

APPENDIX 6

NOISE IMPACT ASSESSMENT

**SECTION 16 PLANNING APPLICATION
PROPOSED MINOR RELAXATION OF
BUILDING HEIGHT RESTRICTION FOR
PERMITTED SOCIAL WELFARE FACILITY
(RESIDENTIAL CARE HOME FOR THE
ELDERLY) AND PROPOSED HOUSE USE WITH
CONSERVATION PROPOSAL AT LOT NOS.
1695 S.E SS.1 RP, 1695 S.F SS.1 AND 1695 S.H
RP (PART) IN D.D. 120 AND ADJOINING
GOVERNMENT LAND, TAI KEI LENG, YUEN
LONG**

NOISE IMPACT ASSESSMENT

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Project:	SECTION 16 PLANNING APPLICATION PROPOSED MINOR RELAXATION OF BUILDING HEIGHT RESTRICTION FOR PERMITTED SOCIAL WELFARE FACILITY (RESIDENTIAL CARE HOME FOR THE ELDERLY) AND PROPOSED HOUSE USE WITH CONSERVATION PROPOSAL AT LOT NOS. 1695 S.E SS.1 RP, 1695 S.F SS.1 AND 1695 S.H RP (PART) IN D.D. 120 AND ADJOINING GOVERNMENT LAND, TAI KEI LENG, YUEN LONG NOISE IMPACT ASSESSMENT
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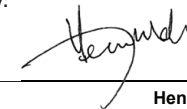
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1 INTRODUCTION

1.1 BACKGROUND

- 1.1.1. A social welfare facility for residential care home for the elderly (RCHE) has been proposed at Lot Nos.1695 S.E ss. 1 RP, 1695 S.F ss.1, 1695 S.H RP (Part) and Adjoining Government Land in D.D. 120, Tai Kei Leng, Yuen Long, New Territories (the proposed Site).
- 1.1.2. The Site is currently zoned "Government, Institution or Community (1)" (G/IC(1)) under the Approved Yuen Long Outline Zoning Plan (OZP) No. S/YL/25. The Proposed RCHE is an always permitted use. However, new development within the "G/IC(1)" zone is limited to a maximum building height of 3 storeys (8 storeys for "School" and "Hospital") excluding basement(s) under the OZP.
- 1.1.3. BeeXergy Consulting Limited (BeeXergy) was commissioned by the DeSpace (International) Limited to conduct a Noise Impact Assessment in support of the application for planning permission under Section 16 of the Town Planning Ordinance (Cap. 131) for the proposed development at various Lots in D.D.120, Tai Kei Leng, Yuen Long.
- 1.1.4. The master layout plan (MLP) is provided by the project architect (Cupio Design Studio Limited). The traffic forecast for road traffic noise impact assessment is provided by the project traffic consultant (CTA Consultants Limited).

1.2 THE PROPOSED DEVELOPMENT

- 1.2.1. The proposed Site area is approximately 1,877m² and it is located to the north of Shap Pat Heung Road and to the west of Tai Tong Road, as shown on **Figure 1**. The Site is currently occupied by a temporary public car park and a Grade 3 historic building 'Siu Lo'.
- 1.2.2. The site is generally surrounded by scattered building structures including village buildings and warehouse.
- 1.2.3. The Proposed Development is a 6-storey RCHE which comprises a total 241 (or within a range of 220-260) bed spaces, multi-purpose rooms, nursing stations, a management office and an ancillary gym room. The layout plan of the proposed Site is provided in **Appendix 1**.
- 1.2.4. The anticipated year of construction completion and occupation is 2025.

1.3 THE SCOPE OF WORKS

- 1.3.1. The scope of works for this assessment will cover the following:
 - to identify noise sources and sensitive uses;
 - to collate available information on the site and immediate surroundings;
 - to assess the potential traffic noise impacts during operation; and
 - to recommend suitable mitigation measures where necessary.

2 ROAD TRAFFIC NOISE ASSESSMENT

2.1 INTRODUCTION

- 2.1.1. This section presents the assessment of potential traffic noise impacts associated with the operation phase of the proposed development. During the operation phase, road traffic would be the major source of noise pollution. Representative noise sensitive receivers (NSRs) of the proposed development have been identified and potential impacts have been assessed. Suitable mitigation measures where necessary have been recommended to safeguard the representative NSRs.

2.2 TRAFFIC NOISE STANDARD

- 2.2.1. The Hong Kong Government's overall noise policy objectives for new developments are based on prescribed noise standards which apply to building that rely on openable windows for ventilation. It is confirmed that all rooms included dormitory and multi-purpose rooms in the development will not be used for educational uses nor diagnostic rooms/wards. The maximum permissible road traffic noise level at noise sensitive building facades specified in the Hong Kong Planning Standards and Guidelines (HKPSG) is as follows:

$L_{10}(1 \text{ hour})$ 70dB(A), for all domestic and office developments

2.3 ASSESSMENT METHODOLOGY

- 2.3.1. In this assessment, the potential noise impact arising from nearby existing and future road carriageways on the development has been assessed. It involved the prediction of future noise impacts on Noise Sensitive Receivers (NSRs) arising from traffic flows along existing and future road carriageways situated within or in the vicinity of the subject site. Calculations of predicted road traffic noise were based on the peak hour traffic flows projected within a 15-year period from the target completion date of the proposed development, year 2025. For worst-case scenario evaluation, the assessment year was chosen to be year 2040, which has the maximum forecasted traffic data within 15-year period. The year 2040 traffic data and TD agreement with traffic consultant confirmation are attached in **Appendix 2.1**.
- 2.3.2. The U.K. Department of Transport's procedure "Calculation of Road Traffic Noise" was used to predict the hourly $L_{10}(1\text{-hour})$ noise levels generated from road traffic at selected representative NSRs. Practicable environmental mitigation measures have been recommended, where necessary. The predicted noise levels were compared with the relevant HKPSG noise standards (i.e. $L_{10}(1\text{-hour})$ 70dB(A)).
- 2.3.3. The predicted 2040 peak hour traffic data on the main road carriageways surrounding the Site. Other road carriageways are either with very little traffic volume or already shielded by other buildings in the vicinity so that the impact derived from these road carriageways is considered insignificant. All roads are assumed of impervious surface with speed limit of 50km/hr in this assessment.

2.4 NOISE SENSITIVE RECEIVERS

- 2.4.1. A number of Noise Sensitive Receivers (NSRs), which are likely to be subject to adverse traffic noise impacts, were selected for the assessment. All assessment points were taken at 1.2m above the floor and 1m away from the facade of openable windows (which would be for ventilation purpose) of rooms including mainly dormitory rooms, office and multi-purpose rooms. **Appendix 2.2** shows the locations of the selected NSRs for traffic noise impact assessment.

2.5 EXISTING NOISE ENVIRONMENT

- 2.5.1. The existing noise environment of the proposed Site is primarily affected by the local traffic. Traffic noise generated from the existing Tai Tong Road and Shap Pat Heung Road would contribute significantly to the ambient noise environment within the proposed Site.

2.6 TRAFFIC NOISE SOURCES AND EVALUATION OF IMPACTS

ROAD TRAFFIC NOISE IMPACT EVALUATION – BASELINE SCENARIO

- 2.6.1. Quantitative road traffic noise impact assessment has been carried out and compared against the criterion for NSRs (habitable rooms) in the proposed Site without implementation of noise mitigation measures. Noise levels were calculated at each receiver point at 5 elevations (i.e. G/F to 5/F). Predicted traffic noise levels of the habitable rooms at various floor levels are provided in **Appendix 2.3**. Predicted maximum traffic noise levels for each house are shown in **Table 2.1** below.

Table 2.1 Summary of Baseline Scenario Traffic Road Noise Prediction Results (Year 2040)

Predicted Noise Level, dB(A)	No. of NSR
Lower than 70	88
Higher than 70	29
Total	117

- 2.6.2. As shown in **Table 2.1**, the predicted L10(1-hr) noise levels of 29 NSRs exceeded the criterion of 70 dB(A). Shap Pat Heung Road and Tai Tong Road are identified as the major noise source. Mitigation measures are therefore required to be implemented so as to alleviate the traffic noise impact on habitable rooms in those affected dormitories.

2.7 PROPOSED NOISE MITIGATION MEASURES

- 2.7.1. The road traffic noise impact assessment was conducted based on the Master Layout Plan. In view of the environmental setting of the proposed plan, the current layout plan has been optimized by the following building design consideration in order to minimize the potential noise impacts from the nearby road network. The location of the proposed mitigation measures is presented in **Appendix 2.4**.

Acoustic Window (Baffle Type)

- 2.7.2. Acoustic window (baffle type) will be provided for the NSRs on the first to fifth floor of the proposed Site to reduce the noise impact. A baffle type acoustic window comprises of two layers of windows. The outer layer of window comprises of openable window(s) for ventilation purpose. The inner layer of window is a parallel sliding glass panel. The openable window will be arranged away from the road to ensure maximum noise reduction effect of the acoustic window. The sliding glass panel shall normally be positioned behind the openable window(s) for noise reduction purpose.
- 2.7.3. Reference has been made to the previous residential development at North Point with in-situ noise attenuation test result of 8.8dBA achieved. The case at living room with sliding panel behind balcony opening is analogous to baffle type acoustic window. The design of habitable rooms of the proposed Site will be based

on the case in North Point Estate with key parameters (i.e. air gap width, overlapping length, openable area) the same as or not worse than the reference case. It is anticipated that the reduction in noise attenuation performance with the smaller room size will be offset. Hence, a 4dBA reduction in noise attenuation performance will be expected. For a conservative approach, a 4 dBA noise reduction was adopted throughout the noise assessment whenever these baffle type acoustic windows are used. Detailed parameters of the proposed acoustic window design are provided in **Appendix 2.5**.

- 2.7.4. At the detailed design stage, more technical data will be provided for the proposed acoustic window. The design of the proposed acoustic window will meet the relevant natural ventilation requirements under the Building (Planning) Regulations. In accordance with the Practice Note on Lighting and Ventilation Requirements - Performance-based Approach (APP-130) (December 2016) issued by the Buildings Department, for optimum performance with the inner sliding glass panel in a closed position, the air gap should have a length of not greater than 100mm and a width not less than 275mm. The length and width of the air gap of the proposed acoustic window also meet these conditions. The Project Authorised Person shall be responsible to ensure that the current baffle type acoustic window meets all the relevant Buildings Ordinance requirements.

2.8 ROAD TRAFFIC NOISE IMPACT EVALUATION - MITIGATED SCENARIO

ROAD TRAFFIC NOISE IMPACT EVALUATION – MITIGATED SCENARIO

- 2.8.1. In order to reduce the traffic noise at those affected dormitories, practicable and effective noise mitigation measures including the provision of acoustic window (baffle type) will be adopted. Predicted traffic noise levels of the habitable rooms after implementation of the noise abatement measures are tabulated in **Appendix 2.6**. Predicted maximum traffic noise levels for each sensitive room is shown in **Table 2.2** below.

Table 2.2 Summary of Mitigated Road Traffic Noise Prediction Results (Year 2040)

Predicted Noise Level, dB(A)	No. of NSR
Lower than 70	117
Higher than 70	0
Total	117

- 2.8.2. With the incorporation of the schedule of noise mitigation measures, the predicted L10(1-hr) noise levels of all dormitories are not exceeding 70dB(A) as shown in **Table 2.2**. The traffic noise impact assessment results indicated that all NSRs (habitable rooms) would comply with the HKPSG noise criterion of 70dB(A) L10(1-hr) and 100% compliance rate would be achieved.

3 INDUSTRIAL IMPACT NOISE ASSESSMENT

3.1 INTRODUCTION

3.1.1. This section presents the assessment of potential fixed noise impacts associated with existing fixed noise sources nearby and planned fixed noise sources of the proposed Site. Practicable noise mitigation measures would be recommended, where necessary.

3.2 ASSESSMENT CRITERIA

3.2.1 The proposed Site is mainly surrounded by existing low density residential area consisting of low-rise developments, factories and storage warehouses of which the area is zoned as "Government, Institution or Community". Additionally, the annual average daily traffic flow of Tai Tong Road is less than 30,000 according to the Annual Traffic Census 2020. Therefore, they are not considered as IFs in accordance with the *Technical Memorandum for the Assessment of Noise from Places other than Domestic Premises, Public Places or Construction Sites* (herein referred to as "IND-TM) and the type of the area where the subject site located is considered to be "Type (iv) Area other than those above" with NSR at such location is not affected by influencing factor (IF).

3.2.2 In view of the existing nature of the environment as described above, the Area Sensitivity Rating "B" is adopted as the assessment criteria. Noise standards of 65dB(A) and 55dB(A) are adopted for daytime and night-time respectively for the evaluation of the noise impact from the existing fixed noise sources on the proposed development.

3.2.3 Operational noises from planned fixed noise sources are controlled under the NCO's TM on IND-TM. To plan for better environment, The HKPSG has specified the following requirements for the planned fixed noise sources, whichever is more stringent.

- 5dB(A) below the appropriate Acceptable Noise Levels (ANLs) in the IND-TM; and
- The prevailing background noise levels.

Site visit were conducted on 15 June 2020, 11, 17, 23, 29 March 2022 from which the background noise environment is mainly dominated by the road traffic noise from Tai Tong Road. Prevailing background noise measurement was conducted in 17 Mar 2022 for both daytime/ evening time and night-time periods. The weather was fine during measurement. The background noise measurement methodology shall be referred to the IND-TM, Background noise measurements was conducted continuously for 1 hours at assessment point at 1.2m height above ground, during day-time (0700 to 1900 hours), evening-time (1900 to 2300 hours) and night-time (2300 to 0700 hours). The selected measurement locations and time period have taken into account of the traffic flow of the adjacent road without nuisance of other influencing intrusive noise such as construction noise to ensure measured noise level was obtained at the quietest period of time.

The sound level meters are in compliance with International Electrotechnical Commission (IEC) Publications 61672 (Type 1) and will be used with the manufacturer recommended wind shield. All equipment and instruments to be adopted for the monitoring are summarized in **Table 3.1**, calibration certificate is shown in **Appendix 3.5**. Immediately prior to the noise measurement, the accuracy of the SLM shall be checked using an acoustic calibrator generating

114dB(A) at frequency of 1000Hz. Measurements shall be accepted as valid only if the calibration levels from before and after the acoustic measurement agree to within 1.0dB(A). Noise measurement will not be made in the presence of fog, rain and wind with a steady speed exceeding 5ms⁻¹ or wind with gusts exceeding 10ms⁻¹. The equipment setup for noise measurement at assessment points is shown in **Appendix 3.6**.

Due to safety and inaccessibility issues, the measurement locations were selected nearby existing representative noise sensitive receivers as shown in **Figure 2**. The noise climate at the measurement location was considered similar to that at the existing representative noise sensitive receivers as shown. **Table 3.2** summarized measured prevailing background noise levels in L_{Aeq} (1hr) and L90 (1hr).

Table 3.1 Measured background noise levels for existing NSRs

Equipment	Model No.	Serial No.	Expiry Date
Sound Level Meter	Svantek SVAN979	46199	16 November 2022
Sound Level Meter	CR:171B	G071909	26 November 2022
Acoustic Calibrator	Svantek SV35A	58708	12 May 2022

Table 3.2 Measured background noise levels for existing NSRs

Period	Measurement Location	Measured Noise Level, dB(A)	
		L _{Aeq} , 1 hrs	L ₉₀ , 1hrs
Day Time	BG 1	53.8	49.1
	BG 2*	56.3	50.9
Evening Time	BG 1	49.2	41.3
	BG 2*	60.0	45.0
Night Time	BG 1	49.0	39.5
	BG 2*	49.0	44.0

Notes:

(1) * A +3 façade correction is included for free-field measurement

3.2.4 **Table 3.3** shows the details of the industrial noise impact assessment criteria for this study.

Table 3.3 Industrial Noise Standard for existing fixed noise sources

Time Period	Measured L ₉₀ , 1 hrs	ANL-5*	Adopted Noise Assessment Criteria
Day/Evening-time (07:00 – 23:00)	41.3dB(A)	60dB(A)	41dB(A)
Night-time (23:00 – 07:00)	39.5dB(A)	50dB(A)	39dB(A)

Notes:

(1) *Acceptable Noise Level for Area Sensitivity Ratings "B" stipulated in the *Technical Memorandum for the Assessment of Noise from Places other than Domestic Premises, Public Places or Construction Sites*.

(2) In any event, the Area Sensitivity Rating and the ANLs adopted in this report are only indicative and they are used for assessment only. It should be noted that noise from fixed sources is controlled under Section 13 of the NCO. Therefore, the Noise Control Authority shall determine fixed plant noise impact on the basis of prevailing legislation and practices being in force, and taking account of contemporary conditions / situations of adjoining land uses. The assessment of noise impacts from fixed sources in this report shall not bind the Noise Control Authority in the context of law enforcement against any of the industrial noise being assessed.

3.3 NOISE SENSITIVE RECEIVERS

- 3.3.1 The assessment area for noise impact should generally be defined by a distance of 300m from the site boundary. These NSRs include both the existing and planned sensitive developments.
- 3.3.2 The representative existing and planned NSRs are identified by means of reviewing topographic maps, aerial photos, land status plans, relevant Outline Zoning Plans (OZP), Outline Development Plans, Layout Plans and other relevant published land use plans, including plans and drawings published by Lands Department and land use and development applications approved by the Town Planning Board, and supplemented by site inspections.
- 3.3.3 With reference to the RNTPC Paper No. A/YL/252A for Proposed Composite School and Religious Institution (Church) Development in Yuen Long Baptist Church, it is noted that the eastern, southern and northern sides of the building will be installed with fixed windows and will not rely on openable window for ventilation. Therefore, the Yuen Long Baptist Church is not considered as an NSR. The RNTPC Paper is extracted in **Appendix 3.7**.
- 3.3.4 The representative NSRs of the proposed Site are identified in **Table 3.4** and presented in **Figure 2**.

Table 3.4 Representative NSRs

NSR	Location	Type of use	No. of storey	Distance form site boundary (m)
N01	Village House	Residential	1	15
N02	Village House	Residential	2	50
N03	Village House	Residential	2	31
B4	Proposed Development	Residential	5	-
B8		Residential	5	-
B18		Residential	5	-
H4	Siu Lo	Residential	2	-

3.4 IDENTIFICATION OF FIXED NOISE SOURCES IMPACT

Existing Fixed Noise Source

- 3.4.1 Desktop review and site inspection was carried out on 15 June 2020, 11, 17, 23, 29 March 2022 to identify any potential fixed plant noise source in the vicinity of the proposed Site and justify their operation hour. During the site survey, Man Cheong Metals and Building Materials Company Limited, Evergetic Development Co. Ltd., six vehicle repairing workshops, a motor service centre, three storage warehouses, a Hang Heung Cake Factory, Tai Sang Animals Feeds Factory, a machinery repair workshop, a Caltex Gas Station were identified within 300m from the proposed Site. A planned Petrol cum LPG Filling Station was also identified from the document of Proposed Amendments to the Approved Yuen Long Outline Zoning Plan No. S/YL/21 (Ref. RNTPC Paper No. 9/15). The locations of the identified potential fixed plant noise sources are shown on **Figure 3**. The photo records of identified fixed noise sources are provided in the **Appendix 3.1**.
- 3.4.2 Man Cheong Metals and Building Materials Company Limited and Evergetic Development Co. Ltd. were identified share the same entrance during site inspection. The operation of the two company involved loading and unloading activities. Two forklifts were observed in operation, each company served by one forklift. No evening or night time operation was observed. Thus, it is considered as a potential noise source.
- 3.4.3 A total of six repair workshops for repairing vehicle and motor service centre were identified during site inspection. The operation of the shops mainly involved grinding, hammering and air-compressor noise, no high-powered mechanical equipment was used in operation of all workshops. Measurements were taken when detectable noise level was perceived at locations where influences from other noisy activities were as minimal as possible. No evening or night time operation for all workshops was observed.
- 3.4.4 Three storage warehouses with no observable noisy activity were identified in the far southwest of the proposed site during site inspection (>100m). In addition to the distance attenuation, all of the warehouses were under sheltered or enclosed environment which provide a shielding effect to minimize the noise transmitted to the surrounding environment. No evening or night time operation for all warehouses was observed. Therefore, they are not considered as potential noise source.
- 3.4.5 A Hang Heung Cake factory was identified during site inspection. No operation was observed during day-time, evening-time and night-time. Three cooling towers were observed during the site visit, no detectable noise was generated. Therefore, it is not considered as a potential noise source. For conservative approach, the sound power level of previous S.16 application was adopted in the assessment.
- 3.4.6 An animals feeds factory was identified during site inspection. Window typed air conditioners and exhaust fan were identified during the site survey while no noticeable noise was perceived. No evening or night time operation for the factory was observed. In addition, no direct line of sight from the proposed Site is expected due to the obstruction of the Hang Heung Cake Factory. Therefore, it is not considered as a potential noise source.
- 3.4.7 A machinery repair workshop was identified located west to the proposed site. No noticeable noise was perceived. No evening or night time operation of the

workshop was observed. Therefore, they are not considered as potential noise source. For conservative approach, the sound power level of previous S.16 application was adopted in the assessment.

- 3.4.8 A Caltex gas station with 24-hour operation was identified during site inspection. Split-typed air conditioners were identified, no detectable noise was observed during the site survey. **No noisy activities was observed during night time.** Therefore, it is not considered as a potential noise source. For conservative approach, the sound power level of previous S.16 application was adopted in the assessment.
- 3.4.9 According to the document of Proposed Amendments to the Approved Yuen Long Outline Zoning Plan No. S/YL/21 (Ref. RNTPC Paper No. 9/15), a planned Petrol cum LPG Filling Station will be located in the far southwest (>250m) to the proposed Site. No direct line of sight from the proposed Site is expected due to the obstruction of the future youth hostel. With a large distance attenuation, it is not considered as a potential noise source. For conservative approach, the sound power level of Caltex gas station of previous S.16 application was adopted in the assessment.
- 3.4.10 The location of existing fixed plant noise source is provided in **Figure 4**. Existing fixed noise source identified on-site and the respective SWL are provided in **Appendix 3.4**.

Planned Fixed Noise Source

- 3.4.11 The information regarding the sound power level and the quantity of the unitary A/C unit is not available from project proponent at this time. The assessment approach is to specify a maximum cumulative allowable sound power level of the plant equipment which is determined by backward calculation with a known maximum allowable impact sound level i.e. the adopted criteria. The proposed maximum cumulative allowable sound power level shall be applicable at any point measured at the site boundary of the proposed development.
- 3.4.12 The proposed maximum allowable Sound Power Level of the planned fixed noise sources are shown in **Table 3.5**. For the planned fixed noise sources, tonality correction of 3 dB(A) has been applied for conservative approach. Detailed calculation of the Maximum Allowable Sound Power Level (SWL) of the corresponding planned fixed noise sources is provided in **Appendix 3.2**. The maximum allowable SWLs of the planned fixed noise sources would be specified in the specification during design and tender stage for noise control purpose. The project applicant shall be responsible to ensure compliance of requirements as stipulated in the HKPSG and the NCO.

Table 3.5: Maximum Cumulative Allowable SWL of Planned Noise Sources at site boundary

Noise Source	Maximum Cumulative Allowable Sound Power Level (SWL), dB(A)	
	Day-time	Night-time
Building Equipment in the Proposed site	67	65

3.5 ASSESSMENT RESULTS

- 3.5.1 Assessment results for each NSRs at day/evening-time and night-time periods are summarized in **Table 3.6**. Detailed calculations are shown in **Appendix 3.3**.

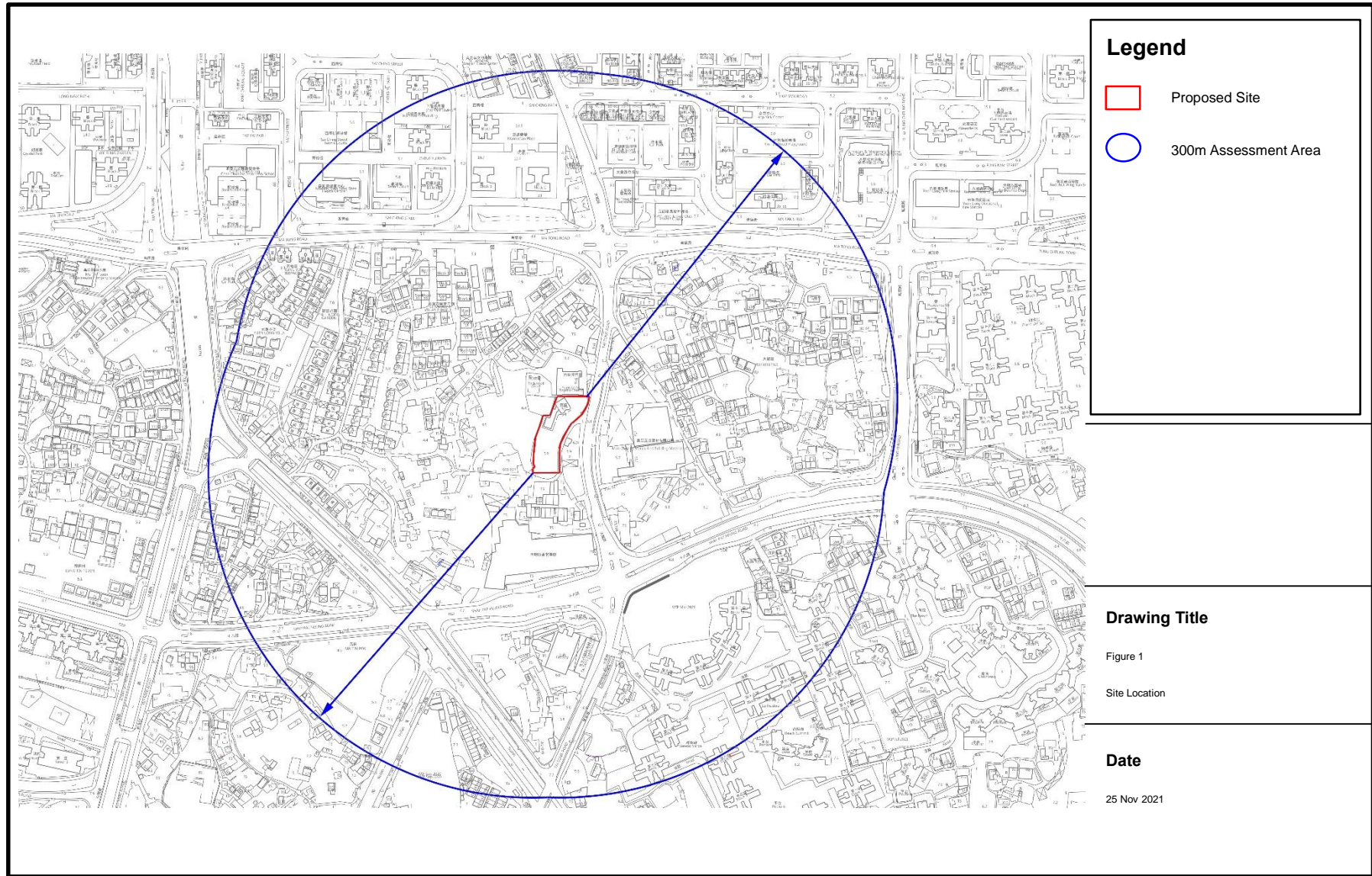
Table 3.6: Predicted Fixed Noise Level at NSRs of the Site due to Existing Noise Source

Representative Noise Sensitive Receiver ID	Existing Fixed Noise Source		Noise Criteria, (Daytime and Evening-time / Night-time), dB(A)	Comply? Y/N
	Predicted Noise Level, Leq,dB(A) (Daytime and Evening-time)	Predicted Noise Level, Leq,dB(A) (Night-time)		
B4	58	34	65/55	Y
B8	55	36	65/55	Y
B18	63	46	65/55	Y
H4	57	23	65/55	Y

- 3.5.2 The assessment results indicate that the maximum predicted noise level at the existing fixed noise sources is Leq 63 dB(A).
- 3.5.3 The predicted noise levels comply with the respective standards as stipulated in IND-TM. Therefore, the Proposed Development will not be subject to adverse noise impact from fixed sources.

