Amendments to an Approval Master Layout Plan for the Proposed Comprehensive Redevelopment of Tai Hang Sai Estate with Minor Relaxation of Plot Ratio, Building Heights, and Non-Building Area Restrictions

Noise Impact Assessment

Prepared for:
Urban Renewal Authority

Prepared by:
Westwood Hong & Associates Limited

Report No.:
22583-N2

Date:
21 September 2026

Ir K. K. Iu	FHKIOA, MIOA, MCIBSE, MHKIE, MASA, APEC Engineer FMOIA, MIEAust, MHKIQEP, C Eng, RPE, CPEng
Ms Kit Wong	BEng, MHKIQEP, MHKIEIA
Mr Samuel Lee	BSc

Westwood Hong & Associates Ltd
Unit 1907, 19/F, Emperor Group Centre,
No. 288 Hennessy Road
Wanchai, Hong Kong
Tel: 2838 2738 Fax: 2591 6189
Email: wha@wha.com.hk
Website: https://whaacoustics.com

EIA · ACOUSTICS · NOISE · VIBRATION

CONTENTS

AIMS **1**

SUMMARY **1**

1. INTRODUCTION **2**

2. SITE LOCATION & BUILDING LAYOUT **2**

Site Location 2
Development Layout 3

3. NOISE CRITERIA **4**

Road Traffic Noise Criterion 4
Noise Criteria for Fixed Noise Sources 4

4. SITE SURVEYS **6**

Dates and Time 6
Instrumentation 6
Fixed Noise Sources in the Vicinity 6
Noise Measurement Results for Fixed Noise Sources 7
Noise Measurement Results for Railway Noise 8

5. ROAD TRAFFIC NOISE IMPACT ASSESSMENT **8**

Traffic Forecast 8
Noise Assessment Points for Road Traffic Noise Assessment 8
Assessment Methodology 9
Predicted Road Traffic Noise Levels (Base Scenario) 9
Predicted Road Traffic Noise Levels (With Noise Mitigation Measures) 9

6. PRACTICABLE NOISE MITIGATION DESIGN **10**

Tall Podium 10
Building Setback 10

7. NOISE MITIGATION MEASURES IN THE PROPOSED DEVELOPMENT **10**

Acoustic Window (Baffle Type) 10
Acoustic Door (Baffle Type) 11
Acoustic Balcony 11

8. NOISE IMPACT ASSESSMENT FOR FIXED NOISE SOURCES AFFECTING THE PROPOSED DEVELOPMENT **12**

Noise Assessment Points for Fixed Noise Sources Assessment 12
Methodology of Noise Impact Assessment from Fixed Noise Sources 12
SWLs Adopted in the Fixed Noise Sources Calculation 12
Predicted Noise Levels from Fixed Noise Sources (Base Scenario) 13
Potential Noise Sources Within the Proposed Development 13

9. NOISE IMPACTS TO THE GIC **14**

Road Traffic Noise Impact for C&A/SD and RCHE 14
Fixed Noise Impact for C&A/SD and RCHE 14

10. RAILWAY NOISE IMPACT ASSESSMENT 15

11. CONCLUSION 15

12. REFERENCES 16

FIGURES

Figure 1: Site Location
Figure 2: Background Measurement Locations
Figure 3: Identified Fixed Noise Sources
Figure 4: Computer Plot of Road Scheme
Figure 5A: Location of Noise Mitigation Measures – Site 2, Tower 1
Figure 5B: Location of Noise Mitigation Measures – Site 2, Tower 2A and Tower 2B
Figure 5C: Location of Noise Mitigation Measures – Site 2, Tower 3
Figure 6A: Location of Noise Mitigation Measures – Site 1, Tower 1
Figure 6B: Location of Noise Mitigation Measures – Site 1, Tower 2

APPENDICES

Appendix 1: Architectural Drawings
Appendix 2: Photos Taken on Site
Appendix 3: Year 2044 and Year 2047 Traffic Forecast (provided by LLA Consultancy Limited)
Appendix 4A: Predicted Façade Noise Levels for Road Traffic Noise for Site 2 (Base Scenario)
Appendix 4B: Predicted Façade Noise Levels for Road Traffic Noise for Site 2 (with Noise Mitigation Measures)
Appendix 5A: Predicted Façade Noise Levels for Road Traffic Noise for Site 1 (Base Scenario)
Appendix 5B: Predicted Façade Noise Levels for Road Traffic Noise for Site 1 (with Noise Mitigation Measures)
Appendix 6: Site Measurements and Justification of SWLs
Appendix 7A: Fixed Noise Sources Assessment for the Proposed Development, for Site 2
Appendix 7B: Fixed Noise Sources Assessment for the Proposed Development, for Site 1
Appendix 8: Noise Impacts to C&A/SD and RCHE
Appendix 9A: Configuration of Acoustic Window Design and Justification of Noise Performance, for Site 2
Appendix 9B: Configuration of Acoustic Window Design and Justification of Noise Performance, for Site 1
Appendix 10A: Schedule of Noise Mitigation Measures, for Site 2
Appendix 10B: Schedule of Noise Mitigation Measures, for Site 1

AIMS

This Noise Impact Assessment is a submission to support the present planning application under Section 16 of the Town Planning Ordinance for a proposed comprehensive redevelopment of existing Tai Hang Sai Estate at New Kowloon Inland Lot (NKIL) No. 4479 (new lots to be known as NKIL Nos. 6654 and 6655). The previous S.16 Planning Application (Application No. A/K4/76) has been approved with conditions by the Town Planning Board (TPB) in 2021. This present planning application aims to seek a permission from the Town Planning Board for amendment to an approved Master Layout Plan (MLP) for the comprehensive redevelopment of Tai Hang Sai Estate (THSE) with minor relaxation of plot ratio, building heights and non-building area restrictions to facilitate the redevelopment scheme.

To recommend noise mitigation measures for the proposed Development, if necessary; and to assess the suitability of the proposed building layout and the recommended noise mitigation measures according to relevant requirements set out in the Hong Kong Planning Standards & Guidelines (HKPSG).

SUMMARY

Noise assessments have been conducted to predict the noise impacts at the proposed Development.

For road traffic noise, the predicted maximum road traffic noise level for the base scenario would be 75dB(A), exceeding the stipulated 70dB(A) noise criterion. Therefore, noise mitigation measures are required.

With the provision of Acoustic Window (Baffle Type), Acoustic Door (Baffle Type) and Acoustic Balcony, the assessment results indicate that the predicted road traffic noise levels at all noise sensitive rooms of the proposed Development (i.e. 100%) will comply with the 70dB(A) noise criterion.

For fixed noise sources impact affecting the proposed Development, the assessment results indicate that all residential units will be within the stipulated noise limits.

Based on the adoption of practicable noise mitigation designs and application of noise mitigation measures, no adverse road traffic noise impact or fixed noise sources impact is anticipated for the proposed Development.

1. INTRODUCTION

1.1 Westwood Hong & Associates Ltd (WHA) was commissioned to conduct an environmental noise impact assessment for the proposed redevelopment in Tai Hang Sai Estate, Shek Kip Mei, Kowloon (the "proposed Development").

1.2 This noise impact assessment report aims to support the S.16 Planning Application for the proposed Development.

1.3 This report was prepared based on the architectural drawings provided by the project architects.

1.4 The proposed Development comprises Site 1 and Site 2. The NIA report for Site 1 was submitted to discharge the approval planning condition (e) and has been partially approved by Planning Department on May 2025. As the NIA report for Site 1 is still valid, the noise results for Site 1 in this NIA report are extracted from that approved report for consistent.

1.5 This report comprises the following assessments:-

- Road traffic noise affecting the proposed Development
- Fixed noise sources affecting the proposed Development
- Fixed noise sources from the proposed Development
- Railway noise affecting the proposed Development

2. SITE LOCATION & BUILDING LAYOUT

Site Location

2.1 The project site falls within an area zoned "Comprehensive Development Area" on the Approved Shek Kip Mei Outline Zoning Plan (OZP) No. S/K4/31. It covers a total land area of about 2.1ha and is located at Shek Kip Mei, Kowloon. It is currently occupied by Tai Hang Sai Estate. Nearby or adjacent developments include Nam Shan Estate to its north-east; Shek Kip Mei Estate to its north-west; Tai Hang Tung Estate to its east and southeast; Holy Trinity College and The Church of Christ in China Ming Yin College to its west. The location of the application site is shown in Figure 1.

Development Layout

2.2 The proposed Development comprises Site 1 and Site 2, with a total of 6 residential blocks. The architectural drawings are provided in Appendix 1. The development parameters are summarized in Table 2.1 below.

Table 2.1 Development Parameters of the Proposed Development

	Parameters	
	Site 1	**Site 2**
Zoning	"Comprehensive Development Area" on Approved Shek Kip Mei Outline Zoning Plan No. S/K4/31	
Site Area	About 5,500m^2	About 15,410 m^2
Number of Residential Units	Not more than 1,289	Not more than 2,900
Number of Residential Storeys (including refuge floor)	Tower 1: 36 storeys Tower 2: 28 storeys	Tower 1: 33 storeys Tower 2A: 43 storeys Tower 2B: 32 storeys Tower 3: 43 storeys Tower 5: 43 storeys
Height of Building	Tower 1: 135mPD Tower 2: 115mPD	Tower 1: 143mPD Tower 2A: 180mPD Tower 2B: 143mPD Tower 3: 180mPD Tower 5: 180mPD
Use	Residential towers on 3-level podium (non-domestic) with basement carpark	- Residential towers on 3-level podium with 2-level basement carpark - RCHE - C&A/ SD - HCS - CCC - NEC - DCU
Tentative Completion Year	2029	2032
Name of Developer	Hong Kong Settlers Housing Corporation Limited	Urban Renewal Authority

2.3 Social welfare facilities (such as Residential Care Homes for the Elderly (RCHE), Care and Attention Home for Severely Disabled Person (C&A/SD), Centre for Home Care Services (HCS), Child Care Centre (CCC), Neighbourhood Elderly Centre (NEC), Day Care Unit (DCU)), except the Dormitory and Sick/ Isolation/ Quiet Room and End-of-Life Care Room, would be equipped with split type AC unit/ VRV system and would not reply on openable windows for ventilation. No adverse noise impact is anticipated.

2.4 The podium (i.e. retails, clubhouse) will be equipped with central air-conditioning and would not rely on opened windows for ventilation. No adverse noise impact is anticipated.

3. NOISE CRITERIA

Road Traffic Noise Criterion

3.1 According to the HKPSG[1], the maximum allowable road traffic noise criterion for domestic premises is 70dB(A) L10(1 hour) at the external facades for the hour having the peak traffic flow. The noise criterion applies to domestic premises which rely on openable windows for ventilation.

3.2 For the RCHE and C&A/SD, the criterion for road traffic noise impact for dormitory area, sick bay, end-of-life room, isolation room, which are not diagnostic room and wards, is 70dB(A) L10(1 hour) at the external facades for the hour having the peak traffic flow. The criteria apply to uses which rely on openable windows for ventilation.

Noise Criteria for Fixed Noise Sources

3.3 For fixed noise sources, the criterion is determined based on the statutory Acceptable Noise Levels (ANL) stipulated in "Technical Memorandum for the Assessment of Noise from Places other than Domestic Premises, Public Places or Construction Sites"[2] (IND – TM). The HKPSG also states that in order to plan for a better environment, all planned fixed noise sources should be so located and designed that when assessed in accordance with the IND – TM, the level of the intruding noise at the façade of the nearest sensitive use should be at least 5dB(A) below the appropriate ANL shown in Table 2 of the IND – TM or, in the case of the background being 5dB(A) lower than the ANL, should not be higher than the background.

3.4 The project site is located in a neighbourhood with high-rise residential developments. Therefore, the proposed Development is located within an urban area. Since no Influencing Factor (IF) (i.e. major road or industrial area) was identified in the vicinity of the project site, the project site was not affected by any IF under the IND – TM. Hence, an Area Sensitivity Rating of "B" shall be applied to all the NSRs of the proposed Development for the fixed noise assessment. The ANLs are shown in Table 3.1.

Table 3.1 ANLs for Day, Evening and Night Time Periods

Time Period	ANLs dB(A), Leq (30 mins)		
	ASR "A"	**ASR "B"**	**ASR "C"**
Day (0700 to 1900 hours) and evening (1900 to 2300 hours)	60	65	70
Night (2300 to 0700 hours)	50	55	60

Note: In any event, the ASR 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 noise sources is controlled under section 13 of the Noise Control Ordinance. Therefore, the ASRs and ANLs determined in this report shall not prejudice the Noise Control Authority's discretion to determine noise impact due to fixed noise sources 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 due to fixed noise sources in this report shall not bind the Noise Control Authority in the context of law enforcement against any of the noise from fixed noise sources being assessed.

3.5 As mentioned in Section 3.3, the noise criteria for the noise from planned fixed sources are ANL – 5dB(A) or the prevailing background noise levels, whichever is lower. Site measurements were made at the nearby noise sensitive receivers on 31 July 2026. The prevailing background noise levels are summarised in Table 3.2 below. The measurements were carried out at the façade, the measurement locations are provided in Figure 2.

Table 3.2 Noise Measurement Results

Location	Noise Sensitive Receiver	Measurement Result, dB(A), L90 (1 hour), Façade
Loc 1	Ample Building	Daytime: 61 – 63 Night-time: 53 – 54
Loc 2	Church of Christ in China Ming Yin College	Daytime: 60 – 62 Night-time: 53 – 54

3.6 The prevailing background noise levels of the identified noise sensitive receivers were higher than ANL – 5dB(A). Therefore, the ANL – 5dB(A) are used as the criteria for noise from planned fixed sources (i.e. 60dB(A) for daytime, and 50dB(A) for night-time).

4. SITE SURVEYS

Dates and Time

4.1 Site surveys were conducted on the following dates and times:-

- 18 March 2024 (2:00pm – 6:00pm)
- 11 April 2024 (11:30am – 02:00am)
- 28 October 2024 (2:00pm – 7:00pm)
- 31 July 2026 (2:00pm – 7:00pm)

4.2 Photographs taken on site are given in Appendix 2.

Instrumentation

4.3 The instruments used by WHA for the surveys comply with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1), as listed in Table 4.1 below.

Table 4.1 Instruments Used for the Noise Surveys

Manufacturer	Type
Ono Sokki	Precision Integrating Sound Level Meter
Ono Sokki	Foam Windshield
Bruel and Kjaer	Noise Calibrator Type 4231

4.4 The sound level meter was calibrated before use and further checks on completion of the survey, and confirmed that the calibration levels from before and after the noise measurement agree to within 1.0dB.

4.5 The site measurements including measurement equipment, calibration procedure, measurement methodology and weather conditions were conducted in accordance with the IND – TM.

Fixed Noise Sources in the Vicinity

4.6 The study area for fixed noise sources impact assessment is 300m. The identified significant fixed noise sources are summarised in Table 4.2 and given in Figure 3.

Table 4.2 Identified Fixed Noise Sources

Source ID	Identified Fixed Noise Sources	Operation	Operation Hours	Night time operation
A	MTRC Woh Chai Street Ventilation Building	Plant noise	Assumed 24hours in operation	Yes
B	MTRC Wai Chi Street Ventilation Building	Plant noise	Assumed 24hours in operation	Yes
C	Nam Shan Building City University of Hong Kong	26 VRVs at rooftop	0800 - 1900	No
D	Shek Kip Mei Reporting Centre and Police Tactical Unit Kowloon West Operational Base (already suspended)	-	-	-
E	Church of Christ in China Ming Yin College, Substation	No industrial noise observed	-	-

Noise Measurement Results for Fixed Noise Sources

4.7 Noise measurements have been made at the locations with nearest horizontal distance. The measurement locations and results are provided in Appendix 6 and summarised in Table 4.3.

Table 4.3 Noise Measurement Results

Location	Description	Measurement Dates and Times	Measurement Results, with facade dB(A), Leq (30 mins)	Noise Source
A_VENT	8/F at Man Lok House, facing Woh Chai Street	11 April 2024 (1:00am – 2:00am)	56	Noise from MTRC ventilation shaft and background noise
B_VENT	4/F at Man Tai House, facing Wai Chi Street	11 April 2024 (1:00am – 2:00am)	56	Noise from MTRC ventilation shaft and background noise
C	8/F at Man Keung House, facing Tai Hang Sai Street	11 April 2024 (2:00pm – 3:00pm)	63dB(A) (background noise only)	No noticeable noise from the VRVs. Hence, the VRVs are not significant and will not be considered in the assessment.

4.8 For the ventilation shafts, the measurement results with background noise will be adopted in the calculation as a conservative approach. The detailed fixed noise sources assessment will be presented in Section 8.

Noise Measurement Results for Railway Noise

4.9 Noise measurement has been made in the project site at a location nearest to the rail tracks of Shek Kip Mei Station (i.e. Man Tai House). The measurement location and result are provided Figure 2 and summarised in Table 4.4. The detailed railway noise assessment will be presented in Section 10.

Table 4.4 Noise Measurement Results

Location	**Description**	**Measurement Result,** dB(A), Leq (30mins)
Loc 3	G/F of Man Tai House, inside the flat unit	Daytime (5:00pm – 7:00pm): 35

5. ROAD TRAFFIC NOISE IMPACT ASSESSMENT

5.1 The noise prediction was conducted by employing the WS Atkins RoadNoise 2000[3] computer software.

Traffic Forecast

5.2 The tentative occupation years for Site 1 and Site 2 of the proposed Development are 2029 and 2032 respectively, the maximum traffic in 15 years after occupation of the proposed Development (i.e., 2044 and 2047) has been adopted for the purpose of the road traffic noise assessment.

5.3 The traffic forecast was prepared by the Traffic Consultant (LLA Consultancy Ltd) and provided in Appendix 3. The definition of heavy vehicles in the U.K. Department of Transport's "Calculation of Road Traffic Noise" (CRTN)[4] has been adopted. Review of the data indicates that the AM peak is in general higher than the PM peak. Therefore, the set of AM peak traffic data is employed for the assessment, representing the worst-case scenario.

Noise Assessment Points for Road Traffic Noise Assessment

5.4 The assessment points are taken at the height of 1.2m above each residential floor and 1m away from the façade of openable windows of the noise sensitive rooms (living rooms and bedrooms). All openings relying on opened windows for ventilation of the noise sensitive rooms are assigned with noise assessment point. The locations of the assessment points for the noise sensitive rooms are illustrated in Appendices 4 and 5.

Assessment Methodology

5.5 The road traffic noise levels at the proposed Development were predicted, based on the predicted traffic flows in design years and in accordance with the procedures given in the CRTN. The predicted road traffic noise levels at the building facades include a 2.5dB(A) facade reflection and correction factors for gradient, distance, view angle, barriers and road surface material.

5.6 The study area of the road traffic noise assessment would be 300m from the site boundary. The computer plot of noise model are shown in Figure 4. The roads within the study area are included in the assessment. In this assessment, all roads are assumed to be of impervious surface.

Predicted Road Traffic Noise Levels (Base Scenario)

5.7 For Site 2, the predicted road traffic noise levels are presented in Appendix 4A for all Noise Sensitive Receivers (NSRs) of the proposed Development. The noise compliance rate of the base scenario will be 94% (i.e. 174 residential units) with maximum 75dB(A). Therefore, noise mitigation measures are required.

5.8 For Site 1, the predicted road traffic noise levels are presented in Appendix 5A for all NSRs of the proposed Development. The noise compliance rate of the base scenario will be 73% (i.e. 703 residential units) with maximum 75dB(A). Therefore, noise mitigation measures are required.

Predicted Road Traffic Noise Levels (With Noise Mitigation Measures)

5.9 In order to achieve noise compliance, all noise sensitive rooms with noise exceedance will be provided with Acoustic Window (Baffle Type), Acoustic Door (Baffle Type) and Acoustic Balcony. The location of the noise mitigation measures are provided in Figures 5A – 5C for Site 2 and Figures 6A – 6B for Site 1. Details of the noise mitigation measures are discussed in Section 7. With the provision of these noise mitigation measures, all residential units of the proposed Development (i.e. 100%) can comply with the stipulated 70dB(A) noise limit. Details of the predicted noise levels are given in Appendix 4B for Site 2 and Appendix 5B for Site 1.

6. PRACTICABLE NOISE MITIGATION DESIGN

6.1 Practicable noise mitigation designs such as Tall Podium and Building Setback have been investigated and implemented for the proposed Development during the design stage. The noise compliance rate for road traffic noise would be lower without these noise mitigation designs. Further noise mitigation measures are incorporated in the proposed Development to minimise the noise impacts as discussed in Section 7.

Tall Podium

6.2 The residential blocks will be located above a 2 to 3-storey tall podium. This, together with the transfer plate, the NSRs on the lowest residential floor will be located at least 11.2m above the road level. The tall podium is effective in reducing the noise impacts at the low floors of the residential blocks.

Building Setback

6.3 The residential blocks of Site 1 have been designed with about 10m setback distance from Woh Chai Street, and away from road traffic noise as much as practicable, given the constraints of shape and size of the site.

7. NOISE MITIGATION MEASURES IN THE PROPOSED DEVELOPMENT

7.1 The Schedule of Noise Mitigation Measures to summarise all the mitigation measures in the proposed Development is provided in Appendix 10. The locations of noise mitigation measures are illustrated in Figures 5 – 6.

Acoustic Window (Baffle Type)

7.2 Acoustic Window (baffle type) will be adopted for the proposed Development as noise mitigation measure. The Acoustic Window (baffle type) comprises of two layers of window. An additional window layer is introduced to the conventional side-hung window in a staggering position. The outer window is a conventional push-pull type window whilst the inner one is a sliding window. By properly positioning the openings of inner window with the outer window, it can reduce noise entering indoors while allowing air flow into the room via the air gap between the two layers of windows.

7.3 For the bedrooms and master bedrooms of the proposed Development, the Acoustic Window (baffle type) will be designed by making reference to ProPECC PN5/23 “Application of Innovative Noise Mitigation Designs in Planning Private Residential Developments against Road Traffic Noise Impact” (“EPD-PN”). The locations are provided in Figures 5 – 6. The detailed design of the acoustic window (baffle type)

and the justification of noise performance are provided in Appendix 9.

Acoustic Door (Baffle Type)

7.4 The Acoustic Door (baffle type) will be constructed with double sliding door to provide a screening effect to the affected Living Room. The noise attenuation performance for the acoustic door (baffle type) is referenced to another precedent case of redevelopment of ex-North Point Estate site to comprehensive development with residential uses. The detailed design of the Acoustic Door and the justification of noise performance are provided in Appendix 9.

Acoustic Balcony

7.5 Acoustic Balcony will be provided for some Living Room of Tower 2B. The three sides of the acoustic balcony are to be constructed with 1.2m high solid glass balustrades without any gap in and between the 3 sides balustrades, the depth is more than 1m and the ceiling soffit will be applied with sound absorptive material, providing screening effect to the residential flats. A practical reduction of 2dB(A) has been assumed in the calculation. The design of Acoustic Balcony is shown in Appendix 9.

7.6 All noise mitigation measures proposed in the Environmental Noise Impact Assessment shall be designated as Noise Mitigation Measures ("NMM") in the Deed of Mutual Covenant ("DMC") with details and the locations clearly indicated. Such DMC shall contain binding and enforceable conditions for the control, operation, financial support and maintenance for such measures.

