2, 3, 2, 3, 4) N = 12	<div><div></div><div>21 12.00 12.10</div><div>22 12.40 12.45 12.50</div><div>23</div><div>24 13.50 13.60</div></div>	+3.07	12.00	<div><div></div><div>21 12.00 12.10</div><div>22 12.40 12.45 12.50</div><div>23</div><div>24 13.50 13.60</div></div>		Medium dense, light grey (N7), clayey silty SAND with some subangular fine gravel of quartz. (ALLUVIUM)
			70	100				(3, 2, 3, 2, 4, 4) N = 13	<div><div></div><div>25 14.00 14.10</div><div>26 14.40 14.45 14.50</div><div>27</div><div>28 15.50 15.60</div></div>	+1.07	14.00	<div><div></div><div>25 14.00 14.10</div><div>26 14.40 14.45 14.50</div><div>27</div><div>28 15.50 15.60</div></div>		Stiff, very pale brown (10YR 7/4), sandy clayey SILT with some subangular fine gravel of quartz. (ALLUVIUM)
				100				(3, 2, 3, 4, 4, 4) N = 15	<div><div></div><div>29 16.00 16.10</div><div>30 16.40 16.45 16.50</div><div>31</div><div>32 17.50 17.60</div></div>	-0.93	16.00	<div><div></div><div>29 16.00 16.10</div><div>30 16.40 16.45 16.50</div><div>31</div><div>32 17.50 17.60</div></div>		Medium dense, light grey (N7), silty fine SAND with some subangular fine gravel of quartz. (ALLUVIUM)
	18.00 PW HW			100				(3, 5, 5, 6, 6, 8) N = 25	<div><div></div><div>33 18.00 18.10</div><div>34 18.40 18.45 18.50</div><div>35</div><div>36 19.50 19.60</div></div>	-2.93	18.00	<div><div></div><div>33 18.00 18.10</div><div>34 18.40 18.45 18.50</div><div>35</div><div>36 19.50 19.60</div></div>	V	Extremely weak, reddish yellow (5YR 7/6), completely decomposed medium grained GRANITE. (Medium dense, silty SAND with some fine gravel of quartz)
										-4.93	20.00			

- | | | | |
|---|-------------------------|---|---------------------------|
| ● | Small Disturbed Sample | ↓ | Standard Penetration Test |
| ↑ | Large Disturbed Sample | ⬇ | Permeability Test |
| □ | SPT Liner Sample | ⌋ | Impression Packer Test |
| ▨ | U76 Undisturbed Sample | ⌋ | Borehole Televiwer Test |
| ■ | U100 Undisturbed Sample | ⌋ | Pressuremeter Test |
| ▤ | Mazier Sample | ⌋ | Standpipe Tip |
| ▥ | Piston Sample | ⌋ | Piezometer Tip |
| ▲ | Water Sample | ∨ | In-situ Vane Shear Test |

LOGGED BY
CALVIN TSANG

DATE
31/08/2019

CHECKED BY

DATE
02/09/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH10**

SHEET **3** of **6**

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD **ROTARY CORED**

CO-ORDINATES

W.O. No. **ASD 012516**

MACHINE / No. **DR60**

E 837 229.63

DATE from **17/08/2019** to **31/08/2019**

N 815 269.16

FLUSHING MEDIUM **WATER**

ORIENTATION **Vertical**

GROUND LEVEL **+15.07 mP.D.**

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
			70					(5, 7, 10, 13, 18, 22) N = 63	37 20.00 38 20.10 38 20.40 38 20.45				V	Extremely weak, reddish grey (5YR 5/2), completely decomposed medium grained GRANITE. (Very dense, silty SAND with much subangular fine gravel)
			80	75	3	0	NI		T2-101	-5.73	20.80		III	Moderately strong, yellowish brown spotted black and white, moderately decomposed medium grained GRANITE. Rock is non-intact.
								(7, 10, 14, 21, 25, 30) N = 90	39 21.60 40 22.00 40 22.10 40 22.40 40 22.45	-6.53	21.60			Extremely weak, pale red (10R 6/3), completely decomposed medium grained GRANITE. (Very dense, silty SAND with much subangular fine gravel)
								(7, 10, 16, 21, 28, 32) N = 97	41 24.00 42 24.10 42 24.40 42 24.45					
			70					(8, 12, 17, 24, 30, 38) N = 109	43 26.00 44 26.10 44 26.40 44 26.45				V	
								(9, 13, 18, 27, 34, 43) N = 122	45 28.00 46 28.10 46 28.40 46 28.45					
										-14.93	30.00			

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
31/08/2019

CHECKED BY
PETER CHU

DATE
02/09/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH10

SHEET 4 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. DR60

E 837 229.63

DATE from 17/08/2019 to 31/08/2019

N 815 269.16

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.07 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(8, 14, 21, 31, 40, 53) N = 145	47 48 30.00 30.10 30.40 30.45					As Sheet 3 of 6.
								(10, 15, 24, 35, 44, 60) N = 163	49 50 32.00 32.10 32.40 32.45				V	
								(9, 13, 25, 38, 52, 69) N = 184	51 52 34.00 34.10 34.40 34.45					
			70					(11, 15, 27, 40, 54, 76) N = 197	53 54 36.00 36.10 36.40 36.45	-20.93	36.00			Extremely weak, reddish yellow (5YR 6/6), completely decomposed medium grained GRANITE. (Very dense, silty SAND with much subangular fine gravel)
								(19, 31, 53, 69, 78/75mm) 200bls/225mm	55 56 38.00 38.10 38.40 38.45	-24.93	40.00		V	

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televier Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
31/08/2019

CHECKED BY
PETER CHU

DATE
02/09/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH10**

SHEET **5** of **6**

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD **ROTARY CORED**

CO-ORDINATES

W.O. No. **ASD 012516**

MACHINE / No. **DR60**

E 837 229.63

DATE from **17/08/2019** to **31/08/2019**

N 815 269.16

FLUSHING MEDIUM **WATER**

ORIENTATION **Vertical**

GROUND LEVEL **+15.07 mP.D.**

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(15, 35, 73, 127/75mm) 200bts/150mm	57 40.00 58 40.25 58 40.30					As Sheet 4 of 6.
			70					(50/25mm) 200/75mm) 200bts/75mm	59 42.00 42.05 42.10				V	
								(50/30mm) 200/70mm) 200bts/70mm	60 44.00 44.05 44.10	-28.93	44.00			Weak, reddish yellow (5YR 6/6), highly decomposed medium grained GRANITE. (Angular fine to medium GRAVEL)
								(50/25mm) 200/75mm) 200bts/75mm	61 46.00 46.05 46.10				IV	
	47.48 HW						NI		47.48	-32.41	47.48		IV	Moderately strong, yellowish brown, moderately decomposed medium grained GRANITE. Joints are very closely to closely spaced, rough and smooth planar, extremely narrow, iron and manganese oxide stained, chlorite coated, dipping at 0°-10°, 30°-40° and 40°-50°. 47.48- 47.64m: Moderately weak, highly decomposed. 48.31- 48.60m: Moderately weak, highly decomposed.
							9.0		T2-101	-32.57	47.64		III	
							NI			-33.24	48.31		IV	
							19.2			-33.53	48.60		III	
							NI						IV	
			80						48.78					
										-34.67	49.74			
										-34.85	49.92			
										-34.91	49.98			
							>20							

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
31/08/2019

CHECKED BY
PETER CHU

DATE
02/09/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH10

SHEET 6 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. DR60

E 837 229.63

DATE from 17/08/2019 to 31/08/2019

N 815 269.16

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.07 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
29/08/2019 30/08/2019 <														

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
31/08/2019

CHECKED BY
PETER CHU

DATE
02/09/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH11

SHEET 1 of 5

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. DR60

E 837 280.17

DATE from 16/08/2019 to 26/08/2019

N 815 319.50

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.17 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
16/08/2019	HW	Dry at 08:00								+14.97	0.20			CONCRETE.
									A 0.45 0.50					Yellowish red (5YR 5/6), silty clayey SAND with much angular to subangular fine gravel sized quartz, plagioclase and asphalt fragments. (FILL)
									B 0.95 1.00					
									C 1.45 1.50					
16/08/2019		Dry at 18:00							D 1.95 2.00	+13.17	2.00			
21/08/2019		Dry at 08:00						(2, 2, 2, 3, 2, 3) N = 10	1 2.00 2.10					Stiff, dark yellowish brown (10YR 4/4), sandy clayey SILT with occasional fine gravel sized asphalt and brick fragments. (FILL)
									2 2.40 2.45 2.50					
									3 3.50 3.60					
									4 4.00 4.10	+11.17	4.00			
								(2, 2, 3, 3, 2, 2) N = 9	5 4.40 4.45 4.50					Stiff to very stiff, red (2.5YR 5/8), sandy clayey SILT with much subangular fine gravel of quartz. (RESIDUAL SOIL)
									6 5.50 5.60					
									7 6.00 6.10					
								(3, 2, 3, 3, 3, 3) N = 13	8 6.40 6.45 6.50					
									9 7.50 7.60					
									10 8.00 8.10					
									11 8.40 8.45 8.50					
								(2, 3, 3, 3, 4, 4) N = 16	12 9.50 9.60					
									13 9.50 9.60	+5.17	10.00			

- Small Disturbed Sample
 - Large Disturbed Sample
 - SPT Liner Sample
 - ▨ U76 Undisturbed Sample
 - U100 Undisturbed Sample
 - ▤ Mazier Sample
 - Piston Sample
 - ▲ Water Sample
- Standard Penetration Test
 - Permeability Test
 - Impression Packer Test
 - Borehole Televiwer Test
 - Pressuremeter Test
 - Standpipe Tip
 - Piezometer Tip
 - In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
27/08/2019

CHECKED BY
PETER CHU

DATE
28/08/2019

REMARKS

1. Inspection pit excavated from 0.00m-2.00m.
2. A piezometer tip was installed at 15.00m depth.
3. A standpipe was installed to 12.00m depth.



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH11

SHEET 2 of 5

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. DR60

E 837 280.17

DATE from 16/08/2019 to 26/08/2019

N 815 319.50

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.17 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(3, 4, 4, 5, 6, 5) N = 21	17 18 19 20	10.00 10.10 +4.67 10.50 10.40 10.45 10.50	10.50		VI	As Sheet 1 of 5.
				100									V	Extremely weak, red (2.5YR 5/6), completely decomposed medium grained GRANITE. (Clayey silty SAND with much subangular fine gravel of quartz)
								(4, 5, 5, 6, 7, 7) N = 25	21 22 23 24	11.50 11.60 +3.17 12.00 12.10 12.40 12.45 12.50	12.00		V	Extremely weak, red (10R 5/6), completely decomposed medium grained GRANITE. (Medium dense, clayey silty SAND with much subangular fine gravel of quartz)
				100										
								(5, 7, 7, 9, 10, 15) N = 41	25 26 27 28	13.50 13.60 +1.17 14.00 14.10 14.40 14.45 14.50	14.00			Extremely weak, red (10R 5/6) and reddish yellow (5YR 7/6) spotted grey and white, completely decomposed medium grained GRANITE. (Dense to very dense, silty SAND with much subangular fine gravel of quartz)
				70										
								(6, 8, 10, 13, 15, 23) N = 61	29 30 31	15.50 15.60 16.00 16.10 16.40 16.45 16.50			V	
		9.50m at 18:00		100										
		9.50m at 08:00						(7, 10, 14, 17, 21, 25) N = 77	32 33 34 35 36	17.50 17.60 18.00 18.10 18.40 18.45 18.50 19.50 19.60	-4.83 20.00			

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
27/08/2019

CHECKED BY
PETER CHU

DATE
28/08/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH11

SHEET 3 of 5

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. DR60

E 837 280.17

DATE from 16/08/2019 to 26/08/2019

N 815 319.50

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.17 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				100				(8, 15, 20, 23, 38, 32) N = 113	37 20.00 38 20.10 39 20.40 40 20.45 41 20.50	-5.33	20.50		V	As Sheet 2 of 5.
								(7, 15, 18, 22, 27, 33) N = 100	42 21.50 43 21.60 44 22.00 45 22.10 46 22.40 47 22.45					Extremely weak, light red (10R 6/6), completely decomposed medium grained GRANITE. (Very dense, silty SAND with much subangular fine gravel of quartz)
			70					(8, 16, 29, 35, 39, 54) N = 157	48 24.00 49 24.10 50 24.40 51 24.45				V	
								(10, 17, 32, 42, 50, 58) N = 182	52 26.00 53 26.10 54 26.40 55 26.45					
								(11, 18, 30, 41, 58, 77) N = 206	56 28.00 57 28.10 58 28.40 59 28.45					
								(17, 33/15mm)		-14.83	30.00			

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample

- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
27/08/2019

CHECKED BY
PETER CHU

DATE
28/08/2019

REMARKS

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH11

SHEET 4 of 5

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. DR60

E 837 280.17

DATE from 16/08/2019 to 26/08/2019

N 815 319.50

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.17 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
22/08/2019 23/08/2019	39.15 HW	7.50m at 18:00 10.00m at 08:00	70					68 132/65mm 200bts/140mm (50/50mm 127/75mm, 73/35mm) 200bts/110mm (50/45mm 123/75mm, 77/30mm) 200bts/105mm (50/15mm 1200/65mm) 200bts/65mm	49 50	30.00 30.18 30.23 30.35	-15.18 -15.30	30.35 30.47	V	As Sheet 3 of 5.
			80	67	7	0	NI		T2-101	-15.68 -15.88	30.85 31.05	IV III IV	Moderately strong, yellowish brown spotted black and white, moderately decomposed medium grained GRANITE. Rock is non-intact. 30.35- 30.47m: Moderately weak, highly decomposed.	
							NR			31.40	-16.23	31.40	V	30.85- 31.05m: Moderately weak, highly decomposed.
			70						51	32.00 32.11 32.16			V	31.05- 31.40m: No recovery assumed to be completely decomposed GRANITE. Extremely weak, light red (10R 6/6), completely decomposed medium grained GRANITE. (Very dense, silty SAND with much subangular fine gravel of quartz)
									52	34.00 34.10 34.15			V	
									35.03	-19.86	35.03	III	Moderately strong, reddish brown to yellowish brown, moderately decomposed medium grained GRANITE. Joints are very closely to closely locally medium spaced, rough planar and smooth undulating, extremely narrow, iron and manganese oxide stained, dipping at 0°-10°, 20°-30° and 50°-60°.	
				96	97	97	4.1		T2-101			IV	36.07- 36.35m: Moderately weak, highly decomposed.	
				67	52	44	>20 NI NR		T2-101	-20.90 -21.18 -21.43	36.07 36.35 36.60	III IV V	36.35- 36.60m: No recovery assumed to be completely decomposed GRANITE.	
			80				6.8		T2-101			III		
				85	77	58	NI 4.4			-22.72 -22.95	37.89 38.12	V	37.89- 38.12m: No recovery assumed to be completely decomposed GRANITE.	
							NI NR		T2-101	-23.26 -23.53	38.43 38.70	IV V	38.12- 38.43m: Moderately weak, highly decomposed.	
				40	0	0	12.5 NI NR		T2-101	-23.98 -24.13	39.15 39.30	IV III	38.43- 38.70m: No recovery assumed to be completely decomposed GRANITE.	
			70						38.70 38.73 38.78			IV	Weak, reddish yellow (5YR 6/6), highly decomposed medium grained GRANITE. (Angular fine to medium GRAVEL)	
									39.15	-24.57 -24.83	39.74 40.00	II III		
			80	84	76	76	6.3		T2-101			III		
			<ul style="list-style-type: none">Small Disturbed SampleLarge Disturbed SampleSPT Liner SampleU76 Undisturbed SampleU100 Undisturbed SampleMazier SamplePiston SampleWater Sample		<ul style="list-style-type: none">Standard Penetration TestPermeability TestImpression Packer TestBorehole Televiwer TestPressuremeter TestStandpipe TipPiezometer TipIn-situ Vane Shear Test		LOGGED BY CALVIN TSANG DATE 27/08/2019 CHECKED BY PETER CHU DATE 28/08/2019		REMARKS					



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH11**

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

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD **ROTARY CORED**

CO-ORDINATES

W.O. No. **ASD 012516**

MACHINE / No. **DR60**

E 837 280.17

DATE from **16/08/2019** to **26/08/2019**

N 815 319.50

FLUSHING MEDIUM **WATER**

ORIENTATION **Vertical**

GROUND LEVEL **+15.17 mP.D.**

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				87	87	87	NI		T2-101	40.10		+	III	Moderately strong, reddish brown to yellowish brown spotted black and white, moderately decomposed medium grained GRANITE. Joints are very closely to closely locally widely spaced, rough planar and smooth undulating, extremely narrow, iron and manganese oxide stained, dipping at 20°-30°, 30°-40° and 40°-50°. 39.30- 39.74m: Strong, slightly decomposed. 40.48- 40.91m: Strong, slightly decomposed. 41.39- 41.49m: Weak to moderately weak, highly to moderately decomposed. 41.71- 42.11m: Strong, slightly decomposed. 42.51- 43.06m: Strong, slightly decomposed. 43.38- 43.45m: Moderately weak, moderately decomposed.
				87	87	87	1.1		T2-101	-25.31	40.48	+	II	
				88	63	51	14.8		T2-101	-25.74	40.91	+	III	
				88	63	51	>20		T2-101	-26.22	41.39	+	IV/III	
				88	63	51			T2-101	-26.32	41.49	+	III	
				88	63	51			T2-101	-26.54	41.71	+	III	
				80			1.6		T2-101	-26.94	42.11	+	II	
				86	87	87	3.8		T2-101	-27.34	42.51	+	III	
				86	87	87	8.3		T2-101	-27.89	43.06	+	II	
				86	87	87	NI		T2-101	-28.21	43.38	+	III	
				86	79	66	8.6		T2-101	-28.28	43.45	+	III	
23/08/2019		10.50m at 18:00							T2-101	-29.48	44.65	+		End of drillhole at 44.65m.

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- U100 Undisturbed Sample
- ▧ Mazier Sample
- Piston Sample
- ▲ Water Sample
- ↓ Standard Penetration Test
- ⬇ Permeability Test
- ⊥ Impression Packer Test
- ⬆ Borehole Televiwer Test
- ⊥ Pressuremeter Test
- ⬆ Standpipe Tip
- ⬆ Piezometer Tip
- ∨ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
27/08/2019

CHECKED BY
PETER CHU

DATE
28/08/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH16

SHEET 1 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. D60

E 837 241.91

DATE from 17/08/2019 to 29/08/2019

N 815 270.97

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.24 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
17/08/2019	HW	Dry at 08:00								+15.14	0.10			CONCRETE.
									A 0.45 0.50					Light red (10R 7/6), sandy SILT with much subangular fine to medium gravel sized moderately weak granite. (FILL)
									B 0.95 1.00					
									C 1.45 1.50					
17/08/2019		Dry at 18:00							D 1.95 2.00	+13.24	2.00			
24/08/2019		Dry at 08:00						(2, 1, 1, 2, 2, 2) N = 7	1 2.00 2.10					Firm, red (10R 5/6), sandy clayey SILT with much subangular fine gravel of moderately weak granite and quartz. (FILL)
									2 2.40 2.45 2.50					
									3					
									4 3.50 3.60					
									5 4.00 4.10					
								(1, 2, 2, 2, 2, 2) N = 8	6 4.40 4.45 4.50					
									7					
									8 5.50 5.60					
									9 6.00 6.10					
24/08/2019		5.20m at 18:00	70					(2, 1, 2, 1, 1, 1) N = 6	10 6.40 6.45 6.50					
26/08/2019		5.03m at 08:00							11					
									12 7.50 7.60					
									13 8.00 8.10					
								(2, 2, 1, 2, 2, 2) N = 7	14 8.40 8.45 8.50	+6.74	8.50			Stiff, red (2.5YR 5/8), sandy clayey SILT with some subangular fine gravel of quartz. (RESIDUAL SOIL)
									15					
									16 9.50 9.60					
										+5.24	10.00			

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample

- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televier Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
30/08/2019

CHECKED BY
PETER CHU

DATE
31/08/2019

REMARKS

1. Inspection pit excavated from 0.00m-2.00m.



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH16

SHEET 2 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. D60

E 837 241.91

DATE from 17/08/2019 to 29/08/2019

N 815 270.97

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.24 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				100				(2, 2, 3, 2, 3, 3) N = 11	17 10.00 18 10.10 19 10.40 20 10.45 21 10.50	+4.64	10.60		VI	Stiff, reddish yellow (5YR 6/8), sandy clayey SILT. (RESIDUAL SOIL)
								(2, 3, 3, 2, 3, 3, 4) N = 12	22 11.50 23 11.60 24 12.00 25 12.10 26 12.40 27 12.45 28 12.50	+2.74	12.50		VI	Stiff, reddish yellow (5YR 7/6), sandy clayey SILT with some subangular fine gravel. (RESIDUAL SOIL)
				95				(4, 3, 4, 5, 7, 7) N = 23	29 13.50 30 13.60 31 14.00 32 14.10 33 14.40 34 14.45 35 14.50	+0.74	14.50		V	Extremely weak, pink (5YR 8/3), completely decomposed medium grained GRANITE. (Very stiff, sandy clayey SILT with some subangular fine gravel)
			70	90				(4, 6, 7, 10, 10, 12) N = 39	36 15.50 37 15.60 38 16.00 39 16.10 40 16.40 41 16.45 42 16.50	-1.26	16.50		V	Extremely weak, reddish yellow (5YR 6/8), completely decomposed fine grained GRANITE. (Dense, silty SAND)
				95				(7, 10, 12, 9, 15, 15) N = 51	43 17.50 44 17.60 45 18.00 46 18.10 47 18.40 48 18.45 49 18.50	-2.76	18.00		V	Extremely weak, red (2.5YR 5/8), completely decomposed fine grained GRANITE. (Silty SAND with some subangular fine gravel)
				95					50 19.50 51 19.60	-4.76	20.00		V	Extremely weak, pale red (10R 6/4), completely decomposed fine grained GRANITE. (Very dense, silty SAND with much subangular fine to medium gravel)

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televier Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
30/08/2019

CHECKED BY
PETER CHU

DATE
31/08/2019

REMARKS

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH16

SHEET 3 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. D60

E 837 241.91

DATE from 17/08/2019 to 29/08/2019

N 815 270.97

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.24 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
26/08/2019 27/08/2019	6.10m at 18:00 8.90m at 08:00	70	70	81	82	76	NI	<div><div>(4, 9, 11, 14, 18, 17) N = 60</div><div>(8, 9, 13, 20, 18, 27) N = 78</div><div>(13, 11, 14, 18, 20, 36) N = 88</div><div>(15, 22, 24, 31, 42, 57) N = 154</div><div>(15, 14, 23, 38, 35, 45) N = 141</div></div>	<div><div>3720.00</div><div>3820.10</div><div>20.40</div><div>20.45</div></div>	-7.71	22.95	<div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><</div></div>		



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH16

SHEET 4 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. D60

E 837 241.91

DATE from 17/08/2019 to 29/08/2019

N 815 270.97

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.24 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
			70					(50/50mm 110/75mm, 90/45mm) 200bls/120mm	47 30.80 30.92 30.97	-15.56	30.80		V	As Sheet 3 of 6.
									31.48	-16.24	31.48		IV	Weak, pale red (10R 7/4), highly decomposed medium grained GRANITE. (Angular fine GRAVEL)
			80	92	84	84	4.0		T2-101	-16.62	31.86		II	Moderately strong, yellowish brown spotted black and white, moderately decomposed medium grained GRANITE. Joints are medium spaced, rough planar and undulating, iron oxide stained, dipping at 0°-10° and 10°-20°.
										-17.54	32.78		III	31.48- 31.86m: Strong, slightly decomposed.
								(13, 20, 26, 37, 40, 53) N = 156	48 33.00 33.10 49 33.40 33.45				V	Extremely weak, strong brown (7.5YR 5/6), completely decomposed fine grained GRANITE. (Very dense, silty SAND with much subangular fine gravel)
			70					(50/30mm 120/70mm) 200bls/70mm	50 35.00 35.05 35.10	-19.76	35.00		V	Extremely weak, pale red (10R 7/4), completely decomposed fine grained GRANITE. (Very dense, silty SAND with much subangular fine to medium gravel)
								(50/70mm 125/75mm, 75/35mm) 200bls/110mm	51 37.00 37.13 37.18 37.30	-21.76	37.00		IV	Weak, yellowish red (5YR 5/8), highly decomposed medium grained GRANITE. (Angular fine to medium GRAVEL in a matrix of sand)
			80	93	50	0	13.3		T2-101	-22.06	37.30		IV	Moderately weak, yellowish brown, highly decomposed fine grained GRANITE. Joints are closely spaced, rough planar and undulating, extremely narrow, iron oxide stained, dipping at 0°-10° and 20°-30°.
										-22.29	37.53			37.53- 37.60m: Medium grained GRANITE.
			70					(50/60mm 200/50mm) 200bls/50mm	52 39.00 39.06 39.11	-24.76	40.00		V	Extremely weak, reddish brown (5YR 4/4), completely decomposed fine grained GRANITE. (Very dense, SAND with much angular to subangular fine to medium gravel)