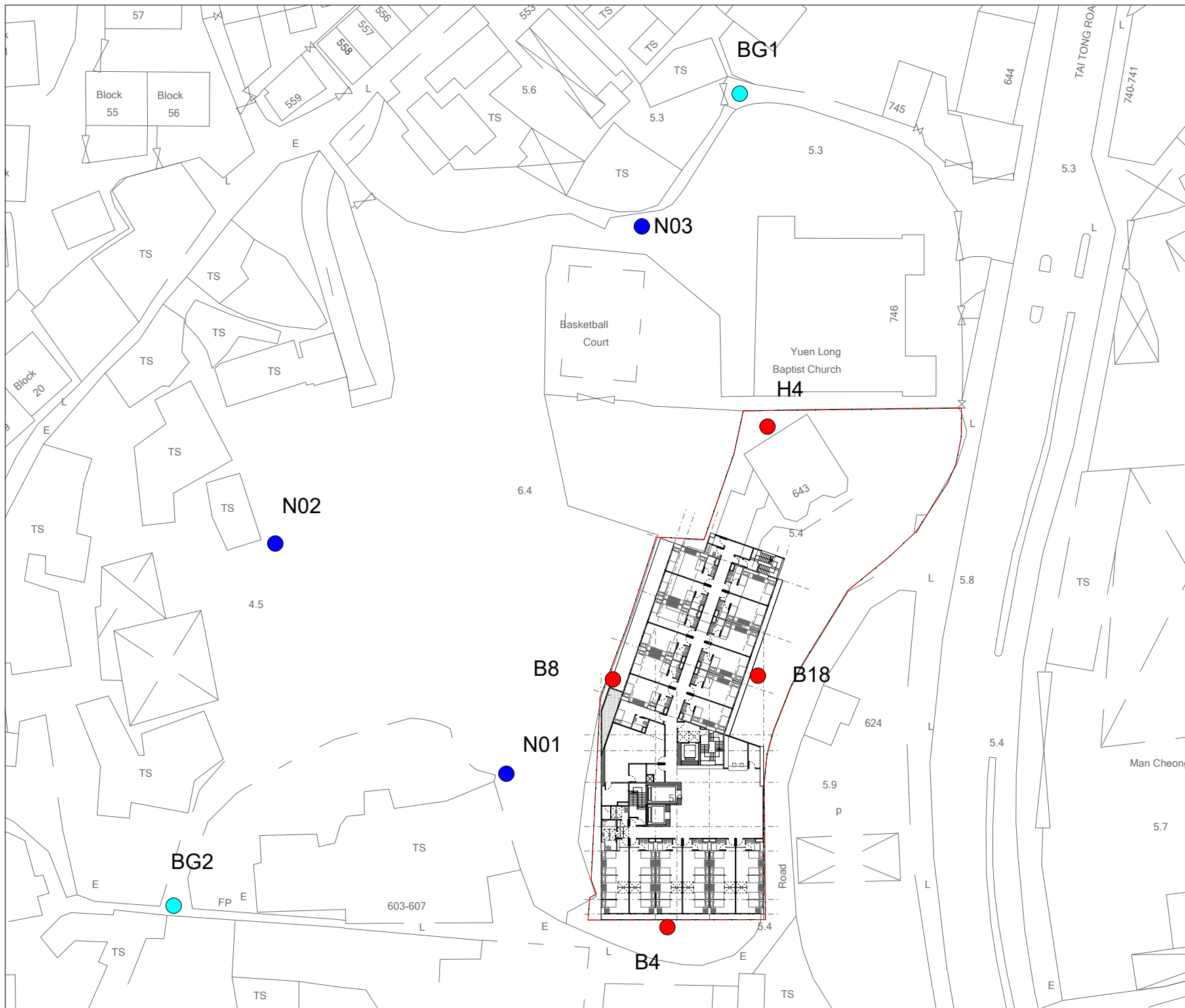
4 CONCLUSION

- 4.1 Road traffic impact assessment and fixed noise impact assessment have been conducted for the proposed development.
- 4.2 Road traffic would be the major source of noise nuisance during the Project operation. After implementation of recommended mitigation measures, the predicted noise levels at all residential units comply with HKPSG $L_{10}(1 \text{ hour})$ 70dB(A) noise criterion.
- 4.3 Fixed noise impact assessment has been carried out. The future residents are subjected to noises from the nearby vehicle repairing workshops and warehouses, as well as the planned fixed plant of the proposed Site. Based on the findings of site investigation and assessment results, the predicted fixed noise levels of the proposed Site would comply with the relevant noise criteria.



LEGEND:

- Site Layout
- Existing NSR
- Planned NSR
- Background Noise Measurement

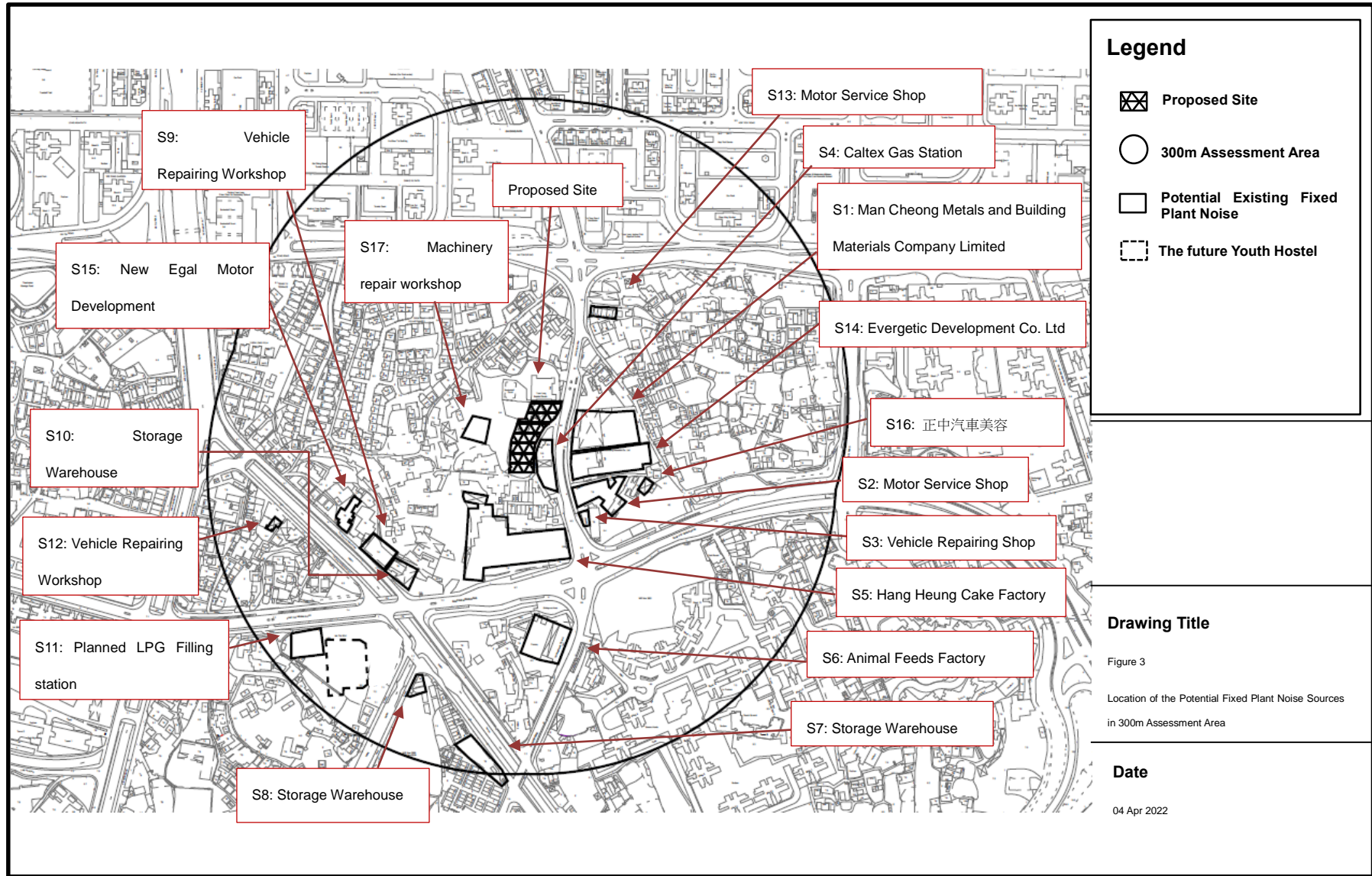


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DrawingTitle
 PLANNED AND EXISTING NSRS OF
 THE PROPOSED SITE


Drawing No. FIGURE 2	Rev. 0
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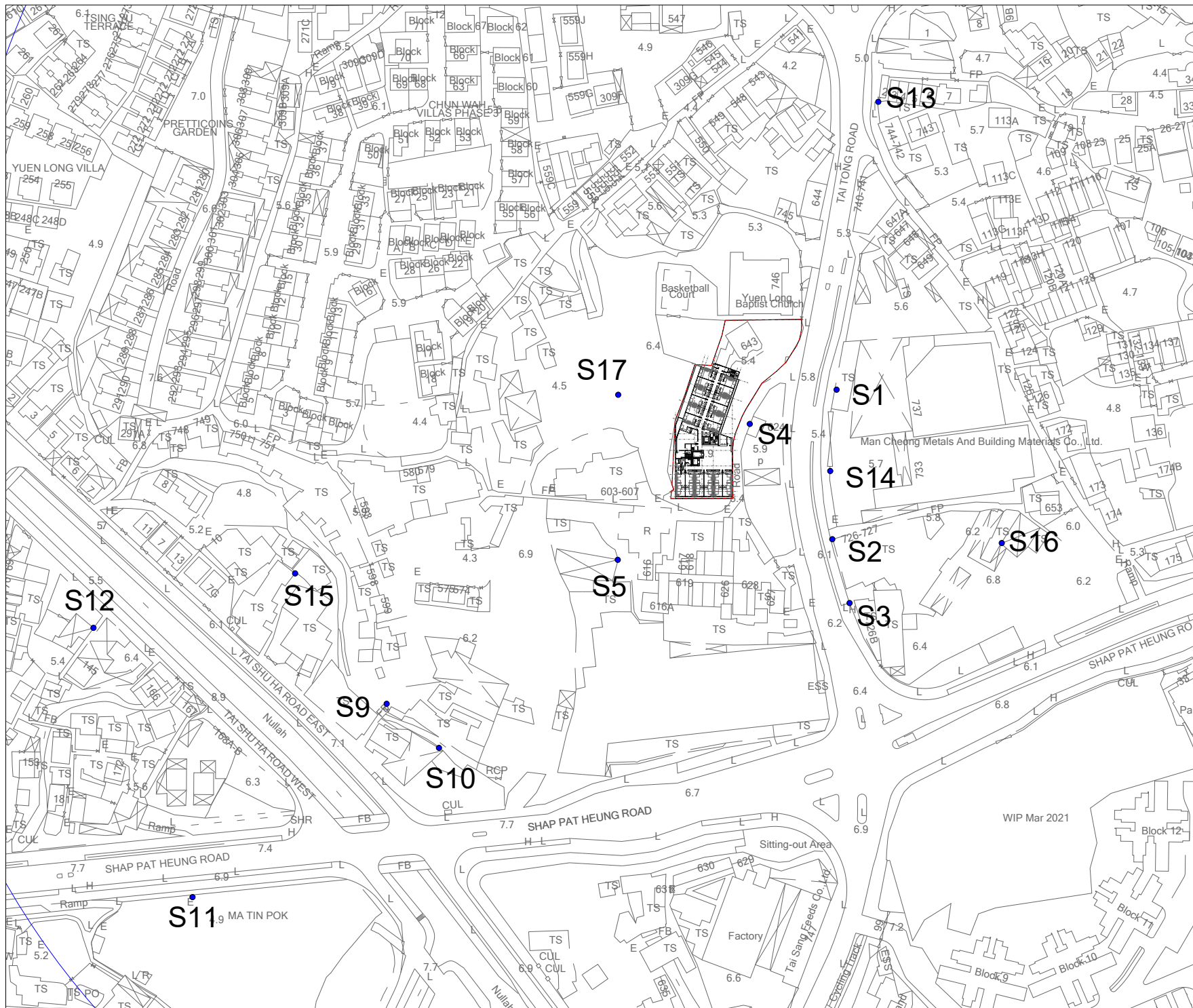
Scale:
 A4 - 1:700



LEGEND:

 Site Layout

 Existing Fixed Plant Noise Assessment Point



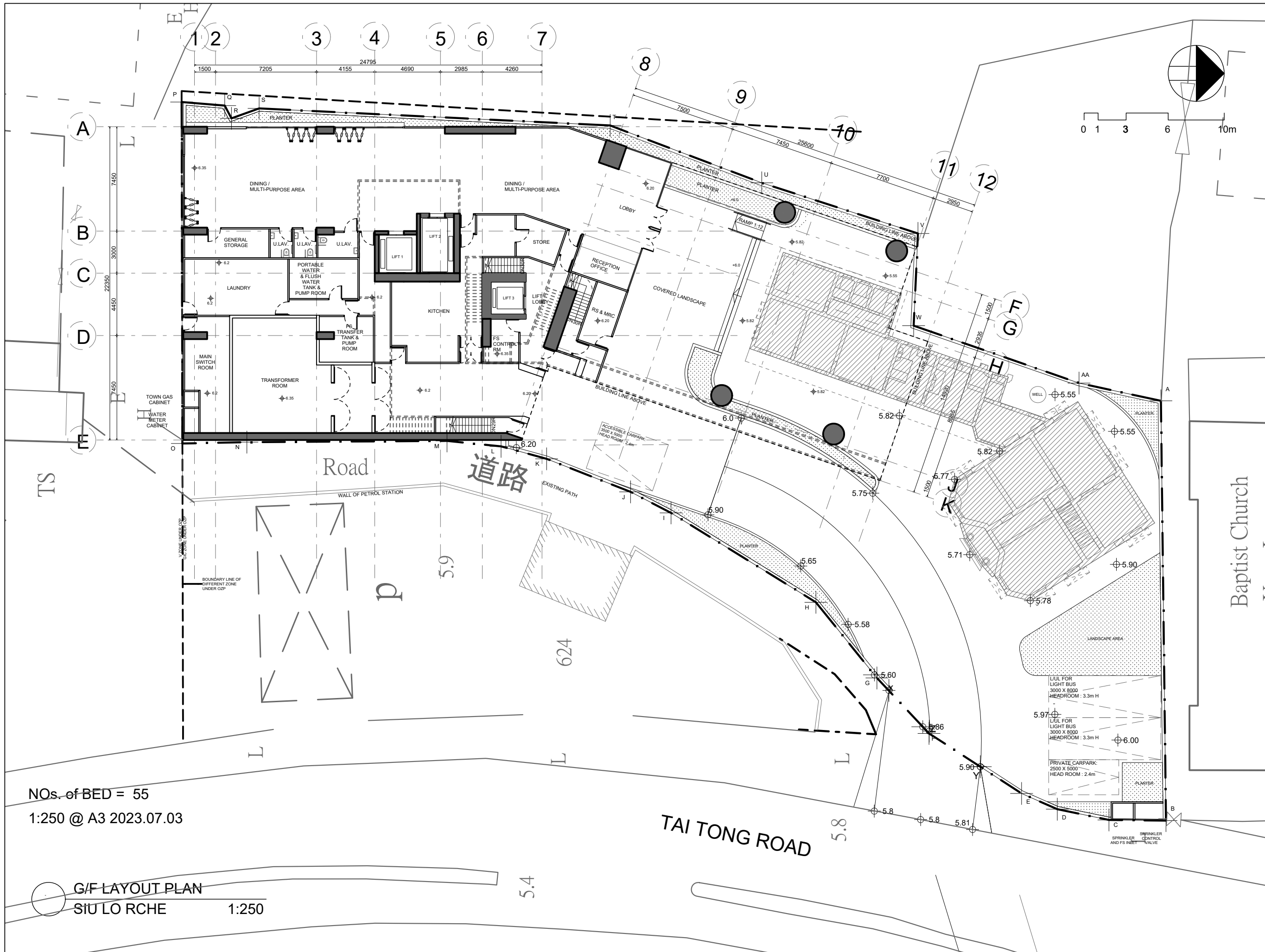
	Prepared	Checked	Approved
Initial	BW	CC	YS
Date	20230823	20230823	20230823

DrawingTitle
 PLANNED AND EXISTING FIXED
 PLANT NOISE SOURCES

Drawing No. FIGURE 4	Rev. 0
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Scale:
 A4 - 1:2000

APPENDIX 1 MASTER LAYOUT PLAN



NOs. of BED = 55
1:250 @ A3 2023.07.03

G/F LAYOUT PLAN
SIU LO RCHE 1:250

PROJECT NO. HK-A22006
項目編號:

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△	DESIGN	20221116
△	DESIGN	20221118
△	DESIGN	20221128
△	DESIGN	20221205
△	DESIGN	20221227
△	DESIGN	20221230
△	DESIGN	20230210
△	DESIGN	20230315
△	DESIGN	20230705
△	DESIGN	20230809

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Tel 電話: 2493 3626

ARCHITECT 建築師:

MINOR CREATIVE 細 創 意

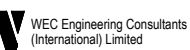
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TRAFFIC CONSULTANT 交通顧問:



PROJECT NAME
項目名稱:

Proposed Minor Relaxation of Building Height Restriction for Permitted Social Welfare Facility (Residential Care Home for the Elderly) and Proposed House Use with Conservation Proposal at Lot nos. 1695 S.E ss.1 RP, 1695 S.F ss.1 and 1695 S.H RP (Part) in D.D. 120 and Adjoining Government Land, Tai Kei Leng, Yuen Long

DRAWING TITLE
圖紙名稱: G/F LAYOUT PLAN

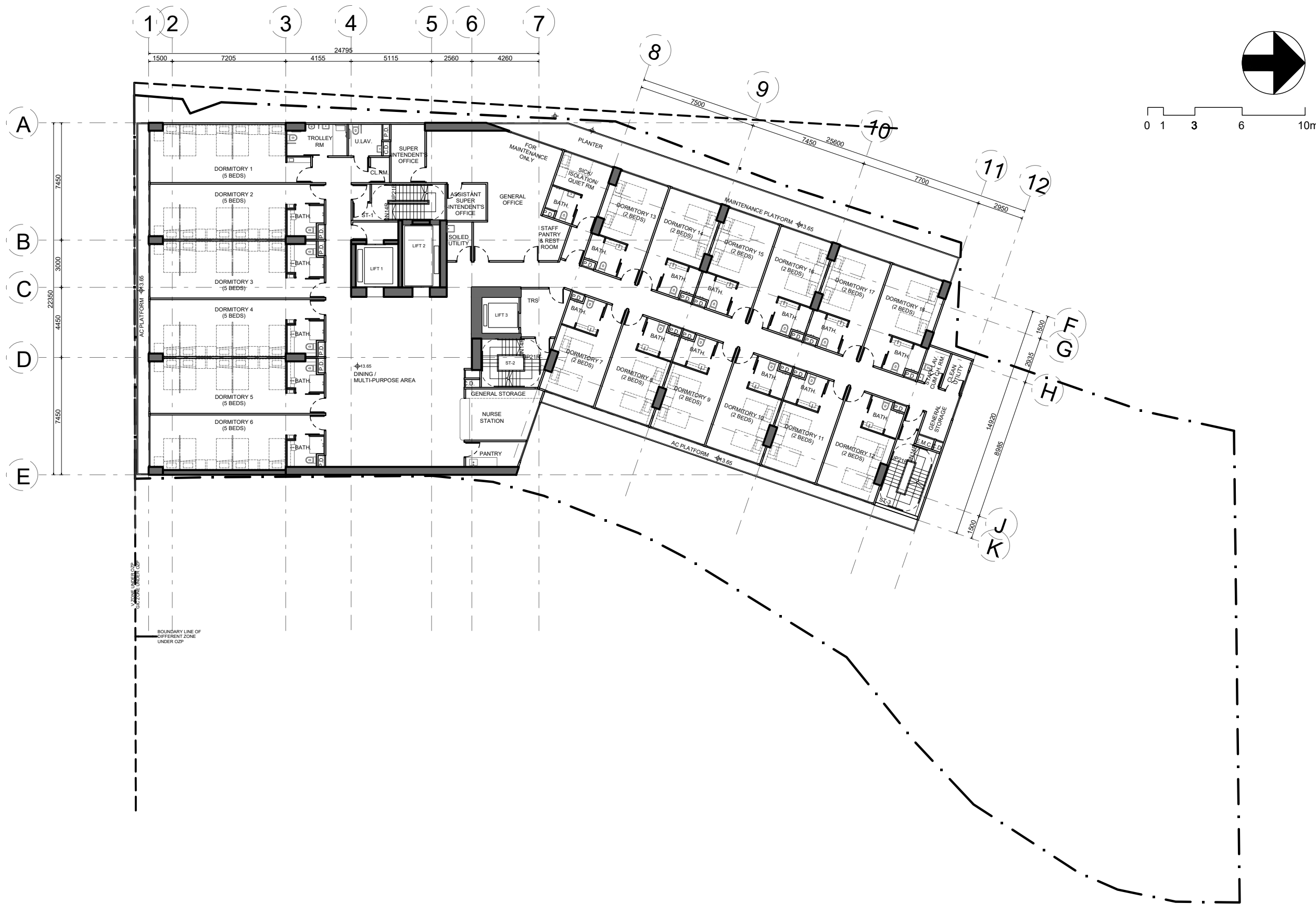
DESIGN IN CHARGE
設計負責人 KL

DWG NO.
圖紙編號:

SCALE
比例: 1:250@A3
DATE
日期: 20230705

P-101

APPENDIX 1 MASTER LAYOUT PLAN



PROJECT NO. **HK-A22006**
項目編號:

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△	DESIGN	20221128
△	DESIGN	20221205
△	DESIGN	20221227
△	DESIGN	20221230
△	DESIGN	20230210
△	DESIGN	20230315
△	DESIGN	20230705

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CTA Consultants Limited
志達顧問有限公司

PROJECT NAME
項目名稱:

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DRAWING TITLE
圖紙名稱:

1/F LAYOUT PLAN

DESIGN IN CHARGE 設計負責人: **KL**
DWG NO. 圖紙編號:

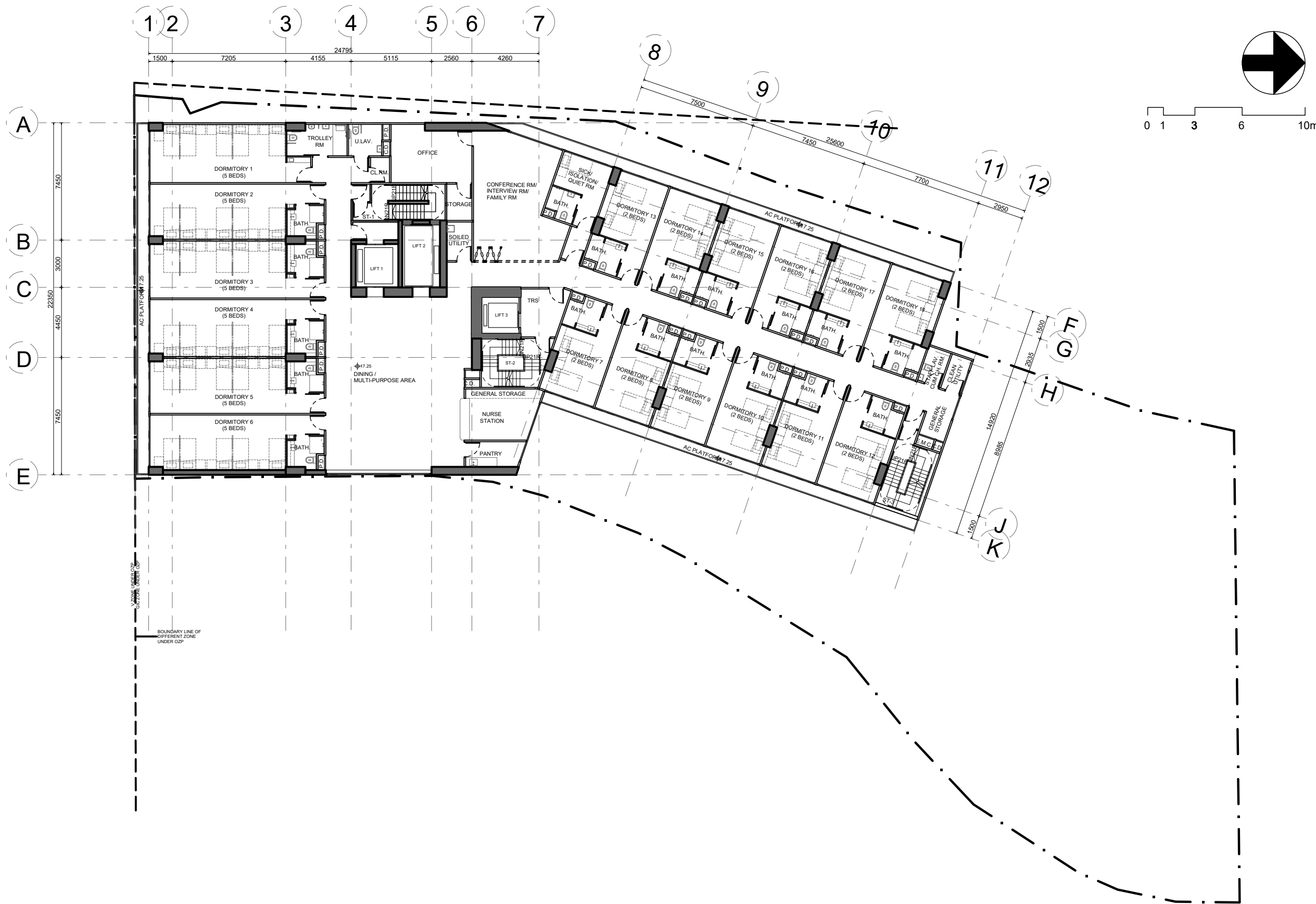
SCALE 比例: **1:250@A3**

DATE 日期: **20230705**

P-102

1/F LAYOUT PLAN
SIU LO RCHE 1:250

APPENDIX 1 MASTER LAYOUT PLAN



2/F LAYOUT PLAN
SIU LO RCHE 1:250

PROJECT NO. **HK-A22006**
項目編號:

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△	DESIGN	20221230
△	DESIGN	20230210
△	DESIGN	20230315
△	DESIGN	20230705

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E&M CONSULTANT 機電顧問:
WEC Engineering Consultants (International) Limited
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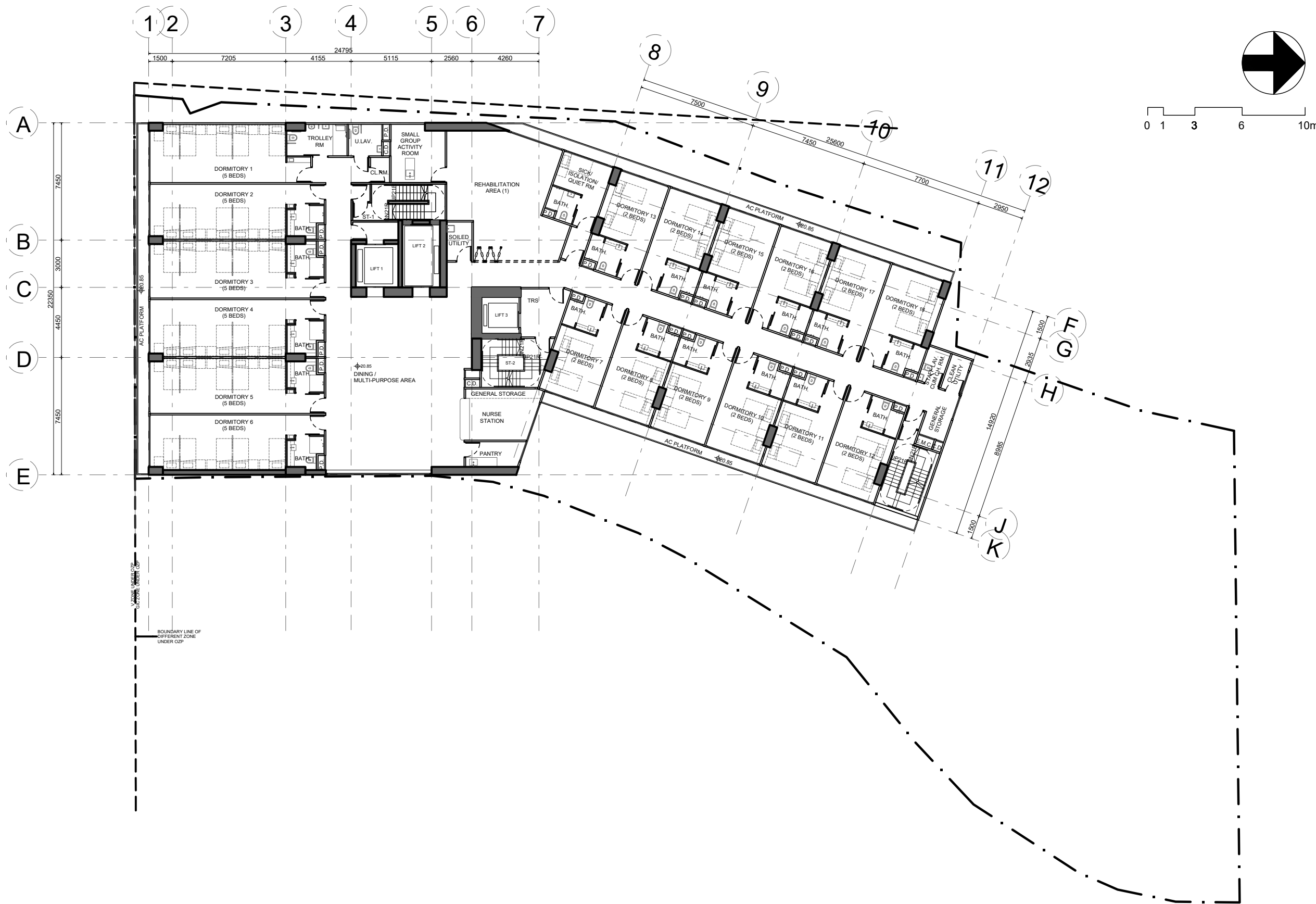
TRAFFIC CONSULTANT 交通顧問:
CTA Consultants Limited
志達顧問有限公司

PROJECT NAME
項目名稱:
Proposed Minor Relaxation of Building Height Restriction for Permitted Social Welfare Facility (Residential Care Home for the Elderly) and Proposed House Use with Conservation Proposal at Lot nos. 1695 S.E ss.1 RP, 1695 S.F ss.1 and 1695 S.H RP (Part) in D.D. 120 and Adjoining Government Land, Tai Kei Leng, Yuen Long

DRAWING TITLE
圖紙名稱: **2/F LAYOUT PLAN**

DESIGN IN CHARGE 設計負責人 KL	DWG NO. 圖紙編號:
SCALE 比例: 1:250@A3	P-103
DATE 日期: 20230705	

APPENDIX 1 MASTER LAYOUT PLAN



3/F LAYOUT PLAN
SIU LO RCHE 1:250

PROJECT NO. **HK-A22006**
項目編號:

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△	DESIGN	20221116
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△	DESIGN	20221128
△	DESIGN	20221205
△	DESIGN	20221227
△	DESIGN	20221230
△	DESIGN	20230210
△	DESIGN	20230315
△	DESIGN	20230705

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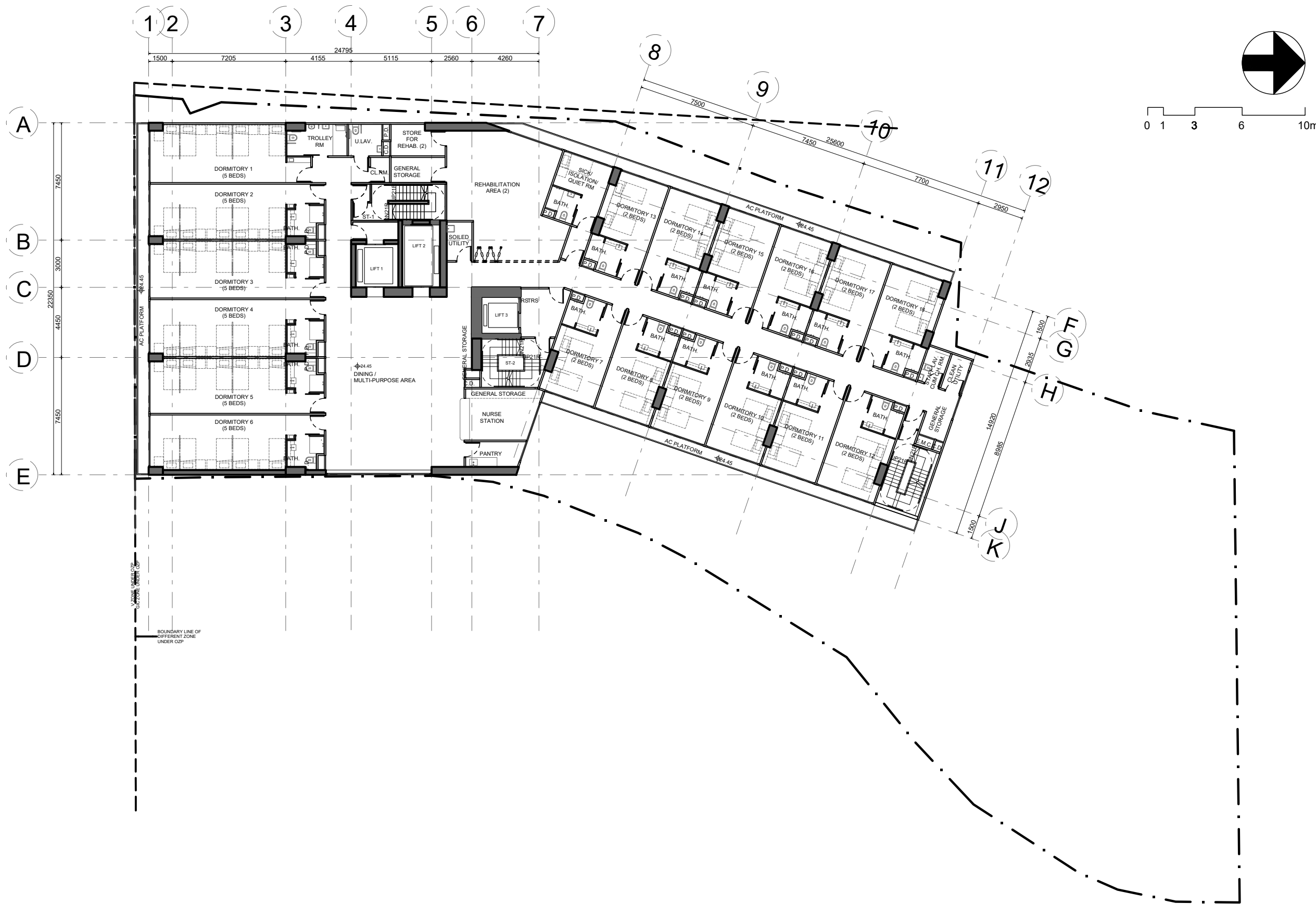
TRAFFIC CONSULTANT 交通顧問:
CTA Consultants Limited
志達顧問有限公司

PROJECT NAME
項目名稱:
Proposed Minor Relaxation of Building Height Restriction for Permitted Social Welfare Facility (Residential Care Home for the Elderly) and Proposed House Use with Conservation Proposal at Lot nos. 1695 S.E ss.1 RP, 1695 S.F ss.1 and 1695 S.H RP (Part) in D.D. 120 and Adjoining Government Land, Tai Kei Leng, Yuen Long

DRAWING TITLE
圖紙名稱: **3/F LAYOUT PLAN**

DESIGN IN CHARGE 設計負責人 KL	DWG NO. 圖紙編號:
SCALE 比例: 1:250@A3	P-104
DATE 日期: 20230705	

APPENDIX 1 MASTER LAYOUT PLAN



PROJECT NO. **HK-A22006**
項目編號:

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△	DESIGN	20221227
△	DESIGN	20221230
△	DESIGN	20230210
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志達顧問有限公司

PROJECT NAME
項目名稱:

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DRAWING TITLE
圖紙名稱:

4/F LAYOUT PLAN

DESIGN IN CHARGE
設計負責人: KL

DWG NO.
圖紙編號:

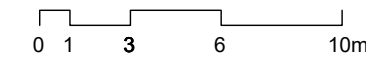
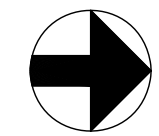
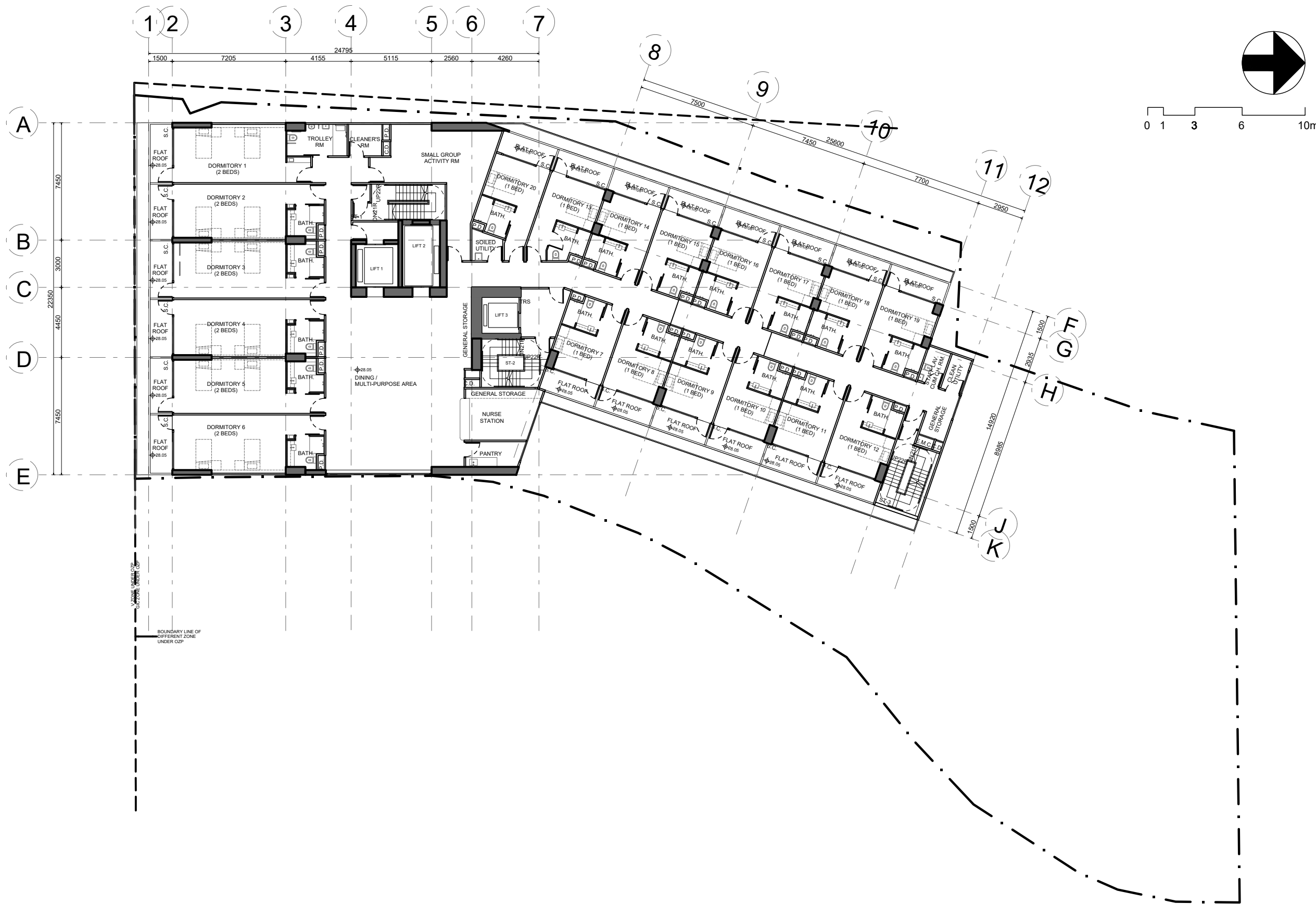
SCALE
比例: 1:250@A3

P-105

DATE
日期: 20230705

4/F LAYOUT PLAN
SIU LO RCHE 1:250

APPENDIX 1 MASTER LAYOUT PLAN



5/F LAYOUT PLAN
SIU LO RCHE 1:250

PROJECT NO. **HK-A22006**
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E&M CONSULTANT 機電顧問:
WEC Engineering Consultants (International) Limited
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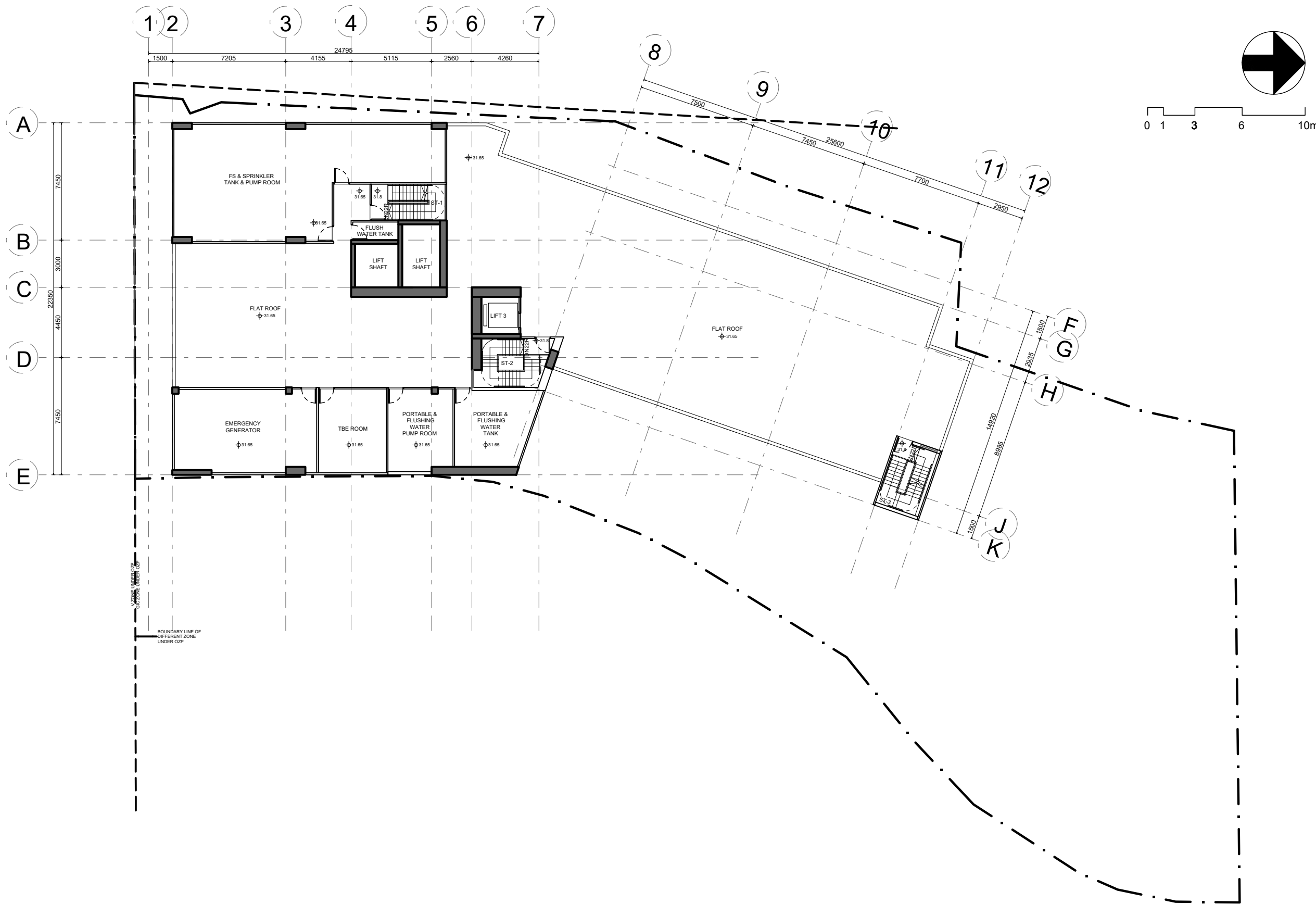
TRAFFIC CONSULTANT 交通顧問:
CTA Consultants Limited
志達顧問有限公司

PROJECT NAME
項目名稱:
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DRAWING TITLE
圖紙名稱: **5/F LAYOUT PLAN**

DESIGN IN CHARGE 設計負責人 KL	DWG NO. 圖紙編號:
SCALE 比例: 1:250@A3	P-106
DATE 日期: 20230705	

APPENDIX 1 MASTER LAYOUT PLAN



PROJECT NO. HK-A22006
項目編號:

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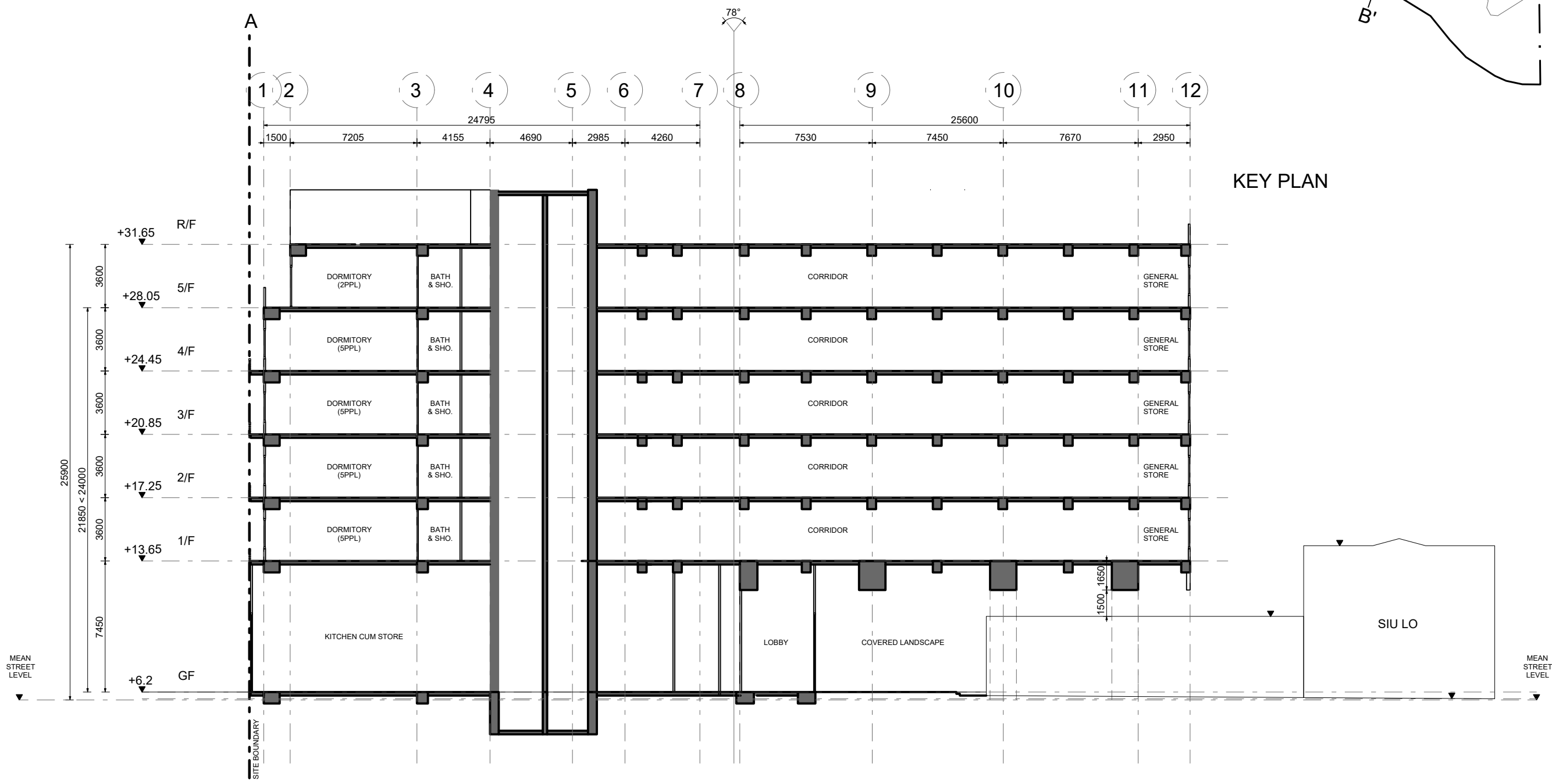
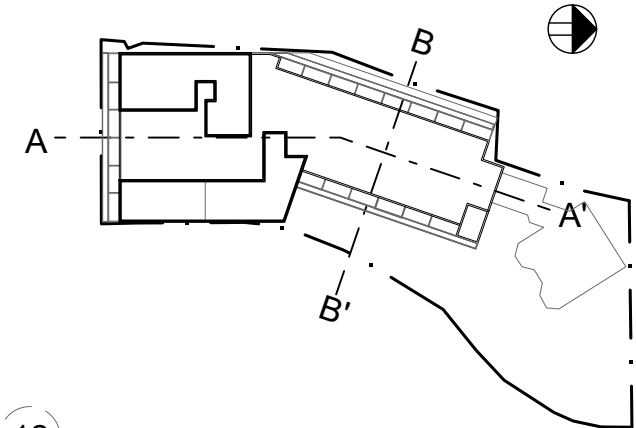
PROJECT NAME
項目名稱:
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DRAWING TITLE
圖紙名稱: R/F LAYOUT PLAN

DESIGN IN CHARGE 設計負責人 KL	DWG NO. 圖紙編號:
SCALE 比例: 1:250@A3	P-107
DATE 日期: 20230705	

R/F LAYOUT PLAN
SIU LO RCHE 1:250

APPENDIX 1 MASTER LAYOUT PLAN



PROJECT NO. HK-A22006
項目編號: HK-A22006

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△	DESIGN	20221227
△	DESIGN	20221230
△	DESIGN	20230315
△	DESIGN	20230707

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PROJECT NAME
項目名稱:
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DRAWING TITLE
圖紙名稱: SCHEMATIC SECTION A