8. NOISE IMPACT ASSESSMENT FOR FIXED NOISE SOURCES AFFECTING THE PROPOSED DEVELOPMENT

8.1 The identified fixed noise sources in the vicinity were summarised in Table 4.2.

Noise Assessment Points for Fixed Noise Sources Assessment

8.2 With the consideration of the fixed noise sources locations, representative assessment points with most affected (with shortest distance) are assigned for the noise assessment. The location of the assessment points are illustrated in Appendix 7.

8.3 The assessment points are taken at the height of 1.2m above each residential floor and 1m away from the façade of openable windows of the noise sensitive rooms.

Methodology of Noise Impact Assessment from Fixed Noise Sources

8.4 The location of the fixed noise sources are assumed at the noise emission point as observed during site survey.

8.5 For the assessment of noise from fixed noise sources, the noise level at NSR was predicted using the standard acoustic principles:

Predicted Noise Level = Sound Power Level of fixed noise source – Distance Attenuation + Façade Correction + Barrier Correction

Where
Distance Attenuation = 20 log D + 8 [where D is the distance in meters]
Façade Correction = 3dB(A)
Barrier Correction = -10dB(A), if no line of sight from the NSR to the identified fixed noise source

SWLs Adopted in the Fixed Noise Sources Calculation

8.6 On-site noise measurements were made for the MTRC ventilation buildings. The Sound Pressure Levels (SPLs) obtained during survey were then converted to Sound Power Levels (SWLs) with reference to basic acoustic principle. The SPLs at NSRs were calculated based on the distance attenuation, tonality correction, impulsiveness correction, intermittency correction, barrier correction and façade correction. Tonality correction, impulsiveness correction and intermittency correction are not required to be applied to the fixed noise sources based on site observation and measurements (Appendix 6).

8.7 The summary of the SWLs adopted in the assessment are provided in Table 8.1 below.

Table 8.1 SWLs of Identified Fixed Noise Sources

Source ID	Fixed Noise Sources	SWL, dB(A) (excluding the façade)	Operation hours	Reference
A	MTRC Woh Chai Street Ventilation Building	89	Assumed 24 hours operation	Site measurements
B	MTRC Wai Chi Street Ventilation Building	87	Assumed 24 hours operation	Site measurements

Predicted Noise Levels from Fixed Noise Sources (Base Scenario)

8.8 The predicted façade noise levels from fixed noise sources at the representative NSRs are in the range of 50 – 54 dB(A) Leq(30min) during day, evening and night time periods. These predicted noise levels are within the stipulated noise limits as mentioned in Section 3. The summary of the predicted noise levels are summarised in Table 8.2 and given in Appendix 7.

Table 8.2 Summary of Noise Results for Fixed Noise Sources

NSR	Predicted Façade Noise Levels		Comply or not
	Day and Evening, dB(A)	**Night-time,** dB(A)	
Site 1 – NSR 101	54	54	Comply
Site 1 – NSR 128	50	50	Comply
Site 2 – NSR 627	54	54	Comply
Site 2 – NSR 701	51	51	Comply

Potential Noise Sources Within the Proposed Development

8.9 The noise emissions from any planned fixed noise sources associated with the proposed Development would be designed to meet the relevant criteria stipulated in the HKPSG (i.e. ANL – 5dB(A) as mentioned in Section 3).

8.10 The acoustic performance of the fixed noise sources would be reviewed during detailed design stage. If found necessary, acoustic treatments such as provision of acoustic silencers and acoustic enclosures shall be proposed in order to comply with the relevant noise requirements in the HKPSG.

8.11 As advised by the project architect, there is no planned outdoor E&M equipment for the proposed Development. The E&M plant rooms are housed in basement and podium.

9. NOISE IMPACTS TO THE GIC

9.1 A 3-storey of GIC will be located underneath of Tower 1 of Site 2, which will subject to the road traffic noise and fixed noise sources.

Road Traffic Noise Impact for C&A/SD and RCHE

9.2 The predicted road traffic noise levels for the C&A/SD and RCHE will be in the range of 75 – 77dB(A), which exceeded the noise criteria (i.e. 70dB(A)). The road traffic noise results are presented in Appendix 8.

9.3 The reference case in EPD-PN have been made to adopt in first place for the GIC. For the sick / isolation / quiet room and end-of-life care room, the acoustic window would be referenced from EPD-PN. However, for the dormitory with large room size, another precedent case of redevelopment of ex-North Point Estate site to comprehensive development with residential uses is referenced.

9.4 Detailed design of the window and the justification of noise performance are shown in Appendix 8. The project architect confirmed that the design of acoustic window (baffle type) could meet the natural ventilation requirement under BD.

9.5 As the typical layout of the C&A/SD and RCHE is not confirmed at this stage, the noise mitigation measures and the noise performance would be worked out with the Social Welfare Department at the detailed building design stage.

Fixed Noise Impact for C&A/SD and RCHE

9.6 The predicted façade noise levels from fixed noise sources at the representative NSR on C&A/SD and RCHE is 43 dB(A) Leq(30min) during day, evening and night time periods. These predicted noise levels are within the stipulated noise limits as mentioned in Section 3.

10. RAILWAY NOISE IMPACT ASSESSMENT

10.1 The Shek Kip Mei Station is located at underground. The noise criteria of the railway noise at the proposed Development should refer to the ANLs in Table 3.1, which are 65dB(A) during day and evening times, 55dB(A) during night-time and 10dB(A) less than the relevant ANL if the point of assessment is at an internal location of a building (i.e. 55dB(A) during day and evening times, 45dB(A) during night-time). Noise measurement has been made inside the flat unit of Man Tai House (i.e. at G/F with 16.4mPD, directly above the Shek Kip Mei Station). No railway noise was observed, the measurement result was 35dB(A), which is well comply with the stipulated noise limits. Referring to Section 4.9, the noise measurement was conducted during the peak hours and considered as representative. The situation of the Shek Kip Mei Station will not be changed in the future while the site boundary of the proposed Development is located at 15m away from the Shek Kip Mei Station and the 1st residential floor (i.e. 28.3mPD) would be at least 11m higher than the measurement location. Considering that the proposed Development is located further away from the Shek Kip Mei Station and at higher level to the measurement location, the railway noise level at the proposed Development would be lower than the measurement result in Man Tai House. Hence, adverse railway noise impact to the proposed Development is not anticipated.

11. CONCLUSION

11.1 Noise assessments were conducted to predict the noise impacts at the proposed Development.

11.2 For road traffic noise, the predicted maximum road traffic noise level for the base scenario would be 75dB(A), exceeding the stipulated 70dB(A) noise criterion. Therefore, noise mitigation measures are required.

11.3 With the provision of Acoustic Window (Baffle Type), Acoustic Door (Baffle Type) and Acoustic Balcony, the assessment results indicate that the predicted road traffic noise levels at all noise sensitive rooms in all residential units of the proposed Development (i.e. 100%) will comply with the 70dB(A) noise criterion.

11.4 For fixed noise sources impact affecting the proposed Development, the assessment results indicate that all residential units will be within the stipulated noise limits.

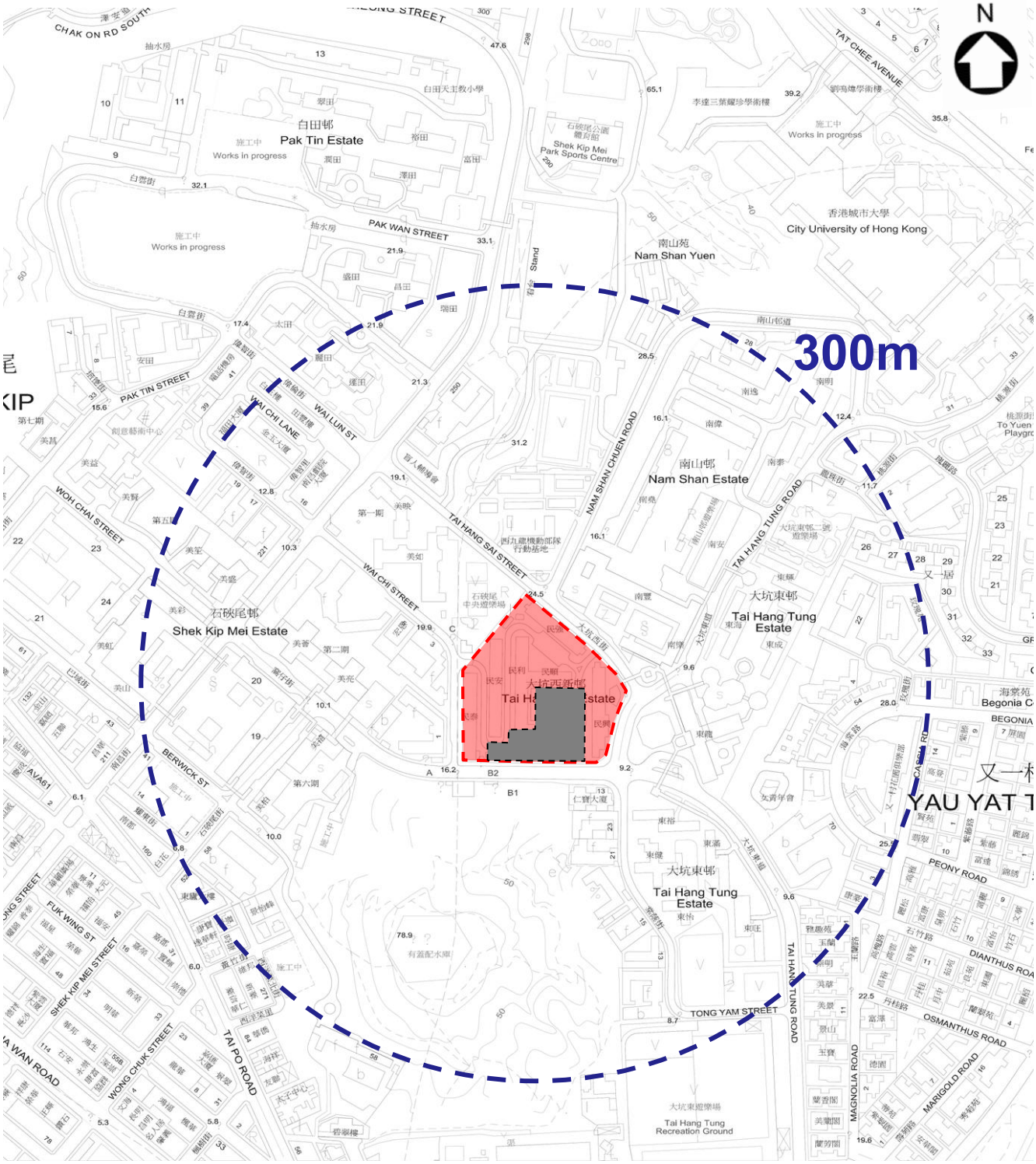
12. REFERENCES

[1] "Hong Kong Planning Standards & Guidelines" of March 2014 of Hong Kong Government.

[2] "Technical Memorandum for the Assessment of Noise from Places Other Than Domestic Premises, Public Places or Construction Sites" (IND – TM) issued under the Noise Control Ordinance.

[3] "RoadNoise 2000" Computer Software of WS Atkins Noise and Vibration, England.

[4] "Calculation of Road Traffic Noise" of the Department of Transport, Welsh Office, UK.



Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583	**Site Location**	**1**
Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon		



Loc 3

Loc 3: Inside the flat unit of Man Tai House
Daytime: **35dB(A)** Leq (30mins)

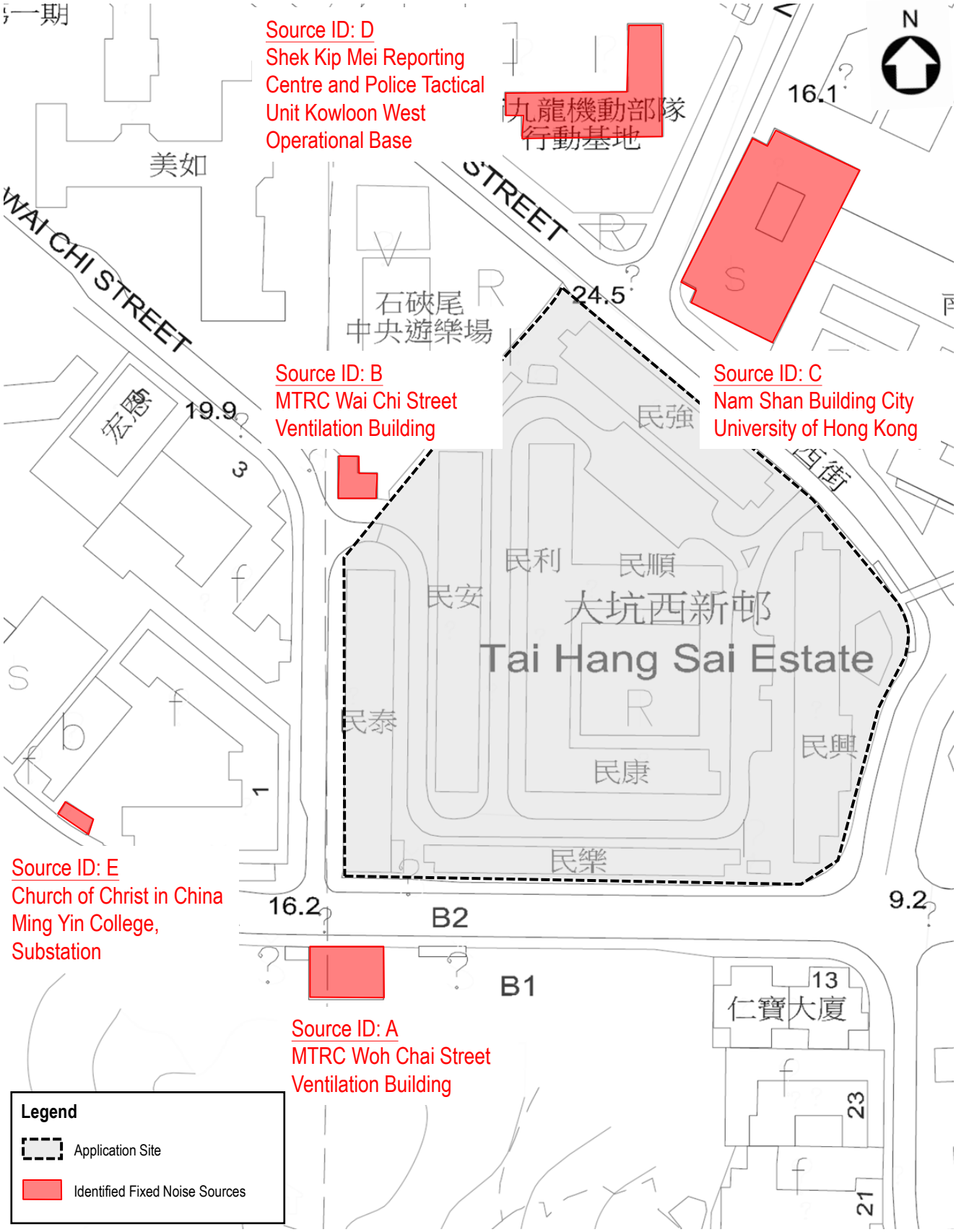
Loc 2: Church of Christ in China Ming Yin College
Daytime: **60 – 62dB(A)** L90 (1 hour), at the facade
Night-time: **53 – 54dB(A)** L90 (1 hour), at the facade

Loc 1: Ample Building
Daytime: **61 – 63dB(A)** L90 (1 hour), at the facade
Night-time: **53 – 54dB(A)** L90 (1 hour), at the facade

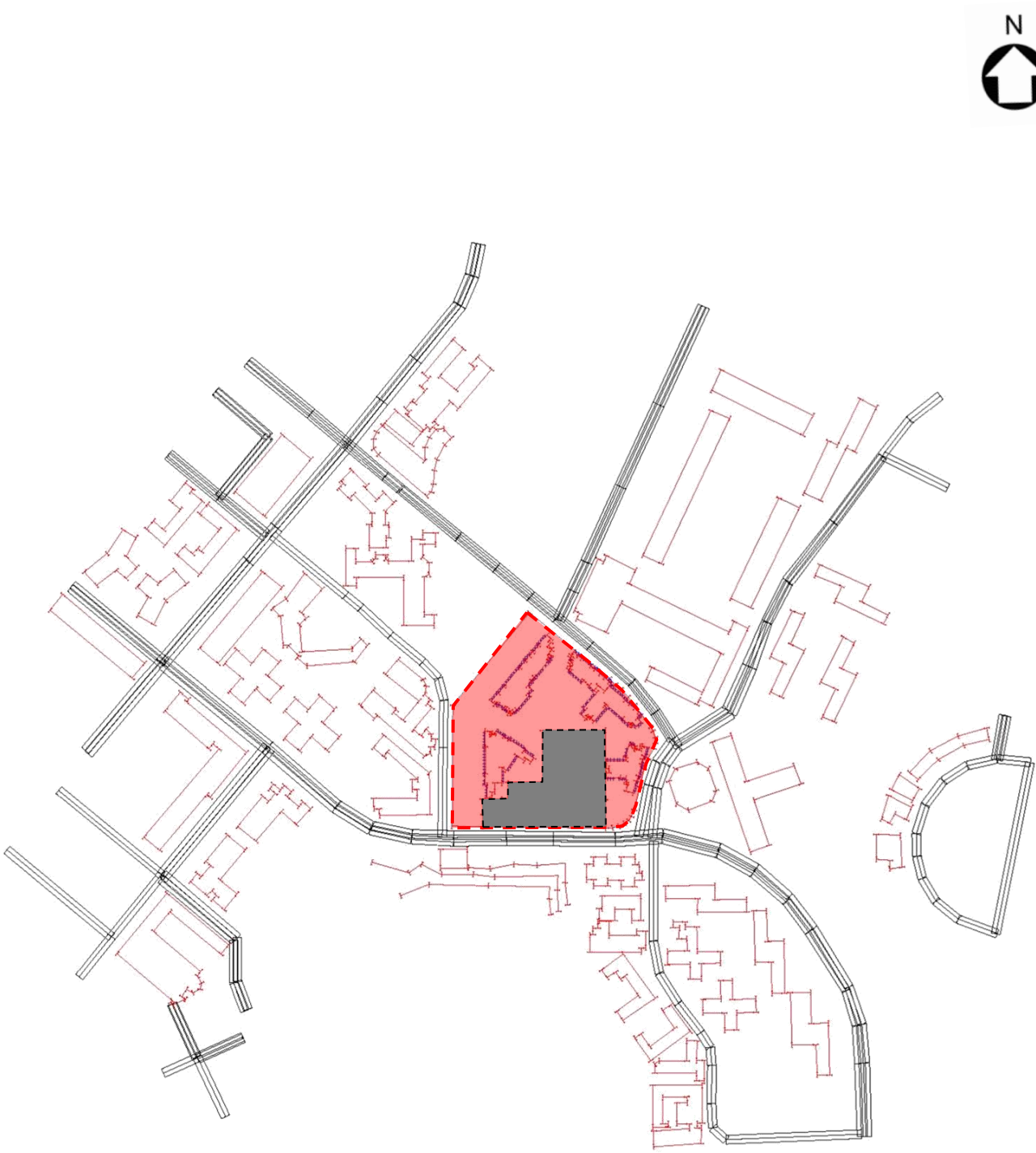
Legend

- Application Site (Site 1 and Site 2 of Tai Hang Sai Estate)
- Measurement Location (outdoor noise measurement)
- Measurement Location (indoor noise measurement)

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Background and Railway Noise Measurement Locations**	**2**



Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Locations of Identified Fixed Noise Sources**	**3**



Legend

- Application Site
- Site 1
- Site 2

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583	**Computer Plot of Road Scheme**	**4**
Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon		



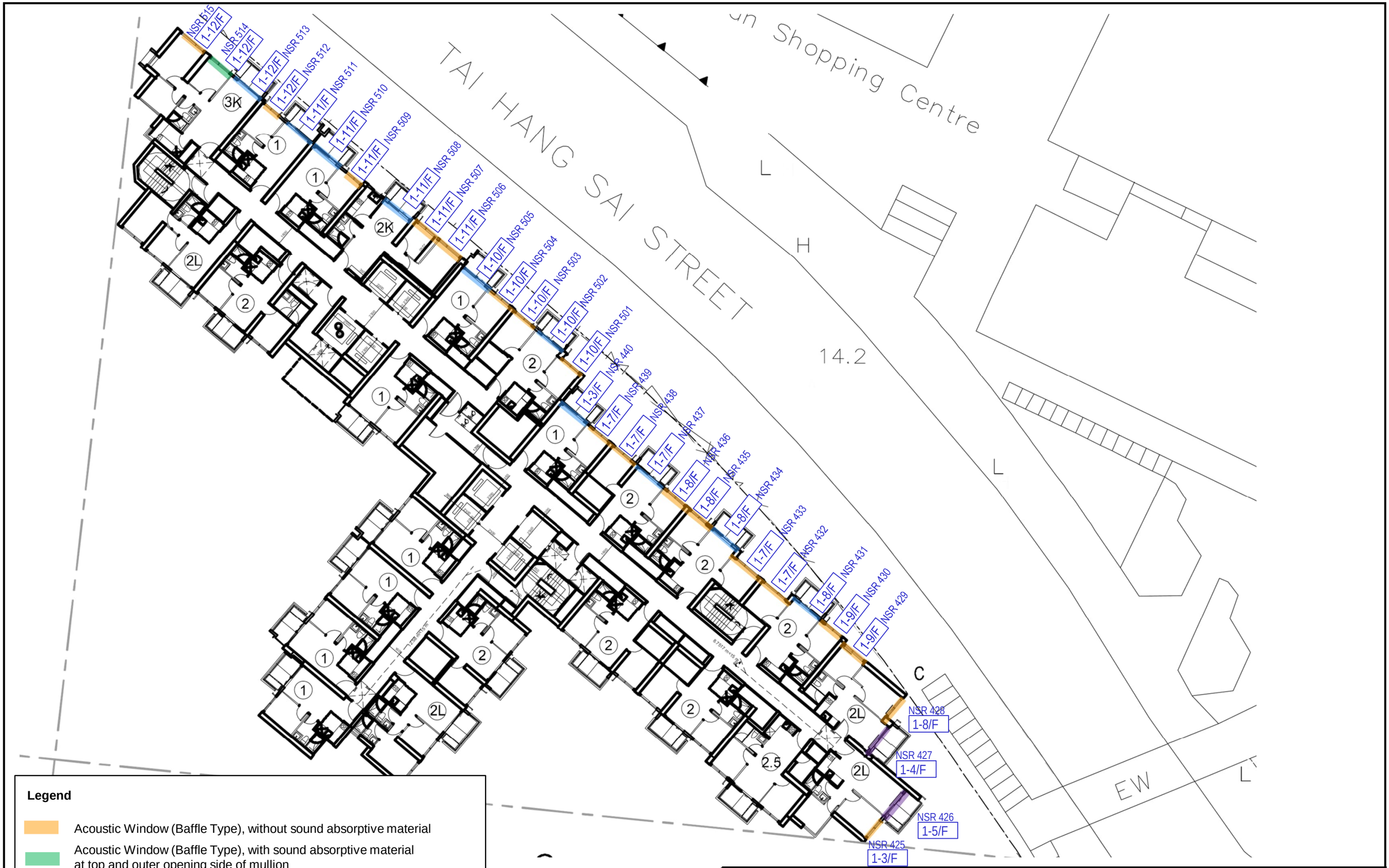
Legend

Acoustic Window (Baffle Type), without sound absorptive material

Acoustic Door (Baffle Type)