- Small Disturbed Sample
- ↑ Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- U100 Undisturbed Sample
- ▤ Mazier Sample
- Piston Sample
- ▲ Water Sample
- ↓ Standard Penetration Test
- ↑ Permeability Test
- Impression Packer Test
- Borehole Televier Test
- Pressuremeter Test
- Standpipe Tip
- ▲ Piezometer Tip
- ∨ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
30/08/2019

CHECKED BY
PETER CHU

DATE
31/08/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH16

SHEET 5 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. D60

E 837 241.91

DATE from 17/08/2019 to 29/08/2019

N 815 270.97

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.24 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
27/08/2019 28/08/2019	6.60m at 18:00 9.21m at 08:00	70						(50/45mm 200/55mm) 200b/s/55mm	53 41.00 41.05 41.10					As Sheet 4 of 6.
								(13, 37/25mm 133, 67/15mm) 200b/s/90mm	54 43.00 43.14 43.19	-27.76	43.00			Extremely weak, light reddish brown (5YR 6/4), completely decomposed fine grained GRANITE. (Very dense, SAND with much angular to subangular fine to medium gravel)
	46.10 HW							(50/50mm 95, 105/45mm) 200b/s/120mm	55 45.00 45.12 45.17					
							NI 7.4			46.10	-30.86	46.10		Moderately strong, pinkish grey spotted yellowish brown and white, moderately decomposed medium grained GRANITE. Joints are very closely to closely locally medium spaced, rough planar and undulating, extremely narrow, iron oxide stained, dipping at 0°-10° and 60°-70°.
				96	91	91	1.9		T2-101				III	47.78- 47.83m: PEGMATITE.
				80			>20			47.56	-32.54 -32.59	47.78 47.83		
				86	75	62	5.7		T2-101		-33.28	48.52		48.52- 48.82m: Moderately weak, highly decomposed.
							NI				-33.58 -33.65	48.82 48.89	IV III	
				100	100	100	1.9		T2-101		49.02	-33.78 49.02	II	48.89- 49.02m: Strong, slightly decomposed.
											-34.76	50.00	II	Moderately strong, red dappled yellowish brown spotted black and white, moderately decomposed medium grained GRANITE. Joints medium locally very closely to closely spaced, smooth planar and

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
30/08/2019

CHECKED BY
PETER CHU

DATE
31/08/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH16**

SHEET **6** of **6**

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD **ROTARY CORED**

CO-ORDINATES

W.O. No. **ASD 012516**

MACHINE / No. **D60**

E 837 241.91

DATE from **17/08/2019** to **29/08/2019**

N 815 270.97

FLUSHING MEDIUM **WATER**

ORIENTATION **Vertical**

GROUND LEVEL **+15.24 mP.D.**

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				100	100	100			T2-101	-35.09	50.33	++	II	undulating, extremely narrow to tight, iron oxide stained, kaolin and chlorite coated (<2mm), dipping at 0°-10°, 10°-20°, 20°-30° and 70°-80°.
									50.52			++	III	49.02- 50.33m: Strong, slightly decomposed.
				100	100	100	1.9		T2-101	-36.12	51.36	++		
										-36.20	51.44	++		
										-36.28	51.52	++	II	51.36- 51.93m: Strong, slightly decomposed.
										-36.69	51.93	++		51.44- 51.52m: PEGMATITE.
			80				13.2		52.02			++		
				100	94	71	6.0		T2-101			++	III	
									53.43			++		
										-38.37	53.61	++		
										-38.83	54.07	++	II	53.61- 54.07m: Strong, slightly decomposed.
				100	100	95	0.8		T2-101	-39.13	54.37	++	III	
										-39.31	54.55	++	II	
28/08/2019		7.95m at 18:00							54.65	-39.41	54.65	++	III	54.37- 54.55m: Strong, slightly decomposed.
														End of drillhole at 54.65m.

- Small Disturbed Sample
- ↑ Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- U100 Undisturbed Sample
- ▤ Mazier Sample
- ▩ Piston Sample
- ▲ Water Sample
- ↓ Standard Penetration Test
- ↑ Permeability Test
- ⊥ Impression Packer Test
- ⋮ Borehole Televiwer Test
- ⊥ Pressuremeter Test
- ⊥ Standpipe Tip
- ⊥ Piezometer Tip
- ✓ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
30/08/2019

CHECKED BY
PETER CHU

DATE
31/08/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH17

SHEET 1 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. DR60

E 837 251.66

DATE from 29/08/2019 to 05/09/2019

N 815 279.53

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.29 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
29/08/2019	HW	Dry at 08:00												Grey (N5), angular coarse GRAVEL sized concrete fragments. (FILL)
29/08/2019		Dry at 08:00												Grey (N5), angular COBBLE sized concrete fragments with iron. (FILL)
30/08/2019			80	98										Grey (N5), angular BOULDER sized concrete fragments with iron. (FILL)
				92										Firm, red (2.5YR 5/8), sandy clayey SILT with some subangular fine to medium gravel sized moderately weak granite and quartz. (FILL)
								(1, 2, 2, 2, 1, 2) N=7	1 0.45 2 0.50	+14.79	0.50			
									T6-131					
									1.80	+13.49	1.80			
									T6-131					
									2.30	+12.99	2.30			
									2.50 2.60					
									1 2.90 2 2.95 3 3.00					
									3 4.00 4 4.10					
									4.50 4.60					
									5 4.90 6 4.95 7 5.00					
									8 6.00 9 6.10					
									6.50 6.60					
									9 6.90 10 6.95 11 7.00					
									12 8.00 13 8.10					
									8.50 8.60					
									13 8.80 14 8.85 15 9.00	+6.29	9.00			Stiff, strong brown (7.5YR 4/6), sandy clayey SILT. (FILL)
										+5.29	10.00			

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televier Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
05/09/2019

CHECKED BY
PETER CHU

DATE
06/09/2019

REMARKS

1. Inspection pit excavated from 0.00m-0.50m.
2. A piezometer tip was installed at 15.00m depth.
3. A standpipe was installed to 12.50m depth.



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH17

SHEET 2 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. DR60

E 837 251.66

DATE from 29/08/2019 to 05/09/2019

N 815 279.53

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.29 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
									16 10.00 10.10					As Sheet 1 of 6.
								(4, 4, 3, 4, 5, 4) N = 16	17 10.50 10.60 18 10.90 10.95 11.00	+4.79	10.50			Extremely weak, reddish yellow (5YR 7/8), completely decomposed medium grained GRANITE. (Very stiff, sandy clayey SILT with some subangular fine gravel of quartz)
				85					19 12.00 12.10				V	
								(3, 5, 4, 5, 6, 7) N = 22	20 12.50 12.60 21 12.90 12.95 13.00	+2.29	13.00			Extremely weak, white (5YR 8/1) dappled reddish yellow (5YR 7/8), completely decomposed fine grained GRANITE. (Dense, fine to medium SAND)
				100					22 14.00 14.10				V	
		4.58m at 18:00						(7, 5, 8, 11, 15, 15) N = 49	23 14.50 14.60 24 14.90 14.95 15.00	+0.29	15.00			Extremely weak, yellowish red (5YR 5/8), completely decomposed medium grained GRANITE. (Dense to very dense, clayey silty SAND with some subangular fine gravel)
30/08/2019 02/09/2019		8.50m at 08:00	70						25 16.00 16.10				V	
				95					26 16.50 16.60					
		4.85m at 18:00						(5, 8, 8, 10, 9, 12) N = 39	27 16.90 16.95 17.00				V	
02/09/2019 03/09/2019		8.60m at 08:00							28 18.00 18.10					
				90					29 18.50 18.60					
								(7, 9, 12, 13, 12, 14) N = 51	30 18.90 18.95 19.00	-3.71	19.00			Extremely weak, red (10R 4/8), completely decomposed medium grained GRANITE. (Very dense, silty SAND with much subangular fine gravel)
				95					31 19.00				V	
									32 19.50 19.60					
									33 19.80 19.90					
									34 19.90					
									35 20.00	-4.71	20.00			

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
05/09/2019

CHECKED BY
PETER CHU

DATE
06/09/2019


REMARKS

<div style="display: inline-block; vertical-align: middle;"> 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small> </div>		DRILLHOLE RECORD		DRILLHOLE No. BH17	
		CONTRACT No. TC G518		SHEET 3 of 6	
PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)					
METHOD ROTARY CORED		CO-ORDINATES E 837 251.66 N 815 279.53		W.O. No. ASD 012516	
MACHINE / No. DR60				DATE from 29/08/2019 to 05/09/2019	
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.29 mP.D.	

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(10, 8, 13, 16, 17, 23) N = 69	36 20.00 20.10 20.50 20.60 37 20.90 20.95 38 20.90 20.95				V	As Sheet 2 of 6.
								(11, 15, 27, 38, 42, 57) N = 164	39 22.50 22.60 40 22.90 22.95	-7.21	22.50			Extremely weak, yellowish red (5YR 5/6), completely decomposed fine grained GRANITE. (Very dense, fine to medium SAND)
			70					(11, 18, 27, 35, 40, 46) N = 148	41 24.50 24.60 42 24.90 24.95				V	
								(11, 16, 20, 29, 39, 44) N = 131	43 26.50 26.60 44 26.90 26.95					
								(12, 19, 25, 29, 39, 42) N = 135	45 28.50 28.60 46 28.90 28.95					
										-14.71	30.00			

<ul style="list-style-type: none"> ● Small Disturbed Sample ┆ Large Disturbed Sample □ SPT Liner Sample ▨ U76 Undisturbed Sample ▩ U100 Undisturbed Sample ▧ Mazier Sample ▦ Piston Sample ▲ Water Sample 	<ul style="list-style-type: none"> ┆ Standard Penetration Test ┆ Permeability Test ┆ Impression Packer Test ┆ Borehole Televier Test ┆ Pressuremeter Test ┆ Standpipe Tip ┆ Piezometer Tip ┆ In-situ Vane Shear Test 	LOGGED BY CALVIN TSANG DATE 05/09/2019 CHECKED BY PETER CHU DATE 06/09/2019
---	--	--

REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>		DRILLHOLE RECORD CONTRACT No. TC G518		DRILLHOLE No. BH17											
SHEET 4 of 6															
PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)															
METHOD ROTARY CORED		CO-ORDINATES		W.O. No. ASD 012516											
MACHINE / No. DR60		E 837 251.66 N 815 279.53		DATE from 29/08/2019 to 05/09/2019											
FLUSHING MEDIUM WATER		ORIENTATION Vertical		GROUND LEVEL +15.29 mP.D.											
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description	
			70					(13, 18, 22, 29, 40, 48) N = 139	30.50 30.60 47 30.90 30.95 48				V	As Sheet 3 of 6.	
								(15, 25, 32, 40, 51, 59) N = 182	32.50 32.60 49 32.90 32.95 50						
								(18, 0, 36, 50, 71, 43/15mm) 200bls/240mm	34.50 34.54 51 34.84 34.89 52	-19.21	34.50		V	Extremely weak, light red (2.5YR 7/6), completely decomposed medium grained GRANITE. (Very dense, silty SAND with much subangular fine gravel)	
								(12, 33, 58, 72, 70/30mm) 200bls/180mm	36.50 36.78 36.83 53 54				V		
				80	94	90	90	1.0	T2-101	38.38			+	II	Strong, pinkish grey, slightly decomposed medium grained GRANITE. Joints are widely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10° and 20°-30°.
		5.00m at 18:00	70					(12, 20, 23, 39, 42, 48) N = 152	39.43 39.50 39.60 55 39.90 56	-24.14	39.43		V	Extremely weak, reddish yellow (5YR 7/8), completely decomposed medium grained GRANITE. (Very dense, silty SAND with much subangular fine gravel)	
03/09/2019															
• Small Disturbed Sample — Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample ▲ Water Sample								Standard Penetration Test Permeability Test Impression Packer Test Borehole Televier Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test		LOGGED BY CALVIN TSANG DATE 05/09/2019 CHECKED BY PETER CHU DATE 06/09/2019		REMARKS			

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH17

SHEET 5 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. DR60

E 837 251.66

DATE from 29/08/2019 to 05/09/2019

N 815 279.53

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.29 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
04/09/2019		8.50m at 08:00								39.95				As Sheet 4 of 6.
								(22, 28/35mm 89, 111/65mm) 200bls/140mm	<div><div></div>57 41.50 58 41.70 41.75</div>				V	
			70					(50/70mm 127/75mm, 76/25mm) 203bls/100mm	<div>59 43.50 43.56 43.61</div>	-28.21	43.50		V	Extremely weak, pinkish grey (5YR 6/2), completely decomposed medium grained GRANITE. (Very dense, SAND with much subangular fine gravel)
	47.80 HW							(50/60mm 200/50mm) 200bls/50mm	<div>60 45.50 45.56 45.61</div>				V	
								(50/40mm 200/60mm) 200bls/60mm	<div>61 47.50 47.55 47.60 47.80</div>	-32.51	47.80		III	Moderately strong, pinkish grey dappled yellowish brown, moderately decomposed medium grained GRANITE. Joints are closely to medium locally very closely spaced, rough and smooth planar, extremely narrow, iron and manganese oxide stained, chlorite coated, dipping at 0°-10°, 10°-20°, 60°-70° and 70°-80°.
			80	99	96	88	NI	T2-101		-33.35	48.64	+	IV	
							4.6			-33.38	48.67	+		
				100	100	100		T2-101	49.17			+	III	
							2.1			-34.48	49.77	+		
										-34.71	50.00	+	II	48.64- 48.67m: Moderately weak, highly decomposed.
<div><div><div>•</div><div>↑</div><div>□</div><div>▨</div><div>■</div><div>▤</div><div>◻</div><div>▲</div></div><div><div>Standard Penetration Test</div><div>Permeability Test</div><div>Impression Packer Test</div><div>Borehole Televiever Test</div><div>Pressuremeter Test</div><div>Standpipe Tip</div><div>Piezometer Tip</div><div>In-situ Vane Shear Test</div></div></div>									LOGGED BY CALVIN TSANG DATE 05/09/2019 CHECKED BY PETER CHU DATE 06/09/2019			REMARKS		



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH17**

SHEET **6** of **6**

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. DR60

E 837 251.66

DATE from 29/08/2019 to 05/09/2019

N 815 279.53

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.29 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				100	100	100	6.3		T2-101			++	II	49.77- 50.62m: Strong, slightly decomposed.
									50.65	-35.33	50.62	++	III	
							18.1		T2-101	-35.88	51.17	++	II	51.17- 51.37m: Strong, slightly decomposed.
				99	95	59				-36.08	51.37	++	III	
							3.1			-36.34	51.63	++		51.63- 53.32m: Strong, slightly decomposed.
									52.15	-36.54	51.83	++		51.63- 51.83m: Fine grained GRANITE with pegmatite vein.
				99	91	50	>20		T2-101			++	II	
							8.9					++		
04/09/2019									53.32	-38.03	53.32	++		End of drillhole at 53.32m.

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- ▩ U100 Undisturbed Sample
- ▧ Mazier Sample
- ▦ Piston Sample
- ▲ Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
05/09/2019

CHECKED BY
PETER CHU

DATE
06/09/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH18

SHEET 1 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. D60

E 837 261.39

DATE from 29/08/2019 to 11/09/2019

N 815 291.46

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.25 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
29/08/2019	HW	Dry at 08:00								+15.05	0.20			CONCRETE.
		Dry at 18:00												Yellowish brown (5YR 5/6), sandy clayey SILT with much subangular fine gravel sized moderately weak granite and quartz. (FILL)
29/08/2019										+14.05	1.20			Light red (10R 7/6) and grey (N7), angular COBBLE and occasional gravel sized concrete fragments. (FILL)
06/09/2019		Dry at 08:00	80	57						+13.70	1.55			Firm, yellowish brown (5YR 5/6), sandy clayey SILT with much subangular fine gravel sized moderately weak granite and quartz. (FILL)
								(1, 2, 1, 2, 2, 3) N=8	1 0.65 2 0.70					
									3 1.15 4 1.20					
									5 1.55					
									6 2.00 7 2.10					
									8 2.40 9 2.45 10 2.50					
									11 3.50 12 3.60					
									13 4.00 14 4.10					
									15 4.40 16 4.45 17 4.50					
									18 5.50 19 5.60					
									20 6.00 21 6.10					
									22 6.40 23 6.45 24 6.50	+8.75	6.50			Firm, yellowish red (5YR 5/6) to reddish yellow (5YR 7/8), sandy clayey SILT. (FILL)
									25 7.50 26 7.60					
									27 8.00 28 8.10					
									29 8.40 30 8.45 31 8.50	+6.75	8.50			Extremely weak, red (10R 5/8), completely decomposed medium grained GRANITE. (Medium dense, clayey silty SAND)
									32 9.50 33 9.60					
										+5.25	10.00			

● Small Disturbed Sample

⬆ Large Disturbed Sample

▨ SPT Liner Sample

▨ U76 Undisturbed Sample

▨ U100 Undisturbed Sample

▨ Mazier Sample

▨ Piston Sample

▲ Water Sample

⬆ Standard Penetration Test

⬆ Permeability Test

⬆ Impression Packer Test

⬆ Borehole Televier Test

⬆ Pressuremeter Test

⬆ Standpipe Tip

⬆ Piezometer Tip

⬆ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
11/09/2019

CHECKED BY
PETER CHU

DATE
12/09/2019

REMARKS
1. Inspection pit excavated from 0.00m-1.20m.

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH18**

SHEET 2 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. D60

E 837 261.39

DATE from 29/08/2019 to 11/09/2019

N 815 291.46

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.25 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(2, 3, 4, 3, 3, 5) N = 15	<div><div></div><div>17</div><div>10.00 10.10</div></div> <div><div></div><div>18</div><div>10.40 10.45 10.50</div></div> <div><div></div><div>19</div><div></div></div> <div><div></div><div>20</div><div>11.50 11.60</div></div>	+4.75	10.50		V	As Sheet 1 of 6.
				100					<div><div></div><div>21</div><div>12.00 12.10</div></div> <div><div></div><div>22</div><div>12.40 12.45 12.50</div></div> <div><div></div><div>23</div><div></div></div> <div><div></div><div>24</div><div>13.50 13.60</div></div>					Extremely weak, yellowish red (5YR 5/8) spotted white (N8) and dark reddish brown (5YR 3/2), completely decomposed medium grained GRANITE. (Medium dense to dense, clayey silty SAND with some to much subangular fine gravel of quartz)
				95				(3, 4, 3, 4, 5, 7) N = 19	<div><div></div><div>25</div><div>14.00 14.10</div></div> <div><div></div><div>26</div><div>14.40 14.45 14.50</div></div> <div><div></div><div>27</div><div></div></div> <div><div></div><div>28</div><div>15.50 15.60</div></div>			V		
			70	95				(5, 5, 7, 10, 9, 12) N = 38	<div><div></div><div>29</div><div>16.00 16.10</div></div> <div><div></div><div>30</div><div>16.40 16.45 16.50</div></div> <div><div></div><div>31</div><div></div></div> <div><div></div><div>32</div><div>17.50 17.60</div></div>					
				95				(6, 6, 8, 11, 10, 13) N = 42	<div><div></div><div>33</div><div>18.00 18.10</div></div> <div><div></div><div>34</div><div>18.40 18.45 18.50</div></div> <div><div></div><div>35</div><div></div></div> <div><div></div><div>36</div><div>19.50 19.60</div></div>	-2.75	18.00	V	Extremely weak, yellowish red (5YR 5/8) spotted white (N8) and dark reddish brown (5YR 3/2), completely decomposed medium grained GRANITE. (Medium dense to dense, clayey silty SAND with some to much subangular fine gravel of quartz)	
				95				(6, 5, 9, 13, 13, 16) N = 51		-4.75	20.00			

●

 Small Disturbed Sample

┆

 Large Disturbed Sample

▤

 SPT Liner Sample

▨

 U76 Undisturbed Sample

■

 U100 Undisturbed Sample

▩

 Mazier Sample

▣

 Piston Sample

▲

 Water Sample

┆

 Standard Penetration Test

┆

 Permeability Test

┆

 Impression Packer Test

┆

 Borehole Televiwer Test

┆

 Pressuremeter Test

┆

 Standpipe Tip

┆

 Piezometer Tip

┆

 In-situ Vane Shear Test

LOGGED BY

 CALVIN TSANG

DATE

 11/09/2019

CHECKED BY

 PETER CHU

DATE

 12/09/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH18**

SHEET **3** of **6**

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD **ROTARY CORED**

CO-ORDINATES

W.O. No. **ASD 012516**

MACHINE / No. **D60**

E 837 261.39

DATE from **29/08/2019** to **11/09/2019**

N 815 291.46

FLUSHING MEDIUM **WATER**

ORIENTATION **Vertical**

GROUND LEVEL **+15.25 mP.D.**

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
								(7, 10, 18, 21, 26, 33) N = 98	37 20.00 38 20.10 39 20.40 40 20.45				V	As Sheet 2 of 6.
06/09/2019 07/09/2019	3.95m at 18:00 9.33m at 08:00		70					(8, 13, 18, 23, 35, 41) N = 117	39 22.00 40 22.10 41 22.40 42 22.45	-6.75	22.00		V	Extremely weak, pale red (10R 6/4), completely decomposed medium grained GRANITE. (Very dense, silty SAND with some subangular fine gravel of quartz)
								(13, 12, 19, 18, 25, 39) N = 101	41 24.00 42 24.10 43 24.40 44 24.45				V	
								(15, 18, 20, 23, 35, 44) N = 122	43 26.00 44 26.10 45 26.40 46 26.45					
				80	93	85	78	2.6	T2-101	27.45 -12.20 -27.45 -12.30 -27.55			III	Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are closely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10°.
							NI	(50/40mm 112/75mm, 88/25mm) 200bls/100mm	28.30 -12.90 -28.15 -13.05 -28.30				IV	27.45- 27.55m: Moderately strong, moderately decomposed.
				70					45 28.50 28.59 28.64				IV	28.15- 28.30m: Moderately weak, highly decomposed.
									T2-101	29.20 -13.95 -29.20 -14.45 -29.70 -14.52 -29.77 -14.75 -30.00			II	Weak, yellowish red (5YR 5/8), highly decomposed medium grained GRANITE. (Angular fine to medium GRAVEL)
				80	94	94	94	3.7					III	Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are closely spaced, rough planar, extremely narrow, iron

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
11/09/2019

CHECKED BY
PETER CHU

DATE
12/09/2019

REMARKS

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH18

SHEET 4 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No.	ASD 012516
----------	------------

MACHINE / No. D60

E 837 261.39

DATE from 29/08/2019 to 11/09/2019

N 815 291.46

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.25 mP.D.