DESIGN IN CHARGE
設計負責人: KL

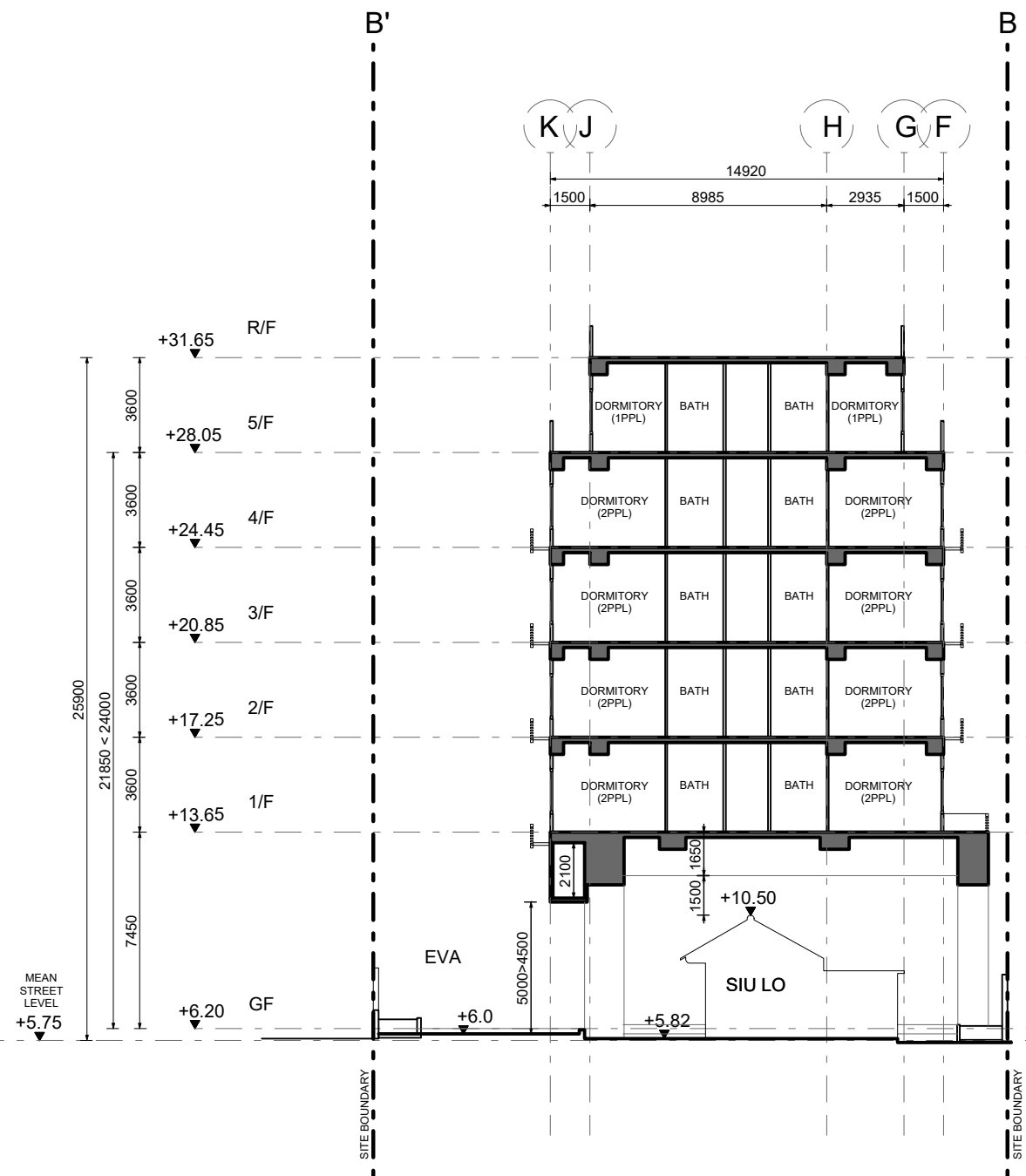
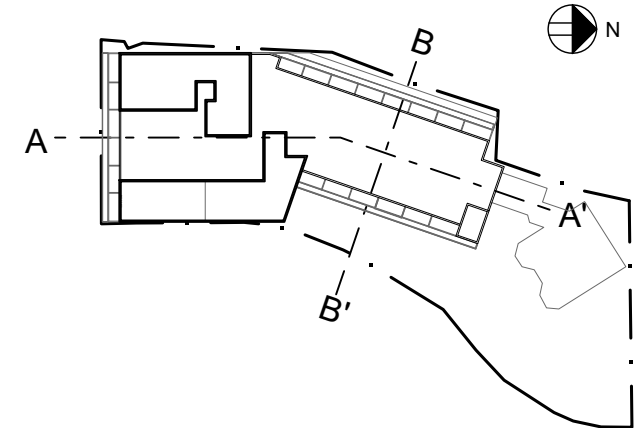
DWG NO.
圖紙編號:

SCALE
比例: 1:250@A3

DATE
日期: 20230707

S-101

APPENDIX 1 MASTER LAYOUT PLAN




SCHEMATIC SECTION BB'
 SIU LO RCHE 1:200

PROJECT NO. **HK-A22006**
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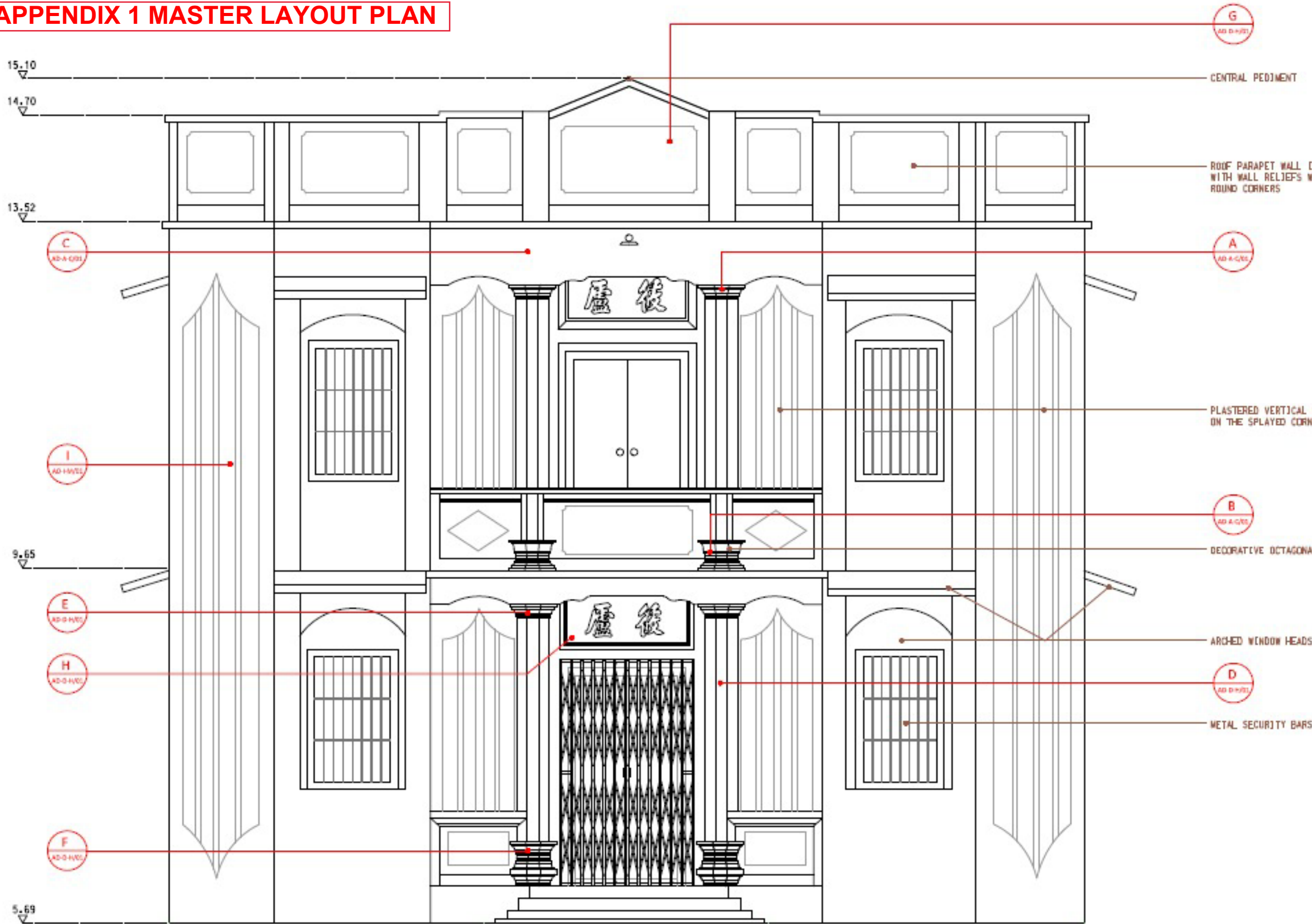
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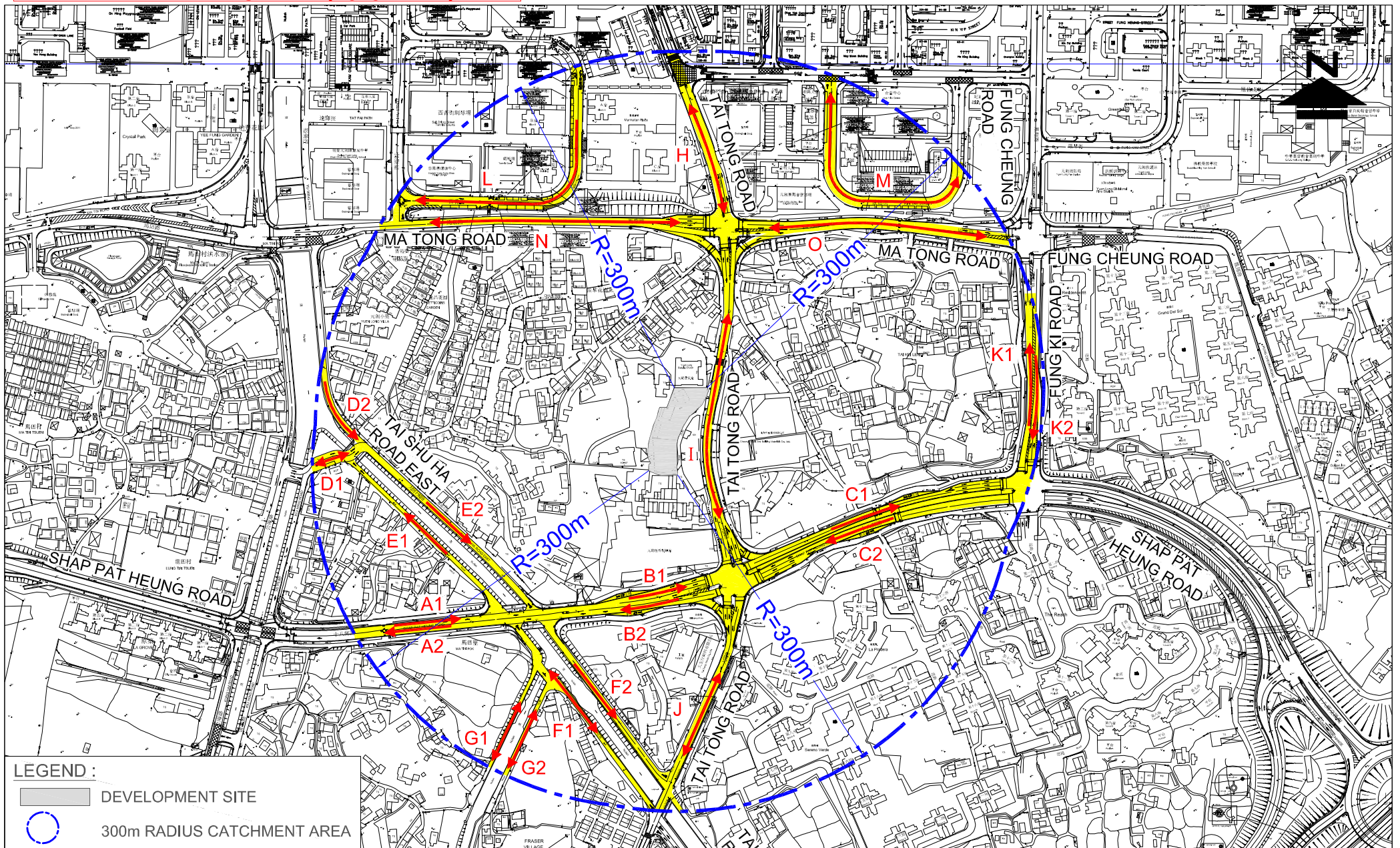
DRAWING TITLE
 圖紙名稱: **SCHEMATIC SECTION B**

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DATE 日期: 20230707	

APPENDIX 1 MASTER LAYOUT PLAN



APPENDIX 2.1 TRAFFIC DATA (2040 YEAR)



LEGEND:

- DEVELOPMENT SITE
- 300m RADIUS CATCHMENT AREA

FIGURE NO.:	1	PROJECT TITLE:	
PROJECT NO.:	21120HK	DRAWING TITLE:	INDEX PLAN
SCALE:	DATE:		
1 : 4500 @A4	04 OCT 2021		

CTA Consultants Limited
志達顧問有限公司

APPENDIX 2.1 TRAFFIC DATA (2040 YEAR)

Town Planning Application of Siu Lo, Tai Kei Leng, Yuen Long 2040 Traffic Forecasts for Traffic Noise Impact Assessment (TNIA)

Road Link	Road Name	Direction	Speed Limit (km/h)	AM Peak		PM Peak	
				2040 Peak Hour Traffic Flows (in veh/hr)	% of HV	2040 Peak Hour Traffic Flows (in veh/hr)	% of HV
A1	Shap Pat Heung Road	EB	50	720	21%	430	17%
A2	Shap Pat Heung Road	WB	50	350	24%	370	15%
B1	Shap Pat Heung Road	EB	50	770	24%	500	16%
B2	Shap Pat Heung Road	WB	50	350	33%	460	20%
C1	Shap Pat Heung Road	EB	50	1070	21%	680	16%
C2	Shap Pat Heung Road	WB	50	610	23%	710	18%
D1	Kiu Hing Road	Two-way	50	170	28%	160	19%
D2	Tai Shu Ha Road East	SB	50	250	25%	260	20%
E1	Tai Shu Ha Road West	NB	50	20	8%	30	13%
E2	Tai Shu Ha Road East	SB	50	150	20%	170	8%
F1	Tai Shu Ha Road West	Two-way	50	130	23%	120	14%
F2	Tai Shu Ha Road East	SB	50	180	19%	230	10%
G1	Local Road	Two-way	50	10	20%	10	20%
G2	Local Road	Two-way	50	20	20%	20	20%
H	Tai Tong Road	Two-way	50	950	17%	1220	11%
I	Tai Tong Road	Two-way	50	1150	23%	1050	16%
J	Tai Tong Road	Two-way	50	1010	27%	880	16%
K1	Fung Ki Road	NB	50	590	16%	690	9%
K2	Fung Ki Road	SB	50	400	14%	620	11%
L	Sai Ching Street	WB	50	370	14%	380	8%
M	Kin Tak Street	Two-way	50	200	5%	150	4%
N	Ma Tong Road	Two-way	50	600	15%	580	6%
O	Ma Tong Road	Two-way	50	340	18%	420	9%

Notes : (1) Please refer to the Location Plan (i.e. Figure 1) attached in Appendix A.
 (2) HV includes Light Van, Public Light Bus, Light Goods Vehicle, Medium Goods Vehicle, Heavy Bus includes Coach and Bus

Appendix 2.1 TD Endorsement



本署檔案 Our Ref. : (NKWA9) in TD NR157/161/YLDD-120
 來函檔號 Your Ref. : 21120HK/kvl/wkk/03
 電話 Tel. : 2399 2565
 圖文傳真 Fax : 2381 3799
 電郵 Email : szemanfok@td.gov.hk

5 August 2022

CTA Consultants Ltd.
 Unit 801, 8/F, Technology Plaza,
 651 King's Road, North Point, Hong Kong

Attn: Kelvin LEUNG

Dear Mr LEUNG,

**Proposed Residential Development Conservation of
 a Grade 3 Historic Building in Yuen Long Siu Lo**

**Technical Note on Methodology for Estimating Traffic Forecasts for Traffic Noise
 Impact Assessment (TNIA) Summary of 'Responses to Comments' (June 2022)**

We have no comment on your submission.

Yours faithfully,

(FOK Sze-man)
 for Commissioner for Transport

新界分區辦事處
 NT Regional Office
 九龍聯輝街三十號旺角政府合署七樓
 7th Floor, Mong Kok Government Offices, 30 Luen Wan Street, Kowloon.
 圖文傳真 Fax No.: 2381 3799 (新界區) (NTRO)
 網址 Web Site: <http://www.td.gov.hk>

Appendix 2.1 Traffic Consultant Confirmation Letter

CTA Consultants Limited
 Transportation, Planning, Engineering, Research and Development
 We commit We deliver

Our Ref: 21120HK /kvl/wkk/04

By E-mail

(Email: henry.mak@beexergy.com)

19 May 2023

BeeXergy Consulting Limited (BXG)

Unit 2001-05, Apec Plaza,
 49 Hoi Yuen Road, Kwun Tong,
 Kowloon, Hong Kong

Attn: Mr. Henry Mak

Dear Mr. Mak,

**Proposed Residential Development Conservation of
 a Grade 3 Historic Building in Yuen Long Siu Lo**

**Technical Note on Methodology for Estimating Traffic Forecasts for
 Traffic Noise Impact Assessment (TNIA)**

We refer to our submission of traffic forecast and the endorsement letters from Transport Department [Ref No. (NKWA9) in TD NR157/161/YLDD-120] dated 5 August 2022 regarding to the captioned subject as per attached.

We write to confirm that Transport Department's endorsed methodology prepared by us has been strictly adopted in preparing the traffic forecast for the Noise Impact Assessment Report prepared by BeeXergy Consulting Limited (BXG).

Should you have any queries or require further information, please do not hesitate to contact the undersigned or Mr. W K Kwong at 2214 0849.

Thank you very much for your kind attention and we are looking forward to your favourable reply to your earliest convenience.

Yours Faithfully,
 For and on behalf of
 CTA Consultants Ltd.

W.K. Kwong
 Kelvin Leung
 CEO
 Encl.

CTA Consultants Limited 志達顧問有限公司
 Unit 801, 8/F, Technology Plaza, 651 King's Road, North Point, Hong Kong
 香港北角英皇道 651 號科匯中心 8 樓 801 室
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 Email: cta@ctaconsultants.com / website: www.ctaconsultants.com

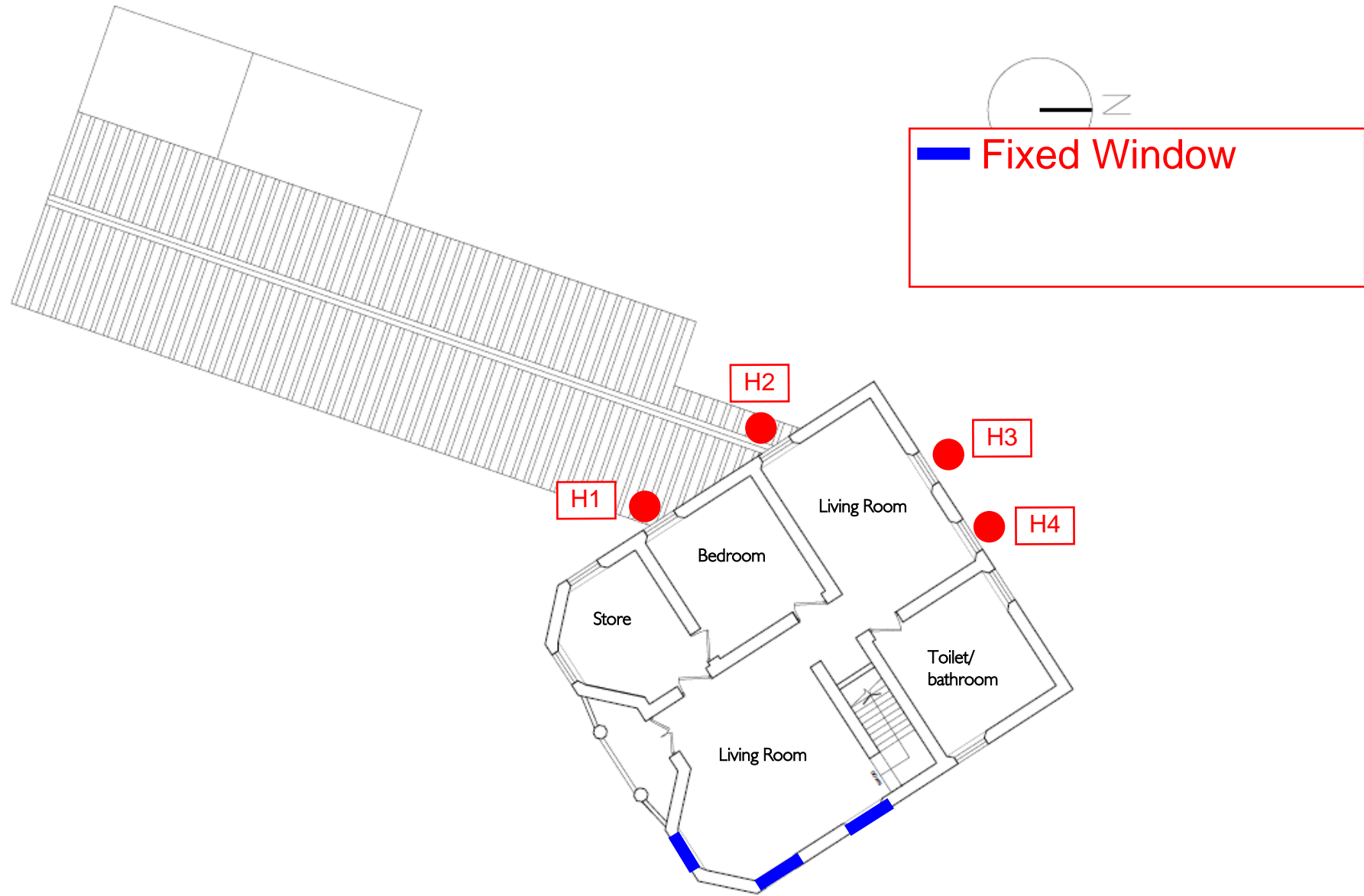


APPENDIX 2.2 TRAFFIC NOISE ASSESSMENT POINT

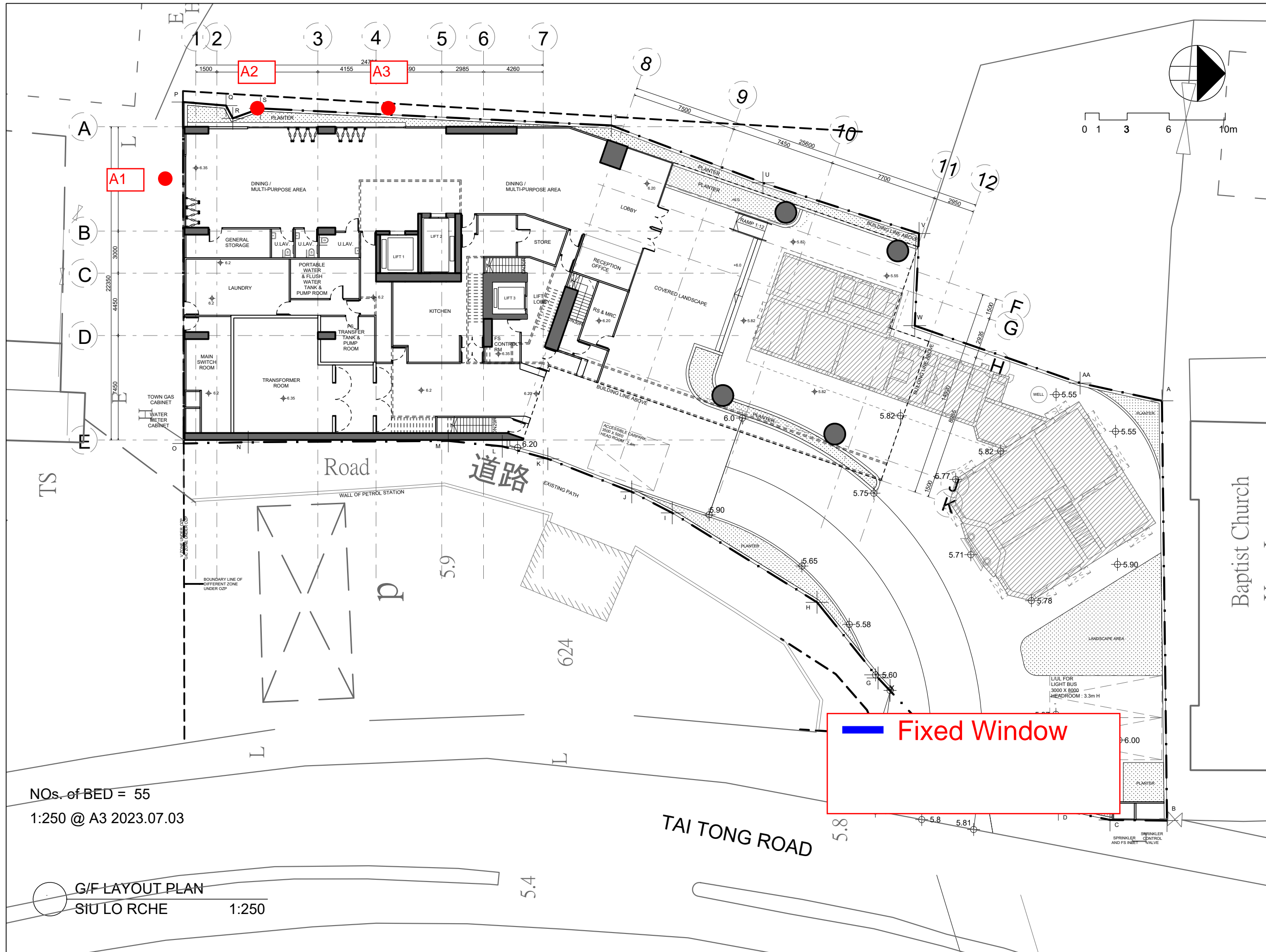


Fig. 306. Proposed uses and works in Siu Lo – Ground Floor.