X-XX/F Acoustic Window / Door (Baffle Type) will be required for X/F – XX/F

Westwood Hong & Associates Ltd PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	TITLE: **Location of Noise Mitigation Measures, Site 2, T1**	FIGURE **5A**



Legend

- Acoustic Window (Baffle Type), without sound absorptive material
- Acoustic Window (Baffle Type), with sound absorptive material at top and outer opening side of mullion
- Acoustic Door (Baffle Type)
- Acoustic Balcony
- X-XX/F — Acoustic Window / Balcony (Baffle Type) will be required for X/F – XX/F

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Location of Noise Mitigation Measures, Site 2, T2A and T2B**	**5B**



Legend

Acoustic Window (Baffle Type), without sound absorptive material

X-XX/F — Acoustic Window / Balcony (Baffle Type) will be required for X/F – XX/F

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Location of Noise Mitigation Measures, Site 2, T3**	**5C**

Extracted from Site 1 Approved NIA Report



Legend

- Acoustic Window (Baffle Type), without sound absorptive material
- Acoustic Window (Baffle Type), with sound absorptive material at top and outer opening side of million
- X-XX/F — Acoustic Window (Baffle Type) will be required for X/F – XX/F

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22544	**Location of Noise Mitigation Measures – Site 1, Tower 1**	**6A**
Proposed Composite Development at NKIL No. 6654, Shek Kip Mei, Kowloon		

Extracted from Site 1 Approved NIA Report



Legend

- Acoustic Window (Baffle Type), without sound absorptive material
- Acoustic Window (Baffle Type), with sound absorptive material at top and outer opening side of million
- X-XX/F — Acoustic Window (Baffle Type) will be required for X/F – XX/F

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22544	**Location of Noise Mitigation Measures – Site 1, Tower 2**	**6B**
Proposed Composite Development at NKIL No. 6654, Shek Kip Mei, Kowloon		

APPENDIX 1

ARCHITECTURAL DRAWINGS


SITE 2
SITE 1
TOWER 2A
+180
TOWER 2B
+143
TOWER 3A &
TOWER 3B
+180
TOWER 5A &
TOWER 5B
+180
TOWER 1
+143
BLOCK 1
+135
BLOCK 2
+115
GIC
EVA
NON-BUILDING AREA
25000
EXISTING SLOPE
PEDESTRIAN ACCESS
5000
MTR EXIT
VS
CUL
TAI HANG SAI STREET
TAI HANG TUNG ROAD
WAI CHI STREET
WOH CHAI STREET
籃球場
Basketball Court
石硤尾中央遊樂場
Shek Kip Mei Central Playground
大坑西街休憩處
南山邨多層停車場
Nam Shan Estate Multi-storey Carpark
南豐樓
Nam Fung House
熟食檔
Cooked Food Stall
平台
Podium
南山商場
Nam Shan Shopping Centre
市場
Market
南樂樓
Nam Lok House
大坑東道
宏恩基督教學院
Gratia Christian College
寶血會上智英文書院
Holy Trinity College
中華基督教會銘賢書院
The Church of Christ in China Ming Yin College
中華基督教會深愛堂幼稚園
The Church of Christ in China Shum Oi Kindergarten
仁寶大廈
I－P座
A－H座
Ample
RESIDENTIAL TOWERS OF SITE 1
RESIDENTIAL TOWERS OF SITE 2
PROPOSED GIC FACILITIES
PUBLIC OPEN SPACE
PRIVATE LANDSCAPE PODIUM
PRIVATE LANDSCAPE ROOF
EVA
SETBACK AREA AT GRADE
COVERED WALKWAY
FOOTBRIDGE
PRIVATE AREA
SITE BOUNDARY OF SITE 1
SITE BOUNDARY OF SITE 2

UNEXCAVATED

UNEXCAVATED

NON-BUILDING AREA

25000

UNDERGROUND MTR STRUCTURE

SITE 2

UNEXCAVATED

UNEXCAVATED

25000

NON-BUILDING AREA

CARPARK

SITE 1

UNEXCAVATED

TAI HANG TUNG ROAD

南樂樓
Nam Lok House

大坑東道

道路
Road

東龍樓
Tung Lung House

SITE BOUNDARY OF SITE 1

SITE BOUNDARY OF SITE 2

Proposed Scheme - Basement (Site 1)

UNEXCAVATED

UNEXCAVATED

CARPARK

NON-BUILDING AREA

25000

UNDERGROUND MTR STRUCTURE

UNEXCAVATED

25000

NON-BUILDING AREA

CARPARK

RETAIL / E&M

CARPARK

UNEXCAVATED

南樂樓
Nam Lok House

大坑東道

道路
Road

東龍樓
Tung Lung House

TAI HANG TUNG ROAD

仁寶大廈
1–13
A－H座
P－P座
Ample

SITE BOUNDARY OF SITE 1

SITE BOUNDARY OF SITE 2

Proposed Scheme - LG/F

UNEXCAVATED

UNEXCAVATED

UNEXCAVATED

CARPARK

NON-BUILDING AREA 25000

UNDERGROUND MTR STRUCTURE

NON-BUILDING AREA 25000

SHOP & SERVICES /EATING PLACE

GIC (UG1/F)