[illegible]



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH18**

SHEET 5 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. D60

E 837 261.39

DATE from 29/08/2019 to 11/09/2019

N 815 291.46

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.25 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				93	81	70	3.1		T2-101	40.20	-25.06	40.31	II	39.73- 40.31m: Strong, slightly decomposed.
				88	62	41	8.3		T2-101	-25.48	40.73		III	39.73- 39.80m: Fine grained GRANITE.
							>20			-25.58	40.83		IV/III	40.43- 41.29m: With very closely spaced subhorizontal microfractures.
							4.4			41.15	-26.04	41.29		40.73- 40.83m: Moderately weak, highly to moderately decomposed.
				87	60	39	9.5		T2-101					
										42.65			III	
				99	97	75	7.3		T2-101					
							NI			44.15	-28.90	44.15	IV/III	44.15- 44.29m: Moderately weak, highly to moderately decomposed.
										-29.04	44.29			
				80	91	77	4.6		T2-101				III	
							16.7			45.65	-30.17	45.42	IV/III	45.42- 45.65m: Moderately weak, highly to moderately decomposed.
										-30.40	45.65			
				84	65	13	13.5		T2-101		-30.91	46.16	III	
							NI			46.40	31.04	46.26	IV	46.16- 46.26m: Moderately weak, highly decomposed.
										-31.15	46.40		III	
				100	100	89	7.2		T2-101		-31.86	47.11	III	Strong, pinkish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are closely to medium locally very closely and widely spaced, smooth planar, extremely narrow, iron oxide stained, dipping at 0°-10° and 20°-30°.
										47.23			II	46.40- 47.11m: Moderately strong, moderately decomposed.
				100	98	77	4.2		T2-101		-32.67	47.92		47.92- 49.43m: Moderately strong, moderately decomposed.
							17.1			48.88			III	
				100	97	94	7.0		T2-101		-34.18	49.43		
							1.0			49.83			II	
				100	100	83			T2-101		-34.75	50.00		

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
11/09/2019

CHECKED BY
PETER CHU

DATE
12/09/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH18**

SHEET **6** of **6**

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. D60

E 837 261.39

DATE from 29/08/2019 to 11/09/2019

N 815 291.46

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.25 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				100	100	83	1.0		T2-101	-35.14	50.39	+	II	As Sheet 5 of 6.
							12.8		50.66	-35.35	50.60	+	III	50.39- 50.60m: Moderately strong, moderately decomposed.
			80	100	99	93	1.9		T2-101			+	II	
11/09/2019		4.90m at 18:00					19.0		52.03	-36.78	52.03	+		End of drillhole at 52.03m.

- Small Disturbed Sample
- ↑ Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- U100 Undisturbed Sample
- ▤ Mazier Sample
- Piston Sample
- ▲ Water Sample
- ↓ Standard Penetration Test
- ⬆ Permeability Test
- ⬇ Impression Packer Test
- ⬇ Borehole Televiwer Test
- ⬇ Pressuremeter Test
- ⬆ Standpipe Tip
- ⬆ Piezometer Tip
- ✓ In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
11/09/2019

CHECKED BY
PETER CHU

DATE
12/09/2019

REMARKS

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH19

SHEET 1 of 5

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. CS60

E 837 267.44

DATE from 29/08/2019 to 13/09/2019

N 815 297.87

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.24 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
29/08/2019	PW	Dry at 08:00								+15.04	0.20			CONCRETE.
29/08/2019		Dry at 18:00												Red (2.5YR 4/6), sandy clayey SILT with much subangular fine to medium gravel sized moderately strong granite, quartz and brick fragments. (FILL)
06/09/2019		Dry at 08:00	80	58						+14.04	1.20			Grey (N7), angular COBBLE and some coarse gravel sized concrete fragments. (FILL)
										+13.64	1.60			Stiff, red (2.5YR 4/6), sandy clayey SILT with much subangular fine gravel sized moderately strong granite and quartz. (FILL)
			70	100				(2, 2, 2, 2, 3, 2) N = 9						
			80	88	0	0	Ni >20	(3, 3, 3, 2, 4, 4) N = 13		+11.64	3.60		III	Moderately strong, yellowish brown spotted black and white, medium grained GRANITE. Rock is generally highly fractured and non-intact.
										+11.24	4.00		V	Extremely weak, yellowish red (5YR 5/8), completely decomposed medium grained GRANITE. (Medium dense, clayey silty SAND with much angular to subangular fine gravel)
			70	95						+10.74	4.50		V	Extremely weak, yellowish red (5YR 5/8) to pale red (10R 6/4), completely decomposed medium grained GRANITE. (Medium dense, silty SAND with much angular to subangular fine to medium gravel)
								(4, 4, 4, 5, 6, 8) N = 23						
06/09/2019	7.18 PW	7.00m at 18:00		32						+8.06	7.18			
07/09/2019	HW	7.00m at 08:00												Strong, pinkish grey spotted black and white, moderately decomposed medium grained GRANITE. Joints widely locally very closely spaced, rough planar, extremely narrow, iron oxide stained, dipping at 0°-10° and 30°-40°.
			80	100	100								II	
							0.3			8.62				
				100	100	100				9.82				
										+5.24	10.00			

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample

- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televiwer Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
13/09/2019

CHECKED BY
PETER CHU

DATE
16/09/2019

REMARKS

1. Inspection pit excavated from 0.00m-1.20m.

2. A piezometer tip was installed at 33.20m depth.

3. A standpipe was installed to 15.00m depth.



DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH19

SHEET 3 of 5

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No.	ASD 012516
----------	------------

MACHINE / No. CS60

E 837 267.44

DATE from 29/08/2019 to 13/09/2019

N 815 297.87

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.24 mP.D.

[illegible]

- | | | | |
|---|-------------------------|----|---------------------------|
| ● | Small Disturbed Sample | ↓ | Standard Penetration Test |
| ↑ | Large Disturbed Sample | ↑↓ | Permeability Test |
| □ | SPT Liner Sample | ⊥ | Impression Packer Test |
| ▨ | U76 Undisturbed Sample | ⊥ | Borehole Televiwer Test |
| ■ | U100 Undisturbed Sample | ⊥ | Pressuremeter Test |
| ▤ | Mazier Sample | ⬆ | Standpipe Tip |
| ▥ | Piston Sample | ⬆ | Piezometer Tip |
| ▲ | Water Sample | ∨ | In-situ Vane Shear Test |

LOGGED BY

DATE
13/09/2019

CHECKED BY
PETER CHU

DATE
16/09/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. **BH19**

SHEET **4** of **5**

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD **ROTARY CORED**

CO-ORDINATES

W.O. No. **ASD 012516**

MACHINE / No. **CS60**

E 837 267.44

DATE from **29/08/2019** to **13/09/2019**

N 815 297.87

FLUSHING MEDIUM **WATER**

ORIENTATION **Vertical**

GROUND LEVEL **+15.24 mP.D.**

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
10/09/2019 11/09/2019	33.72 HW	8.00m at 18:00	70					(50/30mm I 200/70mm) 200bts/70mm	● 30 30.50 30.55 30.60			○ ○		

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- ▨ U76 Undisturbed Sample
- ▩ U100 Undisturbed Sample
- ▧ Mazier Sample
- ▦ Piston Sample
- ▲ Water Sample
- Standard Penetration Test
- Permeability Test
- Impression Packer Test
- Borehole Televier Test
- Pressuremeter Test
- Standpipe Tip
- Piezometer Tip
- In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
13/09/2019

CHECKED BY
PETER CHU

DATE
16/09/2019

REMARKS

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH20

SHEET 1 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. CS60

E 837 276.95

DATE from 16/08/2019 to 28/08/2019

N 815 307.73

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.25 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
16/08/2019	SW	Dry at 08:00 Dry at 18:00								+15.05	0.20			CONCRETE.
16/08/2019 22/08/2019		Dry at 08:00	80	88					<div><div>Inspection Pit</div><div>A 0.45 0.50</div><div>B 0.95 1.00</div><div>T2-101</div><div>1.50</div><div>2.00 2.10</div><div>1 2.40 2.45 2.50</div><div>2 3.50 3.60</div><div>3 4.60 4.70</div><div>4 5.00 5.10</div><div>5 5.40 5.45 5.50</div><div>6 6.50 6.60</div><div>7 7.00 7.10</div><div>8 7.40 7.45 7.50</div><div>9 8.50 8.60</div><div>10 9.00 9.10</div><div>11 9.40 9.45 9.50</div><div>12 9.90 9.95</div><div>13 10.00</div><div>14</div></div>	+14.25	1.00			Dark reddish brown (5YR 3/3), silty clayey SAND with much angular to subangular fine to coarse gravel sized moderately strong granite and brick fragments. (FILL)
		Dry at 08:00						(2, 1, 1, 1, 1, 1) N = 4		+13.75	1.50			Grey (N6), angular COBBLE sized concrete fragments. (FILL)
														Firm to stiff, yellowish red (5YR 5/8), sandy clayey SILT with much angular to subangular fine to coarse gravel sized granite, quartz, brick and tile fragments. (FILL)
22/08/2019	5.50 SW	4.60m at 18:00						(2, 2, 3, 3, 3, 3, 4) N = 13						
23/08/2019	PW	5.30m at 08:00	70	95						+9.75	5.50			Extremely weak, yellowish red (5YR 5/8) and red (10R 4/8), completely decomposed medium grained GRANITE. (Medium dense to dense, clayey silty SAND with much subangular fine gravel of quartz)
								(3, 3, 3, 3, 3, 4, 4) N = 14					V	
				100										
								(5, 6, 6, 8, 12, 15) N = 41						
				95						+5.25	10.00			
<div><div><div>● Small Disturbed Sample</div><div>↑ Large Disturbed Sample</div><div>□ SPT Liner Sample</div><div>▨ U76 Undisturbed Sample</div><div>■ U100 Undisturbed Sample</div><div>▩ Mazier Sample</div><div>□ Piston Sample</div><div>▲ Water Sample</div></div><div><div> Standard Penetration Test</div><div>⬇ Permeability Test</div><div>≡ Impression Packer Test</div><div>├ Borehole Televiever Test</div><div>└ Pressuremeter Test</div><div>⊕ Standpipe Tip</div><div>⦿ Piezometer Tip</div><div>< In-situ Vane Shear Test</div></div></div> <div>LOGGED BY CALVIN TSANG DATE 28/08/2019 CHECKED BY PETER CHU DATE 29/08/2019</div> <div>REMARKS 1. Inspection pit excavated from 0.00m-1.00m.</div>														

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH20

SHEET 2 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. CS60

E 837 276.95

DATE from 16/08/2019 to 28/08/2019

N 815 307.73

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.25 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
				95					15				V	As Sheet 1 of 6.
								(2, 8, 12, 16, 21, 28) N = 77	16 10.50 10.60	+4.25	11.00		V	Extremely weak, red (2.5YR 5/8), completely decomposed medium grained GRANITE. (Very dense, clayey silty SAND with much subangular fine gravel of quartz)
				95				17 11.00 11.10				V		
								18 11.40 11.45 11.50				V		
				100				19 12.50 12.60				V		
			70					(8, 10, 13, 29, 28, 40) N = 110	20 13.00 13.10				V	Extremely weak, yellowish red (5YR 4/6), completely decomposed medium grained GRANITE. (Clayey silty SAND with some to much subangular fine gravel of quartz)
								21 13.40 13.45 13.50				V		
				100				22 14.50 14.60				V		
								23 15.00 15.10				V		
								(10, 15, 18, 25, 35, 48) N = 126	24 15.40 15.45 15.50	-0.25	15.50		V	Extremely weak, reddish yellow (5YR 6/8), completely decomposed medium grained GRANITE. (Very dense, silty SAND with much fine gravel of quartz)
								25 16.50 16.60				V		
				100				26 17.00 17.10				V		
								27 17.40 17.45 17.50				V		
								(9, 17, 22, 31, 35, 76) N = 164	28 18.50 18.60	-1.75	17.00		V	Extremely weak, pale red (10R 6/8), completely decomposed medium grained GRANITE. (Very dense, silty SAND with much fine gravel)
								29 19.00				V		
				100				30 19.25 19.30 19.50				V		
								31 19.00				V		
23/08/2019 24/08/2019	19.00 PW HW	5.00m at 18:00 5.60m at 08:00						(17, 33, 58, 142/75mm) 200bls/150mm	32 19.00	-4.25	19.50		V	
								33 19.25 19.30 19.50				V		
				90						-4.75	20.00		V	

Small Disturbed Sample

Large Disturbed Sample

SPT Liner Sample

U76 Undisturbed Sample

U100 Undisturbed Sample

Mazier Sample

Piston Sample

Water Sample

Standard Penetration Test

Permeability Test

Impression Packer Test

Borehole Televier Test

Pressuremeter Test

Standpipe Tip

Piezometer Tip

In-situ Vane Shear Test

LOGGED BY
CALVIN TSANG

DATE
28/08/2019

CHECKED BY
PETER CHU

DATE
29/08/2019

REMARKS



泰昇地基工程有限公司
TYSAN FOUNDATION LIMITED
(泰昇集團成員 A member of Tysan Group)

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH20

SHEET 4 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. CS60

E 837 276.95

DATE from 16/08/2019 to 28/08/2019

N 815 307.73

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.25 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
			70					(50/75mm 200/75mm) 200bts/75mm	44 31.00 31.10 31.15				V	As Sheet 3 of 6.
	34.01 HW						6.1	(50/40mm 200/60mm) 200bts/60mm	45 33.00 33.05 33.10	-17.75	33.00		IV	Weak, yellowish red (5YR 5/6), highly decomposed medium grained GRANITE. (Angular fine to medium GRAVEL)
		5.00m at 18:00		100	100	97		T2-101	34.01	-18.76	34.01		II	Strong, pinkish grey to reddish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are widely locally closely spaced, rough planar and smooth undulating, extremely narrow to tight, iron and manganese oxide stained, dipping at 0°-10° and 20°-30°. 34.27- 34.37m: Moderately strong, moderately decomposed. 34.72- 35.06m: Moderately strong, moderately decomposed.
		8.50m at 08:00		100	100	100	0.3			-19.02	34.27		III	
										-19.12	34.37		II	
										-19.47	34.72		III	
										-19.81	35.06		II	
			80						35.53					Moderately strong, yellowish brown spotted black and white, moderately decomposed medium grained GRANITE. Joints are closely locally very closely and medium spaced, rough planar and smooth undulating, extremely narrow, iron and manganese oxide stained, dipping at 0°-10°, 20°-30°, 50°-60°, 60°-70° and 80°-90°. 37.95- 38.01m: Moderately weak, highly decomposed. 38.01- 38.14m: No recovery assumed to be completely decomposed GRANITE.
				100	100	100		T2-101	36.80					
				91	88	88				-22.45	37.70		III	
							NI			-22.70	37.95		IV	
							NR			-22.76	38.01		V	
							7.1		38.30	-22.89	38.14		III	Moderately strong, yellowish brown spotted black and white, moderately decomposed medium grained GRANITE. Joints are closely locally very closely and medium spaced, rough planar and smooth undulating, extremely narrow, iron and manganese oxide stained, dipping at 0°-10°, 20°-30°, 50°-60°, 60°-70° and 80°-90°. 37.95- 38.01m: Moderately weak, highly decomposed. 38.01- 38.14m: No recovery assumed to be completely decomposed GRANITE.
				56	25	25	NI			-23.11	38.36		IV	
							NR			-23.20	38.45		V	
							4.2		38.90	-23.39	38.64		IV	
							NI			-23.65	38.90		V	
				72	59	52				-24.03	39.28		III	
							NI			-24.36	39.61		IV	
							NR			-24.51	39.76		V	
										-24.75	40.60			
●	Small Disturbed Sample							Standard Penetration Test		LOGGED BY				REMARKS
┆	Large Disturbed Sample							Permeability Test		CALVIN TSANG				
□	SPT Liner Sample							Impression Packer Test		DATE				
▨	U76 Undisturbed Sample							Borehole Televier Test		28/08/2019				
▩	U100 Undisturbed Sample							Pressuremeter Test		CHECKED BY				
▧	Mazier Sample							Standpipe Tip		PETER CHU				
▤	Piston Sample							Piezometer Tip		DATE				
▲	Water Sample							In-situ Vane Shear Test		29/08/2019				

DRILLHOLE RECORD

CONTRACT No. TC G518

DRILLHOLE No. BH20

SHEET 5 of 6

PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)

METHOD ROTARY CORED

CO-ORDINATES

W.O. No. ASD 012516

MACHINE / No. CS60

E 837 276.95

DATE from 16/08/2019 to 28/08/2019

N 815 307.73

FLUSHING MEDIUM WATER

ORIENTATION Vertical

GROUND LEVEL +15.25 mP.D.

Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description				
26/08/2019 27/08/2019		7.70m at 18:00 8.50m at 08:00	80	90	83	74	15.4 NI 6.7		T2-101	40.05 -24.80 -25.22 -25.44	40.05 40.47 40.69	++ ++ ++	III	38.36- 39.28m: With very closely spaced subhorizontal microfractures.				
															38.45- 38.64m: Moderately weak, highly decomposed.			
				98	86	67	NI 7.5		T2-101	40.77 -26.53	41.78	++ ++ ++			38.64- 38.90m: No recovery assumed to be completely decomposed GRANITE.			
																39.61- 39.76m: Moderately weak, highly decomposed.		
																39.76- 40.05m: No recovery assumed to be completely decomposed GRANITE.		
																40.47- 40.69m: Strong, slightly decomposed.		
				100	100	95	2.1		T2-101	42.28 -28.64	43.89	++ ++ ++	III	41.78- 43.89m: With very closely spaced subhorizontal microfractures.				
				99	95	89	16.7 2.7		T2-101	43.79 -29.39	44.64	++ ++ ++						
				54	5	0	NI NR		T2-101	44.64 -29.86	45.11	++ ++	IV	44.64- 45.51m: Moderately weak, highly decomposed.				
				99	96	85	5.8		T2-101	45.51 -30.26	45.51	++ ++ ++	III	45.11- 45.51m: No recovery assumed to be completely decomposed GRANITE.				
				16	0	0	>20 NR		T2-101	46.68 -31.56	46.81	++ ++	V	46.81- 47.47m: No recovery assumed to be completely decomposed GRANITE.				
				100	100	99	15.4 4.0		T2-101	47.47 -32.22	47.47	++ ++ ++	III	Strong, pinkish grey to reddish grey spotted black and white, slightly decomposed medium grained GRANITE. Joints are widely to medium locally very closely to closely spaced, smooth planar, extremely narrow to tight, iron oxide stained, chlorite and kaolin coated (<2mm), dipping at 0°-10°, 10°-20°, 50°-60° and 70°-80°.				
																		47.47- 48.98m: Moderately strong, moderately decomposed.
				96	95	60	15.4 >20		T2-101	48.40 -33.73	48.98	++ ++ ++						
				100	100	100	5.8 0.6		T2-101	49.80 -34.75	50.00	++ ++	II					

- | | | | |
|---|-------------------------|---|---------------------------|
| ● | Small Disturbed Sample | ↓ | Standard Penetration Test |
| ↑ | Large Disturbed Sample | ↑ | Permeability Test |
| □ | SPT Liner Sample | — | Impression Packer Test |
| ▨ | U76 Undisturbed Sample | ⌈ | Borehole Televiwer Test |
| ■ | U100 Undisturbed Sample | ⌋ | Pressuremeter Test |
| ▤ | Mazier Sample | □ | Standpipe Tip |
| ▥ | Piston Sample | ⬆ | Piezometer Tip |
| ▲ | Water Sample | ∨ | In-situ Vane Shear Test |


LOGGED BY
CALVIN TSANG

DATE
28/08/2019

CHECKED BY
PETER CHU

DATE
29/08/2019

REMARKS

 泰昇地基工程有限公司 TYSAN FOUNDATION LIMITED <small>(泰昇集團成員 A member of Tysan Group)</small>										DRILLHOLE RECORD CONTRACT No. TC G518										DRILLHOLE No. BH20	
										SHEET		6		of		6					
PROJECT PWP Item No. 286ZX - Construction of the District Court Complex at Caroline Hill Road (Phase 1)																					
METHOD ROTARY CORED								CO-ORDINATES						W.O. No. ASD 012516							
MACHINE / No. CS60								E 837 276.95 N 815 307.73						DATE from 16/08/2019 to 28/08/2019							
FLUSHING MEDIUM WATER								ORIENTATION Vertical						GROUND LEVEL +15.25 mP.D.							
Drilling Progress	Casing depth/size	Water level (m) Shift start/end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description							
				100	100	100			T2-101	-35.63	50.88	+	II	As Sheet 5 of 6.							
			80				0.6		51.29	-36.28	51.53	+	III	50.88- 51.53m: Moderately strong, moderately decomposed.							
				100	99	91			T2-101	-36.64	51.89	+	II								
										-36.84	52.09	+	III	51.89- 52.09m: Moderately strong, moderately decomposed.							
27/08/2019		8.00m at 18:00										+	II								
									52.80	-37.55	52.80	+		End of drillhole at 52.80m.							
<div> <ul style="list-style-type: none"> Small Disturbed Sample Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample Water Sample </div> <div> <ul style="list-style-type: none"> Standard Penetration Test Permeability Test Impression Packer Test Borehole Televiwer Test Pressuremeter Test Standpipe Tip Piezometer Tip In-situ Vane Shear Test </div> <div> LOGGED BY CALVIN TSANG DATE 28/08/2019 CHECKED BY PETER CHU DATE 29/08/2019 </div> <div>REMARKS</div>																					

Appendix C

Groundwater Monitoring Record

GIU Report
No. 68445



TYSAN FOUNDATION LIMITED

Hole No. : **BH4**
 Piezometer ID. : **P**
 Standpipe ID. : **S**

Contract No. : **TC G518** Works Order No. : **ASD 012560** Date of installation : **09/10/2020**

PWP Item No. 033LJ - Construction of the District Court Complex at
 Project : **Caroline Hill Road (Phase 2)** Supervised by : **Tiger Ng**

Co-ordinates : E **837202.14** N **815235.32** Ground Level : **+15.38** mPD Date checked : **10/10/2020**

Response Zone of Piezometer : **-11.62** mPD to **-13.12** mPD Piezometer (P) Tip Level : **-12.62** mPD Checked by : **Peter Chu**

Response Zone of Standpipe : **13.88** mPD to **-10.12** mPD Standpipe (S) Tip Level : **-9.62** mPD Dip Meter ID : **TSMT-46**

Remarks :

STANDPIPE / PIEZOMETER INSTALLATION DETAILS AND GROUNDWATER MONITORING RECORDS

STANDPIPE		Reduced Level (mPD)	Depth (m)			BUCKETS (IF ANY)	
Date	Depth of G.W.L. (m)					Date Installed :	NA
10/10/2020	8.45	15.38	0.00	Ground Level		Depth (m) from :	NA
12/10/2020	8.53	15.36	0.02			Depth (m) to :	NA
14/10/2020	8.46	15.08	0.30	Concrete Surface Box		Spacing (m) :	NA
15/10/2020	8.52	15.08	0.30				
16/10/2020	8.59	13.88	1.50	Drain Pipe			
17/10/2020	8.66			Cement / Bentonite Grout			
19/10/2020	8.63			25mm dia plain PVC Pipe			
				Graded Filter			
		-9.62	25.00	Tip of Standpipe (S)			
		-10.12	25.50	Bentonite Pellets			
				25mm dia plain PVC Pipe			
				Sand Filter			
				Piezometer Tip (P)			
				Bentonite Pellets			
				Cement / Bentonite Grout			
				Base of Hole			
		-11.62	27.00				
		-12.62	28.00				
		-13.12	28.50				
		-14.12	29.50				
		-19.33	34.71				

(Not to Scale)



TYSAN FOUNDATION LIMITED

Hole No. : **BH15**

Piezometer ID. : **P**

Standpipe ID. : **S**

Contract No. : **TC G518**

Works Order No. : **ASD 012560**

Date of installation : **07/10/2020**

PWP Item No. 033LJ - Construction of the District Court Complex at
Project : **Caroline Hill Road (Phase 2)**

Supervised by : **Tiger Ng**

Co-ordinates : E **837232.62** N **8152454.72**

Ground Level : **+15.35** mPD

Date checked : **08/10/2020**

Response Zone of
Piezometer : **-22.15** mPD to **-23.65** mPD

Piezometer (P) Tip Level : **-23.15** mPD

Checked by : **Peter Chu**

Response Zone
of Standpipe : **13.85** mPD to **-10.15** mPD

Standpipe (S) Tip Level : **-9.65** mPD

Dip Meter ID : **TSMT-46**

Remarks :