APPENDIX 2.2 TRAFFIC NOISE ASSESSMENT POINT



APPENDIX 2.2 TRAFFIC NOISE ASSESSMENT POINT



NOs. of BED = 55
1:250 @ A3 2023.07.03

G/F LAYOUT PLAN
SIU LO RCHE 1:250

Fixed Window

PROJECT NO. **HK-A22006**
項目編號:

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DRAWING TITLE
圖紙名稱: **G/F LAYOUT PLAN**

DESIGN IN CHARGE 設計負責人 KL	DWG NO. 圖紙編號:
SCALE 比例: 1:250@A3	P-101
DATE 日期: 20230705	

APPENDIX 2.2 TRAFFIC NOISE ASSESSMENT POINT



1/F LAYOUT PLAN
SIU LO RCHE 1:250

PROJECT NO. HK-A22006
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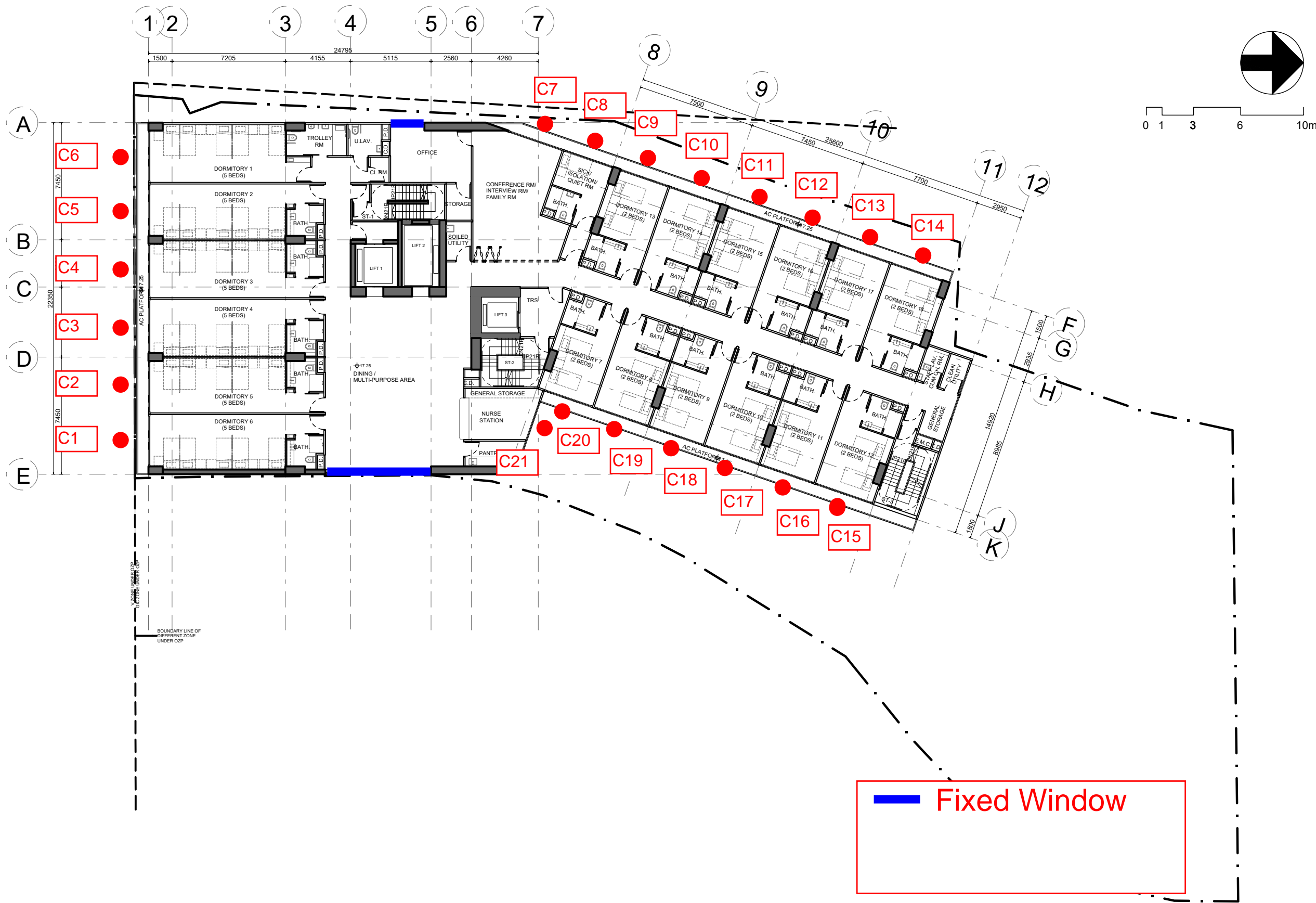
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DRAWING TITLE
圖紙名稱: 1/F LAYOUT PLAN

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DRAWING TITLE
圖紙名稱: 2/F LAYOUT PLAN

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DWG NO.
圖紙編號:

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日期: 20230705
P-103

2/F LAYOUT PLAN
SIU LO RCHE 1:250

APPENDIX 2.2 TRAFFIC NOISE ASSESSMENT POINT



3/F LAYOUT PLAN
SIU LO RCHE 1:250

PROJECT NO. **HK-A22006**
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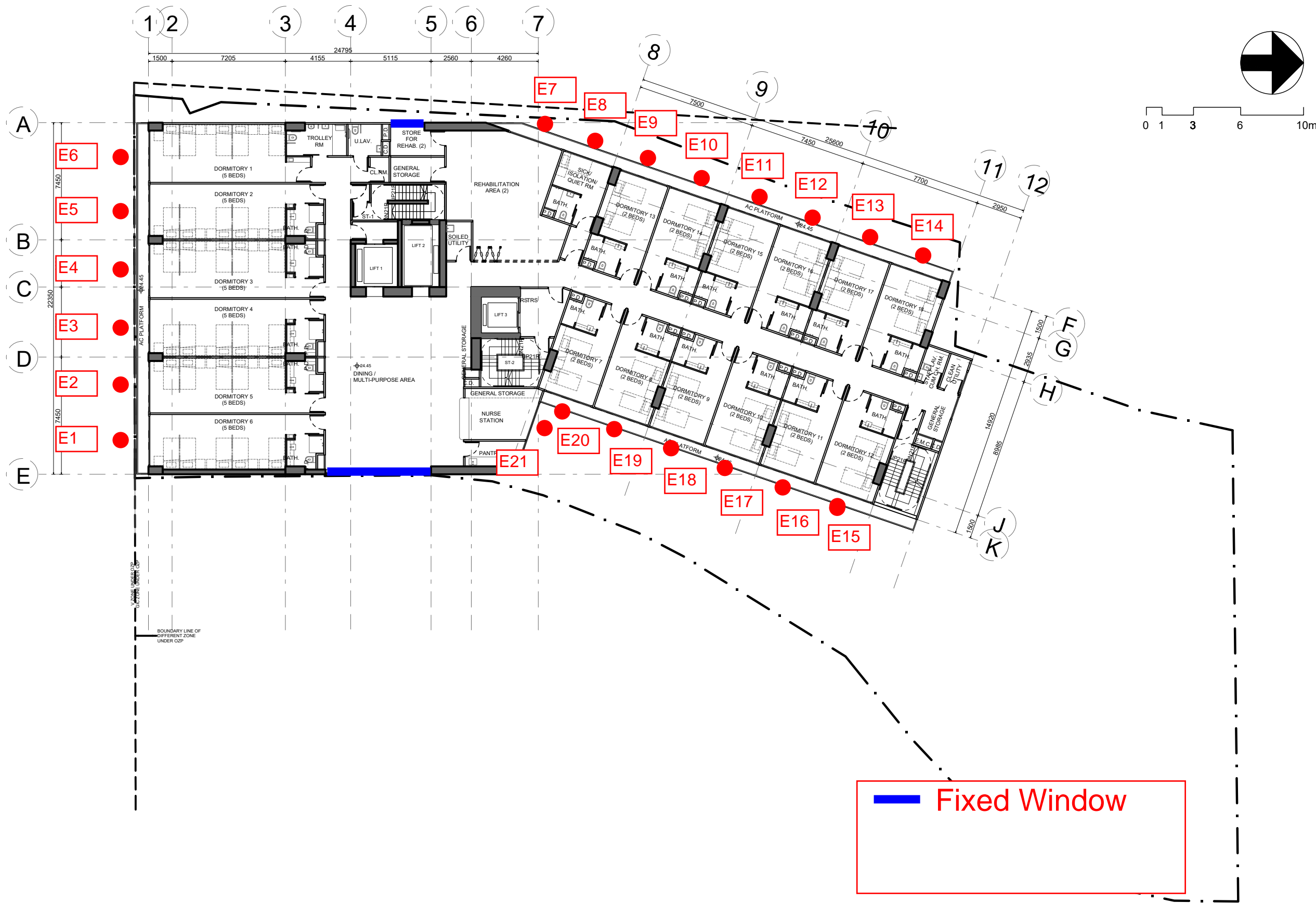
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PROJECT NAME
項目名稱:
Proposed Minor Relaxation of Building Height Restriction for Permitted Social Welfare Facility (Residential Care Home for the Elderly) and Proposed House Use with Conservation Proposal at Lot nos. 1695 S.E ss.1 RP, 1695 S.F ss.1 and 1695 S.H RP (Part) in D.D. 120 and Adjoining Government Land, Tai Kei Leng, Yuen Long

DRAWING TITLE
圖紙名稱: **3/F LAYOUT PLAN**

DESIGN IN CHARGE 設計負責人 KL	DWG NO. 圖紙編號:
SCALE 比例: 1:250@A3	P-104
DATE 日期: 20230705	

APPENDIX 2.2 TRAFFIC NOISE ASSESSMENT POINT



4/F LAYOUT PLAN
SIU LO RCHE 1:250

PROJECT NO. **HK-A22006**
項目編號:

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Revision 修正版	Description 內容	Date 日期
△	DESIGN	20221116
△	DESIGN	20221118
△	DESIGN	20221128
△	DESIGN	20221205
△	DESIGN	20221227
△	DESIGN	20221230
△	DESIGN	20230210
△	DESIGN	20230315
△	DESIGN	20230705

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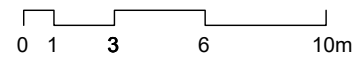
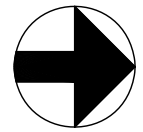
TRAFFIC CONSULTANT 交通顧問:
CTA Consultants Limited
志達顧問有限公司

PROJECT NAME
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DRAWING TITLE
圖紙名稱: **4/F LAYOUT PLAN**

DESIGN IN CHARGE 設計負責人 KL	DWG NO. 圖紙編號:
SCALE 比例: 1:250@A3	P-105
DATE 日期: 20230705	

APPENDIX 2.2 TRAFFIC NOISE ASSESSMENT POINT



5/F LAYOUT PLAN
SIU LO RCHE 1:250

PROJECT NO. HK-A22006
項目編號:

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△	DESIGN	20221128
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△	DESIGN	20230315
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志達顧問有限公司

PROJECT NAME
項目名稱:
Proposed Minor Relaxation of Building Height Restriction for Permitted Social Welfare Facility (Residential Care Home for the Elderly) and Proposed House Use with Conservation Proposal at Lot nos. 1695 S.E ss.1 RP, 1695 S.F ss.1 and 1695 S.H RP (Part) in D.D. 120 and Adjoining Government Land, Tai Kei Leng, Yuen Long

DRAWING TITLE
圖紙名稱: 5/F LAYOUT PLAN

DESIGN IN CHARGE 設計負責人 KL	DWG NO. 圖紙編號:
SCALE 比例: 1:250@A3	P-106
DATE 日期: 20230705	

APPENDIX 2.3 TRAFFIC NOISE RESULT SUMMARY (BASELINE)

Predicted Road Noise Level (AM Section)

Project Name: Proposed RCHE at Lot Nos. 1695 S.E ss.1 RP, 1695 S.F ss.1 and 1695 S.H RP (Part) in D.D. 120 in Tai Kei Leng, Yuen Long			
ID	Description	mPD levels of Noise Assessment Points	Predicted Traffic Noise Level (Base Case), L10 (dB(A))
G/F			
A1	Dining/Multi-Purpose Area	7.4	65.1
A2	Dining/Multi-Purpose Area	7.4	61.1
A3	Dining/Multi-Purpose Area	7.4	61.0
G1	Siu Lo Pantry/ Resting Area	6.9	68.1
G2	Siu Lo Study Room	6.9	66.8
G3	Siu Lo Living Room	6.9	59.1
G4	Siu Lo Living Room	6.9	58.3
G5	Siu Lo Living Room	6.9	54.6
1/F			
B1	Dormitory	14.9	70.4
B2	Dormitory	14.9	69.6
B3	Dormitory	14.9	69.0
B4	Dormitory	14.9	68.6
B5	Dormitory	14.9	68.0
B6	Dormitory	14.9	67.6
B7	General Office	14.9	61.2
B8	Sick/ Isolation/ Quiet Room	14.9	60.9
B9	Dormitory	14.9	60.7
B10	Dormitory	14.9	60.6
B11	Dormitory	14.9	60.7
B12	Dormitory	14.9	60.7
B13	Dormitory	14.9	60.5
B14	Dormitory	14.9	60.5
B15	Dormitory	14.9	72.3
B16	Dormitory	14.9	72.2
B17	Dormitory	14.9	72.1
B18	Dormitory	14.9	72.0
B19	Dormitory	14.9	71.9
B20	Dormitory	14.9	70.2
B21	Nurse Station	14.9	70.2
H1	Siu Lo Bedroom	10.9	66.8
H2	Siu Lo Living Room	10.9	61.1
H3	Siu Lo Living Room	10.9	58.3
H4	Siu Lo Living Room	10.9	55.2
2/F			
C1	Dormitory	18.5	70.9
C2	Dormitory	18.5	70.1
C3	Dormitory	18.5	69.6
C4	Dormitory	18.5	69.1
C5	Dormitory	18.5	68.6
C6	Dormitory	18.5	68.2
C7	Conference Room/ Interview Room/ Family Room	18.5	61.6
C8	Sick/ Isolation/ Quiet Room	18.5	61.5
C9	Dormitory	18.5	61.3
C10	Dormitory	18.5	61.2
C11	Dormitory	18.5	61.2
C12	Dormitory	18.5	61.2
C13	Dormitory	18.5	60.8
C14	Dormitory	18.5	60.7
C15	Dormitory	18.5	72.2
C16	Dormitory	18.5	72.1
C17	Dormitory	18.5	72.1
C18	Dormitory	18.5	71.9
C19	Dormitory	18.5	71.9
C20	Dormitory	18.5	70.2
C21	Nurse Station	18.5	70.2

APPENDIX 2.3 TRAFFIC NOISE RESULT SUMMARY (BASELINE)

3/F			
D1	Dormitory	22.1	71.1
D2	Dormitory	22.1	70.4
D3	Dormitory	22.1	70.0
D4	Dormitory	22.1	69.6
D5	Dormitory	22.1	69.1
D6	Dormitory	22.1	68.7
D7	Rehabilitation Area (1)	22.1	62.0
D8	Sick/ Isolation/ Quiet Room	22.1	62.0
D9	Dormitory	22.1	61.8
D10	Dormitory	22.1	61.7
D11	Dormitory	22.1	61.7
D12	Dormitory	22.1	61.6
D13	Dormitory	22.1	61.2
D14	Dormitory	22.1	61.2
D15	Dormitory	22.1	72.1
D16	Dormitory	22.1	72.0
D17	Dormitory	22.1	72.1
D18	Dormitory	22.1	71.9
D19	Dormitory	22.1	71.9
D20	Dormitory	22.1	70.4
D21	Nurse Station	22.1	70.1
4/F			
E1	Dormitory	25.7	71.1
E2	Dormitory	25.7	70.6
E3	Dormitory	25.7	70.1
E4	Dormitory	25.7	69.8
E5	Dormitory	25.7	69.4
E6	Dormitory	25.7	69.1
E7	Rehabilitation Area (2)	25.7	62.6
E8	Sick/ Isolation/ Quiet Room	25.7	62.5
E9	Dormitory	25.7	62.3
E10	Dormitory	25.7	62.2
E11	Dormitory	25.7	62.1
E12	Dormitory	25.7	62.1
E13	Dormitory	25.7	61.7
E14	Dormitory	25.7	61.8
E15	Dormitory	25.7	72.2
E16	Dormitory	25.7	72.1
E17	Dormitory	25.7	72.1
E18	Dormitory	25.7	72.0
E19	Dormitory	25.7	71.9
E20	Dormitory	25.7	70.4
E21	Nurse Station	25.7	70.2
5/F			
F1	Dormitory	29.3	69.9
F2	Dormitory	29.3	69.5
F3	Dormitory	29.3	69.4
F4	Dormitory	29.3	69.2
F5	Dormitory	29.3	69.0
F6	Dormitory	29.3	68.8
F7	Sick/ Isolation/ Quiet Room	29.3	62.2
F8	Dormitory	29.3	62.6
F9	Dormitory	29.3	62.6
F10	Dormitory	29.3	62.5
F11	Dormitory	29.3	64.6
F12	Dormitory	29.3	62.4
F13	Dormitory	29.3	63.4
F14	Dormitory	29.3	62.4
F15	Dormitory	29.3	70.6
F16	Dormitory	29.3	70.9
F17	Dormitory	29.3	70.9
F18	Dormitory	29.3	70.6
F19	Dormitory	29.3	70.7
F20	Dormitory	29.3	69.2
F21	Nurse Station	29.3	70.3

Remark:

70.5 = Noise Exceedance (highlighted in red)

APPENDIX 2.3 TRAFFIC NOISE RESULT SUMMARY (BASELINE)

Predicted Road Noise Level (PM Section)

Project Name: Proposed RCHE at Lot Nos. 1695 S.E ss.1 RP, 1695 S.F ss.1 and 1695 S.H RP (Part) in D.D. 120 in Tai Kei Leng, Yuen Long			
ID	Description	mPD levels of Noise Assessment Points	Predicted Traffic Noise Level (Base Case), L10 (dB(A))
G/F			
A1	Dining/Multi-Purpose Area	7.4	63.6
A2	Dining/Multi-Purpose Area	7.4	59.2
A3	Dining/Multi-Purpose Area	7.4	59.1
G1	Siu Lo Pantry/ Resting Area	6.9	66.7
G2	Siu Lo Study Room	6.9	65.3
G3	Siu Lo Living Room	6.9	57.1
G4	Siu Lo Living Room	6.9	56.4
G5	Siu Lo Living Room	6.9	53.1
1/F			
B1	Dormitory	14.9	69.0
B2	Dormitory	14.9	68.1
B3	Dormitory	14.9	67.6
B4	Dormitory	14.9	67.2
B5	Dormitory	14.9	66.5
B6	Dormitory	14.9	66.1
B7	General Office	14.9	59.3
B8	Sick/ Isolation/ Quiet Room	14.9	59.0
B9	Dormitory	14.9	58.8
B10	Dormitory	14.9	58.6
B11	Dormitory	14.9	58.9
B12	Dormitory	14.9	58.9
B13	Dormitory	14.9	58.6
B14	Dormitory	14.9	58.5
B15	Dormitory	14.9	70.8
B16	Dormitory	14.9	70.7
B17	Dormitory	14.9	70.6
B18	Dormitory	14.9	70.5
B19	Dormitory	14.9	70.4
B20	Dormitory	14.9	68.7
B21	Nurse Station	14.9	68.6
H1	Siu Lo Bedroom	10.9	65.4
H2	Siu Lo Living Room	10.9	59.5
H3	Siu Lo Living Room	10.9	56.5
H4	Siu Lo Living Room	10.9	53.8
2/F			
C1	Dormitory	18.5	69.4
C2	Dormitory	18.5	68.7
C3	Dormitory	18.5	68.1
C4	Dormitory	18.5	67.6
C5	Dormitory	18.5	67.1
C6	Dormitory	18.5	66.7
C7	Conference Room/ Interview Room/ Family Room	18.5	59.7
C8	Sick/ Isolation/ Quiet Room	18.5	59.7
C9	Dormitory	18.5	59.5
C10	Dormitory	18.5	59.4
C11	Dormitory	18.5	59.4
C12	Dormitory	18.5	59.3
C13	Dormitory	18.5	58.9
C14	Dormitory	18.5	58.8
C15	Dormitory	18.5	70.7
C16	Dormitory	18.5	70.6
C17	Dormitory	18.5	70.6
C18	Dormitory	18.5	70.5
C19	Dormitory	18.5	70.4
C20	Dormitory	18.5	68.7
C21	Nurse Station	18.5	68.7

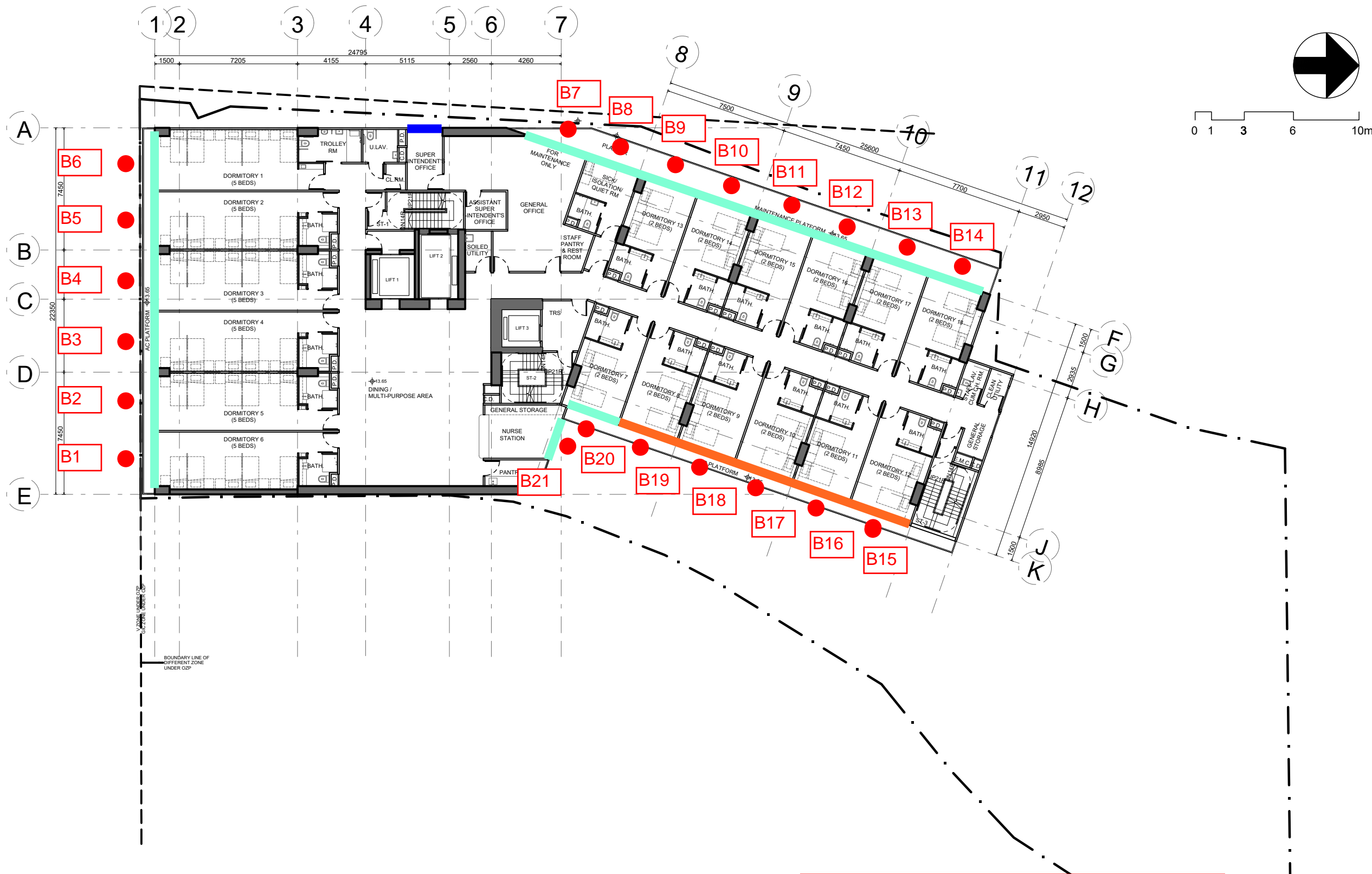
APPENDIX 2.3 TRAFFIC NOISE RESULT SUMMARY (BASELINE)

D1	Dormitory	22.1	69.6
D2	Dormitory	22.1	68.9
D3	Dormitory	22.1	68.5
D4	Dormitory	22.1	68.1
D5	Dormitory	22.1	67.6
D6	Dormitory	22.1	67.2
D7	Rehabilitation Area (1)	22.1	60.2
D8	Sick/ Isolation/ Quiet Room	22.1	60.2
D9	Dormitory	22.1	59.9
D10	Dormitory	22.1	59.8
D11	Dormitory	22.1	59.8
D12	Dormitory	22.1	59.8
D13	Dormitory	22.1	59.3
D14	Dormitory	22.1	59.3
D15	Dormitory	22.1	70.7
D16	Dormitory	22.1	70.6
D17	Dormitory	22.1	70.6
D18	Dormitory	22.1	70.4
D19	Dormitory	22.1	70.4
D20	Dormitory	22.1	68.9
D21	Nurse Station	22.1	68.6
4/F			
E1	Dormitory	25.7	69.7
E2	Dormitory	25.7	69.1
E3	Dormitory	25.7	68.7
E4	Dormitory	25.7	68.3
E5	Dormitory	25.7	67.9
E6	Dormitory	25.7	67.6
E7	Rehabilitation Area (2)	25.7	60.8
E8	Sick/ Isolation/ Quiet Room	25.7	60.7
E9	Dormitory	25.7	60.5
E10	Dormitory	25.7	60.4
E11	Dormitory	25.7	60.4
E12	Dormitory	25.7	60.3
E13	Dormitory	25.7	59.8
E14	Dormitory	25.7	59.9
E15	Dormitory	25.7	70.8
E16	Dormitory	25.7	70.6
E17	Dormitory	25.7	70.6
E18	Dormitory	25.7	70.5
E19	Dormitory	25.7	70.5
E20	Dormitory	25.7	68.9
E21	Nurse Station	25.7	68.7
5/F			
F1	Dormitory	29.3	68.4
F2	Dormitory	29.3	68.0
F3	Dormitory	29.3	67.9
F4	Dormitory	29.3	67.7
F5	Dormitory	29.3	67.5
F6	Dormitory	29.3	67.3
F7	Sick/ Isolation/ Quiet Room	29.3	60.5
F8	Dormitory	29.3	60.8
F9	Dormitory	29.3	60.8
F10	Dormitory	29.3	60.8
F11	Dormitory	29.3	63.0
F12	Dormitory	29.3	60.7
F13	Dormitory	29.3	61.7
F14	Dormitory	29.3	60.6
F15	Dormitory	29.3	69.1
F16	Dormitory	29.3	69.4
F17	Dormitory	29.3	69.4
F18	Dormitory	29.3	69.1
F19	Dormitory	29.3	69.2
F20	Dormitory	29.3	67.6
F21	Nurse Station	29.3	68.8

Remark:

70.5 = Noise Exceedance (highlighted in red)

APPENDIX 2.4 NOISE MITIGATION MEASURES LOCATION



Legend

- Operable Window/Door
- Fixed Window
- Acoustic Window (Baffle Type)

1/F LAYOUT PLAN
SIU LO RCHE 1:250

PROJECT NO. **HK-A22006**
項目編號:

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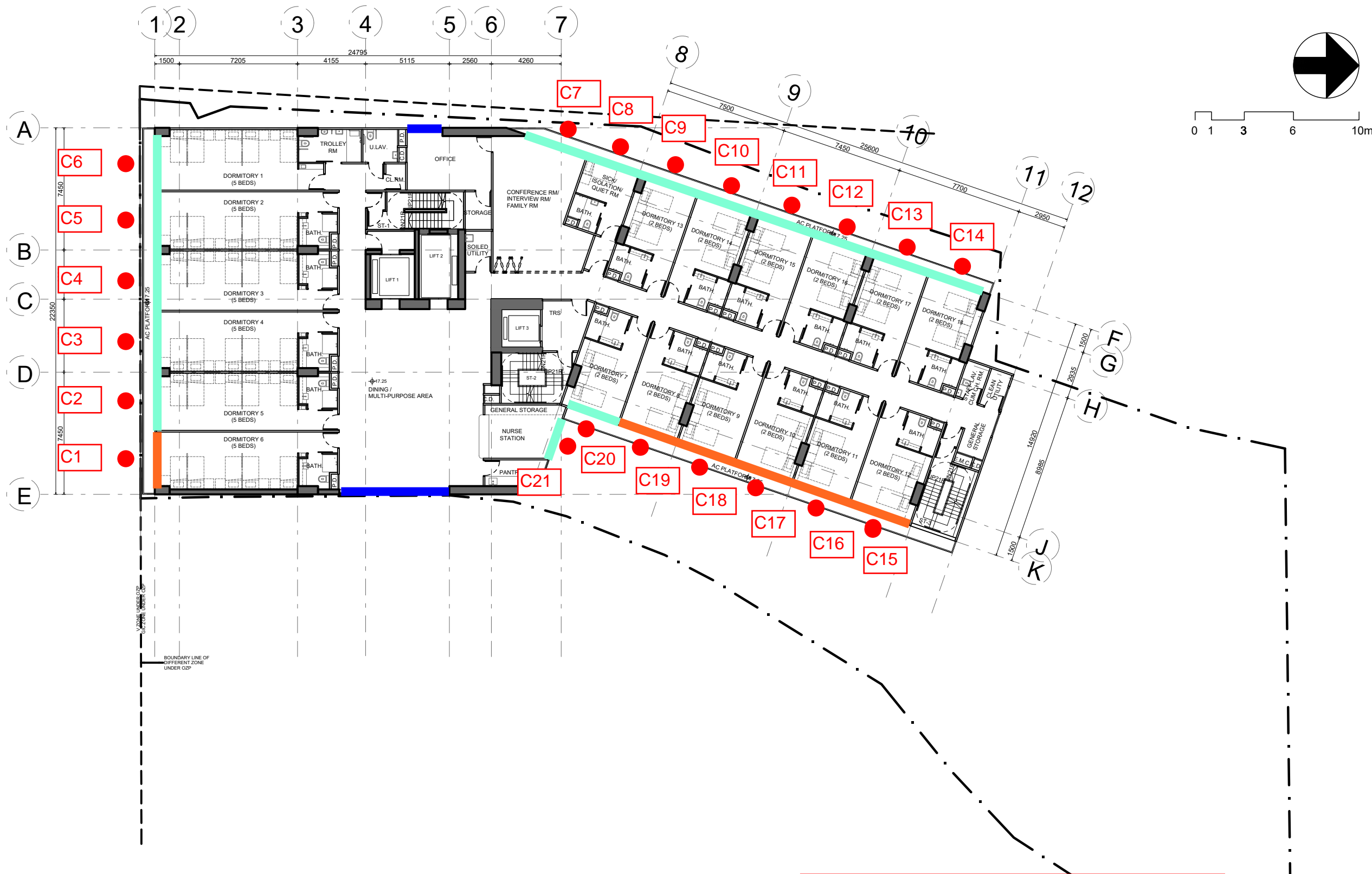
TRAFFIC CONSULTANT 交通顧問:
CTA Consultants Limited 志達顧問有限公司