BLOCK 1 LIFT LOBBY

BLOCK 2 LIFT LOBBY

RAMP 1/8

TO BASEMENT CARPARK

G SAI STREET

TAI HANG TUNG ROAD

南豐樓 Nam Fung House

熟食檔 Cooked Food Stall

平台 Podium

Shan Shopping Centre 南山商場

市場 Market

南樂樓 Nam Lok House

大坑東道

道路 Road

東龍樓 Tung Lung House

1–13 仁寶大廈

I – P 座

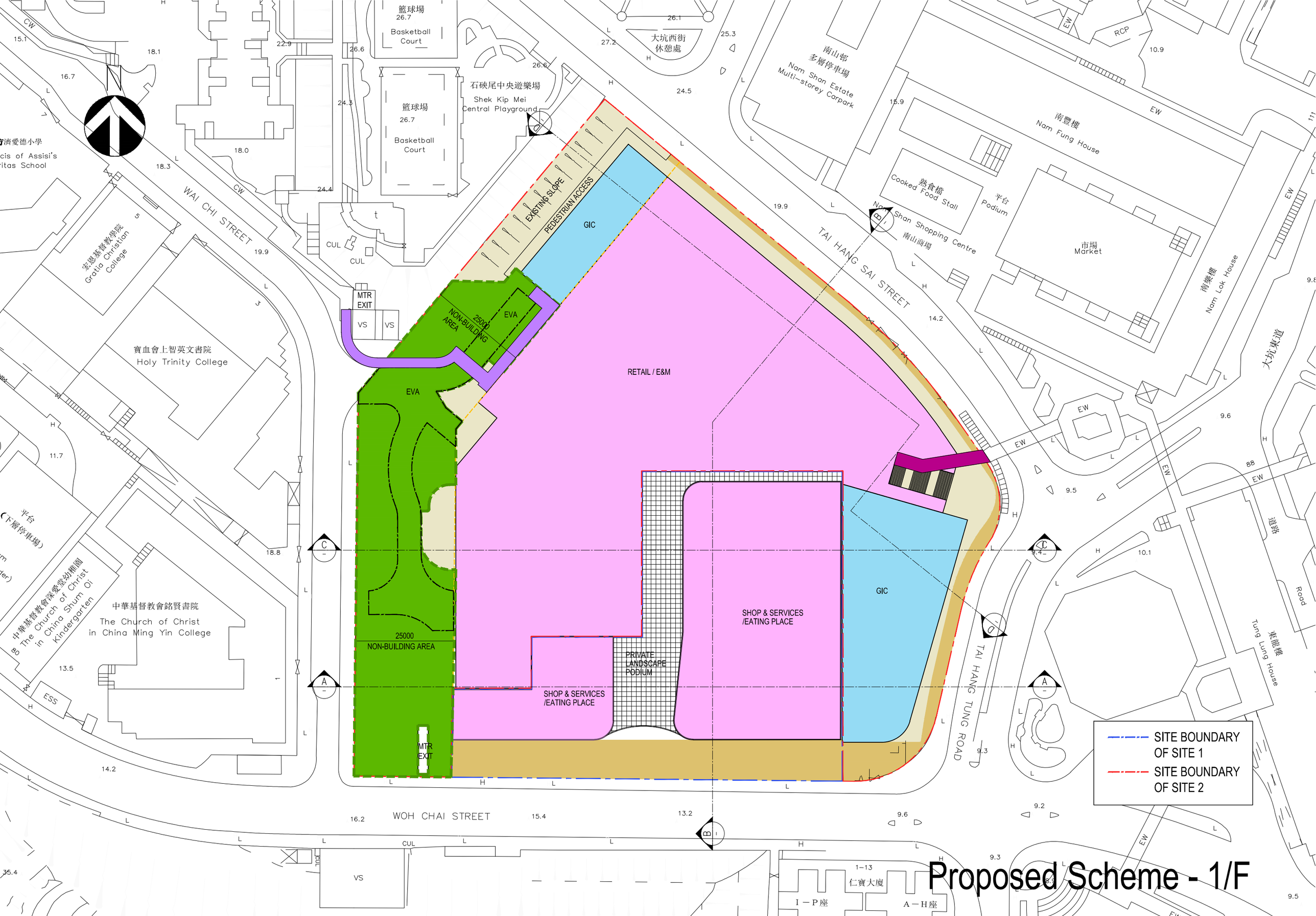
A – H 座

Ample

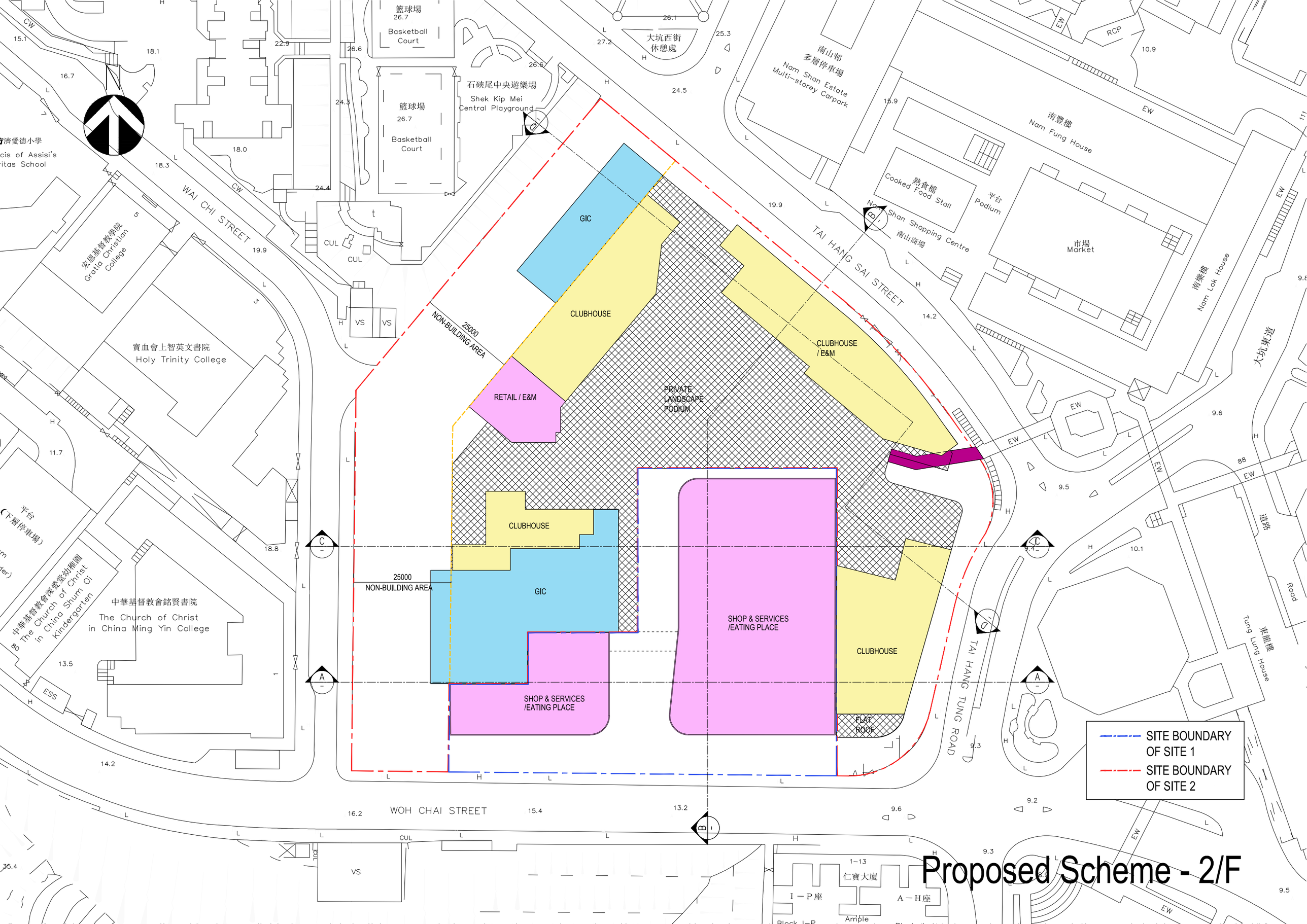
SITE BOUNDARY OF SITE 1

SITE BOUNDARY OF SITE 2

Proposed Scheme - UG/F



Proposed Scheme - 1/F



Proposed Scheme - 2/F

籃球場
26.7
Basketball Court

籃球場
26.7
Basketball Court

石硤尾中央遊樂場
Shek Kip Mei Central Playground

大坑西街休憩處

南山邨多層停車場
Nam Shan Estate Multi-storey Carpark

南豐樓
Nam Fung House

熟食檔
Cooked Food Stall

平台
Podium

Nam Shan Shopping Centre
南山商場

市場
Market

南樂樓
Nam Lok House

大坑東道

濟愛德小學
cis of Assisi's
ritas School

WAI CHI STREET

TAI HANG SAI STREET

TAI HANG TUNG ROAD

宏恩基督教學院
Gratia Christian College

寶血會上智英文書院
Holy Trinity College

中華基督教會深愛堂幼稚園
The Church of Christ in China Shum Oi Kindergarten

中華基督教會銘賢書院
The Church of Christ in China Ming Yin College

WOH CHAI STREET

FLAT ROOF

CLUBHOUSE

PRIVATE LANDSCAPE ROOF

CLUBHOUSE

25000
NON-BUILDING AREA

PRIVATE LANDSCAPE ROOF

CLUBHOUSE/ E&M

25000
NON-BUILDING AREA

PRIVATE LANDSCAPE ROOF

CLUBHOUSE/ E&M/ TRANSFER PLATE

FLAT ROOF

1–13 仁寶大廈

I – P 座

A – H 座

Ample

道路
Road

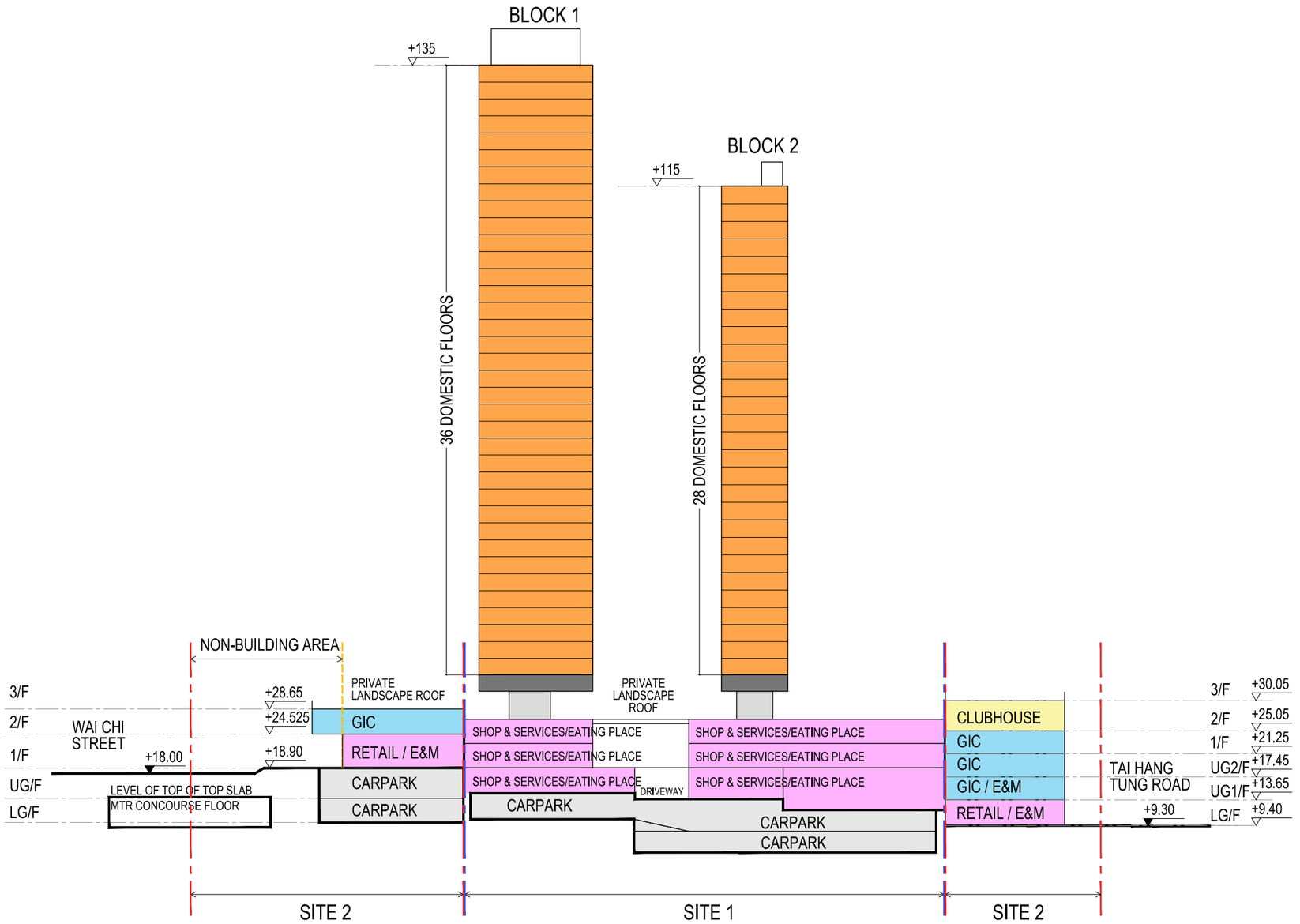
東龍樓
Tung Lung House

SITE BOUNDARY OF SITE 1

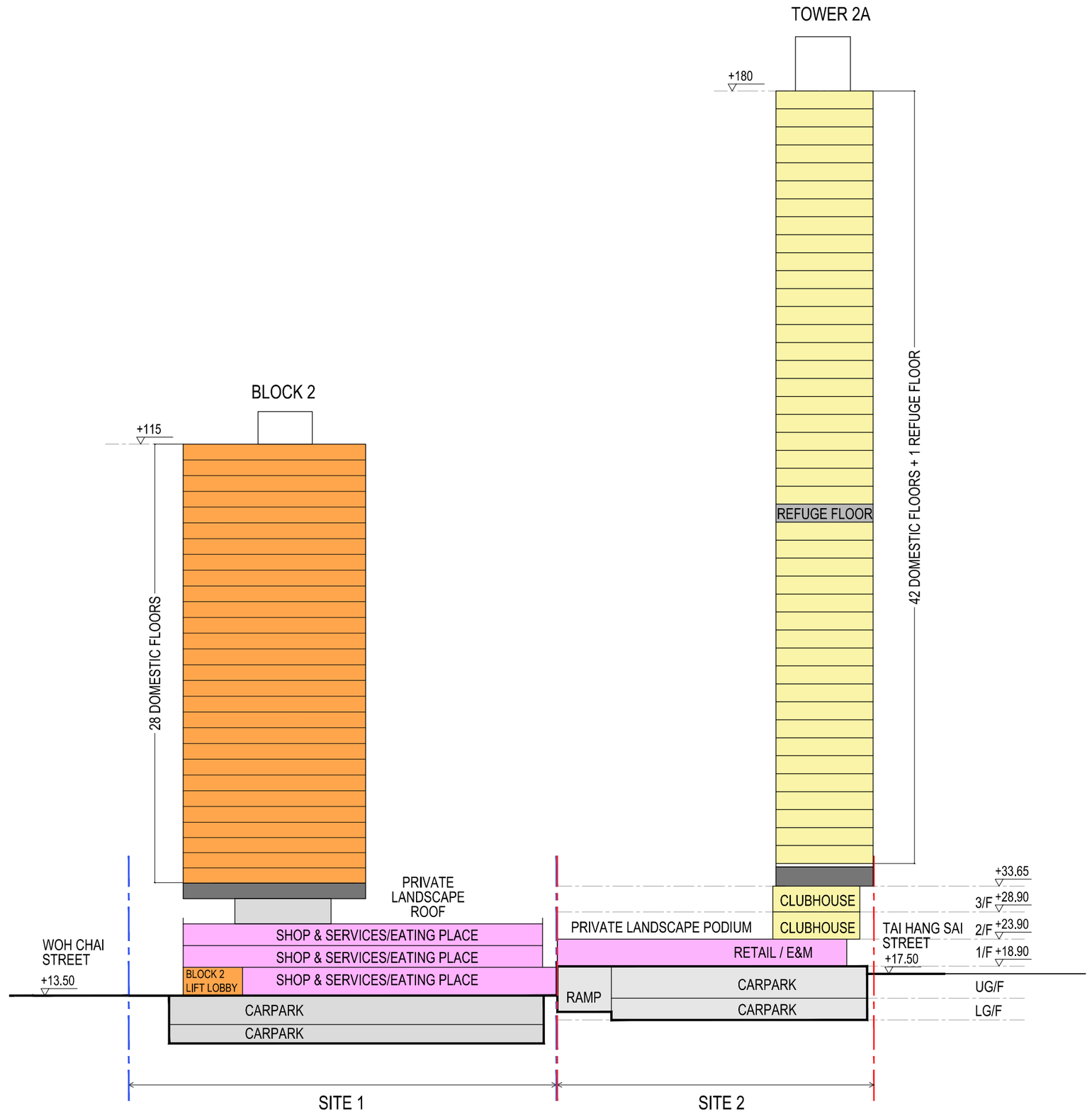
SITE BOUNDARY OF SITE 2

Proposed Scheme - 3/F

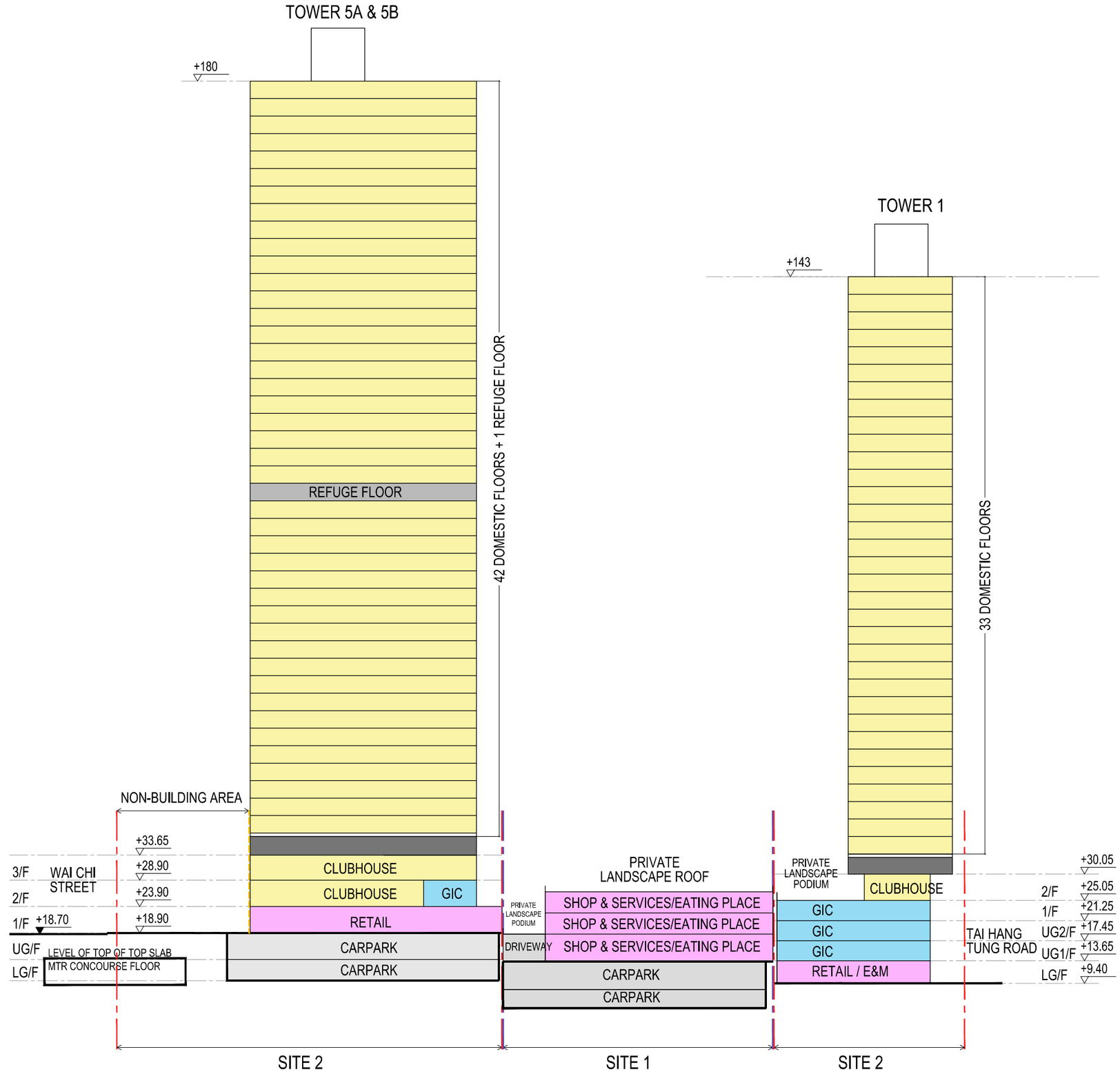
Basketball Court
Basketball Court
Shek Kip Mei Central Playground
Nam Shan Estate Multi-storey Carpark
Nam Fung House
Cooked Food Stall
Podium
Nam Shan Shopping Centre
Market
Nam Lok House
Tung Lung House
Gratia Christian College
Holy Trinity College
The Church of Christ in China Shum Oi Kindergarten
The Church of Christ in China Ming Yin College
WAI CHI STREET
TAI HANG SAI STREET
WOH CHAI STREET
Road
RCP
CW
EW
CUL
VS
ESS
1–13



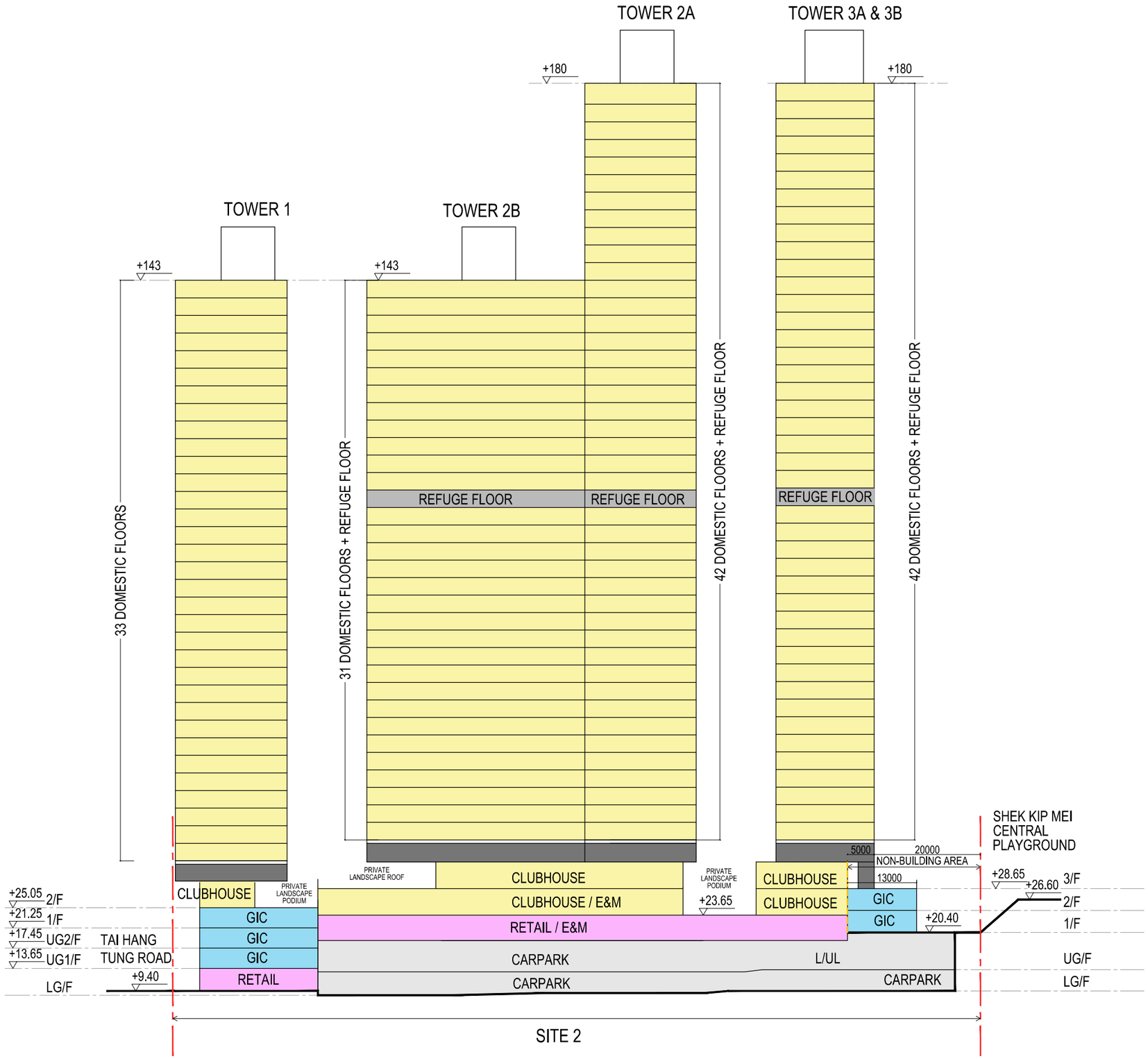
Proposed Scheme - Section A-A



Proposed Scheme - Section B-B



Proposed Scheme - Section C-C



Proposed Scheme - Section D-D

APPENDIX 2

PHOTOS TAKEN ON SITE



Plate 1: The existing Tai Hang Sai Estate



Plate 2: Entrance of the existing Tai Hang Sai Estate

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Photographs taken on Site**	**A2-1**

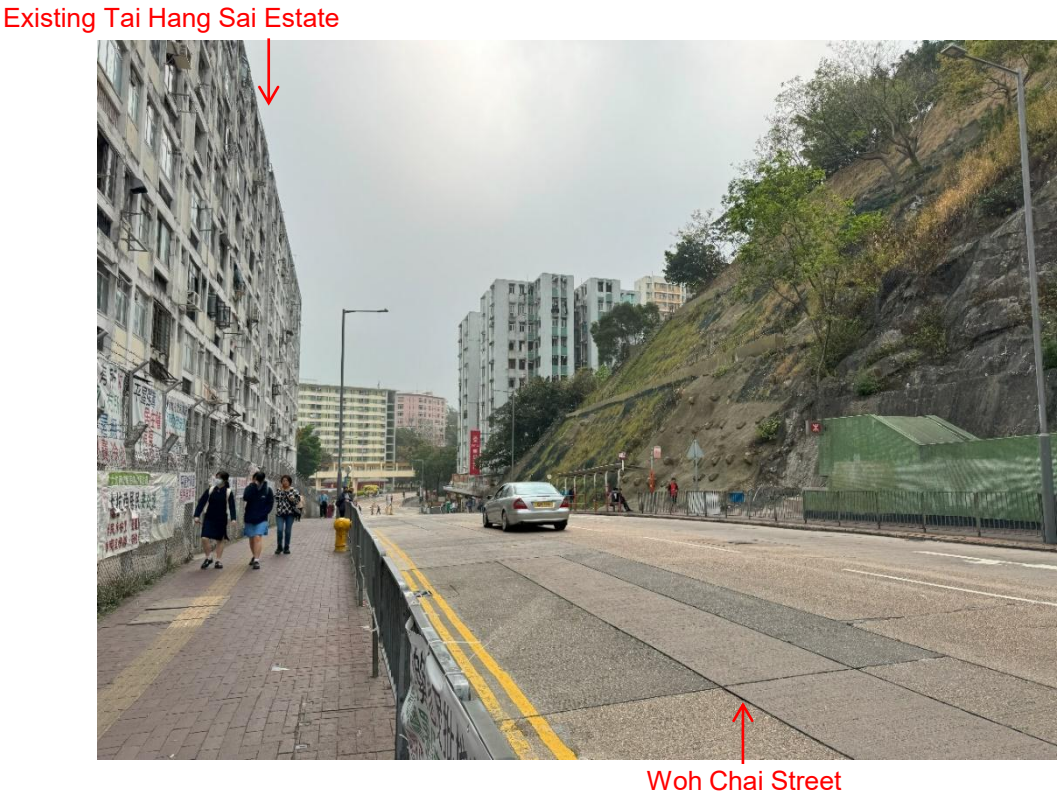


Plate 3: Woh Chai Street and the existing Tai Hang Sai Estate

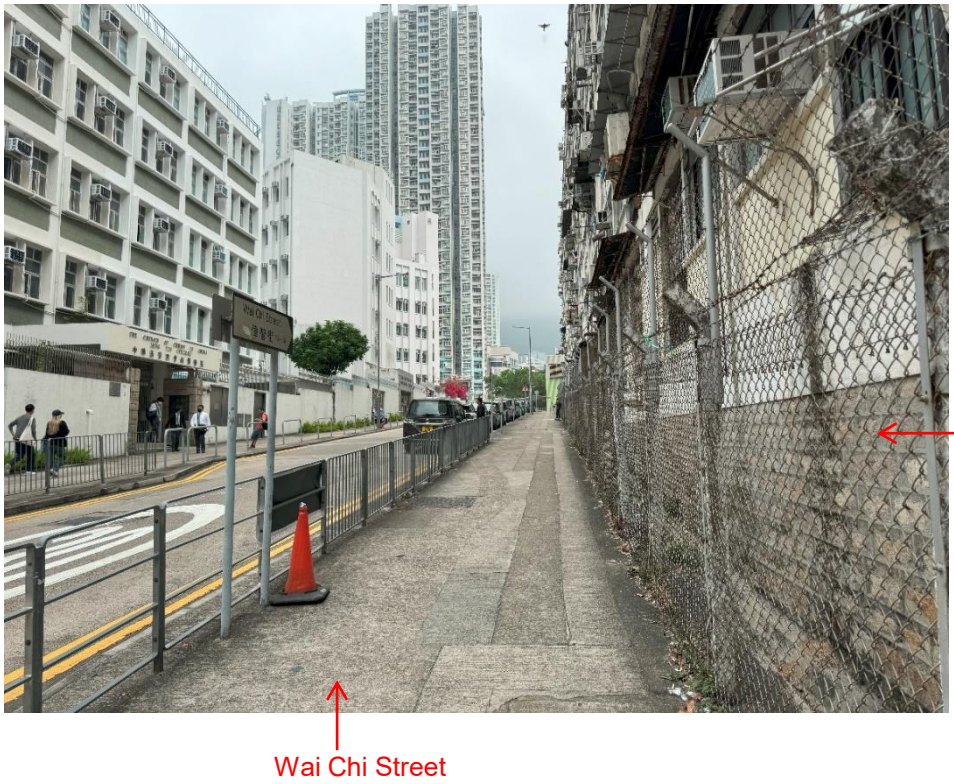


Plate 4: Wai Chi Street and the existing Tai Hang Sai Estate

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Photographs taken on Site**	**A2-2**



Plate 5: Tai Hang Sai Street and the existing Tai Hang Sai Estate



Plate 6: Tai Hang Tung Road

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Photographs taken on Site**	**A2-3**

APPENDIX 3

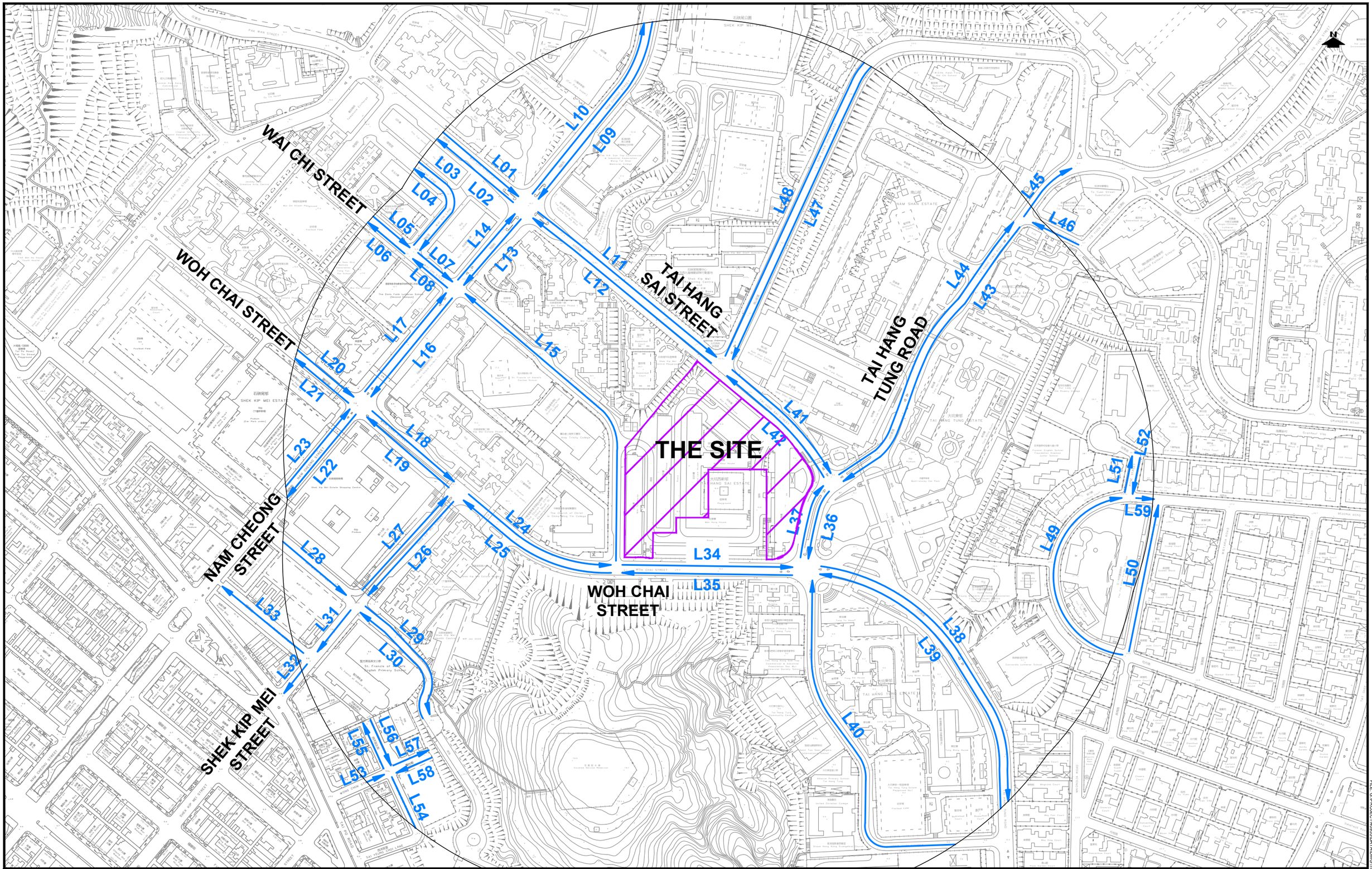
YEAR 2044 and Year 2047 TRAFFIC FORECAST
(provided by LLA CONSULTANCY LTD.)

Table 4.2 Traffic Forecast for 2032 and 2047 Design Year (veh/hr)

Index	Road Section	2032 (veh/hr)[1]		2047 (veh/hr)[1]		Adopted Heavy Vehicle %	
		AM	PM	AM	PM	AM	PM
L01	Wai Lun Street	170	150	170	150	28%	23%
L02	Wai Lun Street	70	60	80	70	32%	26%
L03	Wai Chi Lane	50	70	50	70	7%	11%
L04	Wai Chi Lane	20	40	20	40	18%	25%
L05	Wai Chi Street	60	50	60	50	21%	18%
L06	Wai Chi Street	90	110	90	110	19%	11%
L07	Wai Chi Street	90	70	90	70	15%	13%
L08	Wai Chi Street	90	90	90	100	19%	14%
L09	Nam Cheong Street	470	420	470	430	36%	28%
L10	Nam Cheong Street	600	500	610	510	33%	34%
L11	Tai Hang Sai Street	430	380	440	380	16%	13%
L12	Tai Hang Sai Street	250	180	260	190	33%	27%
L13	Nam Cheong Street	300	270	310	280	47%	35%
L14	Nam Cheong Street	520	460	530	470	28%	30%
L15	Wai Chi Street	240	200	250	210	24%	34%
L16	Nam Cheong Street	430	350	440	360	35%	31%
L17	Nam Cheong Street	410	370	420	380	26%	23%
L18	Woh Chai Street	640	450	660	460	17%	20%
L19	Woh Chai Street	90	80	90	90	46%	35%
L20	Woh Chai Street	320	210	330	210	19%	23%
L21	Woh Chai Street	130	130	130	130	20%	18%
L22	Nam Cheong Street	100	80	100	80	99%	95%
L23	Nam Cheong Street	420	380	430	380	23%	23%
L24	Woh Chai Street	420	350	430	360	39%	37%
L25	Woh Chai Street	500	430	510	440	23%	21%
L26	Shek Kip Mei Street	900	680	910	690	15%	14%
L27	Shek Kip Mei Street	250	230	260	230	51%	44%
L28	Berwick Street	480	470	490	480	37%	29%
L29	Berwick Street	150	30	150	30	9%	4%
L30	Berwick Street	120	30	120	30	7%	4%
L31	Shek Kip Mei Street	1090	920	1110	930	18%	17%
L32	Shek Kip Mei Street	1050	870	1070	880	18%	17%
L33	Yiu Tung Street	50	60	50	60	12%	8%
L34	Woh Chai Street	300	260	300	270	38%	28%
L35	Woh Chai Street	610	540	630	550	21%	19%

Index	Road Section	2032 (veh/hr)[1]		2047 (veh/hr) [1]		Adopted Heavy Vehicle %	
		AM	PM	AM	PM	AM	PM
L36	Tai Hang Tung Road	540	380	550	390	18%	20%
L37	Tai Hang Tung Road	310	270	310	270	33%	31%
L38	Tai Hang Tung Road	560	410	570	420	26%	20%
L39	Tai Hang Tung Road	310	330	310	340	20%	20%
L40	Tong Yam Street	320	260	330	260	30%	22%
L41	Tai Hang Sai Street	380	320	390	320	18%	13%
L42	Tai Hang Sai Street	240	190	240	190	27%	17%
L43	Tai Hang Tung Road	230	170	240	180	20%	23%
L44	Tai Hang Tung Road	210	160	210	170	26%	30%
L45	Tai Hang Tung Road	280	190	280	190	21%	24%
L46	Lung Chu Street	300	190	300	200	16%	18%
L47	Nam Shan Chuen Road	80	80	80	80	32%	12%
L48	Nam Shan Chuen Road	120	120	120	130	17%	14%
L49	Begonia Road	130	60	130	60	14%	12%
L50	Cassia Road	70	80	70	80	12%	3%
L51	Rose Street	80	10	90	10	7%	14%
L52	Rose Street	80	10	80	20	6%	11%
L53	Wong Chuk Street	10	20	20	20	20%	9%
L54	Sai Yeung Choi Street North	20	20	20	20	31%	8%
L55	Sai Yeung Choi Street North	10	10	10	10	0%	50%
L56	Sai Yeung Choi Street North	10	10	10	10	25%	25%
L57	Wong Chuk Street	0	0	0	0	0%	0%
L58	Wong Chuk Street	10	0	10	0	100%	0%
L59	Begonia Road	120	60	120	60	15%	12%

Note: (1) Traffic flow figures rounded up to the nearest 10.



PROJECT NO. 40955	PROJECT TITLE PROJECT SITE 2 OF TAI HANG SAI ESTATE REDEVELOPMENT (THSE) AT SHEK KIP MEI, KOWLOON - TIA IN SUPPORT OF FRESH S16 PLANNING APPLICATION FOR RELAXATION OF BUILDING HEIGHT AND INCREMENT OF FLAT NUMBER	DRAWING NO. FIGURE N1	REV. ·
DESIGNED SKL / DATE NOV 2024	DRAWING TITLE ROAD SECTIONS WITHIN 300 m OF THE SITE	LLA 顧問有限公司 Consultancy Limited	
DRAWN CLL / SCALE 1:3000			
CHECKED ACL			

FILE. G:\PROJECT\40955\DATA\DWG\TIA\FIGURE-A1.DWG PLOT SCALE : 1 = 1

FILE G:\PROJECT\40955\DATA\DWG\TIA\FIGURE A1.DWG PLOT SCALE : 1 = 1

Extracted from Site 1 Approved NIA Report

KRM3D

By Fax
2831 0003

運輸署
Transport Department

本署檔案 Our Ref. : (KRS6E) in TD KR158/160-115
來函檔號 Your Ref. : 40899/L47898/SLN/amw
電　話 Tel. : 2399 2479
圖文傳真 Fax : 2397 8046
電　郵 Email :

24 October 2024

LLA Consultancy Limited
Unit 610, 6/F, Island Place Tower,
510 King's Road,
North Point, Hong Kong
(Attn. Mr. S L NG)

Dear Sir/Madam,

Residential Development at New Kowloon Inland Lot. 4479 - Site 1
Tai Hang Sai Estate, Shek Kip Mei, Kowloon
Technical Note on Traffic Forecast for Noise Impact Assessment

I refer to your letter dated 27 September 2024 submitting the technical note.