STANDPIPE / PIEZOMETER INSTALLATION DETAILS AND GROUNDWATER MONITORING RECORDS

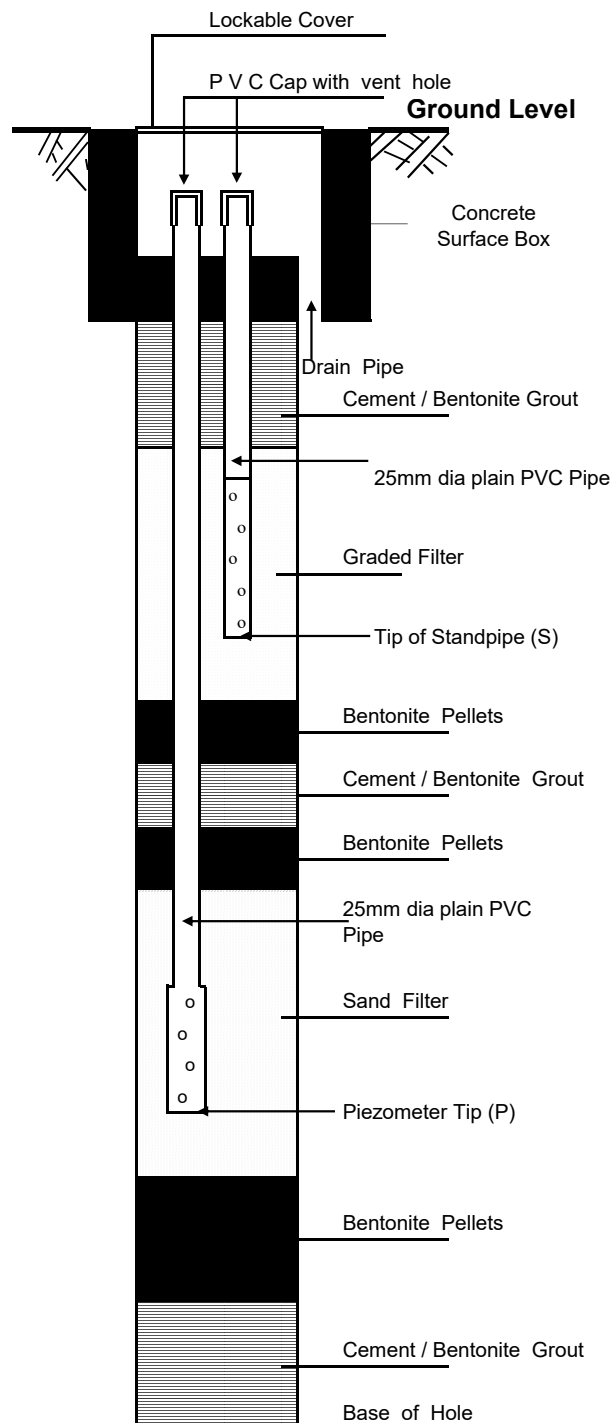
STANDPIPE

Date	Depth of G.W.L. (m)
08/10/2020	7.89
09/10/2020	7.97
10/10/2020	8.11
12/10/2020	8.21
14/10/2020	8.15
15/10/2020	8.20
16/10/2020	8.27

PIEZOMETER

Date	Depth of G.W.L. (m)
08/10/2020	7.56
09/10/2020	7.65
10/10/2020	7.69
12/10/2020	7.76
14/10/2020	7.62
15/10/2020	7.73
16/10/2020	7.80

Reduced Level (mPD)	Depth (m)
15.35	0.00
15.30	0.05
15.05	0.30
13.85	1.50
-9.65	25.00
-10.15	25.50
-11.15	26.50
-21.15	36.50
-22.15	37.50
-23.15	38.50
-23.65	39.00
-24.65	40.00
-29.43	44.78



BUCKETS (IF ANY)

Date Installed :	NA
Depth (m) from :	NA
Depth (m) to :	NA
Spacing (m) :	NA

(Not to Scale)



TYSAN FOUNDATION LIMITED

Hole No. : **BH22**

Piezometer ID. : **P**

Standpipe ID. : **S**

Contract No. : **TC G518**

Works Order No. : **ASD 012560**

Date of installation : **29/08/2020**

Project : **PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)**

Supervised by : **Tiger Ng**

Co-ordinates : E **837304.76** N **815322.02**

Ground Level : **+15.41** mPD

Date checked : **31/08/2020**

Response Zone of Piezometer : **-26.17** mPD to **-27.67** mPD

Piezometer (P) Tip Level : **-27.17** mPD

Checked by : **Peter Chu**

Response Zone of Standpipe : **13.91** mPD to **-10.09** mPD

Standpipe (S) Tip Level : **-9.59** mPD

Dip Meter ID : **TSMT-46**

Remarks :

STANDPIPE / PIEZOMETER INSTALLATION DETAILS AND GROUNDWATER MONITORING RECORDS

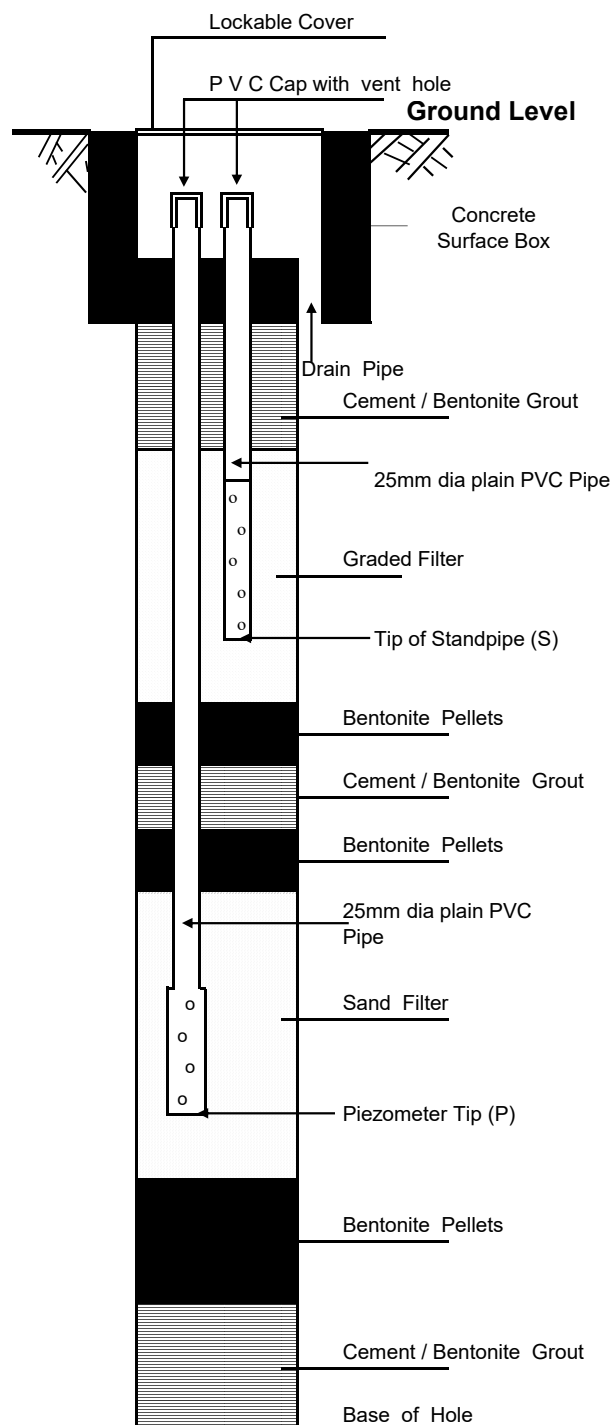
STANDPIPE

Date	Depth of G.W.L. (m)
31/08/2020	6.70
01/09/2020	6.68
02/09/2020	6.64
03/09/2020	6.67
04/09/2020	6.71
05/09/2020	6.53
07/09/2020	6.51

PIEZOMETER

Date	Depth of G.W.L. (m)
31/08/2020	6.37
01/09/2020	6.33
02/09/2020	6.41
03/09/2020	6.34
04/09/2020	6.40
05/09/2020	6.34
07/09/2020	6.30

Reduced Level (mPD)	Depth (m)
15.41	0.00
15.36	0.05
15.11	0.30
13.91	1.50
-9.59	25.00
-10.09	25.50
-11.09	26.50
-25.17	40.58
-26.17	41.58
-27.17	42.58
-27.67	43.08
-28.67	44.08
-33.57	48.98



BUCKETS (IF ANY)

Date Installed :	NA
Depth (m) from :	NA
Depth (m) to :	NA
Spacing (m) :	NA

(Not to Scale)



TYSAN FOUNDATION LIMITED

Hole No. : **BH25**
 Piezometer ID. : **P**
 Standpipe ID. : **S**

Contract No. : **TC G518** Works Order No. : **ASD 012560** Date of installation : **30/09/2020**

Project : **Caroline Hill Road (Phase 2)** Supervised by : **Tiger Ng**

Co-ordinates : E **837243.06** N **815235.85** Ground Level : **+15.33** mPD Date checked : **03/10/2020**

Response Zone of Piezometer : **-30.17** mPD to **-31.67** mPD Piezometer (P) Tip Level : **-31.17** mPD Checked by : **Peter Chu**

Response Zone of Standpipe : **13.83** mPD to **-10.17** mPD Standpipe (S) Tip Level : **-9.67** mPD Dip Meter ID : **TSMT-46**

Remarks :

STANDPIPE / PIEZOMETER INSTALLATION DETAILS AND GROUNDWATER MONITORING RECORDS

STANDPIPE		Reduced Level (mPD)	Depth (m)			BUCKETS (IF ANY)	
Date	Depth of G.W.L. (m)					Date Installed :	NA
03/10/2020	6.58	15.28	0.05	Ground Level		Depth (m) from :	NA
05/10/2020	6.56					Depth (m) to :	NA
06/10/2020	6.71	15.03	0.30	Concrete Surface Box		Spacing (m) :	NA
07/10/2020	6.82						
08/10/2020	6.89	13.83	1.50	Drain Pipe			
09/10/2020	6.94						
10/10/2020	7.06			Cement / Bentonite Grout			
				25mm dia plain PVC Pipe			
				Graded Filter			
				Tip of Standpipe (S)			
				Bentonite Pellets			
				Cement / Bentonite Grout			
				Bentonite Pellets			
				25mm dia plain PVC Pipe			
				Sand Filter			
				Piezometer Tip (P)			
				Bentonite Pellets			
				Cement / Bentonite Grout			
				Base of Hole			

(Not to Scale)



TYSAN FOUNDATION LIMITED

Hole No. : **BH28**

Piezometer ID. : **P**

Standpipe ID. : **S**

Contract No. : **TC G518**

Works Order No. : **ASD 012560**

Date of installation : **15/09/2020**

Project : **PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)**

Supervised by : **Tiger Ng**

Co-ordinates : E **837272.62** N **815269.83**

Ground Level : **+15.43** mPD

Date checked : **16/09/2020**

Response Zone of Piezometer : **-35.57** mPD to **-37.07** mPD

Piezometer (P) Tip Level : **-36.57** mPD

Checked by : **Peter Chu**

Response Zone of Standpipe : **13.93** mPD to **-10.07** mPD

Standpipe (S) Tip Level : **-9.57** mPD

Dip Meter ID : **TSMT-46**

Remarks :

STANDPIPE / PIEZOMETER INSTALLATION DETAILS AND GROUNDWATER MONITORING RECORDS

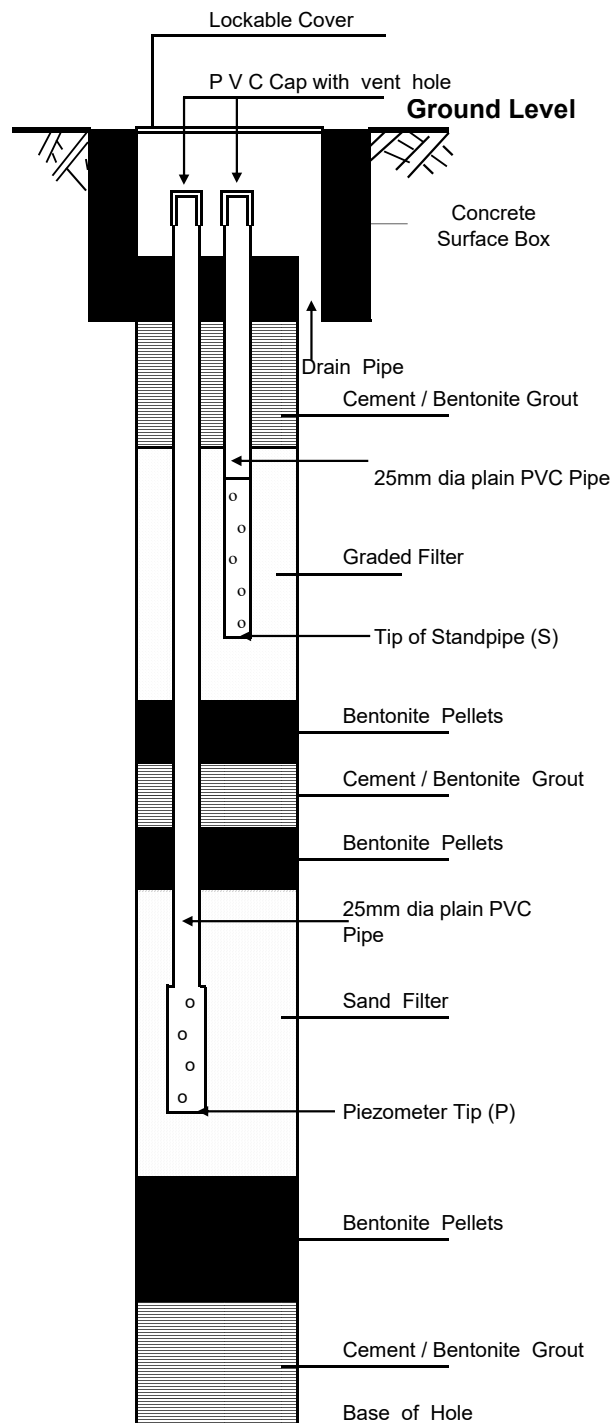
STANDPIPE

Date	Depth of G.W.L. (m)
16/09/2020	7.83
17/09/2020	7.90
18/09/2020	7.69
19/09/2020	7.62
21/09/2020	7.54
22/09/2020	7.70
23/09/2020	7.76

PIEZOMETER

Date	Depth of G.W.L. (m)
16/09/2020	3.60
17/09/2020	3.58
18/09/2020	3.54
19/09/2020	3.46
21/09/2020	3.42
22/09/2020	3.36
23/09/2020	3.54

Reduced Level (mPD)	Depth (m)
15.43	0.00
15.39	0.04
15.13	0.30
13.93	1.50
-9.57	25.00
-10.07	25.50
-11.07	26.50
-34.57	50.00
-35.57	51.00
-36.57	52.00
-37.07	52.50
-38.07	53.50
-42.77	58.20



BUCKETS (IF ANY)

Date Installed :	NA
Depth (m) from :	NA
Depth (m) to :	NA
Spacing (m) :	NA

(Not to Scale)



TYSAN FOUNDATION LIMITED

Hole No. : **BH30**
 Piezometer ID. : **P**
 Standpipe ID. : **S**

Contract No. : **TC G518** Works Order No. : **ASD 012560** Date of installation : **07/09/2020**

Project : **PWP Item No. 033LJ - Construction of the District Court Complex at Caroline Hill Road (Phase 2)** Supervised by : **Tiger Ng**

Co-ordinates : E **837293.23** N **815291.63** Ground Level : **+15.44** mPD Date checked : **08/09/2020**

Response Zone of Piezometer : **-17.56** mPD to **-19.06** mPD Piezometer (P) Tip Level : **-18.56** mPD Checked by : **Peter Chu**

Response Zone of Standpipe : **13.94** mPD to **-10.06** mPD Standpipe (S) Tip Level : **-9.56** mPD Dip Meter ID : **TSMT-46**

Remarks :

STANDPIPE / PIEZOMETER INSTALLATION DETAILS AND GROUNDWATER MONITORING RECORDS

STANDPIPE		Reduced Level (mPD)	Depth (m)			BUCKETS (IF ANY)	
Date	Depth of G.W.L. (m)					Date Installed :	NA
08/09/2020	8.84	15.44	0.00			Depth (m) from :	NA
09/09/2020	8.68	15.41	0.03			Depth (m) to :	NA
10/09/2020	8.58	15.14	0.30			Spacing (m) :	NA
11/09/2020	8.51						
12/09/2020	8.45	13.94	1.50				
14/09/2020	8.48						
15/09/2020	8.41						

PIEZOMETER		Reduced Level (mPD)	Depth (m)		
Date	Depth of G.W.L. (m)				
08/09/2020	8.75	-9.56	25.00		
09/09/2020	8.73	-10.06	25.50		
10/09/2020	8.67	-11.06	26.50		
11/09/2020	8.64	-16.56	32.00		
12/09/2020	8.61	-17.56	33.00		
14/09/2020	8.58				
15/09/2020	8.52	-18.56	34.00		
		-19.06	34.50		
		-20.06	35.50		
		-24.84	40.28		

Lockable Cover

P V C Cap with vent hole

Ground Level

Concrete Surface Box

Drain Pipe

Cement / Bentonite Grout

25mm dia plain PVC Pipe

Graded Filter

Tip of Standpipe (S)

Bentonite Pellets

Cement / Bentonite Grout

Bentonite Pellets

25mm dia plain PVC Pipe

Sand Filter

Piezometer Tip (P)


Bentonite Pellets

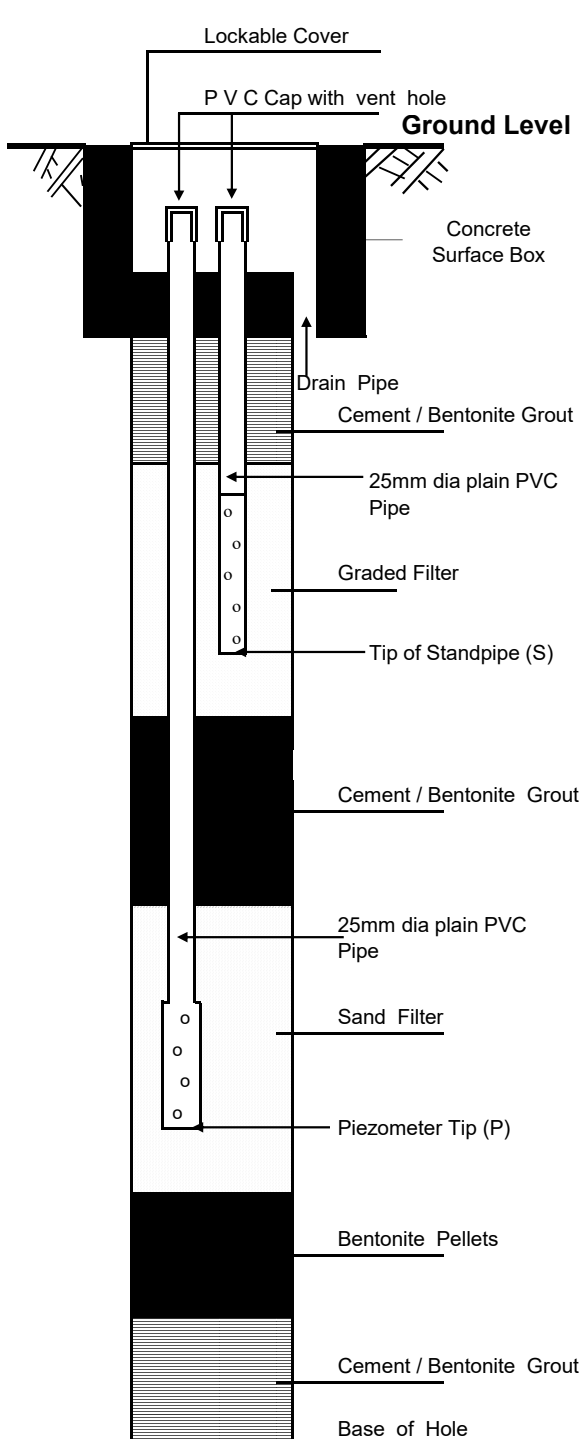
Cement / Bentonite Grout

Base of Hole

(Not to Scale)

GIU Report
No. 67763

	TYSAN FOUNDATION LIMITED		Hole No. : BH10
			Piezometer ID. : P
			Standpipe ID. : S
Contract No. : TC G518		Works Order No. : ASD 012516	Date of test : 02/09/2019
PWP Item No. 286ZX - Construction of the District Court Complex at Project : Caroline Hill Road (Phase 1)			Supervised by : Derek Wong
Co-ordinates : E 837229.63 N 815269.16		Ground Level : +15.07 mPD	Date checked : 03/09/2019
Response Zone of Piezometer : 0.87 mPD to -0.43 mPD		Piezometer (P) Tip Level : 0.07 mPD	Checked by : Peter Chu
Response Zone of Standpipe : 13.07 mPD to 2.07 mPD		Standpipe (S) Tip Level : 2.57 mPD	Dip Meter ID : TSMT-31
Remarks :			

STANDPIPE / PIEZOMETER INSTALLATION DETAILS AND GROUNDWATER MONITORING RECORDS									
STANDPIPE		Reduced Level (mPD)	Depth (m)						
Date	Depth of G.W.L. (m)								
		15.07	0.00						
03/09/2019	7.52	14.97	0.10						
04/09/2019	7.55								
05/09/2019	7.55	14.77	0.30						
06/09/2019	7.56								
08/09/2019	7.54	13.07	2.00						
09/09/2019	7.55								
10/09/2019	7.56								
PIEZOMETER		2.57	12.50						
		2.07	13.00						
03/09/2019	7.62								
04/09/2019	7.63	0.87	14.20						
05/09/2019	7.65								
06/09/2019	7.65								
08/09/2019	7.66	0.07	15.00						
09/09/2019	7.68	-0.43	15.50						
10/09/2019	7.67								
		-1.43	16.50						
		-40.00	55.07						

BUCKETS (IF ANY)

Date Installed :	
Depth (m) from :	
Depth (m) to :	
Spacing (m) :	

Lockable Cover

P V C Cap with vent hole

Ground Level

Concrete Surface Box

Drain Pipe

Cement / Bentonite Grout

25mm dia plain PVC Pipe

Graded Filter

Tip of Standpipe (S)

Cement / Bentonite Grout

25mm dia plain PVC Pipe

Sand Filter

Piezometer Tip (P)

Bentonite Pellets

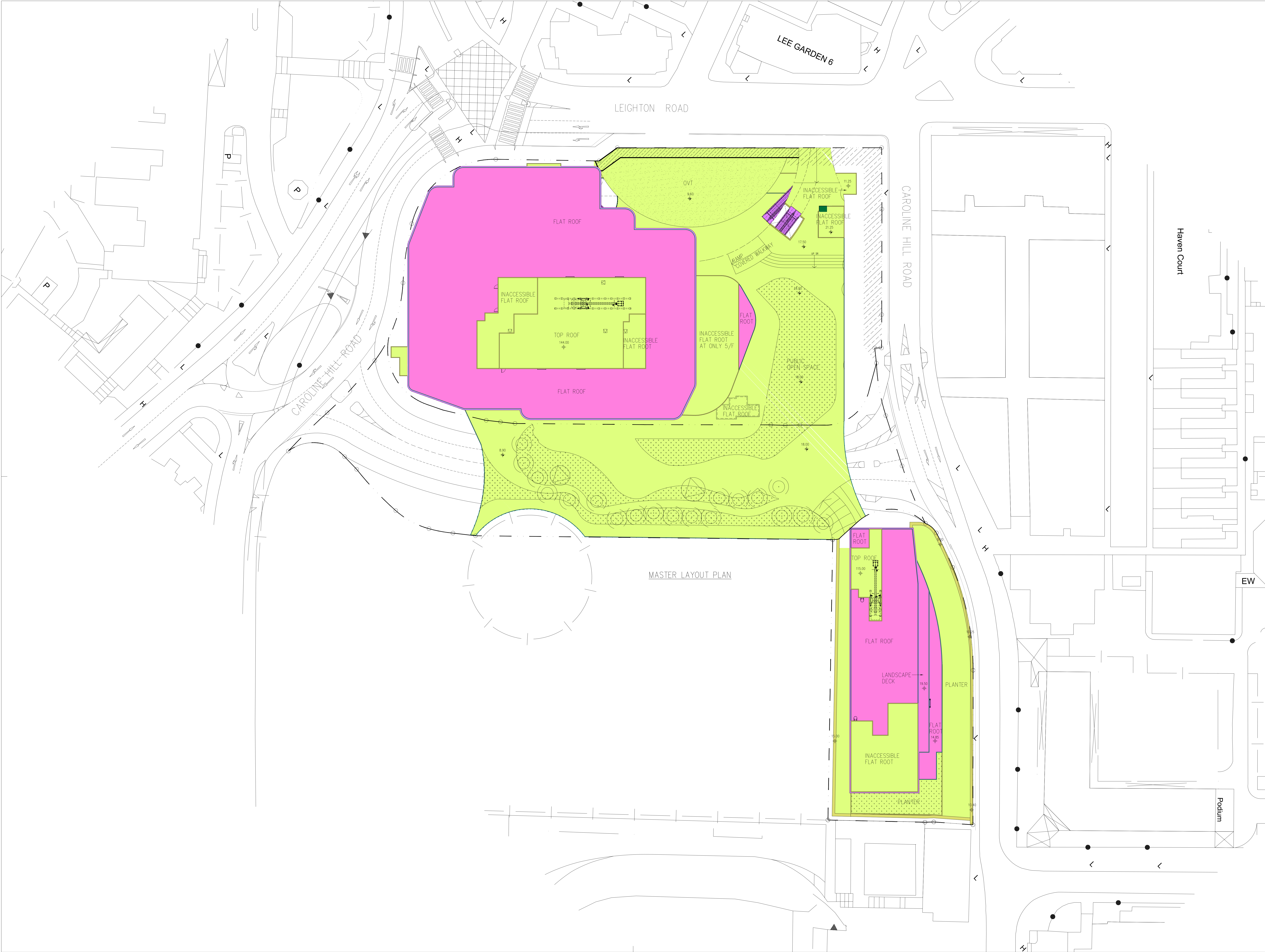
Cement / Bentonite Grout

Base of Hole

(Not to Scale)

Appendix D

Architectural Drawings



R.B. Ref :
F.S.D. Ref :
D.L.O. Ref :
Rev. Description Drawn Checked Approved Date
14680 SUBMISSION S20 JHY VML 10/11/2021

RONALD LU & PARTNERS

呂元祥建築師事務所

Check all measurements on site.
Do not scale off drawings.