PROJECT NAME
項目名稱:
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DRAWING TITLE
圖紙名稱: 1/F LAYOUT PLAN

DESIGN IN CHARGE 設計負責人 KL	DWG NO. 圖紙編號:
SCALE 比例: 1:250@A3	P-102
DATE 日期: 20230705	

APPENDIX 2.4 NOISE MITIGATION MEASURES LOCATION



Legend

- Operable Window/Door
- Fixed Window
- Acoustic Window (Baffle Type)

2/F LAYOUT PLAN
SIU LO RCHE 1:250

PROJECT NO. **HK-A22006**
項目編號:

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△	DESIGN	20221118
△	DESIGN	20221128
△	DESIGN	20221205
△	DESIGN	20221227
△	DESIGN	20221230
△	DESIGN	20230210
△	DESIGN	20230315
△	DESIGN	20230705

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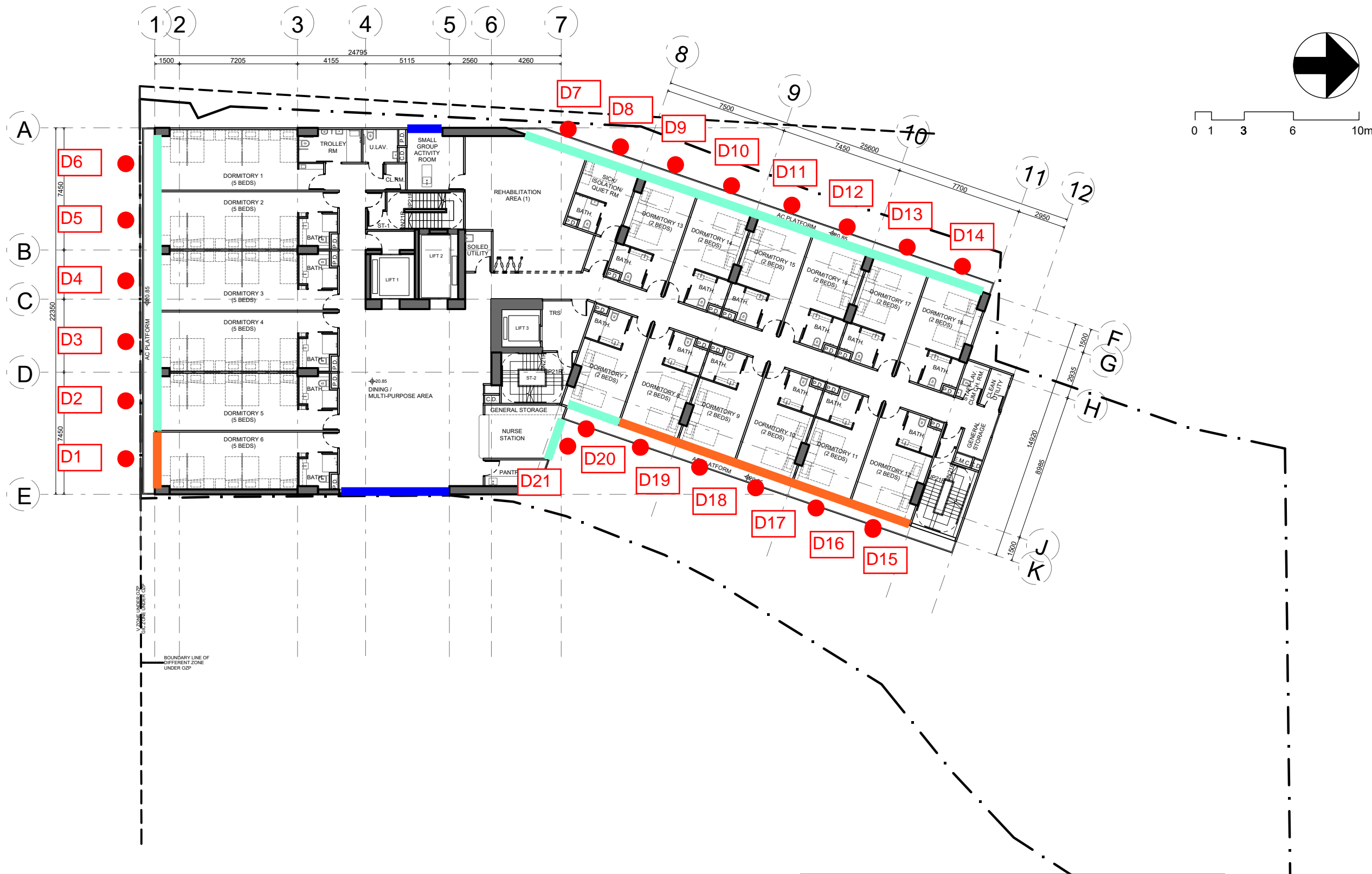
TRAFFIC CONSULTANT 交通顧問:
CTA Consultants Limited
志達顧問有限公司

PROJECT NAME
項目名稱:
Proposed Minor Relaxation of Building Height Restriction for Permitted Social Welfare Facility (Residential Care Home for the Elderly) and Proposed House Use with Conservation Proposal at Lot nos. 1695 S.E ss.1 RP, 1695 S.F ss.1 and 1695 S.H RP (Part) in D.D. 120 and Adjoining Government Land, Tai Kei Leng, Yuen Long

DRAWING TITLE
圖紙名稱: **2/F LAYOUT PLAN**

DESIGN IN CHARGE 設計負責人 KL	DWG NO. 圖紙編號:
SCALE 比例: 1:250@A3	P-103
DATE 日期: 20230705	

APPENDIX 2.4 NOISE MITIGATION MEASURES LOCATION



Legend

- █ Operable Window/Door
- █ Fixed Window
- █ Acoustic Window (Baffle Type)

3/F LAYOUT PLAN
SIU LO RCHE 1:250

PROJECT NO. **HK-A22006**
項目編號:

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更改細節:

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△	DESIGN	20221116
△	DESIGN	20221118
△	DESIGN	20221128
△	DESIGN	20221205
△	DESIGN	20221227
△	DESIGN	20221230
△	DESIGN	20230210
△	DESIGN	20230315
△	DESIGN	20230705

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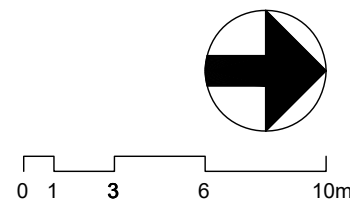
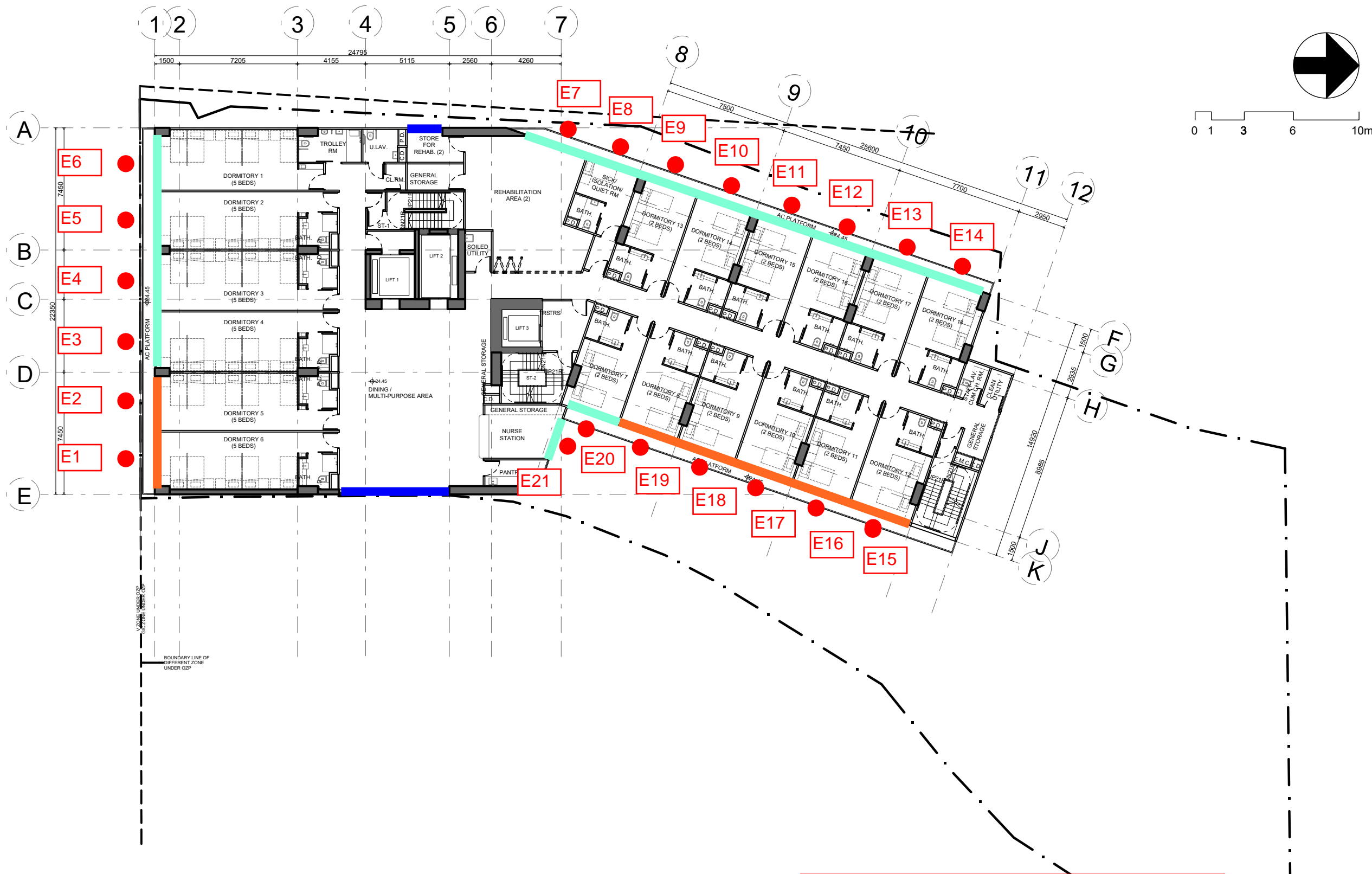
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PROJECT NAME
項目名稱:
Proposed Minor Relaxation of Building Height Restriction for Permitted Social Welfare Facility (Residential Care Home for the Elderly) and Proposed House Use with Conservation Proposal at Lot nos. 1695 S.E ss.1 RP, 1695 S.F ss.1 and 1695 S.H RP (Part) in D.D. 120 and Adjoining Government Land, Tai Kei Leng, Yuen Long

DRAWING TITLE
圖紙名稱: 3/F LAYOUT PLAN

DESIGN IN CHARGE 設計負責人 KL	DWG NO. 圖紙編號:
SCALE 比例: 1:250@A3	P-104
DATE 日期: 20230705	

APPENDIX 2.4 NOISE MITIGATION MEASURES LOCATION



Legend

- Operable Window/Door
- Fixed Window
- Acoustic Window (Baffle Type)

4/F LAYOUT PLAN
SIU LO RCHE 1:250

PROJECT NO. **HK-A22006**
項目編號:

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△	DESIGN	20221118
△	DESIGN	20221128
△	DESIGN	20221205
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△	DESIGN	20230210
△	DESIGN	20230315
△	DESIGN	20230705

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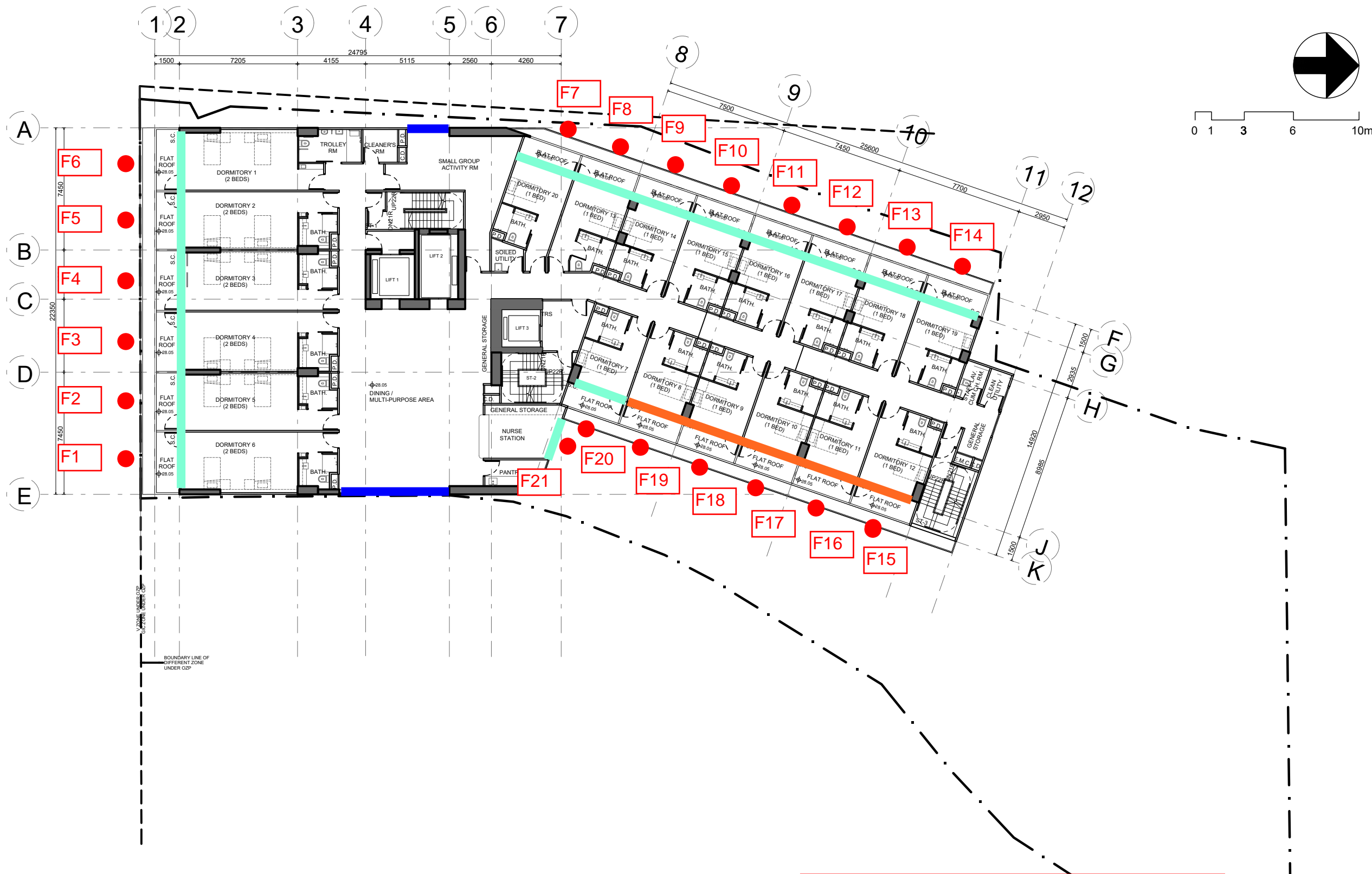
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PROJECT NAME
項目名稱:
Proposed Minor Relaxation of Building Height Restriction for Permitted Social Welfare Facility (Residential Care Home for the Elderly) and Proposed House Use with Conservation Proposal at Lot nos. 1695 S.E ss.1 RP, 1695 S.F ss.1 and 1695 S.H RP (Part) in D.D. 120 and Adjoining Government Land, Tai Kei Leng, Yuen Long

DRAWING TITLE
圖紙名稱: **4/F LAYOUT PLAN**

DESIGN IN CHARGE 設計負責人 KL	DWG NO. 圖紙編號:
SCALE 比例: 1:250@A3	P-105
DATE 日期: 20230705	

APPENDIX 2.4 NOISE MITIGATION MEASURES LOCATION



Legend

- Operable Window/Door
- Fixed Window
- Acoustic Window (Baffle Type)

5/F LAYOUT PLAN
SIU LO RCHE 1:250

PROJECT NO. **HK-A22006**
項目編號:

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Revision 修正版	Description 內容	Date 日期
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△	DESIGN	20221205
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△	DESIGN	20221230
△	DESIGN	20230210
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△	DESIGN	20230705

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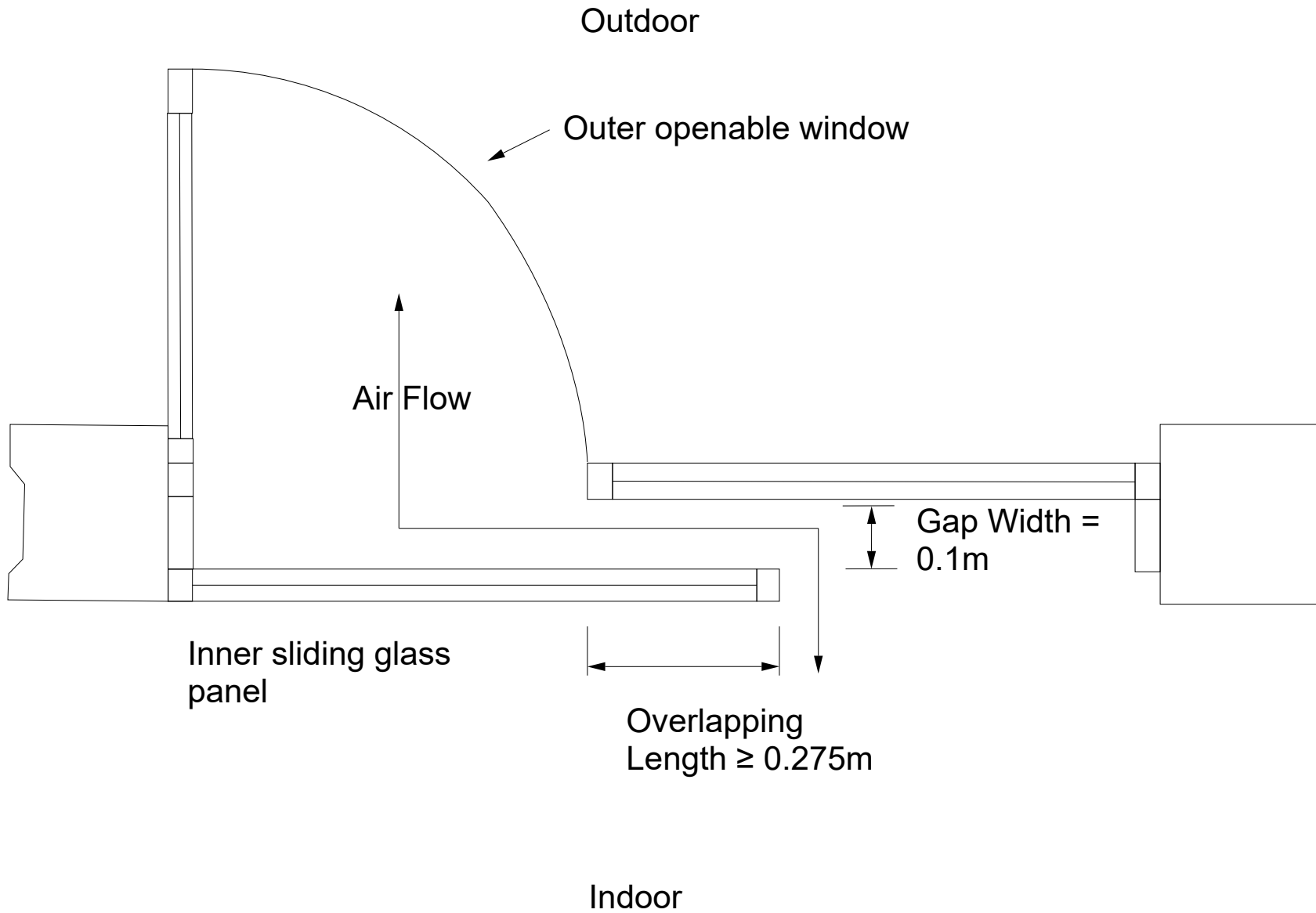
PROJECT NAME
項目名稱:
Proposed Minor Relaxation of Building Height Restriction for Permitted Social Welfare Facility (Residential Care Home for the Elderly) and Proposed House Use with Conservation Proposal at Lot nos. 1695 S.E. ss.1 RP, 1695 S.F. ss.1 and 1695 S.H. RP (Part) in D.D. 120 and Adjoining Government Land, Tai Kei Leng, Yuen Long

DRAWING TITLE
圖紙名稱: 5/F LAYOUT PLAN

DESIGN IN CHARGE 設計負責人 KL	DWG NO. 圖紙編號:
SCALE 比例: 1:250@A3	P-106
DATE 日期: 20230705	

APPENDIX 2.5 TYPICAL DRAWING ACOUSTIC WINDOW

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	Prepared	Checked	Approved
Initial	LY	CC	YS
Date	202302	202302	202302

DrawingTitle
TYPICAL DRAWING OF ACOUSTIC WINDOW

Drawing No. Appendix 2.5	Rev. 1
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Scale:
A4 - NTS

APPENDIX 2.5 CALCULATION OF ACOUSTIC WINDOW



Onsite Noise Measurement Results for Baffle Type Windows at North Point Estate

Tower	Flat, Room	Type	FA (m2)	Quantity	PARAMETERS OF ACOUSTIC WINDOW & HABITABLE ROOM								Sound Attenuation, dBA
					OOW (m)	OOH (m)	OOA (m2)	G (m)	O (m)	IOW (m)	IOH (m)	IOA (m2)	
North Point Estate	Living Room	Without sound absorptive material	38.3	1	1.275	2.535	3.2	0.1	0.275	1.480	2.535	3.8	8.8

Baffle Type Windows at Proposed RCHE

Tower	Flat, Room	Type	FA (m2)	Quantity	PARAMETERS OF ACOUSTIC WINDOW & HABITABLE ROOM								Sound Attenuation from Reference Case, dBA [a]	Room Correction ^[1] , dBA [b]	Estimated Sound Attenuation, dBA [a]+[b]	Claimed for Noise Reduction, dBA
					OOW (m)	OOH (m)	OOA (m2)	G (m)	O (m)	IOW (m)	IOH (m)	IOA (m2)				
RCHE in Tai Kei Leng	Type A Dormitory (2 Beds) on 2 to 5/F	Without sound absorptive material	19.7	25	1.275	2.535	3.2	0.1	0.275	1.480	2.535	3.8	8.8	-2.9	5.9	4.0
	Type B Dormitory (5 Beds) on 2 to 4/F		32.3	4	1.275	2.535	3.2	0.1	0.275	1.480	2.535	3.8	8.8	-0.7	8.1	4.0

Note::

- FA - Floor Area, m2
- G - Gap width, mm
- O - Overlapping width, mm
- OOH - outer opening height, mm
- OOW - outer opening width, mm
- IOH - Inner opening height, mm
- IOW - Inner opening width, mm
- MAP - Micro-perforated absorber
- OOA - Outer Opening Area, m2
- IOA - Inner Opening Area, m2

[1] Since the Proposed Room Size (PRS) is smaller than the Reference Room Size (RRS), room correction will be adopted based on the calculation: $10 \cdot \log(\text{PRS}/\text{RRS})$

APPENDIX 2.6 TRAFFIC NOISE RESULT SUMMARY (MITIGATED)

APPENDIX 2.6 TRAFFIC NOISE RESULT SUMMARY (MITIGATED)

Predicted Road Noise Level (AM Section)