I have no comment on the methodology of the traffic forecast from traffic engineering point of view provided that the traffic data estimated in the forecast will only be used for noise impact assessment purpose.

Yours faithfully,

(YU Wai-ho)
for Commissioner for Transport

市區(九龍)及新界分區辦事處
Urban (Kln.) & NT Regional Office
九龍聯運街三十號旺角政府合署七樓及八樓
7th & 8th Floors, Mong Kok Government Offices, 30 Luen Wan Street, Kowloon.
圖文傳真 Fax No.: 2381 3799 (新界區) (NTRO) 2397 8046 (九龍市區) (U(K)RO)
網址 Web Site: http://www.td.gov.hk

Extracted from Site 1 Approved NIA Report

Table 2 2044 Traffic Forecast – AM Peak Hour

No.	Road	2044 Project Traffic Flows (veh/hr)	% of Heavies
L07	Wai Chi Street	90	15%
L08	Wai Chi Street	90	19%
L09	Nam Cheong Street	470	36%
L10	Nam Cheong Street	620	33%
L11	Tai Hang Sai Street	430	16%
L12	Tai Hang Sai Street	240	33%
L13	Nam Cheong Street	310	47%
L14	Nam Cheong Street	550	28%
L15	Wai Chi Street	250	24%
L16	Nam Cheong Street	450	35%
L17	Nam Cheong Street	430	26%
L18	Woh Chai Street	680	17%
L19	Woh Chai Street	90	46%
L22	Nam Cheong Street	100	99%
L23	Nam Cheong Street	440	23%
L24	Woh Chai Street	440	39%
L25	Woh Chai Street	520	23%
L26	Shek Kip Mei Street	950	15%
L27	Shek Kip Mei Street	260	51%
L28	Berwick Street	500	37%
L29	Berwick Street	180	9%
L30	Berwick Street	160	7%
L31	Shek Kip Mei Street	1,150	18%
L34	Woh Chai Street	310	38%
L35	Woh Chai Street	640	21%
L36	Tai Hang Tung Road	540	18%
L37	Tai Hang Tung Road	310	33%
L38	Tai Hang Tung Road	560	26%
L39	Tai Hang Tung Road	320	20%
L40	Tong Yam Street	330	30%
L41	Tai Hang Sai Street	360	18%
L42	Tai Hang Sai Street	210	27%
L43	Tai Hang Tung Road	240	20%
L44	Tai Hang Tung Road	210	26%
L47	Nam Shan Chuen Road	80	32%
L48	Nam Shan Chuen Road	120	17%
L49	Begonia Road	130	14%
L50	Begonia Road	120	15%
L52	Unnamed Road	50	16%
L53	Unnamed Road	50	16%
L58	Sai Yeung Choi Street North	10	0%
L59	Sai Yeung Choi Street North	10	25%
L60	Wong Chuk Street	0	0%
L61	Wong Chuk Street	10	100%

Extracted from Site 1 Approved NIA Report

Table 3 2044 Traffic Forecast – PM Peak Hour

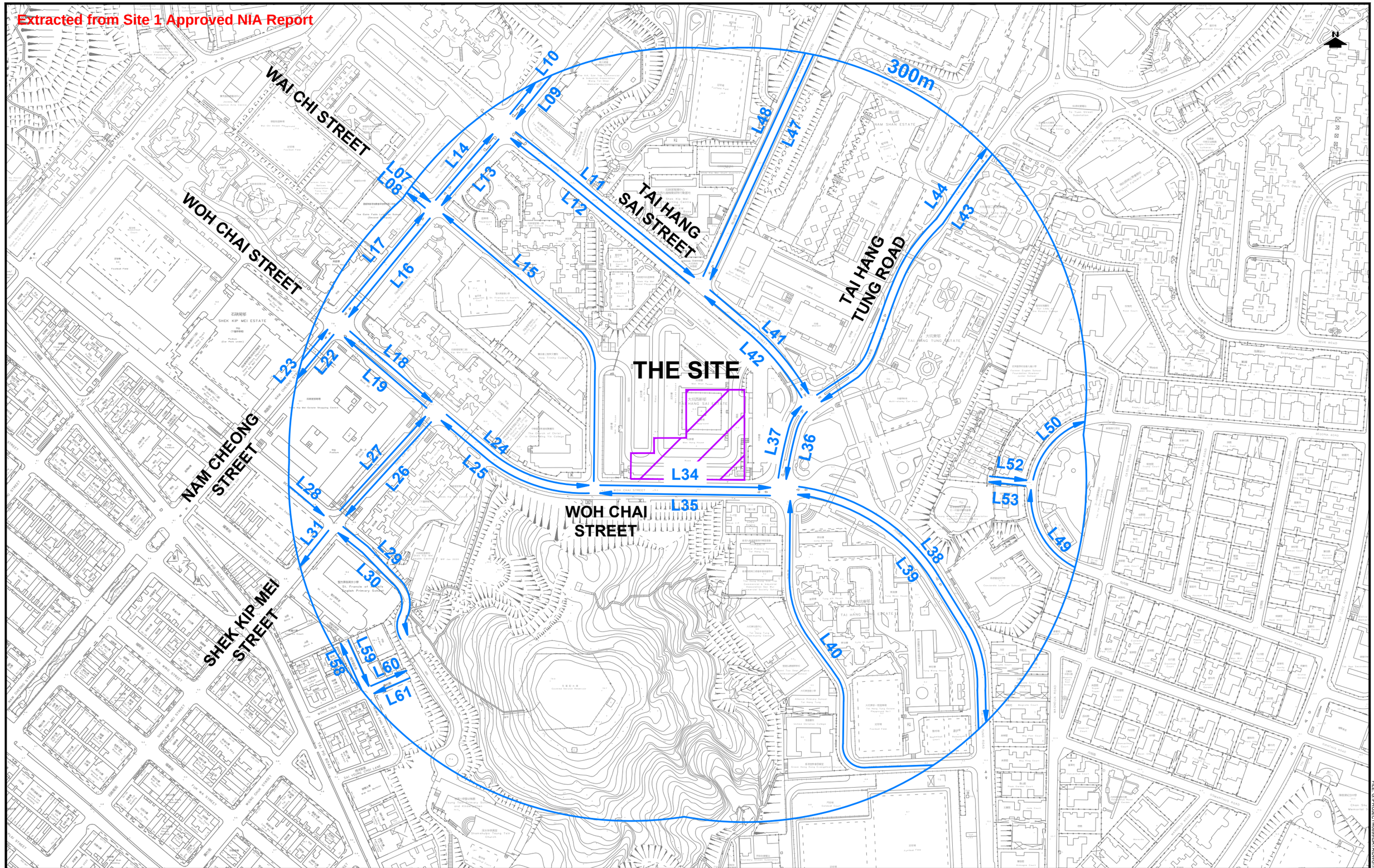
No.	Road	2044 Project Traffic Flows (veh/hr)	% of Heavies
L07	Wai Chi Street	70	13%
L08	Wai Chi Street	100	14%
L09	Nam Cheong Street	420	28%
L10	Nam Cheong Street	520	34%
L11	Tai Hang Sai Street	380	13%
L12	Tai Hang Sai Street	180	27%
L13	Nam Cheong Street	280	35%
L14	Nam Cheong Street	490	30%
L15	Wai Chi Street	210	34%
L16	Nam Cheong Street	370	31%
L17	Nam Cheong Street	400	23%
L18	Woh Chai Street	470	20%
L19	Woh Chai Street	90	35%
L22	Nam Cheong Street	80	95%
L23	Nam Cheong Street	400	23%
L24	Woh Chai Street	370	37%
L25	Woh Chai Street	460	21%
L26	Shek Kip Mei Street	720	14%
L27	Shek Kip Mei Street	230	44%
L28	Berwick Street	490	29%
L29	Berwick Street	50	4%
L30	Berwick Street	50	4%
L31	Shek Kip Mei Street	970	17%
L34	Woh Chai Street	270	28%
L35	Woh Chai Street	570	19%
L36	Tai Hang Tung Road	390	20%
L37	Tai Hang Tung Road	260	31%
L38	Tai Hang Tung Road	420	20%
L39	Tai Hang Tung Road	350	20%
L40	Tong Yam Street	260	22%
L41	Tai Hang Sai Street	310	13%
L42	Tai Hang Sai Street	170	17%
L43	Tai Hang Tung Road	180	23%
L44	Tai Hang Tung Road	170	30%
L47	Nam Shan Chuen Road	80	12%
L48	Nam Shan Chuen Road	130	14%
L49	Begonia Road	60	12%
L50	Begonia Road	60	12%
L52	Unnamed Road	50	16%
L53	Unnamed Road	50	30%
L58	Sai Yeung Choi Street North	10	50%
L59	Sai Yeung Choi Street North	10	25%
L60	Wong Chuk Street	0	0%
L61	Wong Chuk Street	0	0%

Extracted from Site 1 Approved NIA Report

Assumed Speed in the assessment

No.	Road	Assumed Speed (km/hr)
L07	Wai Chi Street	50
L08	Wai Chi Street	50
L09	Nam Cheong Street	50
L10	Nam Cheong Street	50
L11	Tai Hang Sai Street	50
L12	Tai Hang Sai Street	50
L13	Nam Cheong Street	50
L14	Nam Cheong Street	50
L15	Wai Chi Street	50
L16	Nam Cheong Street	50
L17	Nam Cheong Street	50
L18	Woh Chai Street	50
L19	Woh Chai Street	50
L22	Nam Cheong Street	50
L23	Nam Cheong Street	50
L24	Woh Chai Street	50
L25	Woh Chai Street	50
L26	Shek Kip Mei Street	50
L27	Shek Kip Mei Street	50
L28	Berwick Street	50
L29	Berwick Street	50
L30	Berwick Street	50
L31	Shek Kip Mei Street	50
L34	Woh Chai Street	50
L35	Woh Chai Street	50
L36	Tai Hang Tung Road	50
L37	Tai Hang Tung Road	50
L38	Tai Hang Tung Road	50
L39	Tai Hang Tung Road	50
L40	Tong Yam Street	50
L41	Tai Hang Sai Street	50
L42	Tai Hang Sai Street	50
L43	Tai Hang Tung Road	50
L44	Tai Hang Tung Road	50
L47	Nam Shan Chuen Road	50
L48	Nam Shan Chuen Road	50
L49	Begonia Road	50
L50	Begonia Road	50
L52	Unnamed Road	50
L53	Unnamed Road	50
L58	Sai Yeung Choi Street North	50
L59	Sai Yeung Choi Street North	50
L60	Wong Chuk Street	50
L61	Wong Chuk Street	50

Extracted from Site 1 Approved NIA Report

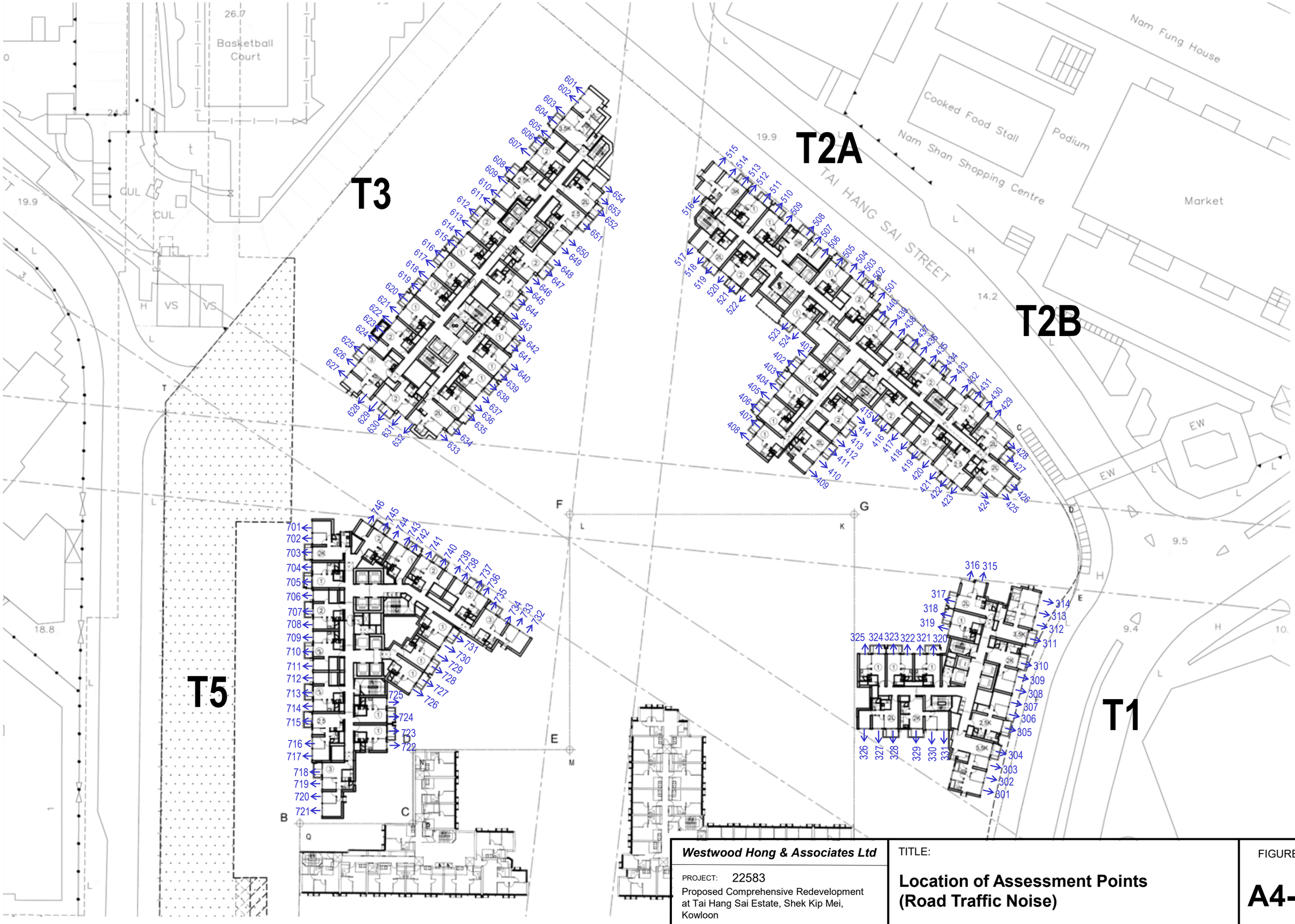


PROJECT NO. 40899	PROJECT TITLE: PROPOSED COMPREHENSIVE REDEVELOPMENT OF TAI HANG SAI ESTATE WITH MINOR RELAXATION OF PLOT RATIO AND BUILDING HEIGHT RESTRICTIONS, AND PROPOSED USE OF NON-BUILDING AREA IN "COMPREHENSIVE DEVELOPMENT AREA" AT NEW KOWLOON INLAND LOT NO. 4479, TAI HANG SAI ESTATE, SHEK KIP MEI, KOWLOON		DRAWING NO. FIGURE N1 / REV. ·
DESIGNED SKL / DATE JUL 2024	DRAWING TITLE: ROAD SECTIONS WITHIN 300 m OF THE SITE		LLA 顧問有限公司 Consultancy Limited
DRAWN CLL / SCALE 1:3000			
CHECKED ACL			

FILE: G:\PROJECT\40899\DATA\DWG\TIA\FIGURE-A1.DWG PLOT SCALE : 1 = 1

APPENDIX 4A

PREDICTED FAÇADE NOISE LEVELS FOR ROAD TRAFFIC NOISE FOR SITE 2
(BASE SCENARIO)



Westwood Hong & Associates Ltd

PROJECT: 22583

Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon

TITLE:

Location of Assessment Points (Road Traffic Noise)

FIGURE

A4-1

Job No. : 22583
Job Title : THSE Site 2
Scenario : Unmitigated

Percentage of flats in the development within the facade noise level

Noise level in dB(A)	No. of flats	Total No. of flats	%
<70	2628	2802	93.8
71	71	2802	2.5
72	54	2802	1.9
73	35	2802	1.2
74	13	2802	0.5
75	1	2802	0.0
76	0	2802	0.0
77	0	2802	0.0
78	0	2802	0.0

% OF EXCEEDANCE = 6.2%

Job No. : 22583
Job Title : THSE Site 2
Scenario : Unmitigated

Floor	Height of Noise Assessment Point (mPD)	Receiver																														
		T1																														
		301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331
1	35.1	74.1	73.7	73.4	73.4	73.4	73.4	73.3	73.3	73.2	73.1	73.1	73.2	73.3	73.4	68.6	68.1	51.8	50.2	50.2	50.3	54.0	56.4	57.7	58.3	58.5	68.2	67.9	67.8	66.9	65.6	64.4
2	38.3	73.8	73.3	73.1	73.0	73.1	73.1	73.0	72.9	72.9	72.7	72.8	72.9	73.0	73.1	68.3	67.8	51.6	50.1	50.2	50.3	53.9	56.3	57.6	58.2	58.4	68.1	67.8	67.6	66.7	65.5	64.3
3	41.6	73.5	73.0	72.7	72.7	72.7	72.8	72.7	72.6	72.6	72.4	72.5	72.6	72.6	72.8	68.1	67.5	51.6	50.0	50.1	50.3	53.8	56.1	57.5	58.1	58.3	67.9	67.6	67.4	66.5	65.4	64.2
4	44.8	73.2	72.7	72.5	72.4	72.5	72.5	72.4	72.3	72.3	72.1	72.2	72.3	72.3	72.5	67.8	67.3	51.5	50.0	50.0	50.2	53.7	56.1	57.4	58.0	58.2	67.8	67.5	67.3	66.4	65.2	64.0
5	48.1	72.9	72.4	72.2	72.1	72.2	72.2	72.1	72.0	72.0	71.8	71.9	72.0	72.1	72.2	67.6	67.1	51.4	50.0	50.0	50.2	53.6	55.9	57.3	57.9	58.1	67.6	67.3	67.1	66.2	65.1	63.9
6	51.3	72.6	72.2	71.9	71.9	71.9	71.9	71.8	71.8	71.7	71.6	71.6	71.8	71.8	72.0	67.3	66.8	51.3	49.9	50.0	50.2	53.5	55.8	57.2	57.8	58.0	67.4	67.1	67.0	66.1	64.9	63.7
7	54.6	72.4	72.0	71.7	71.6	71.7	71.7	71.6	71.5	71.5	71.3	71.4	71.5	71.6	71.7	67.1	66.6	51.2	49.9	49.9	50.1	53.4	55.7	57.0	57.7	57.9	67.3	67.0	66.8	65.9	64.8	63.6
8	57.8	72.2	71.7	71.4	71.4	71.4	71.4	71.3	71.3	71.2	71.1	71.1	71.3	71.3	71.5	66.9	66.4	51.1	49.8	49.9	50.0	53.3	55.6	56.9	57.5	57.8	67.1	66.8	66.6	65.8	64.6	63.4
9	61.1	71.9	71.5	71.2	71.1	71.2	71.2	71.1	71.0	71.0	70.9	70.9	71.0	71.1	71.3	66.7	66.2	51.0	49.8	49.8	50.0	53.2	55.5	56.8	57.4	57.7	66.9	66.7	66.5	65.6	64.4	63.3
10	64.3	71.7	71.3	71.0	70.9	71.0	71.0	70.9	70.8	70.8	70.7	70.7	70.8	70.9	71.1	66.5	66.0	51.0	49.7	49.8	50.0	53.1	55.4	56.7	57.3	57.6	66.8	66.5	66.3	65.5	64.3	63.1
11	67.6	71.5	71.1	70.8	70.7	70.8	70.8	70.7	70.6	70.6	70.5	70.5	70.6	70.7	70.9	66.3	65.8	50.9	49.7	49.7	49.9	53.0	55.2	56.6	57.2	57.5	66.6	66.3	66.2	65.3	64.1	63.0
12	70.8	71.3	70.9	70.6	70.5	70.6	70.6	70.5	70.4	70.4	70.3	70.3	70.4	70.5	70.7	66.1	65.6	50.8	49.6	49.7	49.9	52.9	55.1	56.5	57.1	57.3	66.5	66.2	66.0	65.2	64.0	62.9
13	74.1	71.1	70.7	70.4	70.3	70.4	70.4	70.3	70.2	70.2	70.1	70.1	70.2	70.3	70.5	65.9	65.5	50.7	49.6	49.6	49.8	52.8	55.0	56.4	57.0	57.2	66.4	66.0	65.9	65.0	63.9	62.7
14	77.3	71.0	70.5	70.2	70.2	70.2	70.2	70.1	70.1	70.0	69.9	69.9	70.0	70.1	70.3	65.7	65.3	50.7	49.6	49.6	49.7	52.7	54.9	56.3	56.9	57.1	66.2	65.9	65.7	64.9	63.7	62.6
15	80.6	70.8	70.3	70.0	70.0	70.1	70.1	70.0	69.9	69.9	69.7	69.8	69.9	69.9	70.1	65.5	65.1	50.6	49.5	49.6	49.7	52.6	54.8	56.2	56.8	57.0	66.1	65.8	65.6	64.7	63.6	62.5
16	83.8	70.6	70.2	69.9	69.8	69.9	69.9	69.8	69.7	69.7	69.6	69.6	69.7	69.8	69.9	65.4	64.9	50.5	49.4	49.5	49.7	52.5	54.7	56.1	56.7	56.9	66.0	65.7	65.5	64.6	63.5	62.3
17	87.1	70.5	70.0	69.7	69.7	69.7	69.8	69.7	69.6	69.5	69.4	69.5	69.6	69.6	69.8	65.2	64.8	50.4	49.4	49.5	49.6	52.4	54.6	56.0	56.6	56.8	65.9	65.6	65.4	64.5	63.4	62.2
18	90.3	70.3	69.9	69.6	69.5	69.6	69.6	69.5	69.4	69.4	69.3	69.3	69.4	69.5	69.7	65.0	64.7	50.4	49.3	49.4	49.6	52.3	54.4	55.9	56.5	56.8	65.8	65.5	65.3	64.4	63.2	62.1
19	93.6	70.2	69.7	69.4	69.4	69.5	69.5	69.4	69.3	69.2	69.1	69.2	69.3	69.3	69.5	64.9	64.5	50.3	49.3	49.3	49.5	52.2	54.4	55.9	56.4	56.7	65.7	65.4	65.2	64.3	63.1	62.0
20	96.8	70.1	69.6	69.3	69.3	69.3	69.3	69.2	69.1	69.1	69.0	69.0	69.1	69.2	69.4	64.8	64.4	50.2	49.3	49.3	49.4	52.2	54.2	55.8	56.4	56.6	65.6	65.3	65.0	64.1	63.0	61.8
21	100.1	69.9	69.5	69.2	69.1	69.2	69.2	69.1	69.0	69.0	68.9	68.9	69.0	69.1	69.3	64.7	64.2	50.1	49.2	49.2	49.4	52.1	54.1	55.7	56.3	56.5	65.5	65.1	64.9	64.0	62.9	61.7
22	103.3	69.8	69.3	69.0	69.0	69.0	69.0	68.9	68.9	68.8	68.7	68.8	68.9	68.9	69.1	64.5	64.1	50.1	49.1	49.2	49.3	52.0	54.0	55.6	56.2	56.4	65.4	65.1	64.8	63.9	62.8	61.6
23	106.6	69.7	69.2	68.9	68.9	68.9	68.9	68.8	68.7	68.7	68.6	68.6	68.7	68.8	69.0	64.4	64.0	50.0	49.1	49.1	49.3	51.9	54.0	55.5	56.1	56.4	65.3	65.0	64.7	63.8	62.7	61.5
24	109.8	69.5	69.1	68.8	68.7	68.8	68.8	68.7	68.6	68.6	68.5	68.5	68.6	68.7	68.9	64.2	63.8	50.0	49.0	49.1	49.2	51.8	53.9	55.4	56.0	56.3	65.2	64.9	64.6	63.7	62.6	61.3
25	113.1	69.4	69.0	68.7	68.6	68.7	68.7	68.6	68.5	68.5	68.3	68.4	68.5	68.6	68.8	64.1	63.7	49.9	49.0	49.0	49.2	51.7	53.8	55.3	55.9	56.2	65.1	64.8	64.5	63.6	62.4	61.2
26	116.3	69.3	68.8	68.6	68.5	68.6	68.6	68.4	68.4	68.4	68.2	68.3	68.4	68.5	68.7	64.0	63.6	49.8	48.9	49.0	49.1	51.7	53.7	55.2	55.9	56.1	65.0	64.7	64.4	63.5	62.3	61.1
27	119.6	69.2	68.7	68.4	68.4	68.4	68.5	68.3	68.3	68.2	68.1	68.1	68.3	68.3	68.5	63.9	63.5	49.7	48.8	48.9	49.0	51.6	53.6	55.1	55.8	56.1	64.9	64.6	64.3	63.4	62.2	61.0
28	122.8	69.1	68.6	68.3	68.3	68.3	68.4	68.2	68.2	68.1	68.0	68.1	68.2	68.3	68.4	63.8	63.4	49.7	48.8	48.8	49.0	51.5	53.5	55.1	55.7	56.0	64.8	64.5	64.2	63.3	62.1	60.9
29	126.1	69.0	68.5	68.2	68.2	68.2	68.3	68.1	68.1	68.0	67.9	68.0	68.1	68.1	68.3	63.7	63.3	49.6	48.8	48.8	48.9	51.4	53.4	55.0	55.6	55.9	64.7	64.4	64.1	63.2	62.0	60.8
30	129.3	68.9	68.4	68.1	68.1	68.1	68.2	68.0	68.0	67.9	67.8	67.9	68.0	68.0	68.2	63.6	63.2	49.6	48.7	48.7	48.9	51.3	53.3	54.9	55.6	55.8	64.6	64.3	64.0	63.1	61.9	60.7
31	132.6	68.8	68.3	68.0	68.0	68.0	68.0	67.9	67.8	67.8	67.7	67.7	67.9	67.9	68.1	63.5	63.1	49.5	48.7	48.7	48.8	51.3	53.2	54.8	55.5	55.7	64.5	64.2	63.9	63.0	61.8	60.6
32	135.8	68.6	68.2	67.9	67.9	67.9	67.9	67.8	67.7	67.7	67.6	67.6	67.8	67.8	68.0	63.4	63.0	49.5	48.7	48.7	48.9	51.2	53.2	54.8	55.4	55.7	64.4	64.1	63.8	62.9	61.7	60.5
33	139.1	68.6	68.1	67.8	67.8	67.8	67.9	67.7	67.7	67.6	67.5	67.6	67.7	67.7	67.9	63.3	63.0	49.7	48.9	48.9	49.0	51.3	53.2	54.7	55.4	55.7	64.4	64.0	63.8	62.8	61.7	60.4
34	142.3																															
35	145.6																															
36	148.8																															
37	152.1																															
38	155.3																															
39	158.6																															
40	161.8																															
41	165.1																															
42	168.3																															
43	171.6																															
max		74.1	73.7	73.4	73.4	73.4	73.4	73.3	73.3	73.2	73.1	73.1	73.2	73.3	73.4	68.6	68.1	51.8	50.2	50.2	50.3	54.0	56.4	57.7	58.3	58.5	68.2	67.9	67.8	66.9	65.6	64.4