This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.

This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title
PROPOSED COMMERCIAL DEVELOPMENT ON IL No. 8945 AT CAROLINE HILL ROAD CAUSEWAY BAY HONG KONG

Drawing Title
MASTER LAYOUT PLAN

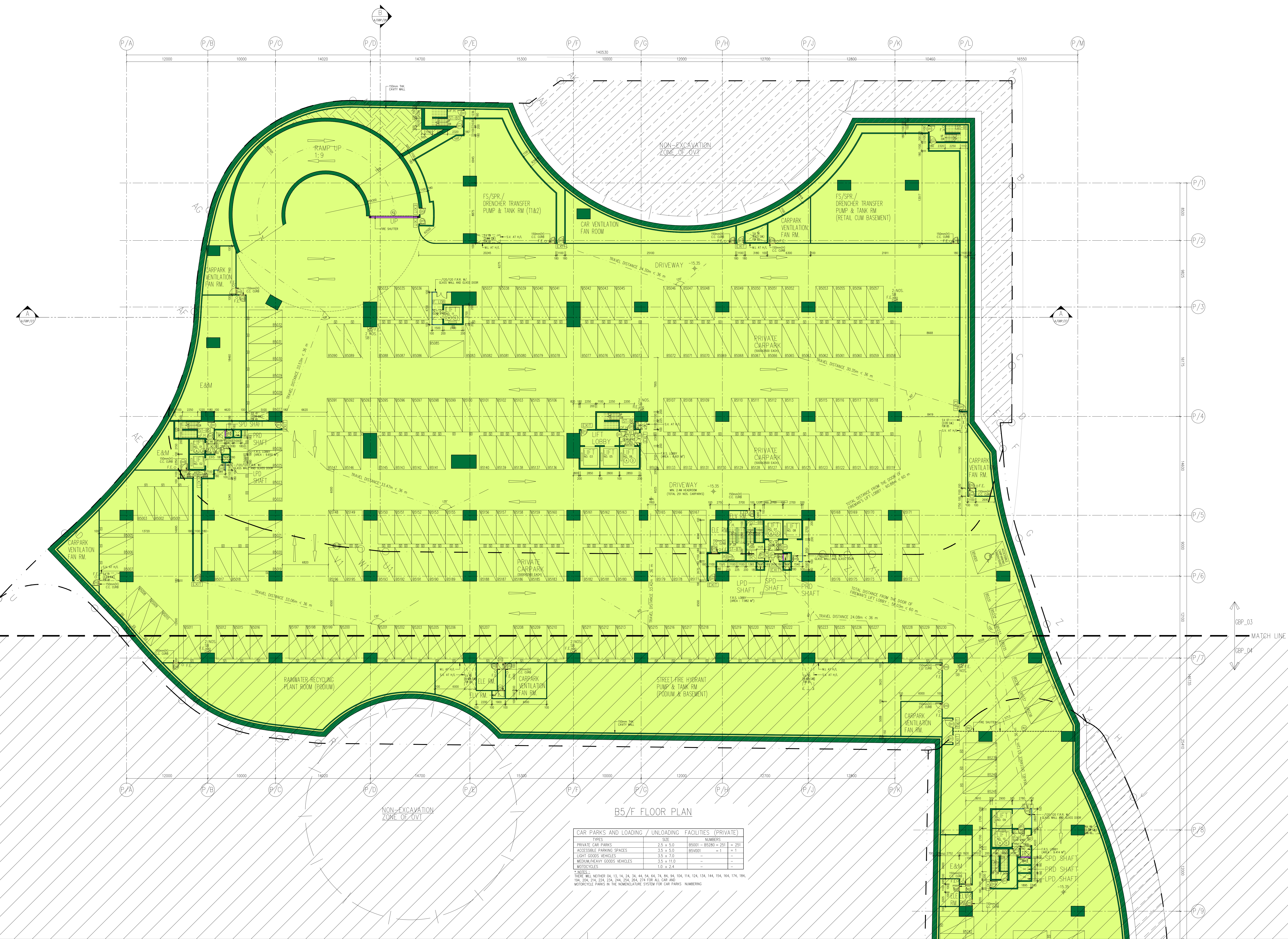
Drawn By: S20 Date: 10/11/2021
Checked By: JHY Date: 10/11/2021
Approved By: VML Date: 10/11/2021
Project No: 21105HK Issue Date: 10/11/2021

Coord File No: -
Scale: 1:300
Drawing No: A/GBP_02

AP's Signature

CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose
Buildings Department



CAR PARKS AND LOADING / UNLOADING FACILITIES (PRIVATE)			
TYPE	SIZE	NUMBERS	
PRIVATE CAR PARKS	2.5 x 5.0	B5001 - B5006	= 251
ACCESSIBLE PARKING SPACES	5.0 x 5.0	B5001	= 1
LIGHT GOODS VEHICLES	3.5 x 7.0		
MEDIUM/HEAVY GOODS VEHICLES	3.5 x 11.0		
MOTORCYCLES	1.0 x 2.4		

NOTE: THERE WILL BE NEITHER 01, 13, 14, 24, 34, 44, 54, 64, 74, 84, 94, 104, 114, 124, 134, 144, 154, 164, 174, 184, 194, 204, 214, 224, 234, 244, 254, 264, 274, 284, 294 FOR ALL CAR AND MOTORCYCLE PARKS IN THE NOMENCLATURE SYSTEM FOR CAR PARKS NUMBERING.

R.D. Ref. :			
F.S.D. Ref. :			
D.L.D. Ref. :			
Rev.	Description	Drawn	Checked
1	1st SUBMISSION	S20	JHY



呂元祥建築師事務所

Check of measurements on site.
Do not scale off drawings.
This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.
This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title
PROPOSED COMMERCIAL DEVELOPMENT ON IL No. 8945 AT CAROLINE HILL ROAD CAUSEWAY BAY HONG KONG

Drawing Title
BASEMENT 5 FLOOR PLAN(1)

Drawn By:	S20	Date:	10/11/2021
Checked By:	JHY	Date:	10/11/2021
Approved By:	VNL	Date:	10/11/2021
Project No:	21105HK	Issue Date:	10/11/2021

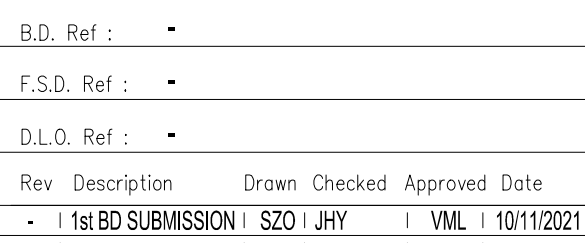
Scale
1:200
Drawing No.
A/GBP_03

AP's Signature

Authorised Person (Architect)
CHEUNG Man-Ching, Anthony

Drawing Purpose

Buildings Department



Check all measurements on site.
Do not scale off drawings.

This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.

This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title
PROPOSED COMMERCIAL
DEVELOPMENT ON IL No. 8945
AT CAROLINE HILL ROAD
CAUSEWAY BAY HONG KONG

Drawing Title
BASEMENT 4 FLOOR PLAN(1)

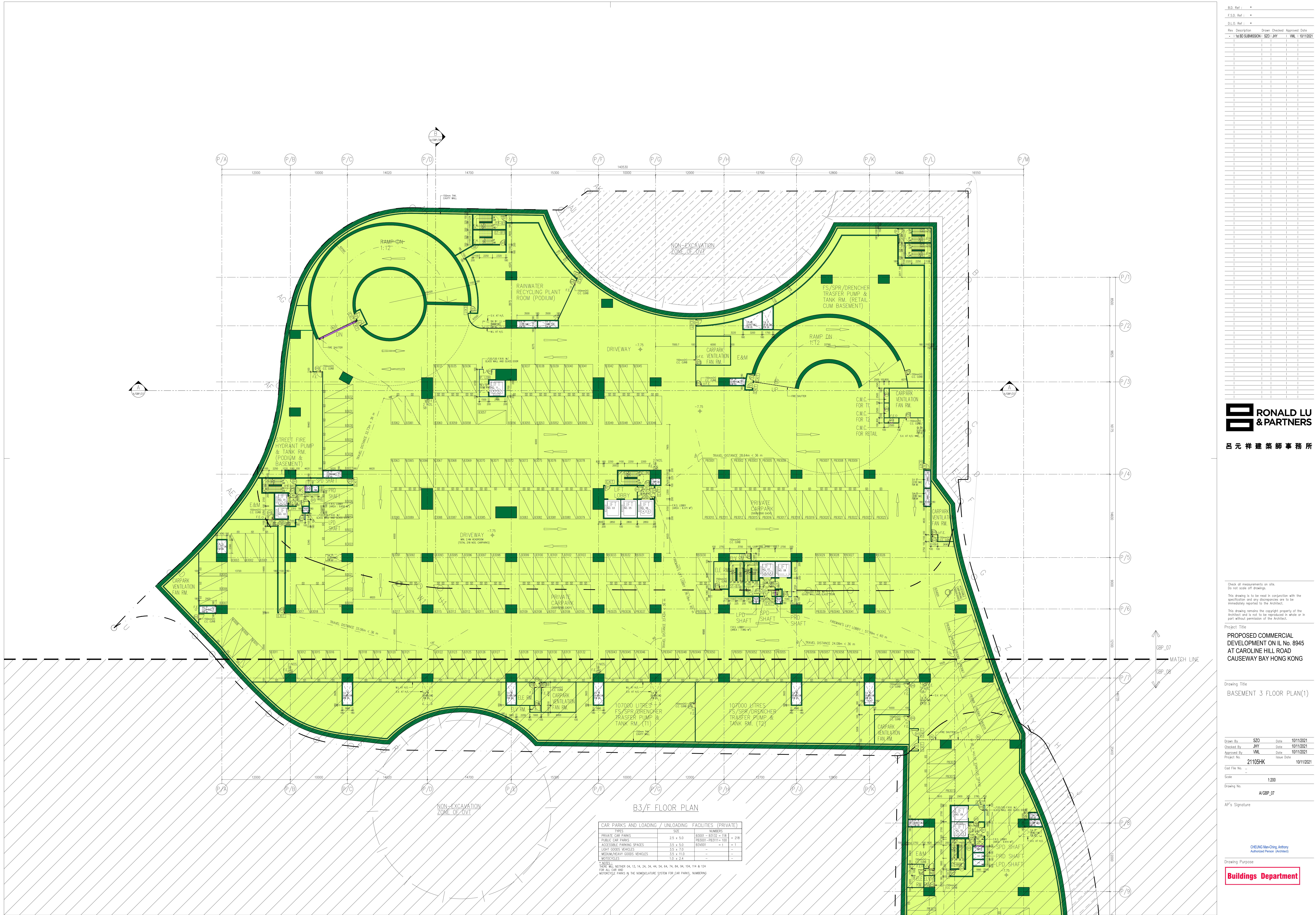
Drawn By	SZO	Date	10/11/2021
Checked By	JHY	Date	10/11/2021
Approved By	VML	Date	10/11/2021
Project No.	21105HK	Issue	Date
Cad File No.	--		10/11/2021
Scale	1:200		
Drawing No.	A/GBP 05		

AP's Signature

CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose

Buildings Department



CAR PARKS AND LOADING / UNLOADING FACILITIES (PRIVATE)			
TYPE	SIZE	NUMBERS	
PRIVATE CAR PARKS		B3001 - B3032 = 118	218
PUBLIC CAR PARKS	2.5 x 6.0	PB3001 - PB3111 = 100	1
ACCESSIBLE PARKING SPACES	3.5 x 6.0	B3001	1
LIGHT GOODS VEHICLES	3.5 x 7.0		-
MEDIUM/HEAVY GOODS VEHICLES	3.5 x 11.0		-
MOTORCYCLES	1.0 x 2.4		-

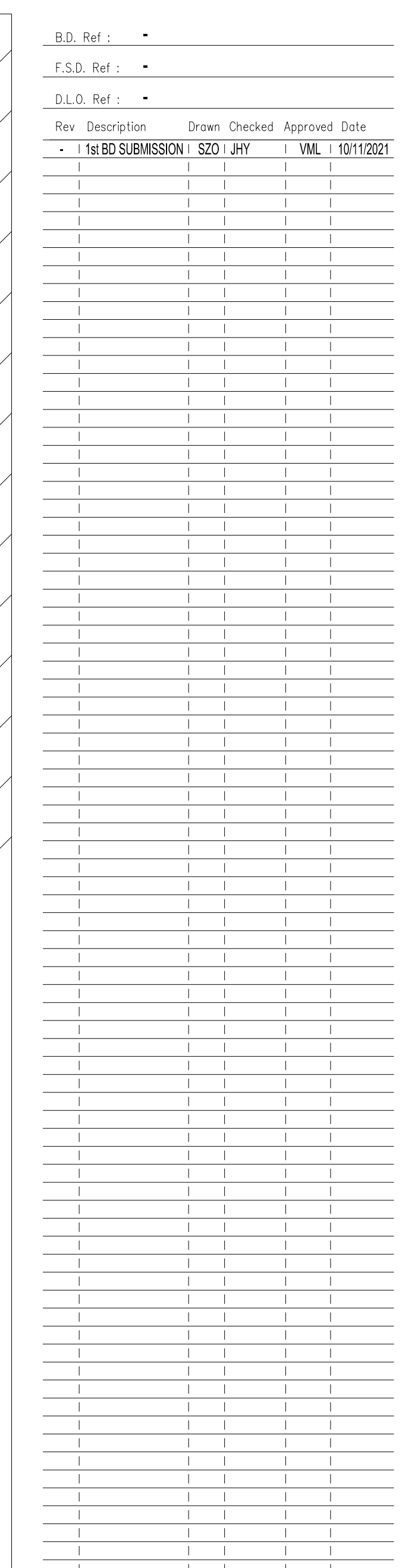
1. MOBS: 107000 LITRES FS/SPR/DRENCHER TRANSFER PUMP & TANK RM. (T1)
107000 LITRES FS/SPR/DRENCHER TRANSFER PUMP & TANK RM. (T2)
107000 LITRES FS/SPR/DRENCHER TRANSFER PUMP & TANK RM. (T3)
FOR ALL CAR AND MOTORCYCLE PARKS IN THE NOMENCLATURE SYSTEM FOR CAR PARKS, NUMBERING

R.B. Ref :
F.S.B. Ref :
D.L.C. Ref :
Rev Description Drawn Checked Approved Date
1460 SUBMISSION S20 JHY VML 10/11/2021

RONALD LU & PARTNERS

呂元祥建築師事務所

Check of measurements on site.
Do not scale off drawings.
This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.
This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.
Project Title
PROPOSED COMMERCIAL DEVELOPMENT ON IL No. 8945 AT CAROLINE HILL ROAD CAUSEWAY BAY HONG KONG
Drawing Title
BASEMENT 3 FLOOR PLAN(1)
Drawn By: S20 Date: 10/11/2021
Checked By: JHY Date: 10/11/2021
Approved By: VML Date: 10/11/2021
Project No: 21105HK Issue Date
Cof File No: -
Scale: 1:200
Drawing No: A/GBP_07
AP's Signature
ChUNG Man-Ching Anthony
Authorized Person (Architect)
Drawing Purpose
Buildings Department



呂元祥建築師事務所

Check all measurements on site.
Do not scale off drawings.

This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.

This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title

PROPOSED COMMERCIAL
DEVELOPMENT ON IL No. 8945
AT CAROLINE HILL ROAD
CAUSEWAY BAY HONG KONG

Drawing Title
BASEMENT 3 FLOOR PLAN(2)

Drawn By	SZO	Date	10/11/2021
Checked By	JHY	Date	10/11/2021
Approved By	VML	Date	10/11/2021
Project No.	21105HK	Issue Date	10/11/2021
Cad File No.	—		

Scale 1:200

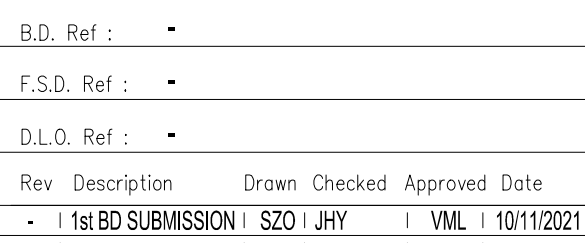
Drawing No. A/GBP_08

AP's Signature _____

CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose

Buildings Department



Check all measurements on site.
Do not scale off drawings.

This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.

This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title
PROPOSED COMMERCIAL
DEVELOPMENT ON IL No. 8945
AT CAROLINE HILL ROAD
CAUSEWAY BAY HONG KONG

Drawing Title
BASEMENT 2 FLOOR PLAN(1)

Drawn By	SZO	Date	10/11/2021
Checked By	JHY	Date	10/11/2021
Approved By	VML	Date	10/11/2021
Project No.	21105HK	Issue Date	10/11/2021

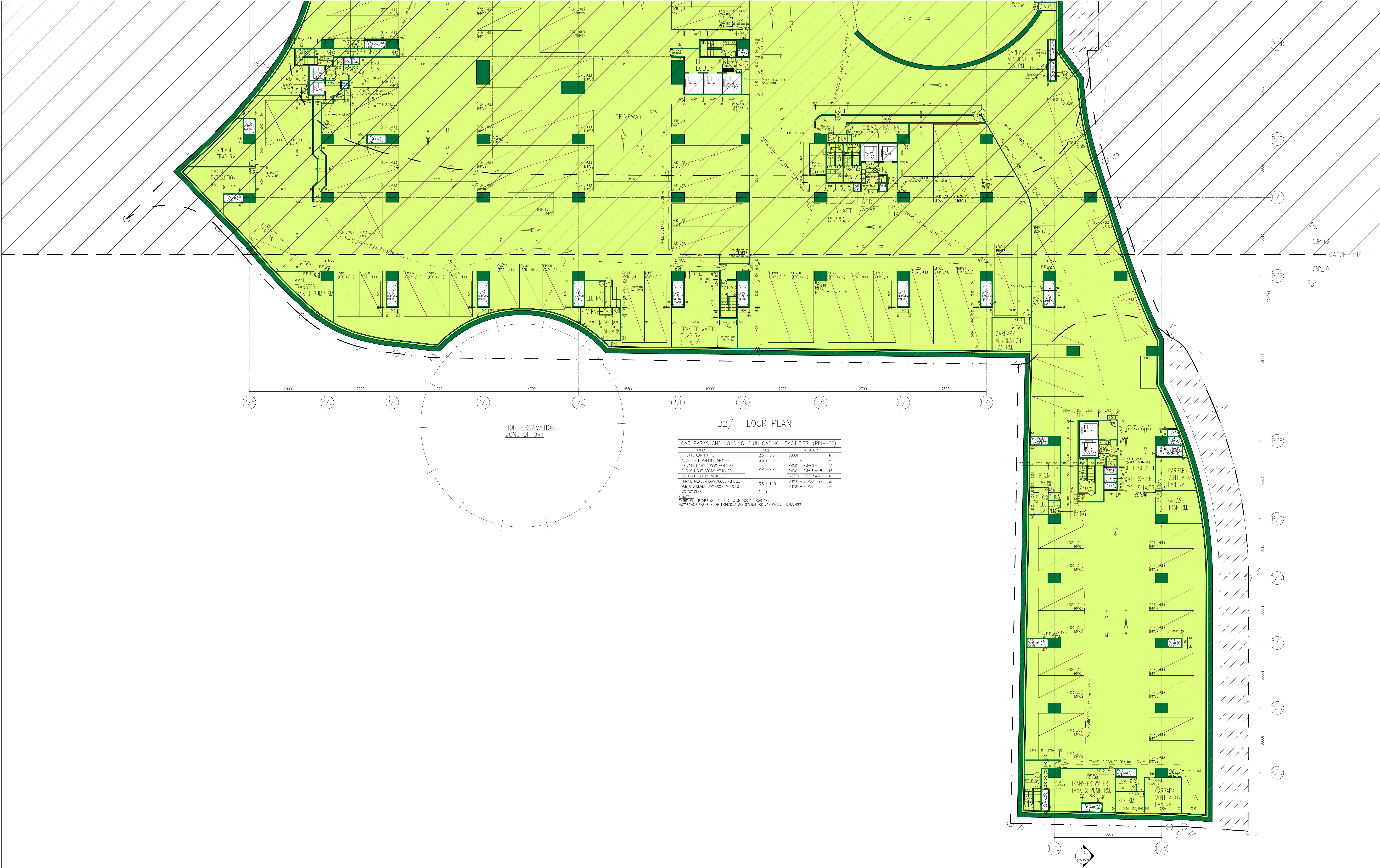
Scale	1:200
Drawing No.	