Project Name: Proposed RHCHE at Lot Nos. 1695 S.E. ss.1 HP, 1695 S.F. ss.1 and 1695 S.F. HP (Part) in D.D. 120 in Tu. Kei Leng, Yuen Long				
ID	Description	mPD levels of Noise Assessment Points	Predicted Traffic Noise Level (Base Case), L10 (dB(A))	Predicted Traffic Noise Level (with mitigation measures of acoustic window (Baffle Type)), L10 (dB(A))[1]
4F				
A1	Dining/Multi-Purpose Area	7.4	65.1	65.1
A2	Dining/Multi-Purpose Area	7.4	61.1	61.1
A3	Dining/Multi-Purpose Area	7.4	61.0	61.0
G1	Siu Lo Pantry/ Resting Area	6.9	68.1	68.1
G2	Siu Lo Study Room	6.9	66.8	66.8
G3	Siu Lo Living Room	6.9	59.1	59.1
G4	Siu Lo Living Room	6.9	58.3	58.3
G5	Siu Lo Living Room	6.9	54.6	54.6
1F				
B1	Dormitory	14.9	70.4	70.4
B2	Dormitory	14.9	69.6	69.6
B3	Dormitory	14.9	69.0	69.0
B4	Dormitory	14.9	68.6	68.6
B5	Dormitory	14.9	68.0	68.0
B6	Dormitory	14.9	67.6	67.6
B7	General Office	14.9	61.2	61.2
B8	Sick/ Isolation/ Quiet Room	14.9	60.9	60.9
B9	Dormitory	14.9	60.7	60.7
B10	Dormitory	14.9	60.6	60.6
B11	Dormitory	14.9	60.7	60.7
B12	Dormitory	14.9	60.7	60.7
B13	Dormitory	14.9	60.5	60.5
B14	Dormitory	14.9	60.5	60.5
B15	Dormitory	14.9	72.3	68.3
B16	Dormitory	14.9	68.2	72.2
B17	Dormitory	14.9	68.1	72.1
B18	Dormitory	14.9	68.0	72.0
B19	Dormitory	14.9	67.9	71.9
B20	Dormitory	14.9	70.2	70.2
B21	Nurse Station	14.9	70.2	70.2
H1	Siu Lo Bedroom	10.9	66.8	66.8
H2	Siu Lo Living Room	10.9	61.1	61.1
H3	Siu Lo Living Room	10.9	58.3	58.3
H4	Siu Lo Living Room	10.9	55.2	55.2
2F				
C1	Dormitory	18.5	70.9	66.9
C2	Dormitory	18.5	70.1	70.1
C3	Dormitory	18.5	69.6	69.6
C4	Dormitory	18.5	69.1	69.1
C5	Dormitory	18.5	68.6	68.6
C6	Dormitory	18.5	68.2	68.2
C7	Conference Room/ Interview Room/ Family Room	18.5	61.6	61.6
C8	Sick/ Isolation/ Quiet Room	18.5	61.5	61.5
C9	Dormitory	18.5	61.3	61.3
C10	Dormitory	18.5	61.2	61.2
C11	Dormitory	18.5	61.2	61.2
C12	Dormitory	18.5	61.2	61.2
C13	Dormitory	18.5	60.8	60.8
C14	Dormitory	18.5	60.7	60.7
C15	Dormitory	18.5	72.2	68.2
C16	Dormitory	18.5	72.1	68.1
C17	Dormitory	18.5	72.1	68.1
C18	Dormitory	18.5	71.9	67.9
C19	Dormitory	18.5	71.9	67.9
C20	Dormitory	18.5	70.2	70.2
C21	Nurse Station	18.5	70.2	70.2
3F				
D1	Dormitory	22.1	71.1	67.1
D2	Dormitory	22.1	70.4	70.4
D3	Dormitory	22.1	70.0	70.0
D4	Dormitory	22.1	69.6	69.6
D5	Dormitory	22.1	69.1	69.1
D6	Dormitory	22.1	68.7	68.7
D7	Rehabilitation Area (1)	22.1	62.0	62.0
D8	Sick/ Isolation/ Quiet Room	22.1	62.0	62.0
D9	Dormitory	22.1	61.8	61.8
D10	Dormitory	22.1	61.7	61.7
D11	Dormitory	22.1	61.7	61.7
D12	Dormitory	22.1	61.6	61.6
D13	Dormitory	22.1	61.2	61.2
D14	Dormitory	22.1	61.2	61.2
D15	Dormitory	22.1	72.1	68.1
D16	Dormitory	22.1	72.0	68.0
D17	Dormitory	22.1	72.1	68.1
D18	Dormitory	22.1	71.9	67.9
D19	Dormitory	22.1	71.9	67.9
D20	Dormitory	22.1	70.4	70.4
D21	Nurse Station	22.1	70.1	70.1

4F				
E1	Dormitory	25.7	71.1	67.1
E2	Dormitory	25.7	70.6	66.6
E3	Dormitory	25.7	70.1	70.1
E4	Dormitory	25.7	69.8	69.8
E5	Dormitory	25.7	69.4	69.4
E6	Dormitory	25.7	69.1	69.1
E7	Rehabilitation Area (2)	25.7	62.6	62.6
E8	Sick/ Isolation/ Quiet Room	25.7	62.5	62.5
E9	Dormitory	25.7	62.3	62.3
E10	Dormitory	25.7	62.2	62.2
E11	Dormitory	25.7	62.1	62.1
E12	Dormitory	25.7	62.1	62.1
E13	Dormitory	25.7	61.7	61.7
E14	Dormitory	25.7	61.8	61.8
E15	Dormitory	25.7	72.2	68.2
E16	Dormitory	25.7	72.1	68.1
E17	Dormitory	25.7	72.1	68.1
E18	Dormitory	25.7	72.0	68.0
E19	Dormitory	25.7	71.9	67.9
E20	Dormitory	25.7	70.4	70.4
E21	Nurse Station	25.7	70.2	70.2
5F				
F1	Dormitory	29.3	69.9	69.9
F2	Dormitory	29.3	69.5	69.5
F3	Dormitory	29.3	69.4	69.4
F4	Dormitory	29.3	69.2	69.2
F5	Dormitory	29.3	69.0	69.0
F6	Dormitory	29.3	68.8	68.8
F7	Sick/ Isolation/ Quiet Room	29.3	62.2	62.2
F8	Dormitory	29.3	62.8	62.8
F9	Dormitory	29.3	62.6	62.6
F10	Dormitory	29.3	62.5	62.5
F11	Dormitory	29.3	64.6	64.6
F12	Dormitory	29.3	62.4	62.4
F13	Dormitory	29.3	63.4	63.4
F14	Dormitory	29.3	62.4	62.4
F15	Dormitory	29.3	70.6	66.6
F16	Dormitory	29.3	70.9	66.9
F17	Dormitory	29.3	70.9	66.9
F18	Dormitory	29.3	70.6	66.6
F19	Dormitory	29.3	70.7	66.7
F20	Dormitory	29.3	69.2	69.2
F21	Nurse Station	29.3	70.3	70.3

Remark:

- [1] Predicted noise level with mitigation of Acoustic Window (Baffle Type) does not represent the noise level at 1m away from the external façade, but the equivalent noise level at 1m from the external facade after accounting the reduction in noise levels inside the flat offered by the Acoustic Window (Baffle Type)
- [2] 70.5 - Noise Exceedance (highlighted in red)

APPENDIX 2.6 TRAFFIC NOISE RESULT SUMMARY (MITIGATED)

APPENDIX 2.6 TRAFFIC NOISE RESULT SUMMARY (MITIGATED)

Predicted Road Noise Level (PM Section)

Project Name: Proposed RHC6 at Lot Nos. 1695 S.E. s.1 RP, 1695 S.F. s.1 and 1695 S.H RP (Part) in D.D. 120 in Tai Kwi Leng, Yuen Long				
ID	Description	mPD levels of Noise Assessment Points	Predicted Traffic Noise Level (Base Case), L10 (dB(A))	Predicted Traffic Noise Level (with mitigation measures of acoustic window (Baffle Type)), L10 (dB(A)) [1] (4.0dB(A) reduction)
GF				
A1	Dining/Multi-Purpose Area	7.4	63.6	63.6
A2	Dining/Multi-Purpose Area	7.4	59.2	59.2
A3	Dining/Multi-Purpose Area	7.4	59.1	59.1
G1	Siu Lo Pantry/Resting Area	6.9	66.7	66.7
G2	Siu Lo Study Room	6.9	65.3	65.3
G3	Siu Lo Living Room	6.9	57.1	57.1
G4	Siu Lo Living Room	6.9	56.4	56.4
G5	Siu Lo Living Room	6.9	53.1	53.1
1F				
B1	Dormitory	14.9	69.0	69.0
B2	Dormitory	14.9	68.1	68.1
B3	Dormitory	14.9	67.6	67.6
B4	Dormitory	14.9	67.2	67.2
B5	Dormitory	14.9	66.5	66.5
B6	Dormitory	14.9	66.1	66.1
B7	General Office	14.9	59.3	59.3
BB	Sick/ Isolation/ Quiet Room	14.9	59.0	59.0
B9	Dormitory	14.9	58.8	58.8
B10	Dormitory	14.9	58.6	58.6
B11	Dormitory	14.9	58.9	58.9
B12	Dormitory	14.9	58.9	58.9
B13	Dormitory	14.9	58.6	58.6
B14	Dormitory	14.9	58.5	58.5
B15	Dormitory	14.9	70.9	66.8
B16	Dormitory	14.9	70.7	66.7
B17	Dormitory	14.9	66.6	70.6
B18	Dormitory	14.9	66.5	70.5
B19	Dormitory	14.9	70.4	66.6
B20	Dormitory	14.9	68.7	68.7
B21	Nurse Station	14.9	68.6	68.6
H1	Siu Lo Bedroom	10.9	65.4	65.4
H2	Siu Lo Living Room	10.9	59.5	59.5
H3	Siu Lo Living Room	10.9	56.5	56.5
H4	Siu Lo Living Room	10.9	53.8	53.8
2F				
C1	Dormitory	18.5	69.4	69.4
C2	Dormitory	18.5	68.7	68.7
C3	Dormitory	18.5	68.1	68.1
C4	Dormitory	18.5	67.6	67.6
C5	Dormitory	18.5	67.1	67.1
C6	Dormitory	18.5	66.7	66.7
C7	Conference Room/ Interview Room/ Family Room	18.5	59.7	59.7
C8	Sick/ Isolation/ Quiet Room	18.5	59.7	59.7
C9	Dormitory	18.5	59.5	59.5
C10	Dormitory	18.5	59.4	59.4
C11	Dormitory	18.5	59.4	59.4
C12	Dormitory	18.5	59.3	59.3
C13	Dormitory	18.5	58.9	58.9
C14	Dormitory	18.5	58.8	58.8
C15	Dormitory	18.5	70.7	66.7
C16	Dormitory	18.5	70.6	66.6
C17	Dormitory	18.5	70.5	66.6
C18	Dormitory	18.5	70.5	66.5
C19	Dormitory	18.5	70.4	70.4
C20	Dormitory	18.5	68.7	68.7
C21	Nurse Station	18.5	68.7	68.7
3F				
D1	Dormitory	22.1	69.6	69.6
D2	Dormitory	22.1	68.9	68.9
D3	Dormitory	22.1	68.5	68.5
D4	Dormitory	22.1	68.1	68.1
D5	Dormitory	22.1	67.6	67.6
D6	Dormitory	22.1	67.2	67.2
D7	Rehabilitation Area (1)	22.1	60.2	60.2
D8	Sick/ Isolation/ Quiet Room	22.1	60.2	60.2
D9	Dormitory	22.1	59.9	59.9
D10	Dormitory	22.1	59.8	59.8
D11	Dormitory	22.1	59.8	59.8
D12	Dormitory	22.1	59.8	59.8
D13	Dormitory	22.1	59.3	59.3
D14	Dormitory	22.1	59.3	59.3
D15	Dormitory	22.1	66.7	70.7
D16	Dormitory	22.1	66.6	70.6
D17	Dormitory	22.1	66.6	70.6
D18	Dormitory	22.1	70.4	70.4
D19	Dormitory	22.1	70.4	70.4
D20	Dormitory	22.1	68.9	68.9
D21	Nurse Station	22.1	68.6	68.6

4F				
E1	Dormitory	25.7	69.7	69.7
E2	Dormitory	25.7	69.1	69.1
E3	Dormitory	25.7	68.7	68.7
E4	Dormitory	25.7	68.3	68.3
E5	Dormitory	25.7	67.9	67.9
E6	Dormitory	25.7	67.6	67.6
E7	Rehabilitation Area (2)	25.7	60.8	60.8
E8	Sick/ Isolation/ Quiet Room	25.7	60.7	60.7
E9	Dormitory	25.7	60.5	60.5
E10	Dormitory	25.7	60.4	60.4
E11	Dormitory	25.7	60.4	60.4
E12	Dormitory	25.7	60.3	60.3
E13	Dormitory	25.7	59.8	59.8
E14	Dormitory	25.7	59.9	59.9
E15	Dormitory	25.7	70.8	66.8
E16	Dormitory	25.7	70.6	66.6
E17	Dormitory	25.7	70.6	66.6
E18	Dormitory	25.7	70.5	66.5
E19	Dormitory	25.7	70.5	66.5
E20	Dormitory	25.7	68.9	68.9
E21	Nurse Station	25.7	68.7	68.7
5F				
F1	Dormitory	29.3	68.4	68.4
F2	Dormitory	29.3	68.0	68.0
F3	Dormitory	29.3	67.9	67.9
F4	Dormitory	29.3	67.7	67.7
F5	Dormitory	29.3	67.5	67.5
F6	Dormitory	29.3	67.3	67.3
F7	Sick/ Isolation/ Quiet Room	29.3	60.5	60.5
F8	Dormitory	29.3	60.8	60.8
F9	Dormitory	29.3	60.8	60.8
F10	Dormitory	29.3	60.8	60.8
F11	Dormitory	29.3	63.0	63.0
F12	Dormitory	29.3	60.7	60.7
F13	Dormitory	29.3	61.7	61.7
F14	Dormitory	29.3	60.6	60.6
F15	Dormitory	29.3	68.1	68.1
F16	Dormitory	29.3	69.4	69.4
F17	Dormitory	29.3	69.4	69.4
F18	Dormitory	29.3	69.1	69.1
F19	Dormitory	29.3	69.2	69.2
F20	Dormitory	29.3	67.6	67.6
F21	Nurse Station	29.3	68.8	68.8

Remark:

[1] Predicted noise level with mitigation of Acoustic Window (Baffle Type) does not represent the noise level at 1m away from the external façade, but the equivalent noise level at 1m from the external facade after accounting the reduction in noise levels inside the flat offered by the Acoustic Window (Baffle Type)

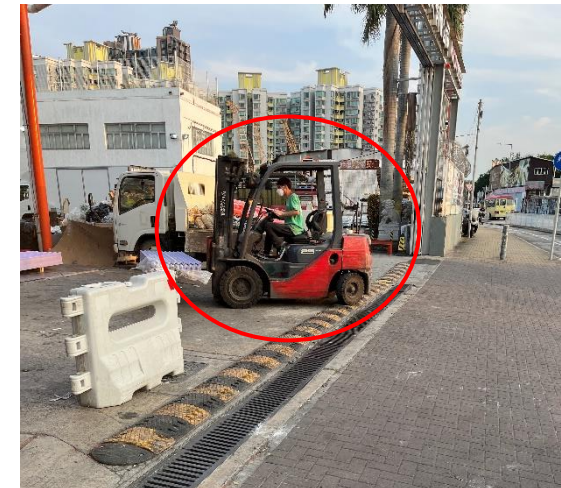
[2] 70.5 - Noise Exceedance (highlighted in red)

APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S1

Name	Date	Noisy activities	Site observation
Man Cheong Metals and Building Materials Company Limited	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	<ul style="list-style-type: none">- Loading and unloading- Forklift	<ul style="list-style-type: none">- Loading and unloading activities with forklift were observed during site visit.- No evening and night-time operation was observed.



APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S2

Name	Date	Noisy activities	Site observation
Motor Service Shop	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	- Vehicle cleaning	- Vehicle cleaning with air compressor was observed during site visit. - No evening and night-time operation was observed.



APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S3

Name	Date	Noisy activities	Site observation
Vehicle Repairing Shop	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	- Vehicle repairing	- Vehicle repairing activities with handheld grinder and drill were observed during site visit. - No evening and night-time operation was observed.



APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S4

Name	Date	Noisy activities	Site observation
Caltex Gas Station	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	- N/A	<ul style="list-style-type: none">- Air conditioners were observed during site visit, no noticeable noise was perceived.- Evening and night-time operation was observed.



APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S5

Name	Date	Noisy activities	Site observation
Hang Heung Cake Factory	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	- N/A	- Cooling tower were observed during site visit, no noticeable noise was perceived. - No operation was observed.



APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S6

Name	Date	Noisy activities	Site observation
Animal Feeds Factory	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	- Loading and unloading	- Air conditioners were observed during site visit, no noticeable noise was perceived. - No evening and night-time operation was observed.



APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S7

Name	Date	Noisy activities	Site observation
Storage Warehouse	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	- N/A	- No noticeable noise was perceived. - No evening and night-time operation was observed.



APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S8

Name	Date	Noisy activities	Site observation
Storage Warehouse	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	- N/A	- No noticeable noise was perceived. - No evening and night-time operation was observed.



APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S9

Name	Date	Noisy activities	Site observation
Vehicle Repairing Workshop	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	- Vehicle repairing	- No noticeable noise was observed during site visit. - No evening and night-time operation was observed.



APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S10

Name	Date	Noisy activities	Site observation
Storage Warehouse	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	- N/A	<ul style="list-style-type: none">- No noticeable noise was perceived.- No evening and night-time operation was observed.



APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S12

Name	Date	Noisy activities	Site observation
Vehicle Repairing Workshop	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	- Vehicle repairing	- Vehicle repairing activities with handheld grinder and drill were observed during site visit. - No evening and night-time operation was observed.



APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S13

Name	Date	Noisy activities	Site observation
Motor Service Shop	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	- Vehicle Cleaning	- Vehicle cleaning with air compressor was observed during site visit. - No evening and night-time operation was observed.



APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S14

Name	Date	Noisy activities	Site observation
Evergetic Development Co. Ltd	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	<ul style="list-style-type: none">- Loading and unloading- Forklift	<ul style="list-style-type: none">- Loading and unloading activities with forklift were observed during site visit.- No evening and night-time operation was observed.

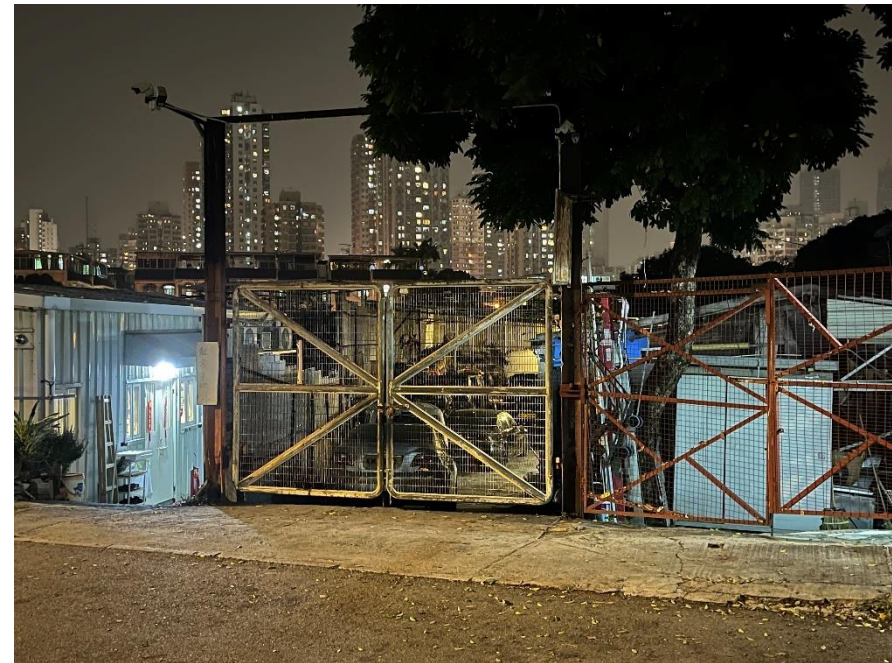


APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S15

Name	Date	Noisy activities	Site observation
New Egal Motor Development	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	- Vehicle repairing	- Vehicle repairing activities with handheld grinder and drill were observed during site visit. - No evening and night-time operation was observed.



APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S16

Name	Date	Noisy activities	Site observation
正中汽車美容	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	- N/A	- No noisy activity was observed during site visit. - No evening and night-time operation was observed.



APPENDIX 3.1 EXTRACTED SITE SURVEY RECORDS OF IDENTIFIED FIXED NOISE SOURCES

Fixed Noise Sources Survey

Noise Source ID: S17

Name	Date	Noisy activities	Site observation
Machinery repair workshop	11 Mar 2022 17 Mar 2022 23 Mar 2022 29 Mar 2022	- N/A	- No noticeable noise was perceived. - No evening and night-time operation was observed.



APPENDIX 3.2 CALCULATION OF MAXIMUM ALLOWABLE SOUND POWER LEVEL OF PLANNED FIXED PLANT NOISE SOURCES

Period	Source	Nearest NSR	Noise Criteria	Shortest Distance to Noise Assessment Point, m	Correction, dBA				Maximum Allowable SWL, dBA
					Distance	Façade	Tonality	Screening ^[a]	
Daytime	Building equipment in the site	Village Type Residential Building (N01)	41	15	32	-3	-3	0	67
Nighttime		(X:821023 ; Y:833280)	39	15	32	-3	-3	0	65
Daytime		Village Type Residential Building (N02)	41	50	42	-3	-3	0	77
Nighttime		(X:820991 ; Y:833313)	39	50	42	-3	-3	0	75
Daytime		Village Type Residential Building(N03)	41	31	38	-3	-3	0	73
Nighttime		(X:821041 ; Y:833357)	39	31	38	-3	-3	0	71

[a] Barrier Correction:

0dB = the NSR with direct line of sight to the source which is not blocked by other building(s).

-5dB = fixed plant noise sources falling within the view angle of the NSR but with no direct line of sight to the source opening, a 5 dB(A) attenuation would be applied.

-10dB = the NSR with no direct line of sight to the source/opening which is located on the other side of the building or completely blocked by other building(s).

APPENDIX 3.3 CALCULATION OF FIXED PLANT NOISE ASSESSMENT

Project:	Proposed RCHE at Tai Kei Leng
Project number:	W21220
Title:	Assessment for Noise from Fixed Sources
Subtitle:	Calculation of SPL at Assessment Points
NSR ID:	B4
NSR x coord:	821045
NSR y coord:	833260
NSR floor (/F)	1
NSR height (mPD)	14.85
ASR	B

Noise Source ID	Description	Activities/Equipment	Operation		SWL, dB(A)		Shortest Separation Distance from Ref. Point, m	Worst Operation Duration, %	Correction, dB(A)				Predicted Daytime SPL @ NSR, Leq, 30mins, dB(A)	Predicted Night-time SPL @ NSR, Leq, 30mins, dB(A)	Remark
			Daytime	Night-time	Daytime	Night-time			Distance	Time	Barrier	Façade			
S1	Man Cheong Metals and Building Materials Company Limited	Loading and Unloading	Y	N	98	-	69	100%	-45	-	-10	3	46	-	No line of sight
S2	Motor Service Shop	Vehicle Cleaning	Y	N	86	-	54	100%	-43	-	-10	3	37	-	No line of sight
S3	Vehicle Repairing Shop	Vehicle Repairing	Y	N	88	-	71	100%	-45	-	-10	3	36	-	No line of sight
S4	Caltex Gas Station	Air Conditioner	Y	Y	70	70	36	100%	-39	-	-10	3	24	34	No line of sight
S5	Hang Heung Cake Factory	Cooling Tower	N	N	90	-	39	100%	-40	-	-	3	53	-	
S6	Animal Feeds Factory	Manufacture	Y	N	-	-	142	-	-	-	-	-	-	-	
S7	Storage Warehouse	Open Storage	Y	N	-	-	265	-	-	-	-	-	-	-	
S8	Storage Warehouse	Open Storage	Y	N	-	-	223	-	-	-	-	-	-	-	
S9	Vehicle Repairing Workshop	Vehicle Repairing	Y	N	86	-	145	100%	-51	-	-	3	38	-	
S10	Storage Warehouse	Open Storage	Y	N	-	-	170	-	-	-	-	-	-	-	
S11	Planned LPG Filling station	Air Conditioner	Y	Y	70	70	251	100%	-56	-	-10	3	7	17	No line of sight
S12	Vehicle Repairing Workshop	Vehicle Repairing	Y	N	81	-	241	100%	-56	-	-	3	28	-	
S13	Motor Service Shop	Vehicle Cleaning	Y	N	78	-	171	100%	-53	-	-10	3	18	-	No line of sight
S14	Evergetic Development Co. Ltd	Loading and Unloading	Y	N	98	-	52	100%	-42	-	-10	3	48	-	No line of sight
S15	New Egal Motor Development	Vehicle Repairing	Y	N	86	-	160	100%	-52	-	-	3	37	-	
S16	正中汽車美容	Vehicle Cleaning	Y	N	78	-	119	100%	-50	-	-10	3	21	-	No line of sight
S17	Machinery repair workshop	Machinery Repairing	Y	N	95	-	53	100%	-42	-	-	3	56	-	
Total SPL												58	34		
Criteria ANL												65	55		
Exceedance												-	-		

APPENDIX 3.3 CALCULATION OF FIXED PLANT NOISE ASSESSMENT

Project:	Proposed RCHE at Tai Kei Leng
Project number:	W21220
Title:	Assessment for Noise from Fixed Sources
Subtitle:	Calculation of SPL at Assessment Points
NSR ID:	B8
NSR x coord:	821038
NSR y coord:	833294
NSR floor (/F)	1
NSR height (mPD)	14.85
ASR	B

Noise Source ID	Description	Activities/Equipment	Operation		SWL, dB(A)		Shortest Separation Distance from Ref. Point, m	Worst Operation Duration, %	Correction, dB(A)				Predicted Daytime SPL @ NSR, Leq, 30mins, dB(A)	Predicted Night-time SPL @ NSR, Leq, 30mins, dB(A)	Remark
			Daytime	Night-time	Daytime	Night-time			Distance	Time	Barrier	Façade			
S1	Man Cheong Metals and Building Materials Company Limited	Loading and Unloading	Y	N	98	-	62	100%	-44	-	-10	3	47	-	No line of sight
S2	Motor Service Shop	Vehicle Cleaning	Y	N	86	-	77	100%	-46	-	-5	3	39	-	Semi-enclosed
S3	Vehicle Repairing Shop	Vehicle Repairing	Y	N	88	-	99	100%	-48	-	-5	3	38	-	Semi-enclosed
S4	Caltex Gas Station	Air Conditioner	Y	Y	70	70	27	100%	-37	-	-10	3	26	36	No line of sight
S5	Hang Heung Cake Factory	Cooling Tower	N	N	90	-	62	100%	-44	-	-	3	49	-	
S6	Animal Feeds Factory	Manufacture	Y	N	-	-	176	-	-	-	-	-	-	-	
S7	Storage Warehouse	Open Storage	Y	N	-	-	298	-	-	-	-	-	-	-	
S8	Storage Warehouse	Open Storage	Y	N	-	-	252	-	-	-	-	-	-	-	
S9	Vehicle Repairing Workshop	Vehicle Repairing	Y	N	86	-	161	100%	-52	-	-	3	37	-	
S10	Storage Warehouse	Open Storage	Y	N	-	-	186	-	-	-	-	-	-	-	
S11	Planned LPG Filling station	Air Conditioner	Y	Y	70	70	269	100%	-57	-	-10	3	6	16	No line of sight
S12	Vehicle Repairing Workshop	Vehicle Repairing	Y	N	81	-	244	100%	-56	-	-	3	28	-	
S13	Motor Service Shop	Vehicle Cleaning	Y	N	78	-	144	100%	-51	-	-10	3	19	-	No line of sight
S14	Evergetic Development Co. Ltd	Loading and Unloading	Y	N	98	-	62	100%	-44	-	-10	3	47	-	No line of sight
S15	New Egal Motor Development	Vehicle Repairing	Y	N	86	-	163	100%	-52	-	-	3	37	-	
S16	正中汽車美容	Vehicle Cleaning	Y	N	78	-	135	100%	-51	-	-10	3	20	-	No line of sight
S17	Machinery repair workshop	Machinery Repairing	Y	N	95	-	26	100%	-36	-	-10	3	52	-	No line of sight
Total SPL												55	36		
Criteria ANL												65	55		
Exceedance												-	-		