Number of flats within the noise level

Noise level in dB(A)		Number of flats																														
<70		16	0	0	0	21	0	0	22	0	0	0	0	0	20	33	0	0	33	0	0	33	0	33	0	33	33	0	0	33	0	0
71		6	0	0	0	5	0	0	4	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72		5	0	0	0	3	0	0	4	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		3	0	0	0	4	0	0	3	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Height of Noise Assessment	T2B																																				
Floor	Point (mPD)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440
1	39.0	49.0	49.4	49.7	50.0	52.3	55.3	55.6	56.9	61.1	60.7	60.0	58.9	58.0	56.6	55.5	55.9	56.5	57.1	57.8	58.6	60.4	61.9	64.9	66.3	**71.0**	**71.8**	**71.5**	**72.4**	**73.1**	**73.0**	**72.9**	**72.8**	**72.7**	**72.9**	**72.8**	**72.8**	**72.8**	**72.7**	**72.6**	**71.6**
2	42.3	49.0	49.3	49.7	50.0	52.3	55.3	55.5	56.9	61.0	60.6	59.9	58.9	57.9	56.5	55.4	55.8	56.4	56.9	57.6	58.5	60.2	61.8	64.7	66.1	**70.8**	**71.5**	**71.2**	**72.1**	**72.6**	**72.6**	**72.5**	**72.3**	**72.4**	**72.4**	**72.4**	**72.4**	**72.3**	**72.3**	**72.2**	**71.2**
3	45.5	49.0	49.3	49.8	50.0	52.3	55.5	55.4	57.0	60.8	60.5	59.8	58.8	57.8	56.4	55.3	55.7	56.3	56.8	57.5	58.3	60.1	61.6	64.5	65.9	**70.5**	**71.2**	**70.9**	**71.8**	**72.2**	**72.2**	**72.1**	**71.9**	**71.9**	**72.0**	**72.0**	**72.0**	**72.0**	**71.9**	**71.8**	**70.8**
4	48.8	49.0	49.4	49.8	50.1	52.2	55.6	55.3	57.1	60.7	60.3	59.7	58.7	57.7	56.3	55.2	55.6	56.1	56.7	57.3	58.2	59.9	61.5	64.3	65.7	70.3	**71.0**	**70.6**	**71.5**	**71.9**	**71.9**	**71.8**	**71.6**	**71.6**	**71.7**	**71.7**	**71.7**	**71.6**	**71.6**	**71.4**	70.4
5	52.0	49.0	49.5	49.9	50.2	52.2	55.7	55.3	57.2	60.6	60.2	59.5	58.5	57.6	56.2	55.1	55.5	56.0	56.5	57.2	58.0	59.8	61.3	64.2	65.6	70.0	**70.7**	70.3	**71.2**	**71.6**	**71.5**	**71.4**	**71.3**	**71.3**	**71.4**	**71.3**	**71.3**	**71.3**	**71.2**	**71.1**	70.1
6	55.3	49.2	49.6	50.0	50.2	52.2	55.8	55.2	57.2	60.5	60.1	59.4	58.4	57.5	56.0	55.0	55.3	55.9	56.4	57.0	57.8	59.6	61.2	64.0	65.4	69.7	70.4	70.0	**70.9**	**71.3**	**71.2**	**71.1**	**71.0**	**71.0**	**71.1**	**71.1**	**71.0**	**71.0**	**71.0**	**70.8**	69.8
7	58.5	49.3	49.8	50.2	50.5	52.3	55.9	55.1	57.2	60.4	60.0	59.3	58.3	57.4	55.9	54.9	55.2	55.8	56.2	56.8	57.7	59.4	61.0	63.8	65.2	69.5	70.2	69.8	**70.7**	**71.0**	**71.0**	**70.9**	**70.7**	**70.7**	**70.8**	**70.8**	**70.7**	**70.7**	**70.7**	**70.5**	69.5
8	61.8	49.6	50.2	50.6	50.9	52.5	56.0	55.2	57.2	60.2	59.9	59.2	58.3	57.3	55.8	54.8	55.1	55.7	56.1	56.7	57.5	59.3	60.9	63.6	65.0	69.3	70.0	69.5	**70.5**	**70.7**	**70.7**	**70.6**	70.4	70.4	**70.5**	**70.5**	**70.5**	70.4	70.4	70.2	69.2
9	65.0	50.1	50.7	51.2	51.4	52.9	56.2	55.2	57.2	60.1	59.7	59.1	58.2	57.2	55.8	54.6	54.9	55.5	55.9	56.5	57.3	59.1	60.7	63.4	64.8	69.1	69.8	69.3	70.2	**70.5**	**70.5**	70.4	70.2	70.2	70.3	70.3	70.2	70.2	70.2	70.0	69.0
10	68.3	50.7	51.4	51.8	52.1	53.3	56.4	55.3	57.2	60.0	59.6	58.9	58.0	57.0	55.6	54.5	54.8	55.4	55.8	56.4	57.2	59.0	60.5	63.2	64.6	68.9	69.6	69.1	70.0	70.3	70.2	70.1	70.0	69.9	70.0	70.0	70.0	69.9	69.9	69.7	68.8
11	71.5	51.1	51.9	52.4	52.6	53.7	56.5	55.4	57.3	59.9	59.5	58.8	57.9	56.9	55.5	54.4	54.7	55.3	55.7	56.3	57.1	58.8	60.4	63.0	64.4	68.7	69.4	68.9	69.8	70.0	70.0	69.9	69.7	69.7	69.8	69.8	69.8	69.7	69.7	69.5	68.5
12	74.8	51.5	52.3	52.8	53.0	53.9	56.6	55.5	57.2	59.8	59.4	58.7	57.8	56.8	55.4	54.3	54.6	55.1	55.5	56.1	56.9	58.7	60.2	62.9	64.3	68.5	69.2	68.7	69.6	69.8	69.7	69.7	69.5	69.5	69.6	69.6	69.6	69.5	69.5	69.3	68.3
13	78.0	51.8	52.7	53.2	53.3	54.2	56.7	55.6	57.3	59.6	59.3	58.6	57.7	56.7	55.3	54.1	54.5	55.0	55.4	56.0	56.8	58.5	60.0	62.7	64.1	68.3	69.0	68.5	69.4	69.6	69.6	69.5	69.3	69.3	69.4	69.4	69.4	69.3	69.3	69.1	68.1
14	81.3	52.1	53.1	53.5	53.7	54.4	56.8	55.6	57.2	59.5	59.1	58.5	57.5	56.6	55.2	54.0	54.4	54.9	55.3	55.8	56.6	58.4	59.9	62.5	64.0	68.1	68.8	68.3	69.3	69.4	69.4	69.3	69.1	69.1	69.2	69.2	69.2	69.1	69.1	68.9	67.9
15	84.5	52.5	53.4	53.8	53.9	54.6	56.8	55.7	57.2	59.4	59.0	58.4	57.4	56.5	55.0	53.9	54.2	54.7	55.2	55.7	56.4	58.3	59.7	62.4	63.8	68.0	68.7	68.1	69.1	69.3	69.2	69.1	69.0	69.0	69.0	69.0	69.0	69.0	68.9	68.7	67.7
16	87.8	52.8	53.6	54.0	54.1	54.7	56.9	55.7	57.2	59.3	58.9	58.3	57.3	56.4	54.9	53.8	54.1	54.6	55.1	55.5	56.3	58.1	59.6	62.3	63.7	67.8	68.5	68.0	69.0	69.1	69.0	68.9	68.8	68.8	68.8	68.9	68.8	68.8	68.7	68.5	67.5
17	91.0	53.0	53.9	54.2	54.3	54.8	56.9	55.7	57.2	59.2	58.8	58.2	57.2	56.3	54.8	53.7	54.0	54.5	54.9	55.4	56.2	58.0	59.5	62.1	63.5	67.7	68.3	67.9	68.8	68.9	68.9	68.8	68.6	68.6	68.7	68.7	68.7	68.6	68.5	68.4	67.4
18	94.3	53.2	54.0	54.3	54.4	54.9	56.9	55.6	57.1	59.1	58.7	58.1	57.1	56.2	54.7	53.5	53.9	54.4	54.8	55.3	56.0	57.9	59.4	62.0	63.4	67.5	68.2	67.7	68.6	68.8	68.7	68.6	68.5	68.5	68.5	68.5	68.5	68.4	68.4	68.2	67.2
19	97.5	53.3	54.1	54.4	54.3	54.9	56.9	55.6	57.0	58.9	58.6	57.9	57.1	56.1	54.6	53.4	53.8	54.3	54.7	55.2	55.9	57.8	59.3	61.9	63.3	67.4	68.0	67.5	68.5	68.6	68.6	68.5	68.3	68.3	68.4	68.3	68.3	68.3	68.2	68.0	67.0
20	100.8																																								
21	104.0	53.4	54.1	54.4	54.4	54.9	56.8	55.5	56.9	58.7	58.4	57.7	56.8	55.8	54.4	53.2	53.5	54.0	54.4	54.9	55.7	57.5	59.0	61.6	63.0	67.1	67.8	67.3	68.2	68.4	68.3	68.2	68.0	68.0	68.1	68.1	68.0	68.0	67.9	67.8	66.7
22	107.3	53.4	54.1	54.4	54.4	54.8	56.7	55.4	56.8	58.6	58.3	57.6	56.7	55.7	54.3	53.1	53.4	53.9	54.3	54.8	55.6	57.4	58.9	61.5	62.9	67.0	67.6	67.2	68.1	68.2	68.1	68.0	67.9	67.9	67.9	67.9	67.9	67.9	67.8	67.6	66.6
23	110.5	53.3	54.1	54.4	54.3	54.8	56.6	55.3	56.7	58.5	58.2	57.5	56.6	55.7	54.2	53.0	53.3	53.8	54.2	54.7	55.4	57.3	58.8	61.4	62.8	66.9	67.5	67.0	67.9	68.1	68.0	67.9	67.8	67.8	67.8	67.8	67.8	67.7	67.6	67.4	66.5
24	113.8	53.4	54.1	54.4	54.3	54.8	56.6	55.2	56.6	58.4	58.0	57.4	56.5	55.6	54.1	52.9	53.2	53.7	54.1	54.6	55.3	57.2	58.7	61.2	62.7	66.7	67.4	66.9	67.9	67.9	67.9	67.8	67.8	67.6	67.6	67.7	67.7	67.6	67.5	67.4	66.3
25	117.0	53.3	54.0	54.3	54.3	54.7	56.5	55.2	56.6	58.3	57.9	57.3	56.4	55.5	54.0	52.8	53.1	53.6	54.0	54.5	55.2	57.1	58.6	61.1	62.6	66.6	67.3	66.8	67.7	67.8	67.8	67.7	67.5	67.5	67.6	67.5	67.5	67.4	67.4	67.2	66.2
26	120.3	53.3	54.0	54.3	54.2	54.6	56.5	55.1	56.5	58.2	57.9	57.2	56.3	55.4	53.9	52.7	53.0	53.5	53.9	54.4	55.1	56.9	58.5	61.0	62.4	66.5	67.2	66.7	67.6	67.7	67.6	67.6	67.4	67.4	67.5	67.4	67.4	67.3	67.3	67.1	66.0
27	123.5	53.3	54.0	54.2	54.2	54.6	56.4	55.0	56.4	58.1	57.8	57.1	56.2	55.3	53.8	52.6	52.9	53.4	53.7	54.3	55.0	56.8	58.4	60.9	62.3	66.4	67.1	66.6	67.5	67.6	67.5	67.4	67.2	67.2	67.3	67.3	67.3	67.3	67.2	67.0	65.9
28	126.8	53.2	53.9	54.2	54.1	54.5	56.3	54.9	56.4	58.0	57.7	57.0	56.1	55.2	53.7	52.5	52.8	53.3	53.6	54.2	54.9	56.7	58.3	60.8	62.2	66.3	66.9	66.4	67.4	67.5	67.4	67.3	67.2	67.1	67.2	67.2	67.2	67.1	67.1	66.9	65.8
29	130.0	53.2	53.9	54.1	54.1	54.5	56.3	54.9	56.3	57.9	57.6	56.9	56.1	55.1	53.6	52.4	52.7	53.2	53.5	54.1	54.8	56.6	58.1	60.7	62.1	66.2	66.8	66.3	67.3	67.4	67.3	67.2	67.1	67.0	67.1	67.1	67.1	67.0	66.9	66.8	65.7
30	133.3	53.1	53.9	54.1	54.1	54.4	56.2	54.8	56.2	57.8	57.5	56.8	56.0	55.0	53.5	52.3	52.7	53.1	53.4	54.0	54.7	56.5	58.0	60.6	62.0	66.1	66.7	66.2	67.2	67.2	67.2	67.1	66.9	67.0	67.0	67.0	67.0	66.9	66.9	66.7	65.6
31	136.5	53.1	53.8	54.1	54.0	54.4	56.2	54.8	56.2	57.8	57.4	56.8	55.9	54.9	53.4	52.3	52.6	53.0	53.3	53.9	54.6	56.4	58.0	60.5	61.9	66.0	66.6	66.1	67.1	67.1	67.1	67.0	66.8	66.8	66.9	66.9	66.9	66.8	66.8	66.6	65.5
32	139.8	53.1	53.8	54.0	54.0	54.4	56.1	54.8	56.1	57.7	57.3	56.7	55.8	54.8	53.4	52.3	52.6	53.0	53.4	53.9	54.6	56.4	57.9	60.4	61.9	65.9	66.6	66.1	67.0	67.0	67.0	66.9	66.7	66.7	66.8	66.8	66.8	66.7	66.7	66.5	65.4
33	143.0																																							
34	146.3																																							
35	149.5																																							
36	152.8																																							
37	156.0																																							
38	159.3																																							
39	162.5																																							
40	165.8																																							
41	169.0																																							
42	172.3																																							
43	175.5																																							
max		53.4	54.1	54.4	54.4	54.9	56.9	55.7	57.3	61.1	60.7	60.0	58.9	58.0	56.6	55.5	55.9	56.5	57.1	57.8	58.6	60.4	61.9	64.9	66.3	**71.0**	**71.8**	**71.5**	**72.4**	**73.1**	**73.0**	**72.9**	**72.8**	**72.7**	**72.9**	**72.8**	**72.8**	**72.8**	**72.7**	**72.6**	**71.6**
Number of																																								
Noise level in dB(A)																																								
<70		0	31	0	31	0	31	0	31	31	0	0	31	0	0	0	0	31	0	0	31	0	0	31	0	0	26	0	0	22	22	0	0	0	23	0	23	0	0	24	0
71		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	4	4	0	0	0	4	0	4	0	0	4	0
72		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	3	3	0	0	0	3	0	3	0	0	2	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	1	0	1	0	0	1	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Floor	Height of Noise Assessment Point (mPD)	T2A																							
		501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524
1	39.0	73.6	73.6	73.7	73.7	73.8	73.9	74.0	74.0	74.1	74.2	74.2	74.4	74.4	74.5	74.6	65.2	61.6	46.8	47.1	47.6	48.0	48.3	49.1	48.5
2	42.3	73.1	73.2	73.2	73.2	73.3	73.4	73.5	73.5	73.6	73.7	73.8	73.8	74.0	74.0	74.1	64.9	61.5	47.4	47.6	48.1	48.4	48.7	49.3	48.4
3	45.5	72.6	72.8	72.8	72.8	72.9	72.9	73.1	73.0	73.2	73.2	73.3	73.4	73.5	73.5	73.6	64.5	61.2	48.1	48.4	48.9	49.1	49.4	49.7	48.4
4	48.8	72.3	72.4	72.4	72.4	72.5	72.6	72.6	72.6	72.7	72.8	72.8	72.9	73.0	73.1	73.2	64.1	61.1	49.1	49.2	49.4	49.5	49.7	50.1	48.4
5	52.0	71.9	72.0	72.0	72.1	72.1	72.2	72.3	72.3	72.4	72.4	72.5	72.5	72.6	72.7	72.8	63.8	60.8	49.8	50.0	50.3	50.3	50.6	50.6	48.4
6	55.3	71.6	71.7	71.7	71.7	71.8	71.9	72.0	71.9	72.0	72.1	72.1	72.2	72.3	72.3	72.4	63.5	60.7	51.0	51.1	51.4	51.1	51.2	51.0	48.3
7	58.5	71.3	71.4	71.4	71.4	71.5	71.5	71.6	71.6	71.7	71.7	71.8	71.9	71.9	72.0	72.0	63.2	60.6	51.6	51.7	51.9	51.6	51.6	51.4	48.4
8	61.8	71.0	71.1	71.1	71.2	71.2	71.3	71.3	71.3	71.3	71.4	71.5	71.5	71.6	71.7	71.7	62.9	60.5	52.2	52.2	52.4	52.1	52.1	51.6	48.4
9	65.0	70.8	70.8	70.8	70.9	70.9	71.0	71.1	71.0	71.1	71.1	71.2	71.2	71.3	71.4	71.4	62.6	60.3	52.7	52.6	52.8	52.4	52.4	51.8	48.5
10	68.3	70.5	70.6	70.6	70.6	70.6	70.7	70.8	70.7	70.8	70.9	70.9	70.9	71.0	71.1	71.1	62.3	60.2	53.0	52.9	53.0	52.7	52.6	51.9	48.6
11	71.5	70.3	70.4	70.3	70.4	70.4	70.5	70.5	70.5	70.6	70.6	70.6	70.7	70.8	70.8	70.9	62.1	60.1	53.1	53.0	53.2	52.9	52.8	52.1	48.7
12	74.8	70.0	70.1	70.1	70.1	70.2	70.2	70.3	70.3	70.3	70.4	70.4	70.5	70.5	70.6	70.6	61.9	60.0	53.4	53.2	53.3	53.0	52.9	52.2	49.0
13	78.0	69.8	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.2	70.3	70.3	70.4	61.7	59.9	53.4	53.3	53.4	53.1	53.0	52.4	49.4
14	81.3	69.6	69.7	69.7	69.7	69.8	69.8	69.9	69.8	69.9	69.9	70.0	70.0	70.1	70.1	70.2	61.4	59.7	53.4	53.2	53.4	53.3	53.2	52.7	49.8
15	84.5	69.5	69.5	69.5	69.5	69.6	69.6	69.7	69.6	69.6	69.7	69.8	69.8	69.8	69.9	70.0	61.2	59.6	53.4	53.3	53.6	53.3	53.3	52.9	50.3
16	87.8	69.3	69.3	69.3	69.3	69.4	69.4	69.5	69.4	69.5	69.5	69.6	69.6	69.7	69.7	69.8	61.0	59.4	53.4	53.2	53.6	53.4	53.4	53.1	50.7
17	91.0	69.1	69.2	69.1	69.1	69.2	69.2	69.3	69.2	69.3	69.4	69.4	69.4	69.5	69.5	69.6	60.9	59.4	53.4	53.3	53.6	53.4	53.4	53.2	51.0
18	94.3	68.9	69.0	68.9	69.0	69.0	69.1	69.1	69.1	69.1	69.2	69.2	69.3	69.3	69.4	69.4	60.7	59.2	53.4	53.2	53.6	53.4	53.4	53.3	51.2
19	97.5	68.7	68.8	68.8	68.9	68.9	68.9	68.9	68.9	69.0	69.0	69.0	69.1	69.1	69.2	69.2	60.5	59.1	53.3	53.1	53.5	53.4	53.5	53.3	51.4
20	100.8																								
21	104.0	68.5	68.5	68.5	68.5	68.6	68.6	68.7	68.6	68.6	68.6	68.8	68.8	68.8	68.9	68.9	60.2	58.9	53.2	53.1	53.5	53.4	53.4	53.3	51.5
22	107.3	68.3	68.4	68.4	68.4	68.4	68.4	68.5	68.4	68.5	68.5	68.6	68.6	68.7	68.7	68.8	60.1	58.8	53.2	53.0	53.4	53.3	53.3	53.3	51.5
23	110.5	68.2	68.3	68.2	68.2	68.2	68.3	68.4	68.3	68.4	68.4	68.4	68.5	68.6	68.6	68.6	59.9	58.7	53.1	53.0	53.4	53.2	53.3	53.3	51.5
24	113.8	68.0	68.2	68.1	68.1	68.1	68.2	68.2	68.2	68.3	68.3	68.3	68.4	68.4	68.4	68.5	59.8	58.6	53.1	52.9	53.4	53.2	53.2	53.2	51.5
25	117.0	67.9	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.3	68.3	68.3	68.3	59.7	58.6	53.0	52.9	53.3	53.1	53.2	53.2	51.4
26	120.3	67.8	67.9	67.9	67.9	67.9	67.9	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.2	59.6	58.5	53.0	52.8	53.2	53.1	53.1	53.1	51.4
27	123.5	67.7	67.7	67.8	67.8	67.8	67.8	67.9	67.8	67.8	67.9	68.0	68.0	68.0	68.1	68.1	59.5	58.4	52.9	52.8	53.2	53.0	53.1	53.1	51.4
28	126.8	67.6	67.7	67.6	67.6	67.7	67.7	67.8	67.7	67.8	67.8	67.8	67.8	67.9	68.0	67.9	59.4	58.4	52.9	52.7	53.1	53.0	53.0	53.0	51.3
29	130.0	67.5	67.6	67.5	67.5	67.5	67.6	67.7	67.6	67.7	67.7	67.7	67.7	67.8	67.8	67.9	59.3	58.3	52.8	52.7	53.1	52.9	53.0	53.0	51.3
30	133.3	67.4	67.5	67.4	67.5	67.5	67.5	67.5	67.5	67.6	67.6	67.6	67.6	67.7	67.7	67.7	59.2	58.3	52.8	52.6	53.0	52.9	53.0	52.9	51.3