AP's Signature _____

CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose

Buildings Department



Rev			Description		Drawn	Checked	Approved	Date
1			1st SUBMISSION		SZO	JHY	VML	10/11/2021
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								
76								
77								
78								
79								
80								
81								
82								
83								
84								
85								
86								
87								
88								
89								
90								
91								
92								
93								
94								
95								
96								
97								
98								
99								
100								



呂元祥建築師事務所

Check all measurements on site.
Do not scale off drawings.
This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.
This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title
PROPOSED COMMERCIAL DEVELOPMENT ON IL No. 8945 AT CAROLINE HILL ROAD CAUSEWAY BAY HONG KONG

Drawing Title
BASEMENT 2 FLOOR PLAN(2)

Drawn By: **SZO** Date: **10/11/2021**
Checked By: **JHY** Date: **10/11/2021**
Approved By: **VML** Date: **10/11/2021**
Project No: **21105HK** Issue Date: **10/11/2021**

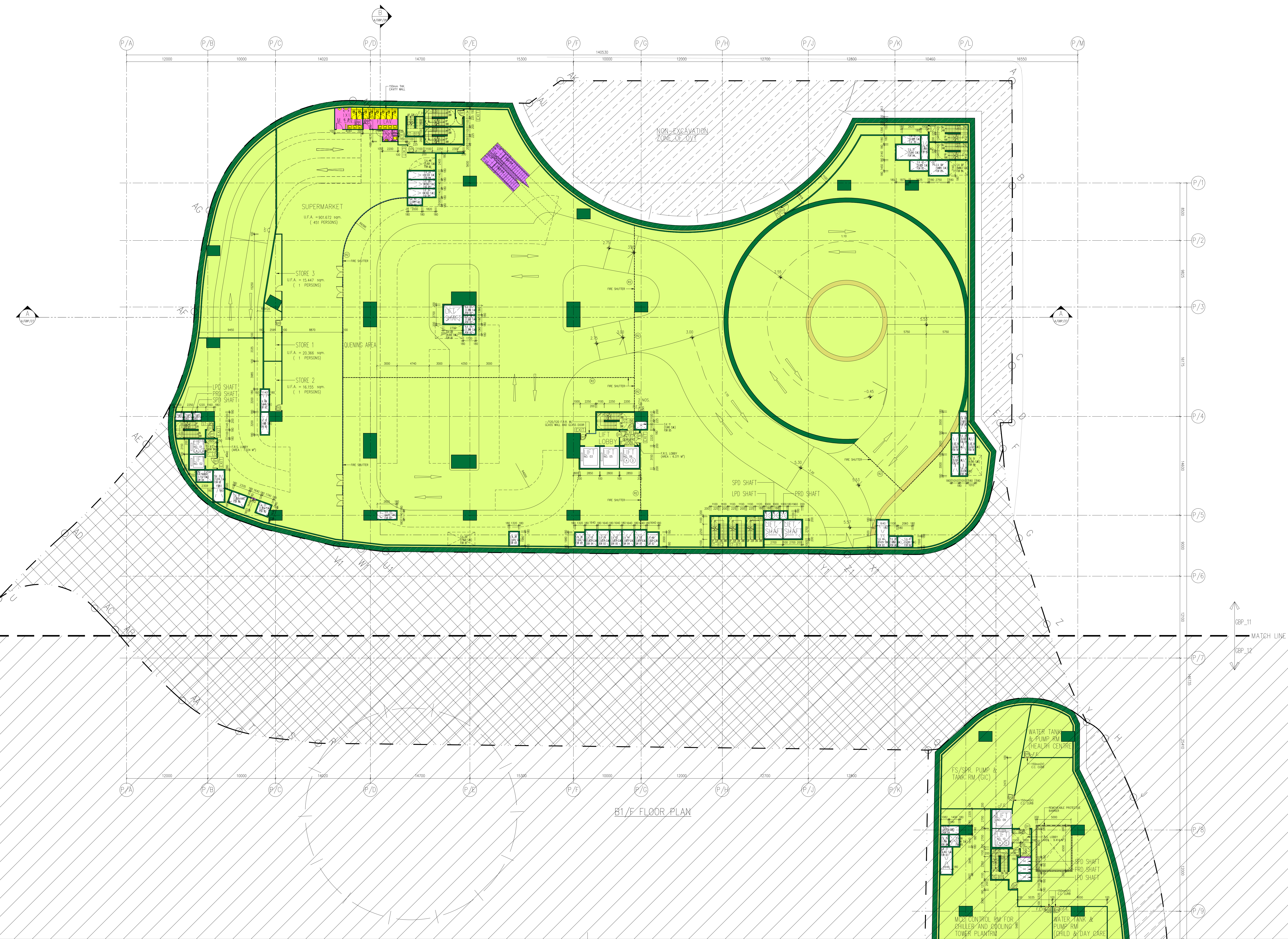
Scale: **1:200**
Drawing No: **A/GBP_10**

AP's Signature

CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose

Buildings Department



R.D. Ref. :				
F.S.D. Ref. :				
D.L.D. Ref. :				
Rev.	Description	Drawn	Checked	Approved
1	1st SUBMISSION	S20	JHY	VNL
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				



呂元祥建築師事務所

Check of measurements on site.
Do not scale off drawings.
This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.
This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title
PROPOSED COMMERCIAL DEVELOPMENT ON IL No. 8945 AT CAROLINE HILL ROAD CAUSEWAY BAY HONG KONG

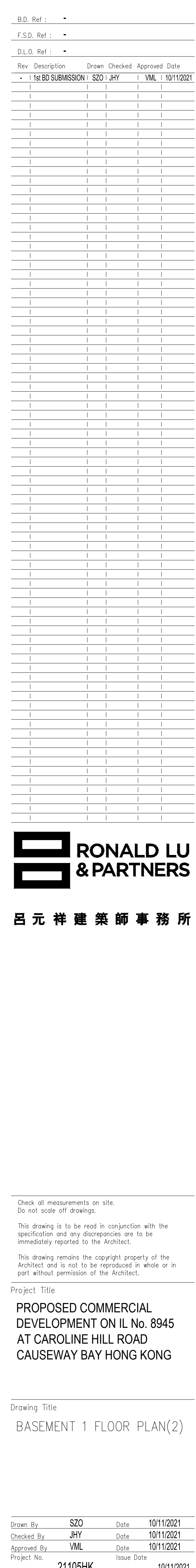
Drawing Title
BASEMENT 1 FLOOR PLAN(1)

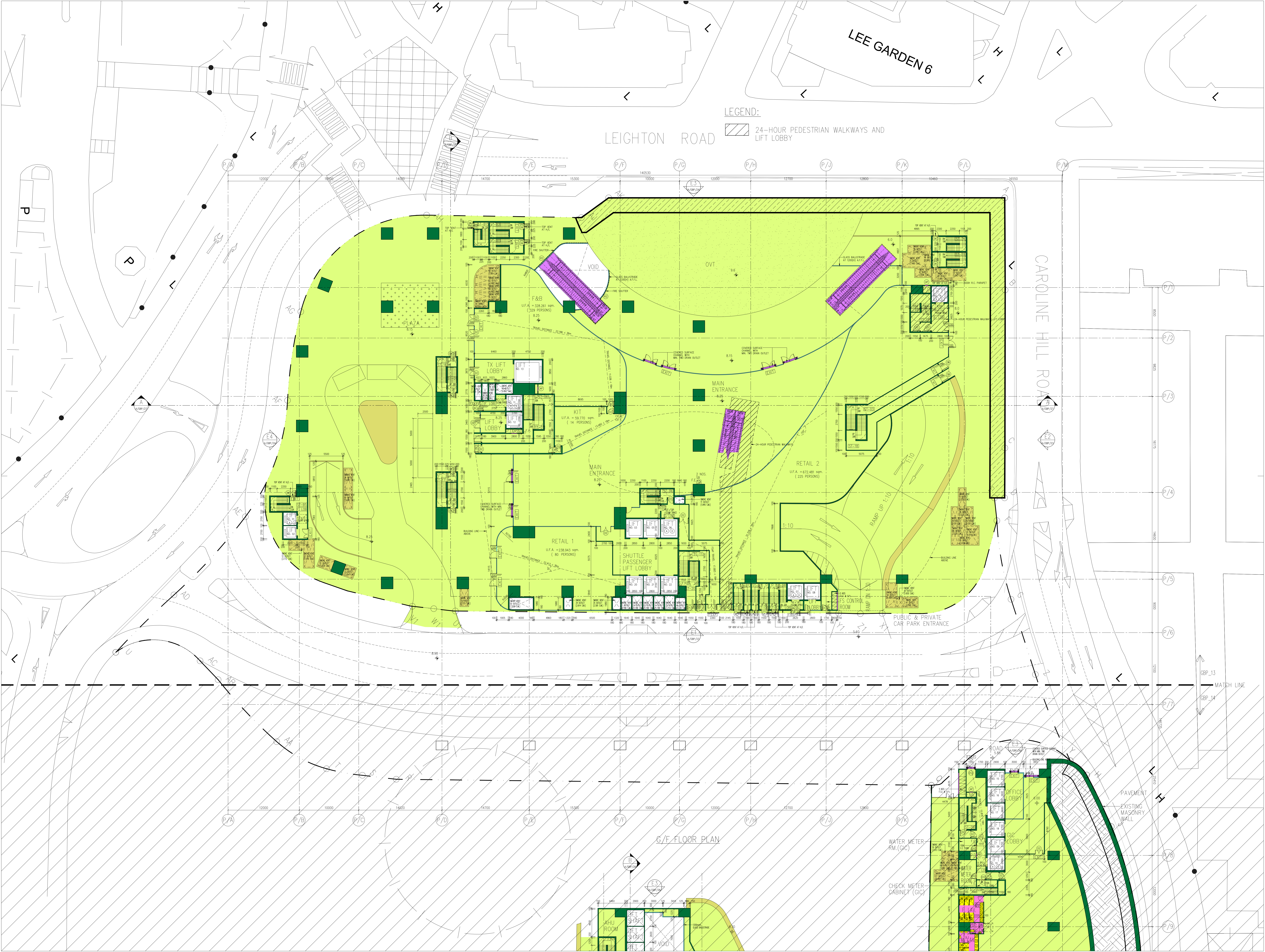
Drawn By: S20 Date: 10/11/2021
Checked By: JHY Date: 10/11/2021
Approved By: VNL Date: 10/11/2021
Project No: 21105HK Issue Date: 10/11/2021
Cof File No: -
Scale: 1:200
Drawing No: A/GBP_11

AP's Signature

CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose
Buildings Department





B.B. Ref.:

F.S.B. Ref.:

D.L.C. Ref.:

Rev.

Description

Drawn

Checked

Approved

Date

1

1680 SUBMISSION

S20, JHY

VNL

10/11/2021

RONALD LU & PARTNERS

呂元祥建築師事務所

Check all measurements on site.
Do not scale off drawings.

This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.

This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title
PROPOSED COMMERCIAL DEVELOPMENT ON IL No. 8945 AT CAROLINE HILL ROAD CAUSEWAY BAY HONG KONG

Drawing Title
G/F FLOOR PLAN(1)

Drawn By: S20

Checked By: JHY

Approved By: VNL

Project No: 21105HK

Coord File No: -

Scale: 1200

Drawing No: A/GBP_13

AP's Signature

CHEUNG Man-Ching, Anthony

Authorized Person (Architect)

Drawing Purpose
Buildings Department



B.D. Ref.:

F.S.D. Ref.:

D.L.C. Ref.:

Rev. Description

Drawn Checked Approved Date

1680 SUBMISSION

S20 JHY

VNL

10/11/2021

Check of measurements on site.
Do not scale off drawings.

This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.

This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title

PROPOSED COMMERCIAL DEVELOPMENT ON IL No. 8945 AT CAROLINE HILL ROAD CAUSEWAY BAY HONG KONG

Drawing Title

G/F FLOOR PLAN(2)

Drawn By: S20

Checked By: JHY

Approved By: VNL

Project No: 21105HK

Coord File No: -

Scale: 1:200

Drawing No: A/GBP_14

Date: 10/11/2021

Date: 10/11/2021

Date: 10/11/2021

Issue Date: 10/11/2021

AP's Signature

CHEUNG Man-Ching, Anthony

Authorized Person (Architect)

Drawing Purpose

Buildings Department



**RONALD LU
& PARTNERS**

Check all measurements on site.
Do not scale off drawings.

This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.

This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Drawing Title
1/F FLOOR PLAN(1)

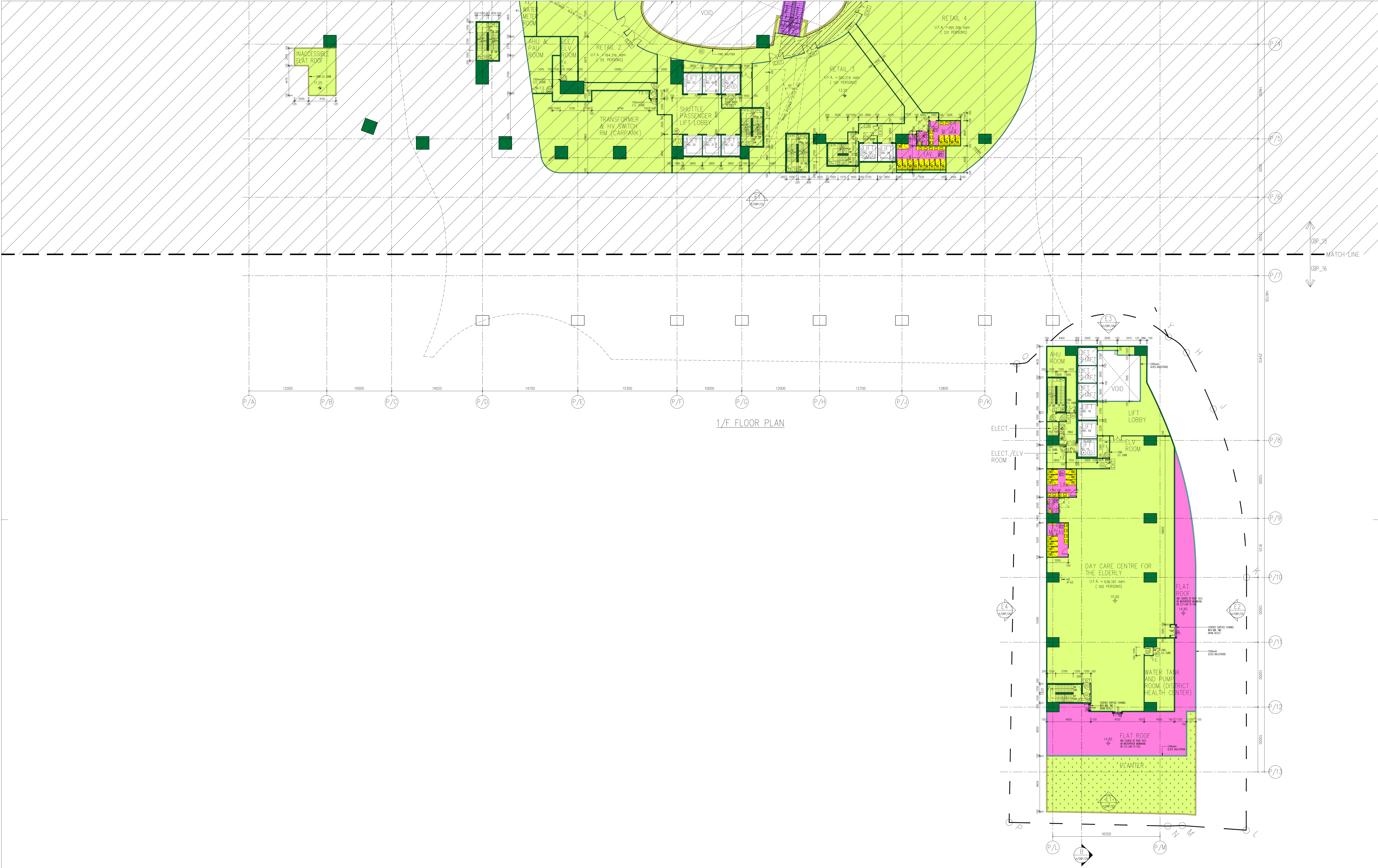
Scale	1:200
Drawing No.	A/GBP_15

AP's Signature _____

CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose	
-----------------	--

Buildings Department



R.D. Ref. :				
E.S.D. Ref. :				
D.L.D. Ref. :				
Rev.	Description	Drawn	Checked	Approved
1	1st SUBMISSION	SZO	JHY	VNL
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				



呂元祥建築師事務所

Check all measurements on site.
Do not scale off drawings.
This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.
This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title
PROPOSED COMMERCIAL
DEVELOPMENT ON IL No. 8945
AT CAROLINE HILL ROAD
CAUSEWAY BAY HONG KONG

Drawing Title
1/F FLOOR PLAN(2)

Drawn By: SZO Date: 10/11/2021
Checked By: JHY Date: 10/11/2021
Approved By: VNL Date: 10/11/2021
Project No: 21105HK Issue Date: 10/11/2021

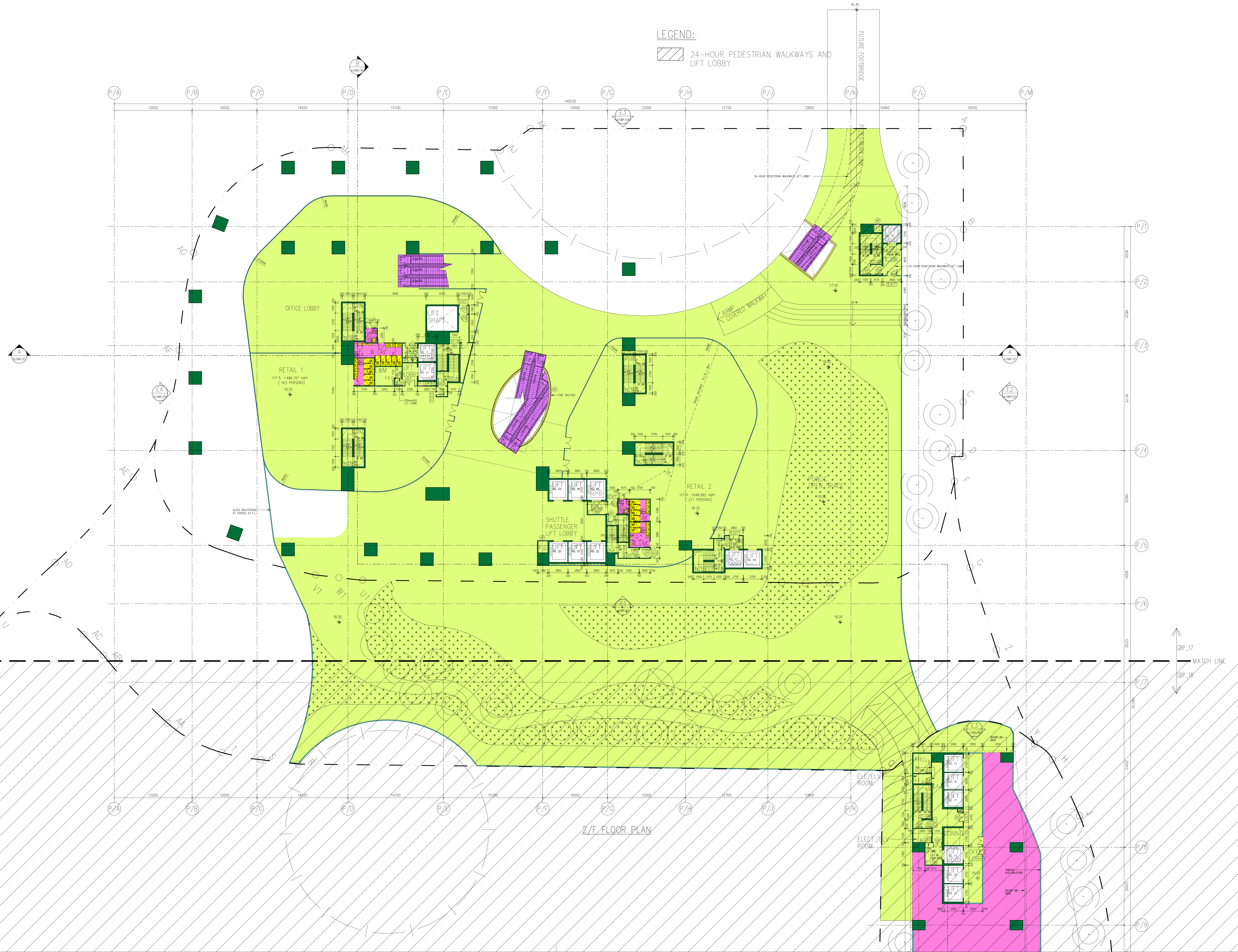
Coord File No: -
Scale: 1:200
Drawing No: A/GBP_16

AP's Signature

CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose

Buildings Department



R.D. Ref. : -			
F.S.D. Ref. : -			
D.L.G. Ref. : -			
Rev.	Description	Drawn	Checked
1	FOR SUBMISSION	SZO	JHY
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			



呂元祥建築師事務所

Check all measurements on site.
Do not scale off drawings.
This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.
This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title
PROPOSED COMMERCIAL
DEVELOPMENT ON IL No. 8945
AT CAROLINE HILL ROAD
CAUSEWAY BAY HONG KONG

Drawing Title
2/F FLOOR PLAN(1)

Drawn By: SZO Date: 10/11/2021
Checked By: JHY Date: 10/11/2021
Approved By: VML Date: 10/11/2021
Project No.: 21105HK Issue Date: 10/11/2021

Scale: 1:200
Drawing No.: A/GBP_17

AP's Signature

CHEUNG Mei-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose

Buildings Department

呂元祥建築師事務所

Project Title
PROPOSED COMMERCIAL
DEVELOPMENT ON IL No. 8945
AT CAROLINE HILL ROAD
CAUSEWAY BAY HONG KONG

Drawing Title
2/F FLOOR PLAN(2)

Drawn By	SZO	Date	10/11/2021
Checked By	JHY	Date	10/11/2021
Approved By	VML	Date	10/11/2021
Project No.	Issue Date		
21105HK			10/11/2021

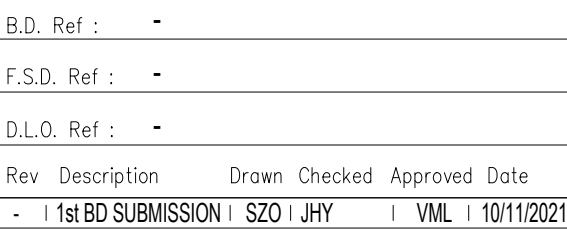
Scale	1:200
Drawing No.	A/GBP_18

AP's Signature _____

CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose	
-----------------	--

Buildings Department



Check all measurements on site.
Do not scale off drawings.

This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.