APPENDIX 3.3 CALCULATION OF FIXED PLANT NOISE ASSESSMENT

Project:	Proposed RCHE at Tai Kei Leng
Project number:	W21220
Title:	Assessment for Noise from Fixed Sources
Subtitle:	Calculation of SPL at Assessment Points
NSR ID:	B18
NSR x coord:	821057
NSR y coord:	833294
NSR floor (/F)	1
NSR height (mPD)	14.85
ASR	B

Noise Source ID	Description	Activities/Equipment	Operation		SWL, dB(A)		Shortest Separation Distance from Ref. Point, m	Worst Operation Duration, %	Correction, dB(A)				Predicted Daytime SPL @ NSR, Leq, 30mins, dB(A)	Predicted Night-time SPL @ NSR, Leq, 30mins, dB(A)	Remark
			Daytime	Night-time	Daytime	Night-time			Distance	Time	Barrier	Façade			
S1	Man Cheong Metals and Building Materials Company Limited	Loading and Unloading	Y	N	98	-	43	100%	-41	-	-	3	60	-	
S2	Motor Service Shop	Vehicle Cleaning	Y	N	86	-	63	100%	-44	-	-5	3	40	-	Semi-enclosed
S3	Vehicle Repairing Shop	Vehicle Repairing	Y	N	88	-	88	100%	-47	-	-5	3	40	-	Semi-enclosed
S4	Caltex Gas Station	Air Conditioner	Y	Y	70	70	9	100%	-27	-	-	3	46	46	
S5	Hang Heung Cake Factory	Cooling Tower	N	N	90	-	71	100%	-45	-	-10	3	38	-	No line of sight
S6	Animal Feeds Factory	Manufacture	Y	N	-	-	175	-	-	-	-	-	-	-	
S7	Storage Warehouse	Open Storage	Y	N	-	-	301	-	-	-	-	-	-	-	
S8	Storage Warehouse	Open Storage	Y	N	-	-	259	-	-	-	-	-	-	-	
S9	Vehicle Repairing Workshop	Vehicle Repairing	Y	N	86	-	175	100%	-53	-	-10	3	26	-	No line of sight
S10	Storage Warehouse	Open Storage	Y	N	-	-	200	-	-	-	-	-	-	-	
S11	Planned LPG Filling station	Air Conditioner	Y	Y	70	70	283	100%	-57	-	-10	3	6	16	No line of sight
S12	Vehicle Repairing Workshop	Vehicle Repairing	Y	N	81	-	262	100%	-56	-	-10	3	17	-	No line of sight
S13	Motor Service Shop	Vehicle Cleaning	Y	N	78	-	135	100%	-51	-	-	3	30	-	
S14	Evergetic Development Co. Ltd	Loading and Unloading	Y	N	98	-	45	100%	-41	-	-	3	59	-	
S15	New Egal Motor Development	Vehicle Repairing	Y	N	86	-	181	100%	-53	-	-10	3	26	-	No line of sight
S16	正中汽車美容	Vehicle Cleaning	Y	N	78	-	118	100%	-49	-	-10	3	21	-	No line of sight
S17	Machinery repair workshop	Machinery Repairing	Y	N	95	-	45	100%	-41	-	-10	3	47	-	No line of sight
Total SPL												63	46		
Criteria ANL												65	55		
Exceedance												-	-		

APPENDIX 3.3 CALCULATION OF FIXED PLANT NOISE ASSESSMENT

Project:	Proposed RCHE at Tai Kei Leng
Project number:	W21220
Title:	Assessment for Noise from Fixed Sources
Subtitle:	Calculation of SPL at Assessment Points
NSR ID:	H4
NSR x coord:	821059
NSR y coord:	833328
NSR floor (/F)	1
NSR height (mPD)	10.85
ASR	B

Noise Source ID	Description	Activities/Equipment	Operation		SWL, dB(A)		Shortest Separation Distance from Ref. Point, m	Worst Operation Duration, %	Correction, dB(A)				Predicted Daytime SPL @ NSR, Leq, 30mins, dB(A)	Predicted Night-time SPL @ NSR, Leq, 30mins, dB(A)	Remark
			Daytime	Night-time	Daytime	Night-time			Distance	Time	Barrier	Façade			
S1	Man Cheong Metals and Building Materials Company Limited	Loading and Unloading	Y	N	98	-	47	100%	-41	-	-10	3	49	-	No line of sight
S2	Motor Service Shop	Vehicle Cleaning	Y	N	86	-	91	100%	-47	-	-10	3	32	-	No line of sight
S3	Vehicle Repairing Shop	Vehicle Repairing	Y	N	88	-	117	100%	-49	-	-10	3	32	-	No line of sight
S4	Caltex Gas Station	Air Conditioner	Y	Y	70	70	38	100%	-40	-	-10	3	23	23	No line of sight
S5	Hang Heung Cake Factory	Cooling Tower	N	N	90	-	102	100%	-48	-	-10	3	35	-	No line of sight
S6	Animal Feeds Factory	Manufacture	Y	N	-	-	209	-	-	-	-	-	-	-	
S7	Storage Warehouse	Open Storage	Y	N	-	-	335	-	-	-	-	-	-	-	
S8	Storage Warehouse	Open Storage	Y	N	-	-	291	-	-	-	-	-	-	-	
S9	Vehicle Repairing Workshop	Vehicle Repairing	Y	N	86	-	200	100%	-54	-	-10	3	25	-	No line of sight
S10	Storage Warehouse	Open Storage	Y	N	-	-	225	-	-	-	-	-	-	-	
S11	Planned LPG Filling station	Air Conditioner	Y	Y	70	70	308	100%	-58	-	-10	3	5	5	No line of sight
S12	Vehicle Repairing Workshop	Vehicle Repairing	Y	N	81	-	276	100%	-57	-	-	3	27	-	
S13	Motor Service Shop	Vehicle Cleaning	Y	N	78	-	104	100%	-48	-	-	3	32	-	
S14	Evergetic Development Co. Ltd	Loading and Unloading	Y	N	98	-	67	100%	-45	-	-10	3	46	-	No line of sight
S15	New Egal Motor Development	Vehicle Repairing	Y	N	86	-	197	100%	-54	-	-	3	35	-	
S16	正中汽車美容	Vehicle Cleaning	Y	N	78	-	134	100%	-51	-	-10	3	20	-	No line of sight
S17	Machinery repair workshop	Machinery Repairing	Y	N	95	-	53	100%	-42	-	-	3	56	-	
Total SPL												57	23		
Criteria ANL												65	55		
Exceedance												-	-		

APPENDIX 3.4 ADOPTED NOISE LEVEL OF FIXED PLANT SOURCES

Project: Proposed Proposed RCHE at Tai Kei Leng
 Title: Predicted Sound Power Level (SWL) from Fixed Noise Sources

Source Location	Source Description	Source ID	X-coordinate	Y-coordinate	Avg. Measured SPL, dB(A) [1]	Measurement Dist. From Source, m [2]	Worst Operation Duration, %	Distance Correction, dB(A)	SWL, dB(A)		Operation		Remarks and Assumption
									Daytime / Evening	Night-time	Daytime	Night-time	
Man Cheong Metals and Building Materials Company Limited	Loading and Unloading	S1	821099	833303	69.5	10	100%	28	98	-	Y	N	Forklift
Motor Service Shop	Vehicle Cleaning	S2	821097	833245	60.2	8	100%	26	86	-	Y	N	Air compressor, jet washing
Vehicle Repairing Shop	Vehicle Repairing	S3	821104	833220	62.3	8	100%	26	88	-	Y	N	Grinding, hammering, drilling
Caltex Gas Station	Air Conditioner	S4	821065	833290	-	-	-	-	70	70	Y	Y	Referenced to previous S.16 application
Hang Heung Cake Factory	Cooling Tower	S5	821014	833237	-	-	-	-	90	-	N	N	Referenced to previous S.16 application
Animal Feeds Factory	Manufacture	S6	821060	833119	-	-	-	-	-	-	Y	N	Not considered as noise source
Storage Warehouse	Open Storage	S7	820997	832999	-	-	-	-	-	-	Y	N	Not considered as noise source
Storage Warehouse	Open Storage	S8	820948	833059	-	-	-	-	-	-	Y	N	Not considered as noise source
Vehicle Repairing Workshop	Vehicle Repairing	S9	820924	833181	-	-	-	-	86	-	Y	N	Referenced to S15 for similar nature
Storage Warehouse	Open Storage	S10	820905	833164	-	-	-	-	-	-	Y	N	Not considered as noise source
Planned LPG Filling station	Air Conditioner	S11	820847	833105	-	-	-	-	70	70	Y	Y	Referenced to S4 for similar nature
Vehicle Repairing Workshop	Vehicle Repairing	S12	820809	833210	57.1	6	100%	24	81	-	Y	N	Grinding, hammering, drilling
Motor Service Shop	Vehicle Cleaning	S13	821115	833416	55.6	5	100%	22	78	-	Y	N	Air compressor, jet washing
Evergetic Development Co. Ltd	Loading and Unloading	S14	821096	833272	-	-	-	-	98	-	Y	N	Referenced to S1 for similar nature
New Egal Motor Development	Vehicle Repairing	S15	820887	833232	56.7	12	100%	30	86	-	Y	N	Grinding, hammering, drilling
正中汽車美容	Vehicle Cleaning	S16	821163	833243	-	-	-	-	78	-	Y	N	Referenced to S13 for similar nature
Machinery repair workshop	Machinery Repairing	S17	821013	833302	-	-	-	-	95	-	Y	N	Referenced to previous S.16 application

Remarks:

- [1] The maximum measured SPL was adopted for conservative assessment and no correction for background noise level was conducted.
- [2] The distance from noise source were measured from the site boundary of the plants.
- [3] Based on observation of site inspection, no obvious tonality, intermittency or impulsiveness characteristic was observed in all identified fixed noise sources.

Appendix 3.5 Calibration Certificate of Equipment

Sound Level Meter: SVAN 979 (46199)



Calibration Certificate

Certificate No. 110716 Page 1 of 4 Pages

Customer : Beexergy Consulting Limited
Address : Unit 2001-05, Apec Plaza, 49 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong
Order No. : Q14208 **Date of receipt :** 1-Nov-21

Item Tested

Description : Sound Level Meter & Vibration Meter with Vibration Sensor
Manufacturer : SVANTEK **I.D. :** --
Model : SVAN 979, SV 80 **Serial No. :** 46199

Test Conditions

Date of Test : 16-Nov-21 **Supply Voltage :** --
Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.
 Ref. Document/Procedure: Z01, IEC 61672, M41, JIG 676-2000.

Test Results

All results were within the IEC 61672 Type 1 or manufacturer's specification. (where applicable)
 The results are shown in the attached page(s).

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S017	Multi-Function Generator	C211339	SCL-HKSAR
S240	Sound Level Calibrator	106446	NIM-PRC & SCL-HKSAR
S012	Function Generator	911721	SCL-HKSAR
S187A	Std. Vibration Meter	011344	NIM-PRC
S187B	Std. Accelerometer	011343	SCL-HKSAR, NIM-PRC

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant.
 The test results apply to the above Unit-Under-Test only

Calibrated by : Elva Chong
Approved by : Kin Wong
 Date: 16-Nov-21

This Certificate is issued by:
 Hong Kong Calibration Ltd.
 Unit 8B, 24/F, Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.
 Tel: 2425 8801 Fax: 2425 8646

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Appendix 3.5 Calibration Certificate of Equipment



Calibration Certificate

Certificate No. 110716 Page 2 of 4 Pages

Results :

1. Sound Level Meter

1.1 Self-generated noise: 16.0 dBA

1.2 Acoustical signal test

UUT Setting				Applied Value (dB)	UUT Reading (dB)
Level Range	Octave Filter	Weight	Response		
Low	OFF	A	Fast	94.0	94.0
			Slow		94.0
		C	Fast		94.0
			Z		94.0
	OFF	A	Fast	114.0	114.0
			Slow		114.0
		C	Fast		114.0
			Z		114.0
1/1	A			114.1	
1/3				114.1	

IEC 61672 Type 1 Spec. : ± 1.1 dB
 Uncertainty : ± 0.1 dB

1.3 Electrical signal tests of frequency weightings (A weighting)

Frequency	Attenuation (dB)	IEC 61672 Type 1 Spec.
31.5 Hz	-39.5	- 39.4 dB, ± 2 dB
63 Hz	-26.2	- 26.2 dB, ± 1.5 dB
125 Hz	-16.2	- 16.1 dB, ± 1.5 dB
250 Hz	-8.7	- 8.6 dB, ± 1 dB
500 Hz	-3.3	- 3.2 dB, ± 1.4 dB
1 kHz	0.0 (Ref)	0 dB, ± 1.1 dB
2 kHz	+1.2	+ 1.2 dB, ± 1.6 dB
4 kHz	+1.0	+ 1.0 dB, ± 1.6 dB
8 kHz	-1.0	- 1.1 dB, + 2.1 dB ~ -3.1 dB
16 kHz	-6.9	- 6.6 dB, + 3.5 dB ~ - 17.0 dB

Uncertainty : ± 0.1 dB

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Calibration Certificate

Certificate No. 110716

Page 3 of 4 Pages

1.4 Frequency & Time weightings at 1 kHz

1.4.1 Frequency Weighting (Fast)

UUT Setting	Applied Value (dB)	UUT Reading (dB)	Difference (dB)	IEC 61672 Type 1 Spec.
A	94.0	94.0 (Ref.)	--	± 0.4 dB
C	94.0	94.0	0.0	
Z	94.0	94.0	0.0	

1.4.2 Time Weighting (A-weighted)

UUT Setting	Applied Value (dB)	UUT Reading (dB)	Difference (dB)	IEC 61672 Type 1 Spec.
Fast	94.0	94.0 (Ref.)	--	± 0.3 dB
Slow	94.0	94.0	0.0	
Time-averaging	94.0	94.0	0.0	

Uncertainty : ± 0.1 dB

2. Vibration Meter (Sensitivity Setting : 10.28 mV/m/s²)

2.1 Acceleration (159.2 Hz, RMS, HP 10)

UUT Range	Applied Value (m/s ²)	UUT Reading (m/s ²)	Mfr's Spec.
Low	5.00	4.98	± 5 %
	10.00	9.98	
	20.00	19.91	
	50.0	49.8	
	90.0	89.6	
High	100.0	99.5	

2.2 Velocity (159.2 Hz, RMS, Vel 10)

Applied Value (mm/s)	UUT Reading (mm/s)
5.00	4.97
10.00	9.94
20.00	19.88
50.0	49.8
90.0	89.6

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Calibration Certificate

Certificate No. 110716

Page 4 of 4 Pages

2.3 Displacement (40 Hz, P-P, Dil 10)

Applied Value	UUT Reading
200 μm	203 μm
500 μm	509 μm
1.000 mm	1.015 mm

2.4 Frequency Response (10 m/s², HP 10)

Frequency (Hz)	UUT Reading (m/s ²)	Mfr's Spec.
10	9.2	± 3 dB (0.5 Hz ~ 14 kHz)
20	10.1	
40	10.1	
80 (Ref.)	10.0 (Ref.)	
160	9.9	
500	9.7	
1 000	9.7	

- Remarks : 1. UUT : Unit-Under-Test
 2. The uncertainty claimed is for a confidence probability of not less than 95%.
 3. Atmospheric Pressure : 1 009 hPa.
 4. Preamplifier model : SV 17 , S/N : 57845.
 5. Microphone model : PCB 377B02, S/N: 308202.
 6. Firmware Version: 3.03.1
 7. Power Supply Check: OK
 8. The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.
 9. Accelerometer type : Svantek SV80, S/N : E3662.

----- END -----

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Appendix 3.5 Calibration Certificate of Equipment

Sound Level Meter: CR:171B (G071909)



Calibration Certificate

Certificate No. 111334 Page 1 of 4 Pages

Customer : Beexergy Consulting Limited
Address : Unit 2001-05, Apec Plaza, 49 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong
Order No. : Q14530 **Date of receipt :** 19-Nov-21

Item Tested

Description : Sound Level Meter
Manufacturer : Cirrus **I.D. :** --
Model : CR:171B **Serial No. :** G071909

Test Conditions

Date of Test : 26-Nov-21 **Supply Voltage :** --
Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.
 Ref. Document/Procedure: Z01, IEC 61672, IEC 61260.

Test Results

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S017	Multi-Function Generator	C211339	SCL-HKSAR
S240	Sound Level Calibrator	106446	NIM-PRC & SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

Calibrated by : 
 Elva Chong

Approved by : 
 Kin Wong

Date: 26-Nov-21

This Certificate is issued by Hong Kong Calibration Ltd. Unit 60, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuan Ping Street, Kwai Chung, NT, Hong Kong. Tel: 2425 8811 Fax: 2425 8646

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Appendix 3.5 Calibration Certificate of Equipment



Calibration Certificate

Certificate No. 111334 Page 2 of 4 Pages

Results :

Acoustical signal test

1. Self-generated noise: 16.8 dBA (Mfr's Spec ≤18 dBA)

2. Reference Sound Pressure Level

Range (dB)	UUT Setting			Applied Value (dB)	UUT Reading (dB)		
	Frequency Weighting	Time Weighting	Octave Filter				
20-140	A	F	OFF	94.0	94.0		
		S	OFF		94.0		
		F	OFF		94.0		
	Z	F	OFF		114.0	94.0	
		A	F			OFF	114.1
		S	OFF			114.1	
	C	F	OFF	114.1		114.1	
		A	F			OFF	114.1
		Z	F			OFF	114.1

IEC 61672 Type 1 Spec. : ±1.1 dB
 Uncertainty : ±0.1 dB

Electrical signal tests

3. Frequency weightings (A weighting)

Frequency	Attenuation (dB)	IEC 61672 Type 1 Spec.
31.5 Hz	-39.4	- 39.4 dB, ± 2 dB
63 Hz	-26.0	- 26.2 dB, ± 1.5 dB
125 Hz	-15.9	- 16.1 dB, ± 1.5 dB
250 Hz	-8.5	- 8.6 dB, ± 1 dB
500 Hz	-3.1	- 3.2 dB, ± 1.4 dB
1 kHz	0.0 (Ref)	0 dB, ± 1.1 dB
2 kHz	+1.0	+ 1.2 dB, ± 1.6 dB
4 kHz	+0.6	+ 1.0 dB, ± 1.6 dB
8 kHz	-1.7	- 1.1 dB, + 2.1 dB ~ -3.1 dB
16 kHz	-6.5	- 6.6 dB, + 3.5 dB ~ - 17.0 dB

Uncertainty : ±0.1 dB

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Calibration Certificate

Certificate No. 111334

Page 3 of 4 Pages

4. Frequency & Time weightings at 1 kHz

4.1 Frequency Weighting (Fast)

UUT Setting	Applied Value (dB)	UUT Reading (dB)	Difference (dB)	IEC 61672 Type 1 Spec.
A	94.0	94.0 (Ref.)	--	± 0.4 dB
C	94.0	94.0	0.0	
Z	94.0	94.0	0.0	

4.2 Time Weighting (A-weighted)

UUT Setting	Applied Value (dB)	UUT Reading (dB)	Difference (dB)	IEC 61672 Type 1 Spec.
Fast	94.0	94.0 (Ref.)	--	± 0.3 dB
Slow	94.0	94.0	0.0	
Time-averaging	94.0	94.0	0.0	

Uncertainty : ± 0.1 dB

5. Filter Characteristics

5.1 1/1 – Octave Filter

Frequency	Attenuation (dB)	IEC 61260 Class 1 Spec. (dB)
125 Hz	-64.3	< - 61
250 Hz	-51.7	< - 42
500 Hz	-49.5	< - 17.5
707 Hz	-3.3	+ 2 ~ - 5
1 kHz (Ref)	--	--
1.414 kHz	-3.8	- 2 ~ - 5
2 kHz	-64.3	< - 17.5
4 kHz	-68.8	< - 42
8 kHz	-68.3	< - 61

Uncertainty : ± 0.25 dB

Calibration Certificate

Certificate No. 111334

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5.2 1/3 – Octave Filter

Frequency	Attenuation (dB)	IEC 61260 Class 1 Spec. (dB)
326 Hz	-65.6	< - 61
530 Hz	-51.2	< - 42
772 Hz	-28.7	< - 17.5
891 Hz	-3.2	+ 0.3 ~ - 5.0
1 kHz (Ref)	--	--
1.122 kHz	-3.5	+ 0.3 ~ - 5.0
1.296 kHz	-27.8	< - 17.5
1.887 kHz	-65.9	< - 42
3.070 kHz	-73.8	< - 61

Uncertainty : ± 0.25 dB

Remarks : 1. UUT : Unit-Under-Test

- The uncertainty claimed is for a confidence probability of not less than 95%.
- Atmospheric Pressure : 1 011 hPa.
- Preamplifier model : MV200F, S/N :5332F
- Microphone model: MK224 , S/N : 608035B
- Power Supply Check: OK
- Firmware : V2.4.1569 (1529)
- The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.

----- END -----

Acoustic Calibrator: Svantek SV35A (58708)



Calibration Certificate

Certificate No. 104111 Page 1 of 2 Pages

Customer : Beexergy Consulting Limited
Address : Unit 2001-05, Apec Plaza, 49 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong
Order No. : Q11504 **Date of receipt :** 30-Apr-21

Item Tested

Description : Acoustic Calibrator
Manufacturer : Svantek **I.D. :** 217568
Model : SV35A **Serial No. :** 58708

Test Conditions

Date of Test : 12-May-21 **Supply Voltage :** --
Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.
 Ref. Document/Procedure: F21, Z02, IEC 60942.

Test Results

All results were within the IEC 60942 Class 1 specifications.
 The results are shown in the attached page(s).

Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S014	Spectrum Analyzer	005018	NIM-PRC & SCL-HKSAR
S240	Sound Level Calibrator	003053	NIM-PRC & SCL-HKSAR
S041	Universal Counter	101743	SCL-HKSAR
S206	Sound Level Meter	007031	SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant.
 The test results apply to the above Unit-Under-Test only

Calibrated by :

Elva Chong

Approved by :

Kin Wong

Date: 12-May-21

This Certificate is issued by:
 Hong Kong Calibration Ltd.
 Unit B3, 24/F, West Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong
 Tel: 2425 8801 Fax: 2425 8648

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Calibration Certificate

Certificate No. 104111 Page 2 of 2 Pages

Results :

1. Generated Sound Pressure Level

UUT Nominal Value (dB)	Measured Value (dB)	IEC 60942 Class 1 Spec.
94.0	94.1	± 0.4 dB
114.0	114.1	

Uncertainty : ± 0.2 dB

2. Short-term Level Fluctuation : 0.0 dB

IEC 60942 Class 1 Spec. : ± 0.1 dB
 Uncertainty : ± 0.01 dB

3. Frequency

UUT Nominal Value (kHz)	Measured Value (kHz)	IEC 60942 Class 1 Spec.
1	1.000	± 1 %

Uncertainty : ± 3.6 x 10⁻⁶

4. Total Distortion : < 0.3%

IEC 60942 Class 1 Spec. : < 4 %
 Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric Pressure : 996hPa.

----- END -----

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Appendix 3.6 Photo record of measurement set-up



Background noise measurement at BG1



Background noise measurement at BG2



Appendix 3.7 Board Paper for Yuen Long Baptist Church

RNTPC Paper No. A/YL/252A
For Consideration by
the Rural and New Town
Planning Committee
on 3.5.2019

APPLICATION FOR PERMISSION UNDER SECTION 16 OF THE TOWN PLANNING ORDINANCE

APPLICATION NO. A/YL/252

<u>Applicant</u>	Yuen Long Baptist Church represented by DeSPACE (International) Limited
<u>Site</u>	Lots 1694, 1695 S.F RP (Part) and 3721 in D.D. 120, Tai Kei Leng, Yuen Long, New Territories
<u>Site Area</u>	1,762.29m ²
<u>Lease</u>	(i) Lots 1694 and 1695 S.F RP :- Block Government Lease (demised for agricultural use) (ii) Lot 3721:- Under New Grant No. 529 (restricted for non-industrial use and only a church is allowed with building height (BH) restriction not exceeding 11m and 2 storeys)
<u>Plan</u>	Approved Yuen Long Outline Zoning Plan (OZP) No. S/YL/23
<u>Zoning</u>	“Government, Institution or Community(1)” (“G/IC(1)”) (about 81%) <i>[Restricted to a maximum BH of 3 storeys (8 storeys for ‘School’ and ‘Hospital’ uses excluding basement(s)). Based on the individual merits of a development or redevelopment proposal, minor relaxation of the BH restriction may be considered by the Town Planning Board on application under s.16 of the Town Planning Ordinance]</i> “Village Type Development” (“V”) (about 19%) <i>[No development restriction for ‘School’ and ‘Religious Institution’ uses]</i>
<u>Application</u>	Proposed Composite School and Religious Institution (Church) Development, with minor relaxation of BH Restriction

1. **The Proposal**

- 1.1 The applicant seeks planning permission for a proposed composite building comprising school and religious institution (church) on the application site (the Site) which is mainly zoned “G/IC(1)” (81%) and a minor portion zoned “V” (19%) on the OZP. Planning permission is also sought for proposed minor relaxation of BH restriction under the “G/IC(1)” zone from 3 storeys to 8 storeys (excluding 2 basement

Appendix 3.7 Board Paper for Yuen Long Baptist Church

classified as a Class A, B or C site as it does not abut on a specified street, the development intensity should be determined under Building (Planning) Regulation 19(3) unless a right of way not less than 4.5m wide is granted by LandsD for the proposed run-in/out of the Site.

- (b) If the Site is classified as Class A site, the proposed development parameter of the Site is acceptable under Schedule 1 of the Building (Planning) Regulation.
- (c) The Site shall be provided with means of obtaining access thereto from a street under the Building (Planning) Regulation 5 and emergency vehicular access shall be provided for all the buildings to be erected on the Site in accordance with the requirements under the Building (Planning) Regulation 41D.
- (d) Disregarding carparking spaces from GFA calculation under the Buildings Ordinance will be considered on the basis of the criteria set out in PNAP APP-2 during building plan submission stage.
- (e) The proposed development should follow and comply with the pre-requisite for GFA concession in PNAP APP-151 and the Sustainable Building Design guidelines stipulated in PNAP APP-152 during the preparation of detailed building design.
- (f) It is noted in applicant's FI submission in **Appendix Id** that the eastern, southern and northern sides of the building will be installed with fixed windows. The applicant should be reminded that the Building (Planning) Regulation 30 and 36 for natural lighting and ventilation by the provision of prescribed windows should be complied with.
- (g) Detailed comment will only be offered during building plan submission stage.

Traffic

8.1.5 Comments of the Assistant Commissioner for Transport/NT, Transport Department (AC for T/NT, TD)

Having reviewed the FI (**Appendix Id**), he has no further comment on the application. Should the application be approved, the following approval conditions (a) to (c) are recommended to be stipulated :

- (a) the submission and implementation of a detailed traffic management plan to the satisfaction of the Commissioner for Transport (C for T) or of the Board;