31	136.5	67.3	67.3	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.5	67.5	67.6	67.6	67.6	59.1	58.2	52.7	52.5	53.0	52.8	52.9	52.9	51.2
32	139.8	67.2	67.2	67.2	67.3	67.3	67.3	67.4	67.3	67.3	67.3	67.3	67.4	67.5	67.5	67.5	59.1	58.1	52.7	52.5	52.9	52.8	52.9	52.8	51.2
33	143.0	67.1	67.1	67.1	67.1	67.2	67.2	67.3	67.2	67.2	67.2	67.3	67.3	67.3	67.4	67.4	59.0	58.1	52.6	52.4	52.9	52.7	52.8	52.8	51.2
34	146.3	67.0	67.1	67.0	67.0	67.0	67.1	67.2	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.3	58.9	58.0	52.6	52.4	52.8	52.7	52.8	52.8	51.3
35	149.5	66.9	67.0	66.9	67.0	67.0	67.0	67.1	67.0	67.1	67.1	67.1	67.1	67.1	67.2	67.2	58.8	58.0	52.5	52.4	52.8	52.7	52.7	52.8	51.3
36	152.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.1	67.1	58.7	57.9	52.5	52.3	52.7	52.6	52.7	52.7	51.5
37	156.0	66.8	66.8	66.8	66.8	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	67.0	67.0	67.0	58.6	57.9	52.5	52.3	52.7	52.6	52.7	52.7	51.7
38	159.3	66.7	66.8	66.7	66.7	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.9	66.9	66.9	58.6	57.8	52.5	52.3	52.7	52.6	52.7	52.8	52.0
39	162.5	66.6	66.7	66.6	66.6	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.8	66.8	66.8	66.8	58.5	57.8	52.6	52.3	52.8	52.6	52.7	52.9	52.5
40	165.8	66.6	66.6	66.5	66.5	66.5	66.6	66.6	66.6	66.6	66.6	66.6	66.7	66.7	66.7	66.7	58.4	57.8	52.7	52.5	52.8	52.6	52.6	52.9	52.9
41	169.0	66.5	66.6	66.5	66.5	66.5	66.5	66.6	66.5	66.5	66.5	66.6	66.6	66.6	66.6	66.6	58.3	57.8	52.8	52.5	52.9	52.7	52.7	53.1	53.4
42	172.3	66.4	66.5	66.4	66.4	66.4	66.5	66.5	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	58.3	57.7	52.9	52.6	52.9	52.7	52.8	53.4	54.1
43	175.5	66.4	66.4	66.3	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	58.3	57.7	53.0	52.8	53.1	53.0	53.1	53.9	54.8
max		73.6	73.6	73.7	73.7	73.8	73.9	74.0	74.0	74.1	74.2	74.2	74.4	74.4	74.5	74.6	65.2	61.6	53.4	53.3	53.6	53.4	53.5	53.9	54.8
Number of I																									
Noise level in dB(A)																									
<70		0	0	32	0	32	0	0	31	0	31	0	30	0	0	30	0	42	0	0	42	0	0	42	0
71		0	0	4	0	3	0	0	4	0	4	0	4	0	0	4	0	0	0	0	0	0	0	0	0
72		0	0	3	0	3	0	0	3	0	3	0	3	0	0	3	0	0	0	0	0	0	0	0	0
73		0	0	2	0	3	0	0	2	0	2	0	3	0	0	2	0	0	0	0	0	0	0	0	0
74		0	0	1	0	1	0	0	2	0	2	0	2	0	0	2	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Height of Noise Assessment																														
															T3																
Floor	Point (mPD)	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630
1	39.0	72.2	71.4	70.8	70.3	69.8	69.5	69.2	68.7	68.5	68.3	68.1	67.9	67.7	67.5	67.4	67.3	67.2	67.2	67.1	67.1	67.1	67.1	67.0	67.1	67.1	67.3	67.9	65.2	63.7	63.6
2	42.3	71.9	71.1	70.5	70.1	69.6	69.3	69.0	68.6	68.4	68.2	68.0	67.8	67.6	67.5	67.4	67.2	67.1	67.1	67.0	67.0	67.0	66.9	66.9	66.9	67.0	67.2	67.8	65.1	63.6	63.5
3	45.5	71.5	70.7	70.3	69.8	69.4	69.1	68.9	68.4	68.3	68.1	67.8	67.7	67.5	67.4	67.3	67.1	67.0	67.0	66.9	66.9	66.9	66.9	66.8	66.8	66.8	66.9	67.0	67.6	65.0	63.5	63.5
4	48.8	71.1	70.4	69.9	69.6	69.2	68.9	68.7	68.3	68.1	67.9	67.7	67.5	67.4	67.3	67.2	67.0	66.9	66.9	66.8	66.8	66.8	66.8	66.7	66.8	66.8	66.9	67.5	64.9	63.5	63.4
5	52.0	70.8	70.1	69.7	69.3	69.0	68.7	68.5	68.1	68.0	67.8	67.6	67.4	67.2	67.2	67.1	66.9	66.8	66.9	66.8	66.7	66.7	66.7	66.7	66.7	66.8	66.9	67.5	64.9	63.5	63.4
6	55.3	70.4	69.8	69.4	69.1	68.7	68.5	68.3	68.0	67.8	67.6	67.5	67.3	67.1	67.1	67.0	66.8	66.8	66.8	66.7	66.7	66.7	66.6	66.6	66.6	66.7	66.8	67.4	64.9	63.5	63.5
7	58.5	70.1	69.5	69.1	68.8	68.5	68.3	68.1	67.8	67.7	67.5	67.3	67.2	67.0	67.0	66.9	66.8	66.7	66.7	66.6	66.6	66.6	66.5	66.5	66.6	66.6	66.7	67.4	64.9	63.6	63.5
8	61.8	69.8	69.2	68.9	68.5	68.3	68.1	67.9	67.7	67.5	67.4	67.2	67.1	66.9	66.8	66.8	66.7	66.6	66.6	66.5	66.5	66.5	66.5	66.5	66.5	66.6	66.7	67.3	65.0	63.7	63.6
9	65.0	69.5	68.9	68.6	68.3	68.1	67.9	67.7	67.5	67.4	67.2	67.1	67.0	66.8	66.8	66.7	66.6	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.6	66.7	67.3	65.0	63.8	63.7
10	68.3	69.3	68.7	68.4	68.1	67.9	67.7	67.6	67.3	67.2	67.1	66.9	66.8	66.7	66.7	66.6	66.5	66.5	66.5	66.4	66.4	66.5	66.4	66.4	66.5	66.5	66.7	67.3	65.1	63.9	63.8
11	71.5	69.0	68.5	68.1	67.9	67.7	67.5	67.4	67.2	67.1	67.0	66.8	66.7	66.6	66.6	66.6	66.5	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.5	66.6	67.2	65.0	63.9	63.8
12	74.8	68.8	68.2	67.9	67.7	67.5	67.4	67.2	67.0	67.0	66.9	66.8	66.7	66.6	66.5	66.5	66.4	66.4	66.4	66.4	66.4	66.4	66.3	66.3	66.4	66.4	66.5	67.1	64.9	63.8	63.7
13	78.0	68.6	68.0	67.7	67.5	67.3	67.2	67.1	66.9	66.9	66.8	66.7	66.6	66.5	66.5	66.4	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.4	66.4	67.0	64.9	63.7	63.7
14	81.3	68.4	67.8	67.6	67.4	67.2	67.0	67.0	66.8	66.8	66.7	66.6	66.5	66.4	66.4	66.3	66.3	66.2	66.3	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.4	66.9	64.8	63.6	63.6
15	84.5	68.2	67.7	67.4	67.2	67.0	66.9	66.9	66.7	66.7	66.6	66.5	66.4	66.3	66.3	66.3	66.2	66.2	66.2	66.1	66.1	66.1	66.1	66.1	66.1	66.2	66.2	66.8	64.7	63.6	63.5
16	87.8	68.0	67.5	67.2	67.1	66.9	66.8	66.7	66.6	66.6	66.5	66.4	66.3	66.2	66.2	66.2	66.1	66.1	66.1	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.2	66.7	64.6	63.5	63.4
17	91.0	67.9	67.4	67.1	66.9	66.8	66.7	66.6	66.5	66.4	66.4	66.3	66.2	66.1	66.1	66.1	66.0	66.0	66.0	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.0	66.6	64.5	63.4	63.3
18	94.3	67.7	67.2	67.0	66.8	66.6	66.5	66.5	66.3	66.3	66.3	66.1	66.1	66.0	66.0	66.0	65.9	65.8	65.9	65.8	65.8	65.8	65.8	65.8	65.8	65.9	66.0	66.5	64.4	63.3	63.2
19	97.5	67.5	67.1	66.8	66.7	66.5	66.4	66.4	66.2	66.2	66.1	66.0	66.0	65.9	65.9	65.9	65.8	65.8	65.8	65.8	65.7	65.7	65.7	65.7	65.7	65.8	65.9	66.5	64.3	63.2	63.1
20	100.8																														
21	104.0	67.3	66.8	66.6	66.4	66.2	66.2	66.1	66.0	66.0	65.9	65.8	65.8	65.7	65.7	65.7	65.6	65.6	65.6	65.5	65.6	65.5	65.5	65.6	65.6	65.6	65.7	66.3	64.1	63.1	62.9
22	107.3	67.2	66.7	66.4	66.3	66.1	66.0	66.0	65.9	65.9	65.8	65.7	65.7	65.6	65.6	65.6	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.6	66.2	64.1	63.0	62.9
23	110.5	67.0	66.6	66.3	66.2	66.0	65.9	65.9	65.8	65.7	65.7	65.6	65.6	65.5	65.5	65.5	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.6	66.1	64.0	62.9	62.8
24	113.8	66.9	66.4	66.2	66.1	65.9	65.8	65.8	65.6	65.7	65.6	65.5	65.5	65.4	65.4	65.4	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.4	65.5	66.1	63.9	62.9	62.7
25	117.0	66.8	66.3	66.1	65.9	65.8	65.7	65.7	65.6	65.5	65.5	65.4	65.4	65.3	65.3	65.3	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.3	65.4	66.0	63.9	62.8	62.7
26	120.3	66.7	66.2	66.0	65.8	65.7	65.6	65.6	65.5	65.4	65.4	65.3	65.3	65.2	65.2	65.2	65.2	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.2	65.2	65.3	65.9	63.8	62.7	62.6
27	123.5	66.5	66.1	65.9	65.7	65.6	65.5	65.5	65.4	65.3	65.3	65.2	65.2	65.1	65.1	65.1	65.1	65.0	65.1	65.0	65.1	65.1	65.1	65.1	65.1	65.2	65.3	65.9	63.7	62.7	62.6
28	126.8	66.4	66.0	65.8	65.6	65.5	65.4	65.4	65.3	65.3	65.2	65.1	65.1	65.0	65.0	65.0	65.0	65.0	65.0	64.9	65.0	65.0	65.0	65.0	65.0	65.1	65.2	65.8	63.7	62.7	62.6
29	130.0	66.3	65.9	65.6	65.5	65.4	65.3	65.3	65.2	65.2	65.1	65.0	65.0	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.0	65.0	65.2	65.8	63.7	62.7	62.6
30	133.3	66.2	65.8	65.6	65.4	65.3	65.2	65.2	65.1	65.1	65.0	64.9	64.9	64.9	64.9	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9	64.9	64.9	65.0	65.1	65.7	63.6	62.7	62.5
31	136.5	66.1	65.7	65.5	65.3	65.2	65.1	65.1	65.0	65.0	64.9	64.8	64.8	64.8	64.8	64.8	64.7	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.9	65.1	65.7	63.6	62.6	62.5
32	139.8	66.0	65.6	65.4	65.2	65.1	65.0	65.0	64.9	64.9	64.8	64.8	64.7	64.7	64.7	64.7	64.7	64.6	64.7	64.7	64.7	64.7	64.8	64.8	64.8	65.0	65.6	63.6	62.6	62.5	
33	143.0	65.9	65.5	65.3	65.1	65.0	64.9	64.9	64.8	64.8	64.8	64.7	64.7	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.8	65.0	65.6	63.5	62.6	62.5
34	146.3	65.8	65.4	65.2	65.0	64.9	64.8	64.8	64.7	64.7	64.7	64.6	64.6	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.6	64.6	64.6	64.6	64.7	64.8	64.9	65.5	63.5	62.6	62.4
35	149.5	65.7	65.3	65.1	65.0	64.8	64.8	64.7	64.6	64.6	64.6	64.5	64.5	64.4	64.4	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.6	64.6	64.7	64.9	65.5	63.5	62.5	62.4
36	152.8	65.6	65.2	65.0	64.9	64.7	64.7	64.6	64.5	64.5	64.5	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.6	64.7	64.9	65.4	63.5	62.5	62.4
37	156.0	65.5	65.1	64.9	64.8	64.7	64.6	64.5	64.5	64.5	64.4	64.4	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.4	64.4	64.4	64.5	64.5	64.6	64.8	65.4	63.4	62.5	62.4
38	159.3	65.5	65.0	64.8	64.7	64.6	64.5	64.5	64.4	64.4	64.4	64.3	64.3	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.3	64.4	64.4	64.4	64.5	64.6	64.7	65.3	63.4	62.5	62.4
39	162.5	65.4	65.0	64.8	64.6	64.5	64.4	64.4	64.3	64.3	64.3	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.3	64.4	64.4	64.5	64.7	65.3	63.4	62.5	62.4
40	165.8	65.3	64.9	64.7	64.6	64.4	64.4	64.3	64.2	64.2	64.2	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.2	64.2	64.3	64.3	64.4	64.5	64.7	65.3	63.4	62.5	62.4	
41	169.0	65.2	64.8	64.6	64.5	64.4	64.3	64.3	64.2	64.2	64.1	64.1	64.1	64.0	64.0	64.1	64.0	64.0	64.1	64.1	64.2	64.2	64.2	64.3	64.3	64.4	64.6	65.2	63.4	62.5	62.3
42	172.3	65.2	64.7	64.5	64.4	64.3	64.2	64.2	64.1	64.1	64.1	64.0	64.0	63.9	64.0	64.0	64.0	64.0	64.0	64.1	64.1	64.2	64.2	64.2	64.3	64.4	64.6	65.2	63.3	62.4	62.3
43	175.5	65.1	64.7	64.5	64.3	64.2	64.2	64.1	64.0	64.0	64.0	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.1	64.1	64.1	64.2	64.3	64.4	64.6	65.2	63.3	62.4	62.3
max		72.2	71.4	70.8	70.3	69.8	69.5	69.2	68.7	68.5	68.3	68.1	67.9	67.7	67.5	67.4	67.3	67.2	67.2	67.1	67.1	67.1	67.1	67.0	67.1	67.1	67.3	67.9	65.2	63.9	63.8
Number of																															
Noise level in dB(A)																															
<70		37	0	0	0	42	0	0	42	0	0	42	0	0	42	0	42	0	42	0	42	0	42	0	0	42	0	0	0	42	0
71		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Height of Noise Assessment																								
		T3																							
Floor	Point (mPD)	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654
1	39.0	62.9	62.7	61.6	60.6	60.3	60.3	60.5	60.8	61.2	61.4	61.4	61.6	60.9	61.4	61.5	61.8	62.4	62.9	63.4	64.0	65.1	66.7	68.1	69.1
2	42.3	62.8	62.6	61.6	60.6	60.3	60.4	60.5	60.8	61.2	61.4	61.3	61.6	60.8	61.3	61.5	61.8	62.3	62.8	63.2	63.8	65.0	66.5	67.9	68.9
3	45.5	62.7	62.4	61.5	60.5	60.3	60.3	60.5	60.8	61.2	61.4	61.3	61.6	60.7	61.3	61.5	61.7	62.3	62.7	63.2	63.7	64.8	66.3	67.6	68.6
4	48.8	62.6	62.4	61.5	60.5	60.2	60.3	60.5	60.9	61.2	61.4	61.3	61.6	60.6	61.2	61.4	61.7	62.2	62.6	63.0	63.6	64.7	66.1	67.4	68.4
5	52.0	62.7	62.4	61.6	60.4	60.2	60.3	60.6	60.9	61.3	61.5	61.3	61.6	60.5	61.2	61.4	61.7	62.1	62.5	63.0	63.4	64.5	65.9	67.1	68.1
6	55.3	62.7	62.5	61.7	60.4	60.2	60.3	60.6	60.9	61.4	61.5	61.4	61.6	60.5	61.3	61.4	61.7	62.1	62.5	62.9	63.3	64.3	65.7	67.0	67.8
7	58.5	62.8	62.6	61.8	60.4	60.2	60.3	60.6	60.9	61.4	61.5	61.4	61.7	60.4	61.2	61.4	61.6	62.0	62.4	62.8	63.3	64.2	65.5	66.7	67.6
8	61.8	63.0	62.8	62.0	60.3	60.1	60.3	60.6	60.9	61.4	61.5	61.4	61.7	60.3	61.2	61.4	61.6	62.0	62.3	62.7	63.2	64.1	65.4	66.5	67.4
9	65.0	63.1	62.9	62.2	60.4	60.1	60.3	60.5	60.9	61.3	61.5	61.4	61.6	60.2	61.2	61.4	61.6	61.9	62.3	62.6	63.0	63.9	65.2	66.3	67.2
10	68.3	63.2	63.0	62.4	60.4	60.0	60.2	60.5	60.9	61.3	61.5	61.3	61.6	60.1	61.2	61.3	61.6	61.9	62.2	62.5	62.9	63.8	65.0	66.1	66.9
11	71.5	63.2	63.0	62.5	60.3	60.0	60.2	60.4	60.8	61.2	61.4	61.3	61.5	60.0	61.1	61.2	61.5	61.8	62.1	62.4	62.8	63.6	64.8	65.9	66.7
12	74.8	63.2	63.0	62.5	60.3	59.9	60.1	60.4	60.7	61.2	61.4	61.2	61.5	59.9	61.0	61.2	61.4	61.7	62.0	62.3	62.7	63.5	64.7	65.8	66.6
13	78.0	63.1	62.9	62.5	60.2	59.8	60.1	60.3	60.7	61.1	61.3	61.1	61.4	59.7	60.9	61.1	61.3	61.6	61.9	62.2	62.6	63.4	64.5	65.6	66.4
14	81.3	63.0	62.8	62.4	60.2	59.8	60.0	60.2	60.6	61.0	61.2	61.1	61.3	59.7	60.8	61.0	61.2	61.5	61.8	62.1	62.4	63.2	64.3	65.4	66.2
15	84.5	62.9	62.7	62.4	60.1	59.7	59.9	60.2	60.5	60.9	61.1	61.0	61.2	59.5	60.8	60.9	61.1	61.4	61.7	62.0	62.3	63.1	64.2	65.2	66.0
16	87.8	62.8	62.7	62.3	60.0	59.6	59.8	60.1	60.4	60.9	61.0	60.9	61.1	59.4	60.7	60.8	61.0	61.3	61.6	61.9	62.2	62.9	64.1	65.0	65.8
17	91.0	62.7	62.5	62.2	60.0	59.5	59.8	60.0	60.4	60.8	60.9	60.8	61.0	59.3	60.6	60.7	61.0	61.2	61.5	61.7	62.1	62.8	63.9	64.9	65.7
18	94.3	62.6	62.5	62.2	59.9	59.5	59.7	59.9	60.3	60.7	60.9	60.7	60.9	59.2	60.5	60.7	60.8	61.1	61.3	61.6	62.0	62.7	63.7	64.7	65.5
19	97.5	62.5	62.4	62.1	59.8	59.4	59.6	59.9	60.2	60.6	60.8	60.6	60.8	59.1	60.4	60.5	60.7	61.0	61.3	61.5	61.8	62.5	63.6	64.6	65.4
20	100.8																								
21	104.0	62.4	62.2	62.0	59.7	59.2	59.5	59.7	60.1	60.5	60.6	60.5	60.7	58.9	60.2	60.4	60.5	60.8	61.0	61.3	61.6	62.3	63.3	64.3	65.0
22	107.3	62.3	62.1	61.9	59.6	59.2	59.4	59.6	60.0	60.4	60.5	60.4	60.6	58.8	60.1	60.3	60.4	60.7	60.9	61.1	61.5	62.1	63.2	64.2	64.9
23	110.5	62.2	62.1	61.8	59.6	59.1	59.3	59.6	59.9	60.3	60.4	60.3	60.5	58.7	60.0	60.2	60.3	60.6	60.8	61.0	61.4	62.0	63.1	64.1	64.8