This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title

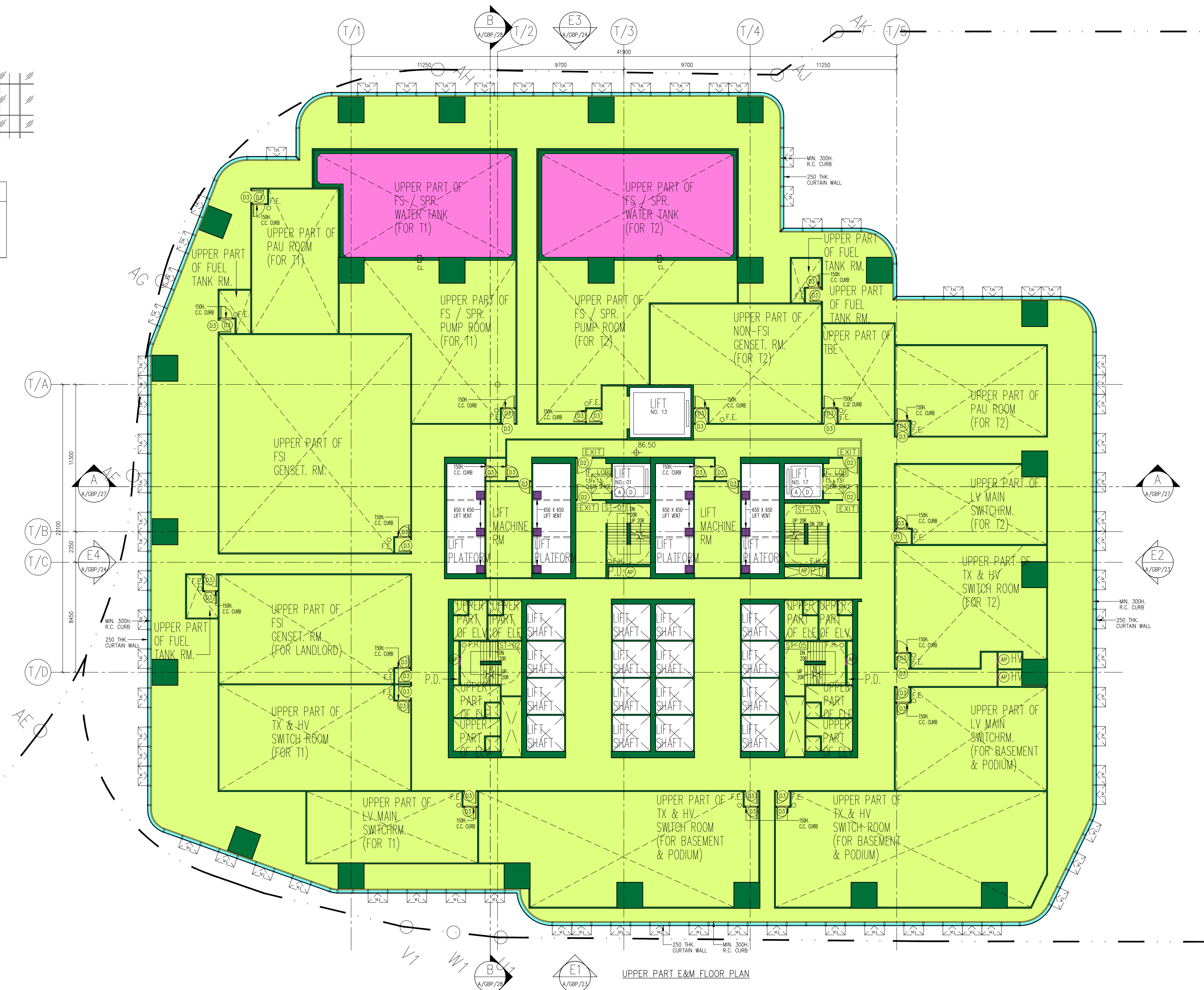
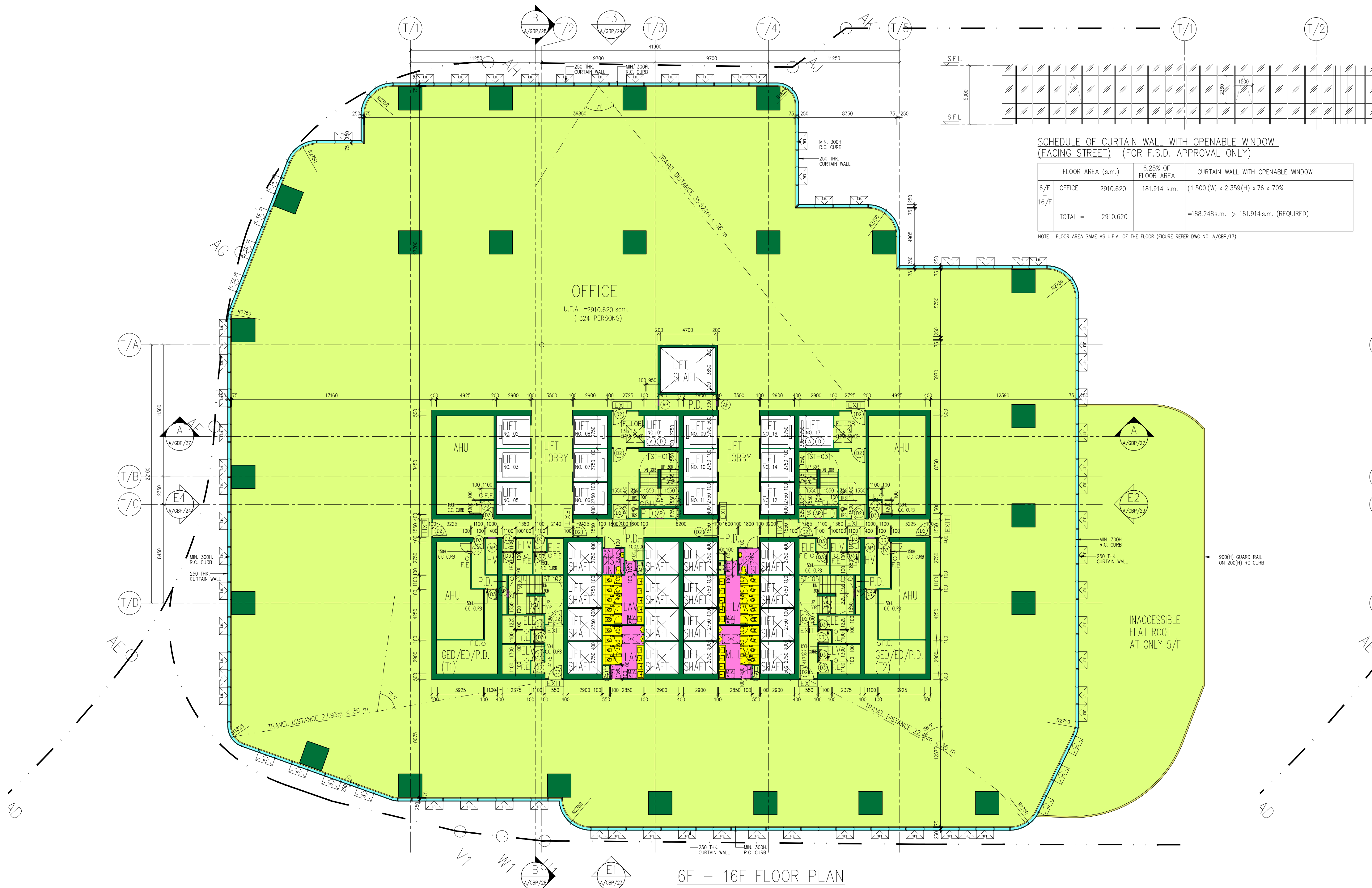
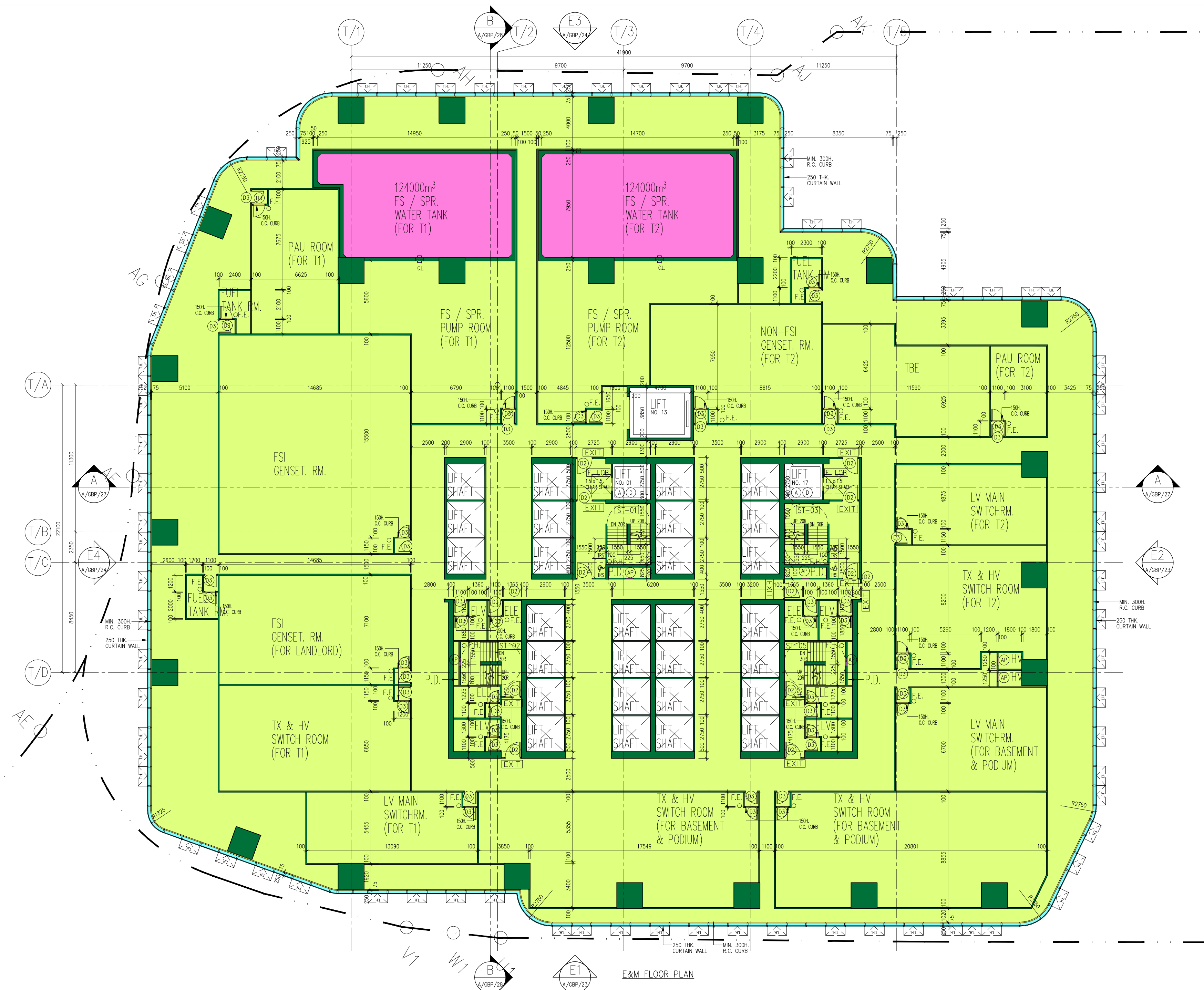
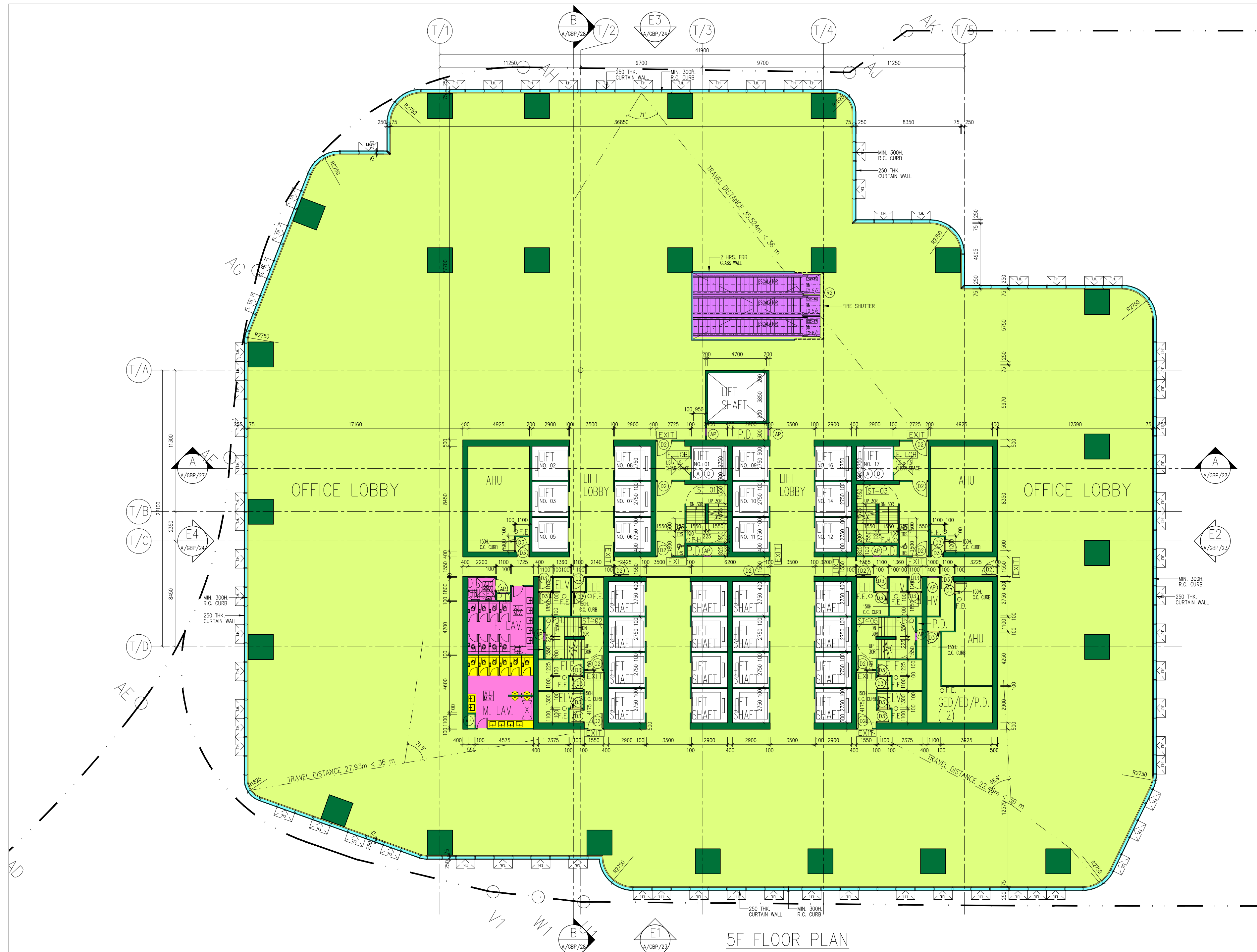
**PROPOSED COMMERCIAL
DEVELOPMENT ON IL No. 8945
AT CAROLINE HILL ROAD
CAUSEWAY BAY HONG KONG**

3/F FLOOR PLAN(1)

Drawn By	SZO	Date	10/11/2021
Checked By	JHY	Date	10/11/2021
Approved By	VML	Date	10/11/2021
Project No.	21105HK	Issue Date	10/11/2021
Pod File No.	-		
Scale	1:200		
Drawing No.	A/GBP_19		
P's Signature			

CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Buildings Department



SCHEDULE OF CURTAIN WALL WITH OPENABLE WINDOW (FACING STREET) (FOR F.S.D. APPROVAL ONLY)

FLOOR AREA (sq.m.)	6.25% OF FLOOR AREA	CURTAIN WALL WITH OPENABLE WINDOW
OFFICE	2910.620	181.914 sq.m. (1,500 (H) x 2,350 (W) x 76 x 700)
16/F		
TOTAL =	2910.620	=181.914 sq.m. > 181.914 sq.m. (REQUIRED)

NOTE: FLOOR AREA SAME AS G.F.A. OF THE FLOOR (FIGURE REFER TO NO. A/20P/21)

R.D. Ref: -
F.S.D. Ref: -
D.L.D. Ref: -
Rev. Description: Drawn Checked Approved Date
16/80 SUBMISSION: S20 JHY 1 VAL 10/11/2021

RONALD LU & PARTNERS

呂元祥建築師事務所

Check of measurements on site.
Do not scale off drawings.
This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.
This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title
PROPOSED COMMERCIAL DEVELOPMENT ON IL No. 8945 AT CAROLINE HILL ROAD CAUSEWAY BAY HONG KONG

Drawing Title
5F, 6F - 16F, E&M & UPPER PART E&M FLOOR PLAN

Drawn By: S20 Date: 10/11/2021
Checked By: JHY Date: 10/11/2021
Approved By: VML Date: 10/11/2021
Project No: 21105HK Issue Date: 10/11/2021

Scale: 1:200
Drawing No: A/GBP_21

AP's Signature

CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose

Buildings Department



**RONALD LU
& PARTNERS**

呂元祥建築師事務所

Check all measurements on site.
Do not scale off drawings.

This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.

This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title

**PROPOSED COMMERCIAL
DEVELOPMENT ON IL No. 8945
AT CAROLINE HILL ROAD
CAUSEWAY BAY HONG KONG**

Drawing Title
18F - 27F, R/F,
UPPER ROOF &
TOP ROOF FLOOR PLAN

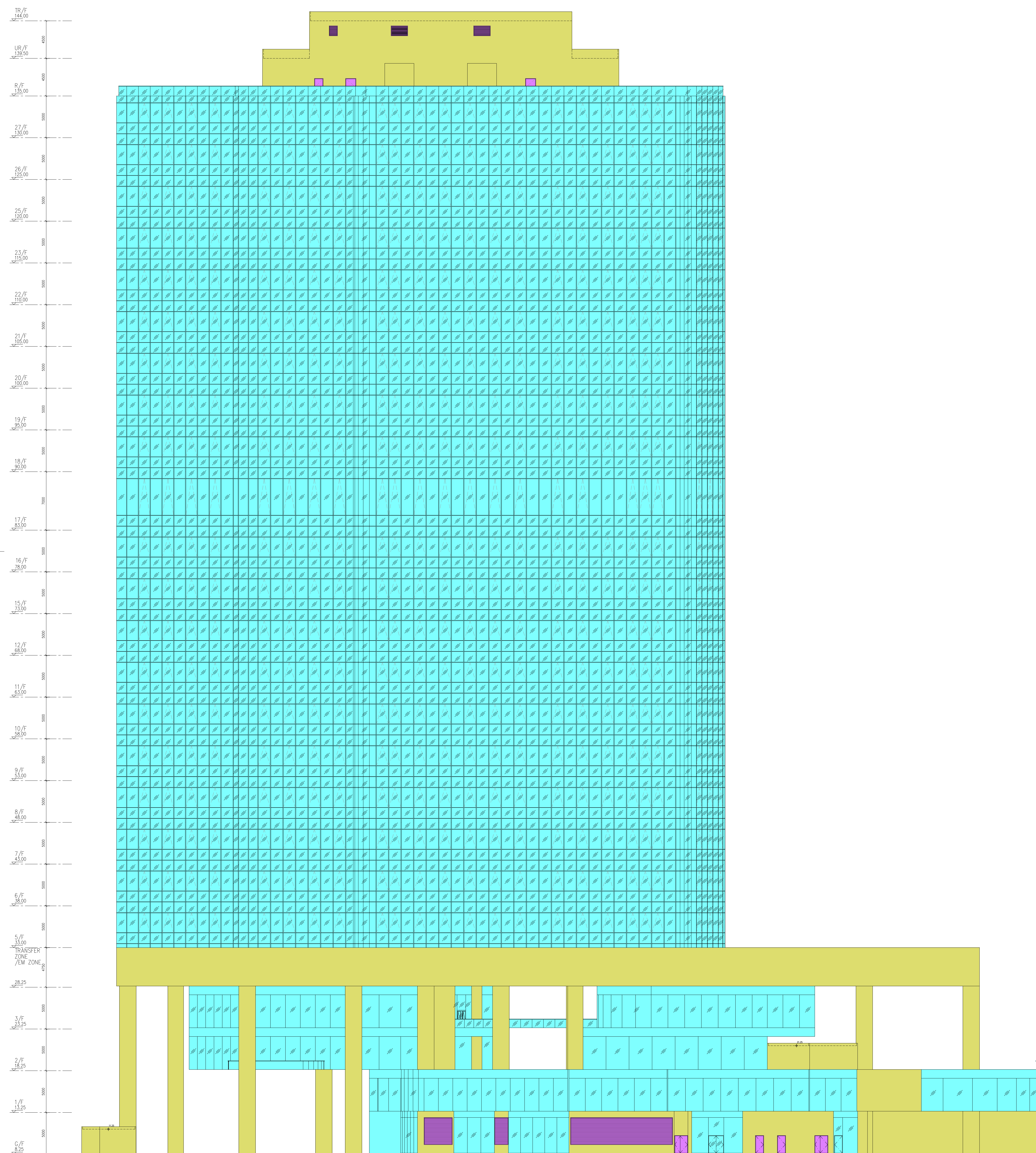
Drawn By	SCO	Date	10/11/2021
Checked By	JHY	Date	10/11/2021
Approved By	VML	Date	10/11/2021
Project No.	Issue Date		
21105HK		10/11/2021	
Cad File No.	--		
Scale	1:200		
Drawing No.	A/GBP_22		

AP's Signature _____

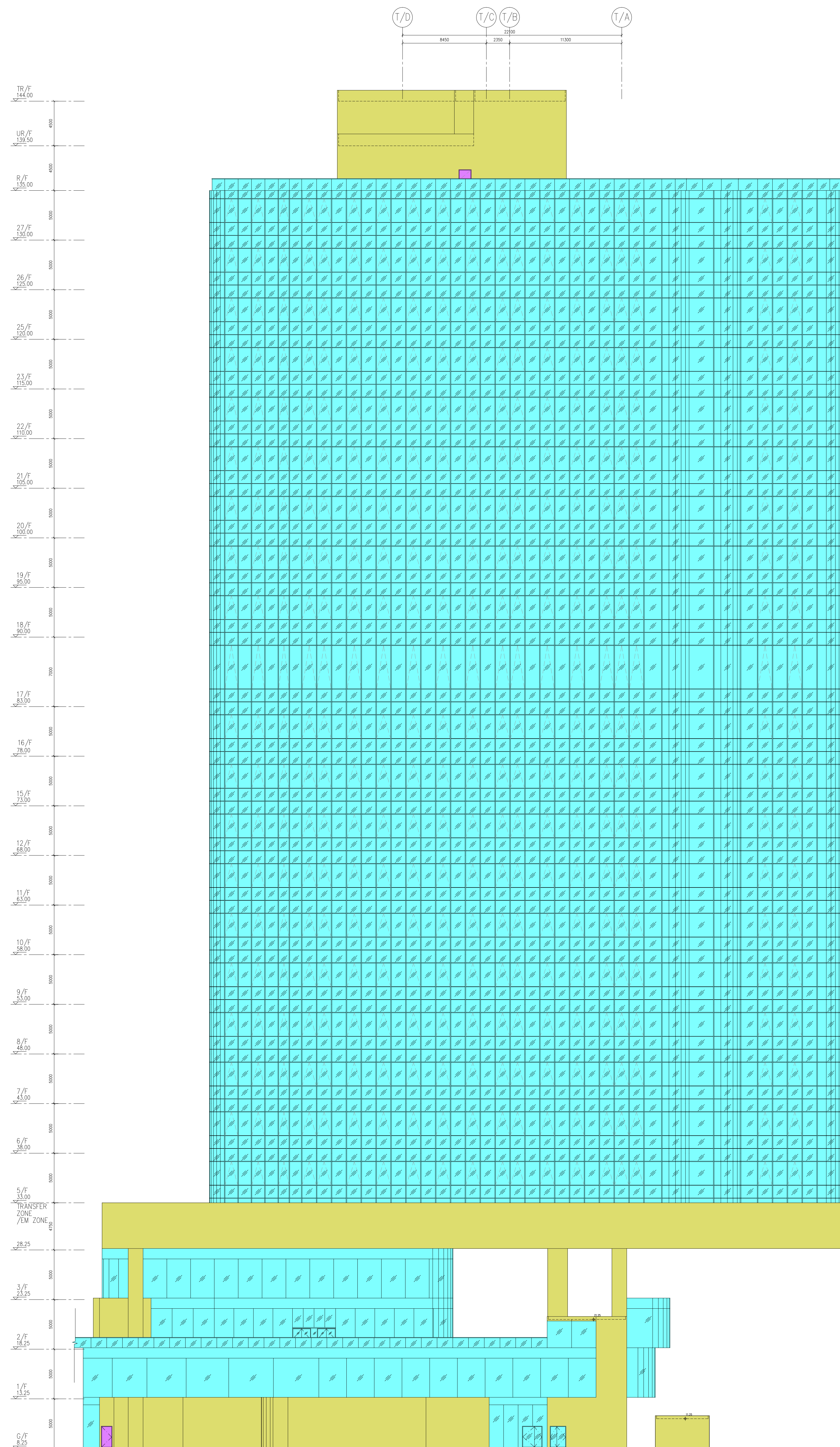
CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose

Buildings Department



E1 ELEVATION
SCALE: 1:200



E2 ELEVATION
SCALE: 1:200



呂元祥建築師事務所

Check all measurements on site.
Do not scale off drawings.

This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.

This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title

PROPOSED COMMERCIAL
DEVELOPMENT ON IL No. 8945
AT CAROLINE HILL ROAD
CAUSEWAY BAY HONG KONG

Drawing Title
ELEVATION (1)

Drawn By	SZO	Date	10/11/2021
Checked By	JHY	Date	10/11/2021
Approved By	VML	Date	10/11/2021
Project No.	21105HK	Issue Date	10/11/2021
Cad File No.	-		
Scale	1:200		
Drawing No.	A/GBP_23		

AP's Signature _____

CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose



**RONALD LU
& PARTNERS**

Check all measurements on site.
Do not scale off drawings.

This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.

This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title

**PROPOSED COMMERCIAL
DEVELOPMENT ON IL No. 8945
AT CAROLINE HILL ROAD
CAUSEWAY BAY HONG KONG**

Drawing Title
ELEVATION (2)

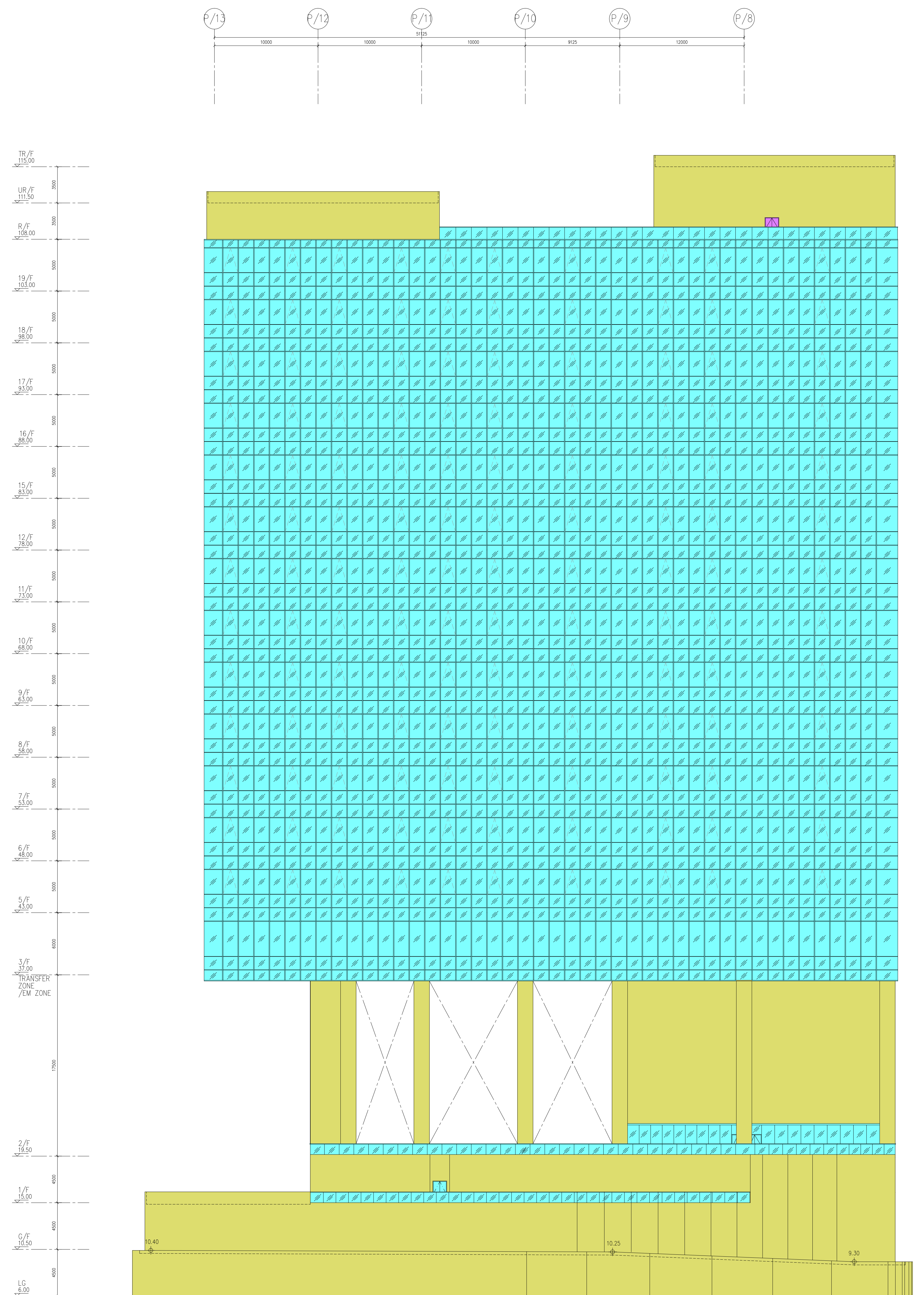
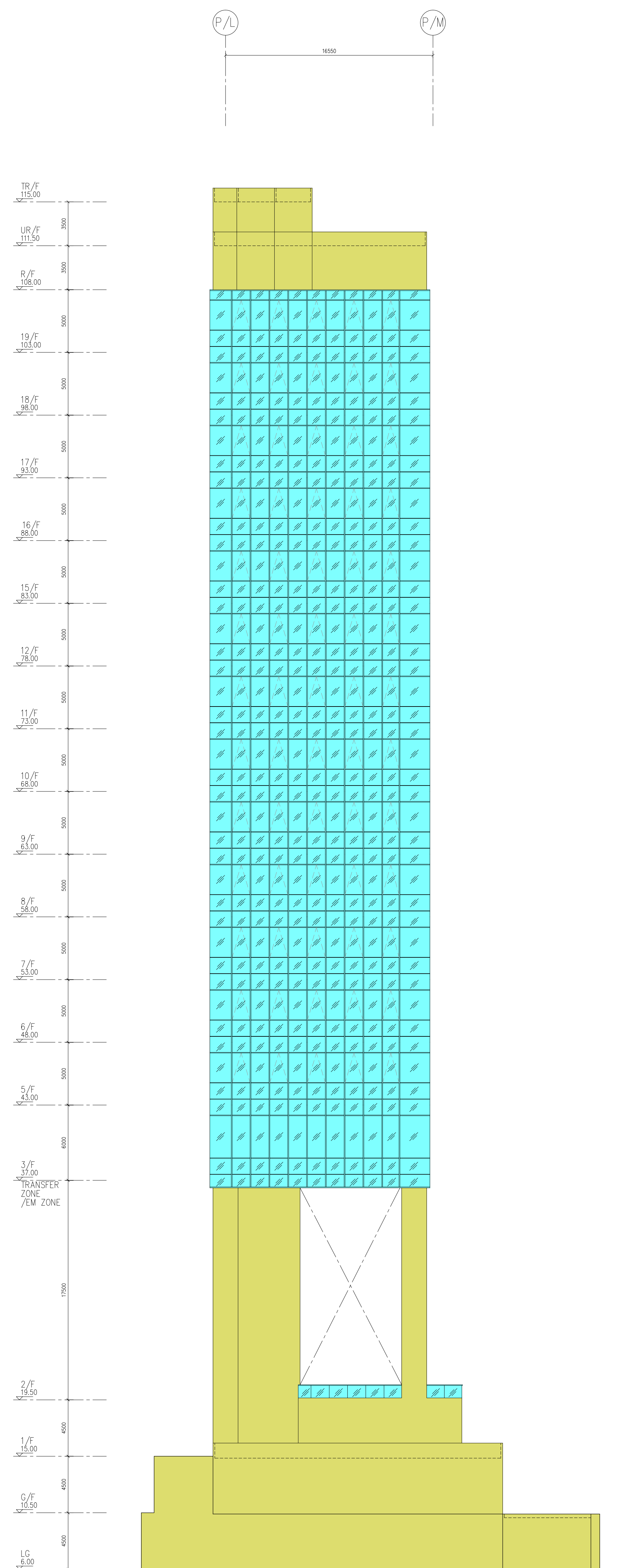
Drawn By	SZO	Date	10/11/2021
Checked By	JHY	Date	10/11/2021
Approved By	VML	Date	10/11/2021
Project No.	21105HK	Issue Date	10/11/2021
Cad File No.	-		
Scale	1:200		
Drawing No.	A/BGP_24		

AP's Signature

CHUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose

Buildings Department





Buildings Department



R.D. Ref. : -				
F.S.D. Ref. : -				
D.L.D. Ref. : -				
Rev.	Description	Drawn	Checked	Approved
1	1680 SUBMISSION - SZO JHY	1	1	1
2	1680 SUBMISSION - VML	1	1	1
3	1680 SUBMISSION - VML	1	1	1
4	1680 SUBMISSION - VML	1	1	1
5	1680 SUBMISSION - VML	1	1	1
6	1680 SUBMISSION - VML	1	1	1
7	1680 SUBMISSION - VML	1	1	1
8	1680 SUBMISSION - VML	1	1	1
9	1680 SUBMISSION - VML	1	1	1
10	1680 SUBMISSION - VML	1	1	1
11	1680 SUBMISSION - VML	1	1	1
12	1680 SUBMISSION - VML	1	1	1
13	1680 SUBMISSION - VML	1	1	1
14	1680 SUBMISSION - VML	1	1	1
15	1680 SUBMISSION - VML	1	1	1
16	1680 SUBMISSION - VML	1	1	1
17	1680 SUBMISSION - VML	1	1	1
18	1680 SUBMISSION - VML	1	1	1
19	1680 SUBMISSION - VML	1	1	1
20	1680 SUBMISSION - VML	1	1	1
21	1680 SUBMISSION - VML	1	1	1
22	1680 SUBMISSION - VML	1	1	1
23	1680 SUBMISSION - VML	1	1	1
24	1680 SUBMISSION - VML	1	1	1
25	1680 SUBMISSION - VML	1	1	1
26	1680 SUBMISSION - VML	1	1	1
27	1680 SUBMISSION - VML	1	1	1
28	1680 SUBMISSION - VML	1	1	1
29	1680 SUBMISSION - VML	1	1	1
30	1680 SUBMISSION - VML	1	1	1
31	1680 SUBMISSION - VML	1	1	1
32	1680 SUBMISSION - VML	1	1	1
33	1680 SUBMISSION - VML	1	1	1
34	1680 SUBMISSION - VML	1	1	1
35	1680 SUBMISSION - VML	1	1	1
36	1680 SUBMISSION - VML	1	1	1
37	1680 SUBMISSION - VML	1	1	1
38	1680 SUBMISSION - VML	1	1	1
39	1680 SUBMISSION - VML	1	1	1
40	1680 SUBMISSION - VML	1	1	1
41	1680 SUBMISSION - VML	1	1	1
42	1680 SUBMISSION - VML	1	1	1
43	1680 SUBMISSION - VML	1	1	1
44	1680 SUBMISSION - VML	1	1	1
45	1680 SUBMISSION - VML	1	1	1
46	1680 SUBMISSION - VML	1	1	1
47	1680 SUBMISSION - VML	1	1	1
48	1680 SUBMISSION - VML	1	1	1
49	1680 SUBMISSION - VML	1	1	1
50	1680 SUBMISSION - VML	1	1	1
51	1680 SUBMISSION - VML	1	1	1
52	1680 SUBMISSION - VML	1	1	1
53	1680 SUBMISSION - VML	1	1	1
54	1680 SUBMISSION - VML	1	1	1
55	1680 SUBMISSION - VML	1	1	1
56	1680 SUBMISSION - VML	1	1	1
57	1680 SUBMISSION - VML	1	1	1
58	1680 SUBMISSION - VML	1	1	1
59	1680 SUBMISSION - VML	1	1	1
60	1680 SUBMISSION - VML	1	1	1
61	1680 SUBMISSION - VML	1	1	1
62	1680 SUBMISSION - VML	1	1	1
63	1680 SUBMISSION - VML	1	1	1
64	1680 SUBMISSION - VML	1	1	1
65	1680 SUBMISSION - VML	1	1	1
66	1680 SUBMISSION - VML	1	1	1
67	1680 SUBMISSION - VML	1	1	1
68	1680 SUBMISSION - VML	1	1	1
69	1680 SUBMISSION - VML	1	1	1
70	1680 SUBMISSION - VML	1	1	1
71	1680 SUBMISSION - VML	1	1	1
72	1680 SUBMISSION - VML	1	1	1
73	1680 SUBMISSION - VML	1	1	1
74	1680 SUBMISSION - VML	1	1	1
75	1680 SUBMISSION - VML	1	1	1
76	1680 SUBMISSION - VML	1	1	1
77	1680 SUBMISSION - VML	1	1	1
78	1680 SUBMISSION - VML	1	1	1
79	1680 SUBMISSION - VML	1	1	1
80	1680 SUBMISSION - VML	1	1	1
81	1680 SUBMISSION - VML	1	1	1
82	1680 SUBMISSION - VML	1	1	1
83	1680 SUBMISSION - VML	1	1	1
84	1680 SUBMISSION - VML	1	1	1
85	1680 SUBMISSION - VML	1	1	1
86	1680 SUBMISSION - VML	1	1	1
87	1680 SUBMISSION - VML	1	1	1
88	1680 SUBMISSION - VML	1	1	1
89	1680 SUBMISSION - VML	1	1	1
90	1680 SUBMISSION - VML	1	1	1
91	1680 SUBMISSION - VML	1	1	1
92	1680 SUBMISSION - VML	1	1	1
93	1680 SUBMISSION - VML	1	1	1
94	1680 SUBMISSION - VML	1	1	1
95	1680 SUBMISSION - VML	1	1	1
96	1680 SUBMISSION - VML	1	1	1
97	1680 SUBMISSION - VML	1	1	1
98	1680 SUBMISSION - VML	1	1	1
99	1680 SUBMISSION - VML	1	1	1
100	1680 SUBMISSION - VML	1	1	1



呂元祥建築師事務所

Check all measurements on site.
Do not scale off drawings.
This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.
This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title
PROPOSED COMMERCIAL DEVELOPMENT ON IL No. 8945 AT CAROLINE HILL ROAD CAUSEWAY BAY HONG KONG

Drawing Title
SECTION A-A

Drawn By: **SZO** Date: **10/11/2021**
Checked By: **JHY** Date: **10/11/2021**
Approved By: **VML** Date: **10/11/2021**
Project No: **21105HK** Issue Date: **10/11/2021**

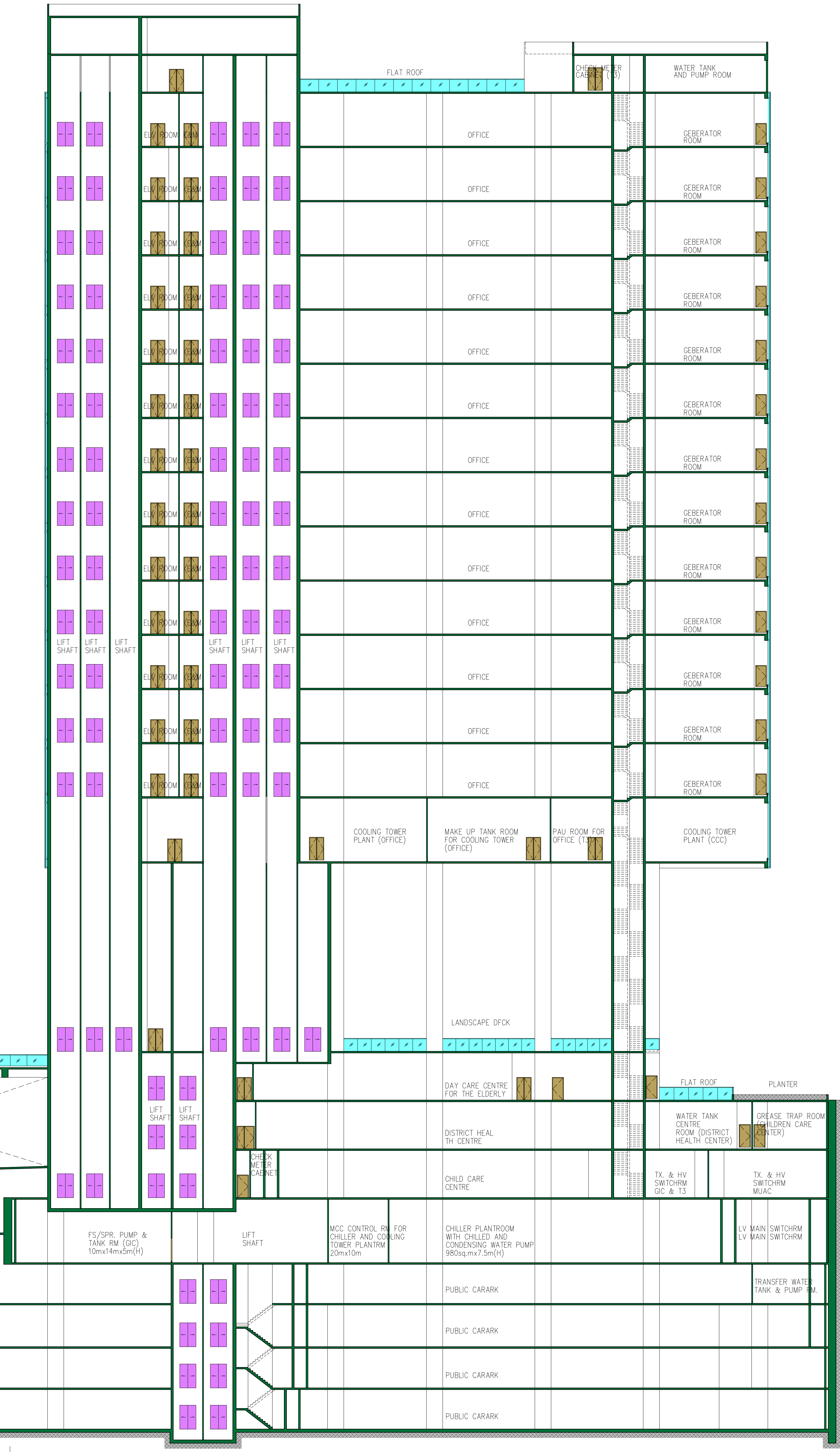
Scale: **1:200**
Drawing No: **A/GBP_27**

AP's Signature

CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose
Buildings Department

A SECTION
SCALE: 1:200



B.D. Ref. :	-				
E.S.D. Ref. :	-				
L.D. Ref. :	-				
Rev	Description	Drawn	Checked	Approved	Date
1	for BD SUBMISSION	S20	JHY	VML	10/11/2021
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					
71					
72					
73					
74					
75					
76					
77					
78					
79					
80					
81					
82					
83					
84					
85					
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					
97					
98					
99					
100					



呂元祥建築師事務所

Check all measurements on site.
Do not scale off drawings.
This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.
This drawing remains the copyright property of the Architect and is not to be reproduced in whole or in part without permission of the Architect.

Project Title
PROPOSED COMMERCIAL DEVELOPMENT ON IL No. 8945 AT CAROLINE HILL ROAD CAUSEWAY BAY HONG KONG

Drawing Title
SECTION B-B

Drawn By: **S20** Date: 10/11/2021
Checked By: **JHY** Date: 10/11/2021
Approved By: **VML** Date: 10/11/2021
Project No: **21105HK** Issue Date: 10/11/2021
Cof File No: --
Scale: 1:200

Drawing No: **A/GBP_28**
AP's Signature

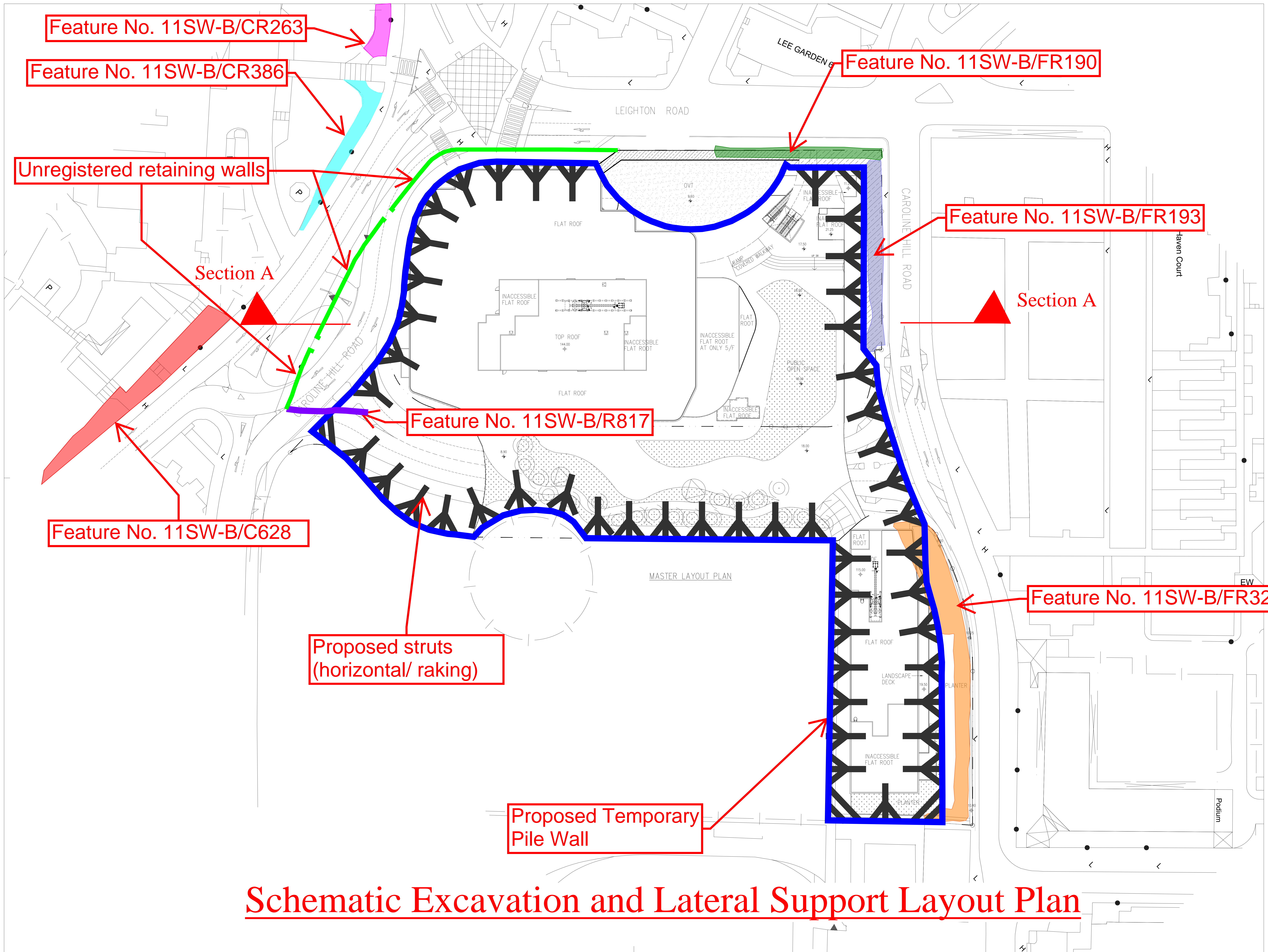
CHEUNG Man-Ching, Anthony
Authorized Person (Architect)

Drawing Purpose
Buildings Department

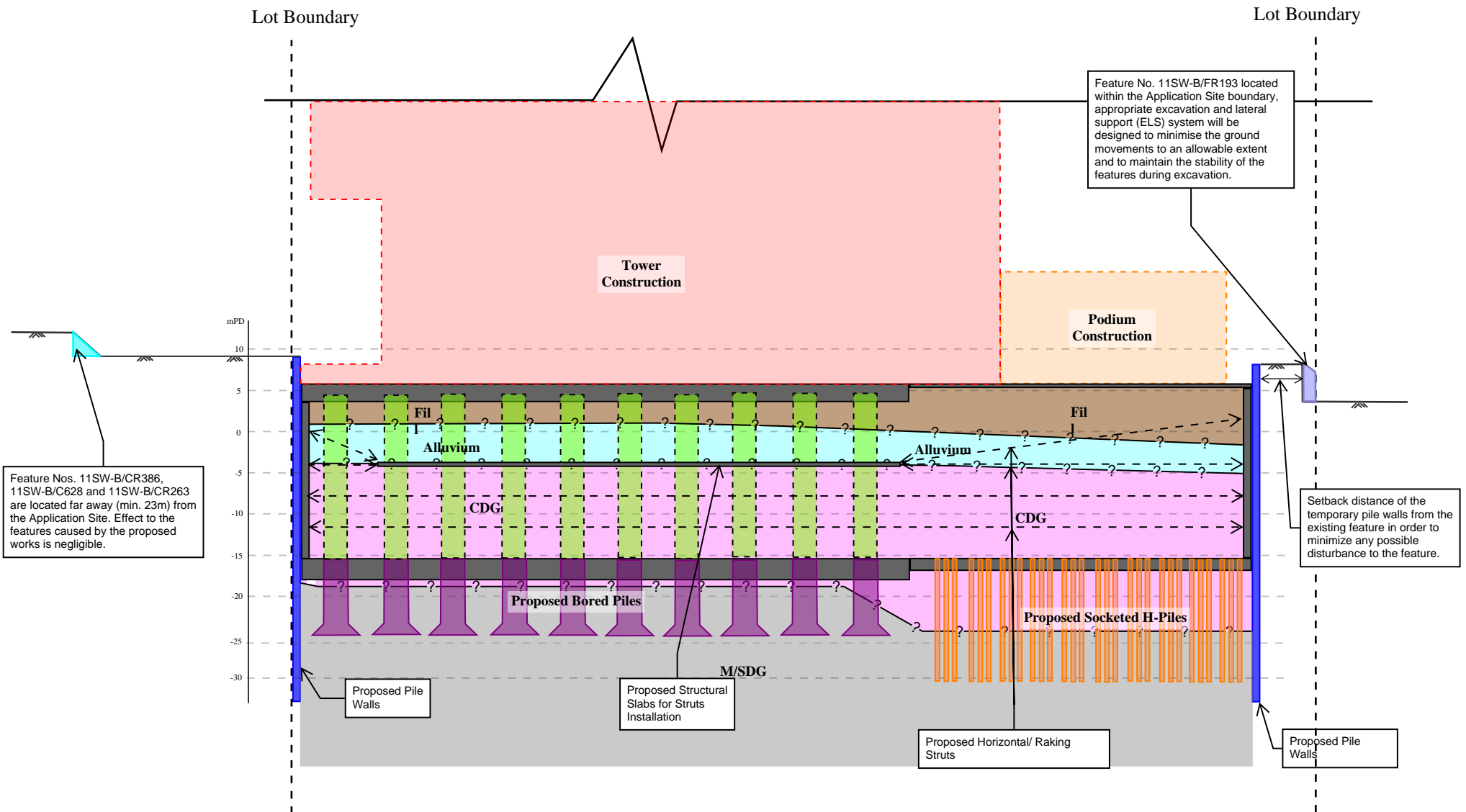
B SECTION
SCALE: 1:200

Appendix E

Schematic Design of Foundation and Site Formation Works



Schematic Excavation and Lateral Support Layout Plan



Section A