24	113.8	62.1	62.0	61.8	59.5	59.0	59.3	59.5	59.8	60.2	60.3	60.2	60.4	58.6	59.9	60.1	60.2	60.5	60.7	60.9	61.3	61.9	63.0	63.9	64.7
25	117.0	62.1	61.9	61.7	59.4	59.0	59.2	59.4	59.8	60.1	60.3	60.1	60.3	58.5	59.8	60.0	60.2	60.4	60.6	60.8	61.2	61.8	62.8	63.8	64.5
26	120.3	62.0	61.8	61.7	59.4	58.9	59.2	59.4	59.7	60.1	60.2	60.0	60.2	58.4	59.8	59.9	60.1	60.3	60.5	60.7	61.0	61.7	62.7	63.7	64.4
27	123.5	62.0	61.8	61.6	59.3	58.9	59.1	59.3	59.6	60.0	60.1	60.0	60.1	58.3	59.7	59.8	59.9	60.2	60.4	60.6	60.9	61.6	62.6	63.5	64.3
28	126.8	61.9	61.7	61.6	59.3	58.8	59.0	59.3	59.6	59.9	60.0	59.8	60.1	58.2	59.6	59.7	59.9	60.1	60.3	60.5	60.9	61.5	62.5	63.4	64.1
29	130.0	61.9	61.7	61.5	59.2	58.8	59.0	59.2	59.5	59.9	59.9	59.8	60.0	58.1	59.5	59.6	59.8	60.0	60.2	60.4	60.8	61.4	62.4	63.3	64.0
30	133.3	61.9	61.6	61.5	59.2	58.8	58.9	59.2	59.4	59.8	59.9	59.7	59.9	58.0	59.4	59.6	59.7	59.9	60.1	60.3	60.7	61.3	62.3	63.3	63.9
31	136.5	61.8	61.6	61.4	59.2	58.7	58.9	59.1	59.4	59.7	59.8	59.6	59.8	57.9	59.3	59.5	59.6	59.9	60.1	60.2	60.6	61.2	62.2	63.1	63.8
32	139.8	61.8	61.5	61.4	59.1	58.7	58.9	59.0	59.3	59.6	59.7	59.6	59.7	57.9	59.2	59.4	59.5	59.8	60.0	60.2	60.4	61.1	62.1	63.0	63.7
33	143.0	61.7	61.5	61.3	59.1	58.6	58.8	59.0	59.2	59.6	59.6	59.5	59.7	57.8	59.2	59.3	59.4	59.7	59.9	60.1	60.4	61.0	62.0	62.9	63.6
34	146.3	61.7	61.4	61.3	59.0	58.6	58.7	58.9	59.2	59.5	59.6	59.4	59.6	57.7	59.1	59.2	59.4	59.6	59.8	60.0	60.3	60.9	61.9	62.8	63.5
35	149.5	61.7	61.4	61.3	59.0	58.5	58.7	58.9	59.1	59.4	59.5	59.3	59.5	57.6	59.0	59.1	59.3	59.5	59.7	59.9	60.2	60.8	61.8	62.7	63.4
36	152.8	61.7	61.4	61.2	59.0	58.5	58.6	58.8	59.1	59.3	59.4	59.3	59.4	57.6	59.0	59.1	59.2	59.4	59.7	59.8	60.1	60.8	61.7	62.6	63.3
37	156.0	61.6	61.3	61.2	58.9	58.4	58.6	58.8	59.0	59.3	59.4	59.2	59.3	57.5	58.9	59.0	59.1	59.4	59.6	59.7	60.0	60.7	61.7	62.5	63.2
38	159.3	61.6	61.3	61.1	58.9	58.4	58.5	58.7	58.9	59.2	59.3	59.1	59.3	57.4	58.8	58.9	59.1	59.3	59.5	59.7	59.9	60.6	61.6	62.5	63.1
39	162.5	61.6	61.3	61.1	58.8	58.3	58.5	58.7	58.9	59.2	59.2	59.0	59.2	57.3	58.7	58.9	59.0	59.2	59.4	59.6	59.9	60.5	61.5	62.4	63.0
40	165.8	61.6	61.3	61.1	58.8	58.3	58.4	58.6	58.8	59.1	59.2	59.0	59.2	57.3	58.7	58.8	58.9	59.2	59.3	59.5	59.8	60.5	61.4	62.3	63.0
41	169.0	61.6	61.3	61.0	58.8	58.2	58.4	58.5	58.8	59.0	59.1	58.9	59.1	57.2	58.6	58.8	58.9	59.1	59.3	59.4	59.7	60.4	61.3	62.2	62.9
42	172.3	61.5	61.2	61.0	58.7	58.2	58.4	58.5	58.7	59.0	59.0	58.9	59.1	57.1	58.6	58.7	58.8	59.0	59.2	59.4	59.7	60.3	61.3	62.1	62.8
43	175.5	61.5	61.2	61.0	58.7	58.2	58.3	58.5	58.7	58.9	59.0	58.9	59.0	57.1	58.5	58.7	58.8	59.0	59.1	59.4	59.7	60.3	61.2	62.1	62.7
max		63.2	63.0	62.5	60.6	60.3	60.4	60.6	60.9	61.4	61.5	61.4	61.7	60.9	61.4	61.5	61.8	62.4	62.9	63.4	64.0	65.1	66.7	68.1	69.1
Number of																									
Noise level in dB(A)																									
<70		0	42	0	0	0	42	0	42	0	42	0	42	0	0	42	0	0	42	0	0	42	0	0	42
71		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Height of Noise Assessment																														
															T5																
Floor	Point (mPD)	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730
1	39.0	68.0	68.1	68.1	68.2	68.1	68.2	68.2	68.3	68.3	68.4	68.5	68.5	68.6	68.8	68.9	69.1	69.2	68.8	69.1	69.2	69.3	52.3	52.7	53.1	53.4	59.2	59.0	58.3	58.3	58.2
2	42.3	67.8	68.0	68.0	68.1	68.0	68.1	68.1	68.2	68.3	68.3	68.5	68.5	68.6	68.7	68.9	69.1	69.2	68.8	69.1	69.2	69.2	52.3	52.7	53.0	53.4	59.5	59.5	59.0	59.1	59.1
3	45.5	67.7	67.9	67.9	68.0	67.9	68.0	68.0	68.2	68.2	68.3	68.5	68.5	68.6	68.7	68.9	69.1	69.2	68.8	69.1	69.2	69.2	52.2	52.6	53.0	53.4	59.6	59.6	59.2	59.4	59.5
4	48.8	67.7	67.8	67.9	68.0	67.9	68.0	68.1	68.2	68.2	68.4	68.5	68.6	68.7	68.8	68.9	69.1	69.2	68.8	69.1	69.2	69.2	52.2	52.6	53.0	53.3	59.6	59.6	59.3	59.5	59.6
5	52.0	67.7	67.8	67.9	68.0	68.0	68.1	68.1	68.2	68.3	68.4	68.6	68.6	68.7	68.8	68.9	69.1	69.2	68.7	69.0	69.1	69.1	52.1	52.5	52.9	53.2	59.5	59.6	59.2	59.5	59.6
6	55.3	67.7	67.9	68.0	68.1	68.0	68.1	68.1	68.2	68.3	68.4	68.5	68.5	68.6	68.7	68.8	69.0	69.0	68.6	68.9	68.9	68.9	52.1	52.5	52.8	53.2	59.4	59.4	59.1	59.4	59.5
7	58.5	67.8	67.9	67.9	68.0	68.0	68.1	68.1	68.2	68.2	68.3	68.4	68.5	68.5	68.6	68.7	68.9	68.9	68.5	68.7	68.8	68.8	52.1	52.4	52.8	53.1	59.3	59.3	59.3	59.0	59.3	59.4
8	61.8	67.7	67.8	67.8	67.9	67.9	68.0	68.0	68.1	68.1	68.2	68.3	68.3	68.4	68.5	68.6	68.7	68.8	68.4	68.6	68.7	68.7	52.0	52.4	52.8	53.1	59.2	59.2	58.9	59.2	59.3
9	65.0	67.6	67.7	67.8	67.8	67.8	67.9	67.9	68.0	68.0	68.1	68.2	68.2	68.3	68.4	68.5	68.7	68.7	68.3	68.5	68.6	68.6	51.9	52.3	52.7	53.0	59.1	59.1	58.8	59.1	59.2
10	68.3	67.5	67.6	67.6	67.7	67.7	67.7	67.8	67.9	67.9	68.0	68.1	68.1	68.2	68.3	68.4	68.6	68.6	68.2	68.4	68.5	68.4	51.9	52.3	52.6	52.9	59.0	59.0	58.7	59.0	59.1
11	71.5	67.4	67.5	67.5	67.6	67.6	67.6	67.7	67.8	67.8	67.9	68.0	68.0	68.1	68.2	68.3	68.5	68.5	68.1	68.3	68.3	68.3	51.8	52.2	52.6	52.9	58.9	58.9	58.6	58.9	59.0
12	74.8	67.3	67.4	67.4	67.5	67.5	67.5	67.6	67.7	67.7	67.8	67.9	67.9	68.0	68.1	68.2	68.4	68.4	68.0	68.2	68.2	68.2	51.8	52.1	52.5	52.8	58.7	58.8	58.5	58.8	59.0
13	78.0	67.2	67.3	67.3	67.4	67.3	67.4	67.4	67.6	67.6	67.7	67.8	67.9	68.0	68.0	68.1	68.3	68.3	67.9	68.0	68.1	68.0	51.7	52.1	52.4	52.8	58.6	58.7	58.4	58.7	58.9
14	81.3	67.1	67.2	67.2	67.3	67.3	67.3	67.4	67.5	67.5	67.6	67.7	67.8	67.9	68.0	68.0	68.2	68.2	67.8	67.9	68.0	67.9	51.7	52.0	52.4	52.7	58.5	58.6	58.3	58.6	58.8
15	84.5	67.0	67.1	67.1	67.2	67.2	67.2	67.3	67.4	67.5	67.6	67.7	67.7	67.8	67.9	68.0	68.1	68.1	67.7	67.8	67.9	67.8	51.6	51.9	52.3	52.6	58.4	58.5	58.2	58.4	58.6
16	87.8	66.8	67.0	67.0	67.1	67.1	67.1	67.2	67.3	67.4	67.5	67.6	67.6	67.7	67.8	67.9	68.0	68.0	67.6	67.7	67.8	67.7	51.6	51.9	52.2	52.6	58.3	58.4	58.0	58.3	58.5
17	91.0	66.8	66.9	66.9	67.0	67.0	67.1	67.1	67.3	67.3	67.4	67.5	67.6	67.6	67.7	67.8	67.9	67.9	67.5	67.6	67.7	67.6	51.5	51.8	52.2	52.5	58.2	58.3	57.9	58.2	58.5
18	94.3	66.7	66.8	66.8	66.9	66.9	67.0	67.1	67.2	67.2	67.3	67.5	67.5	67.6	67.6	67.7	67.8	67.8	67.4	67.5	67.6	67.5	51.5	51.8	52.1	52.4	58.1	58.1	57.8	58.1	58.4
19	97.5	66.6	66.7	66.8	66.8	66.9	66.9	67.0	67.1	67.2	67.3	67.4	67.4	67.5	67.5	67.6	67.7	67.7	67.3	67.4	67.5	67.4	51.4	51.7	52.1	52.4	58.0	58.0	57.7	58.0	58.2
20	100.8																														
21	104.0	66.5	66.6	66.6	66.7	66.7	66.8	66.9	67.0	67.0	67.1	67.2	67.2	67.3	67.3	67.4	67.5	67.5	67.1	67.2	67.3	67.3	51.3	51.6	51.9	52.2	57.8	57.8	57.5	57.8	58.0
22	107.3	66.5	66.5	66.6	66.7	66.7	66.7	66.8	67.0	67.0	67.1	67.2	67.2	67.2	67.3	67.4	67.4	67.5	67.0	67.1	67.2	67.1	51.2	51.5	51.9	52.2	57.7	57.7	57.4	57.7	57.9
23	110.5	66.4	66.5	66.5	66.6	66.6	66.7	66.8	66.9	66.9	67.0	67.1	67.1	67.1	67.2	67.3	67.3	67.4	66.9	67.1	67.1	67.1	51.2	51.5	51.8	52.1	57.6	57.6	57.3	57.6	57.8
24	113.8	66.3	66.4	66.4	66.5	66.6	66.6	66.7	66.8	66.8	66.9	67.0	67.0	67.1	67.1	67.2	67.3	67.3	66.8	67.0	67.0	66.9	51.1	51.5	51.8	52.1	57.5	57.5	57.2	57.5	57.7
25	117.0	66.3	66.4	66.4	66.5	66.5	66.6	66.6	66.8	66.8	66.9	66.9	67.0	67.0	67.1	67.1	67.2	67.2	66.7	66.9	66.9	66.9	51.1	51.4	51.8	52.1	57.5	57.5	57.1	57.4	57.6
26	120.3	66.2	66.4	66.4	66.5	66.5	66.5	66.6	66.7	66.7	66.8	66.8	66.9	66.9	67.0	67.0	67.1	67.1	66.6	66.8	66.8	66.8	51.1	51.4	51.8	52.1	57.4	57.4	57.0	57.3	57.5
27	123.5	66.2	66.3	66.3	66.4	66.4	66.5	66.5	66.6	66.6	66.7	66.8	66.8	66.8	66.9	67.0	67.0	67.0	66.6	66.7	66.7	66.7	51.1	51.4	51.8	52.3	57.3	57.3	56.9	57.2	57.4
28	126.8	66.1	66.3	66.3	66.3	66.4	66.4	66.4	66.6	66.6	66.6	66.7	66.7	66.8	66.8	66.9	66.9	67.0	66.5	66.6	66.7	66.6	51.2	51.5	51.8	52.3	57.2	57.2	56.8	57.2	57.4
29	130.0	66.1	66.2	66.2	66.3	66.3	66.3	66.4	66.5	66.5	66.6	66.7	66.7	66.7	66.7	66.8	66.9	66.9	66.4	66.5	66.5	66.5	51.3	51.6	52.0	52.4	57.2	57.1	56.8	57.1	57.3
30	133.3	66.1	66.2	66.2	66.2	66.2	66.3	66.3	66.4	66.4	66.5	66.6	66.6	66.7	66.7	66.8	66.8	66.8	66.3	66.4	66.4	66.4	51.4	51.8	52.2	52.6	57.1	57.1	56.7	57.0	57.3
31	136.5	66.0	66.1	66.1	66.2	66.2	66.2	66.3	66.4	66.4	66.4	66.5	66.5	66.6	66.6	66.7	66.7	66.7	66.2	66.3	66.4	66.3	51.7	52.2	52.6	52.8	57.1	57.1	56.7	57.0	57.2
32	139.8	66.0	66.1	66.1	66.2	66.1	66.2	66.2	66.3	66.3	66.4	66.4	66.5	66.5	66.5	66.6	66.6	66.6	66.1	66.3	66.3	66.2	52.2	52.8	53.3	53.2	57.1	57.1	56.7	57.0	57.2
33	143.0	65.9	66.0	66.0	66.1	66.1	66.1	66.1	66.2	66.2	66.3	66.4	66.4	66.4	66.5	66.5	66.6	66.6	66.1	66.2	66.2	66.1	52.7	53.5	54.0	53.9	57.1	57.1	56.7	57.0	57.2
34	146.3	65.9	66.0	66.0	66.0	66.0	66.0	66.1	66.2	66.2	66.2	66.3	66.3	66.4	66.4	66.4	66.5	66.5	66.0	66.1	66.1	66.1	53.5	54.3	54.8	54.6	57.2	57.1	56.8	57.0	57.2
35	149.5	65.8	65.9	65.9	65.9	66.0	66.0	66.0	66.1	66.1	66.2	66.3	66.3	66.3	66.3	66.4	66.4	66.4	65.9	66.0	66.0	66.0	54.4	55.0	55.2	55.3	57.2	57.2	56.8	57.0	57.2
36	152.8	65.8	65.9	65.8	65.9	65.9	65.9	65.9	66.1	66.1	66.1	66.2	66.2	66.2	66.3	66.3	66.4	66.3	65.8	65.9	66.0	65.9	55.0	55.5	55.5	55.7	57.3	57.2	56.9	57.1	57.3
37	156.0	65.7	65.8	65.8	65.8	65.8	65.9	65.9	66.0	66.0	66.1	66.1	66.1	66.2	66.2	66.2	66.3	66.3	65.8	65.9	65.9	65.8	55.3	55.8	55.7	56.0	57.4	57.3	57.0	57.2	57.4
38	159.3	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.9	65.9	66.0	66.1	66.1	66.1	66.1	66.2	66.2	66.2	65.7	65.8	65.8	65.8	55.5	56.0	56.0	56.2	57.4	57.4	57.0	57.3	57.4
39	162.5	65.6	65.7	65.7	65.8	65.8	65.8	65.8	65.9	65.9	65.9	66.0	66.0	66.0	66.1	66.1	66.1	66.1	65.6	65.7	65.8	65.7	55.7	56.2	56.2	56.4	57.5	57.4	57.1	57.4	57.5
40	165.8	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.9	66.0	65.9	66.0	66.0	66.0	66.1	66.1	65.6	65.6	65.7	65.7	55.9	56.3	56.3	56.6	57.6	57.5	57.2	57.4	57.6
41	169.0	65.5	65.6	65.6	65.7	65.6	65.7	65.7	65.8	65.8	65.8	65.9	65.9	65.9	65.9	66.0	66.0	66.0	65.5	65.6	65.6	65.6	56.0	56.5	56.4	56.6	57.7	57.5	57.3	57.6	57.7
42	172.3	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.7	65.7	65.8	65.8	65.8	65.9	65.9	65.9	66.0	65.9	65.4	65.5	65.6	65.5	56.2	56.6	56.5	56.8	57.7	57.6	57.3	57.6	57.8
43	175.5	65.4	65.5	65.5	65.5	65.5	65.6	65.6	65.7	65.7	65.7	65.8	65.8	65.8	65.8	65.9	65.9	65.9	65.4	65.5	65.5	65.5	56.4	56.8	56.6	56.9	57.8	57.7	57.4	57.6	57.8
max		68.0	68.1	68.1	68.2	68.1	68.2	68.2	68.3	68.3	68.4	68.6	68.6	68.7	68.8	68.9	69.1	69.2	68.8	69.1	69.2	69.3	56.4	56.8	56.6	56.9	59.6	59.6	59.3	59.5	59.6
Number of																															
Noise level in dB(A)																															
<70		0	0	42	0	42	0	0	42	0	0	42	0	0	42	0	0	42	0	0	0	42	0	42	0	42	0	42	0	42	0
71		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Height of Noise Assessment																
		T5															
Floor	Point (mPD)	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746
1	39.0	58.1	61.1	61.1	60.8	60.9	62.3	62.3	62.1	62.0	62.0	62.0	61.8	61.8	61.8	62.1	63.4
2	42.3	59.1	61.0	61.0	60.7	60.8	62.2	62.2	62.0	61.9	61.9	62.0	61.8	61.8	61.7	62.0	63.3
3	45.5	59.5	61.0	61.0	60.7	60.7	62.1	62.1	61.9	61.8	61.8	61.9	61.7	61.7	61.6	61.9	63.2
4	48.8	59.7	60.9	60.9	60.6	60.6	62.1	61.9	61.8	61.7	61.7	61.8	61.6	61.6	61.5	61.8	63.1
5	52.0	59.7	60.8	60.8	60.5	60.5	62.0	61.9	61.7	61.7	61.6	61.7	61.5	61.5	61.4	61.7	63.0
6	55.3	59.7	60.7	60.7	60.4	60.5	61.9	61.8	61.7	61.6	61.5	61.6	61.4	61.4	61.3	61.6	62.8
7	58.5	59.6	60.6	60.7	60.3	60.4	61.8	61.7	61.5	61.5	61.5	61.5	61.3	61.3	61.2	61.5	62.7
8	61.8	59.5	60.6	60.6	60.3	60.3	61.7	61.6	61.5	61.4	61.4	61.4	61.2	61.2	61.1	61.4	62.6
9	65.0	59.4	60.5	60.6	60.2	60.3	61.6	61.5	61.4	61.3	61.3	61.3	61.1	61.1	61.0	61.3	62.5
10	68.3	59.3	60.5	60.5	60.1	60.2	61.5	61.4	61.3	61.2	61.2	61.2	61.1	61.0	60.9	61.2	62.4
11	71.5	59.2	60.4	60.4	60.1	60.1	61.4	61.3	61.2	61.1	61.1	61.1	61.0	60.9	60.8	61.1	62.3
12	74.8	59.1	60.3	60.4	60.0	60.0	61.3	61.2	61.1	61.1	61.0	61.1	60.9	60.9	60.7	61.0	62.1
13	78.0	59.0	60.3	60.3	59.9	59.9	61.3	61.1	61.0	60.9	60.9	61.0	60.8	60.8	60.6	60.9	62.0
14	81.3	58.9	60.2	60.2	59.8	59.8	61.1	61.0	60.9	60.9	60.8	60.9	60.7	60.7	60.6	60.8	61.9
15	84.5	58.8	60.1	60.1	59.7	59.8	61.1	60.9	60.8	60.8	60.7	60.8	60.6	60.6	60.4	60.7	61.8
16	87.8	58.6	60.0	60.0	59.7	59.7	61.0	60.8	60.7	60.7	60.7	60.7	60.5	60.5	60.4	60.6	61.7
17	91.0	58.5	59.9	59.9	59.6	59.6	60.9	60.8	60.7	60.6	60.6	60.6	60.4	60.4	60.3	60.5	61.6
18	94.3	58.4	59.9	59.9	59.5	59.5	60.8	60.6	60.6	60.5	60.5	60.5	60.3	60.3	60.2	60.4	61.5
19	97.5	58.3	59.8	59.8	59.4	59.4	60.7	60.6	60.5	60.4	60.4	60.5	60.3	60.2	60.1	60.3	61.4
20	100.8																
21	104.0	58.1	59.6	59.6	59.2	59.2	60.5	60.4	60.3	60.3	60.2	60.3	60.1	60.1	59.9	60.2	61.2
22	107.3	58.0	59.5	59.5	59.1	59.1	60.4	60.3	60.2	60.2	60.2	60.2	60.0	60.0	59.8	60.1	61.1
23	110.5	57.9	59.4	59.4	59.0	59.1	60.3	60.2	60.1	60.1	60.1	60.1	59.9	59.9	59.8	60.0	61.0
24	113.8	57.8	59.4	59.3	59.0	59.0	60.3	60.1	60.1	60.0	60.0	60.0	59.9	59.8	59.7	59.9	61.0
25	117.0	57.7	59.3	59.3	58.9	58.9	60.2	60.1	60.0	60.0	59.9	60.0	59.8	59.7	59.6	59.8	60.9
26	120.3	57.6	59.2	59.2	58.8	58.8	60.1	60.0	59.9	59.9	59.9	59.9	59.7	59.7	59.5	59.8	60.8
27	123.5	57.6	59.2	59.1	58.7	58.8	60.0	59.9	59.8	59.8	59.8	59.8	59.6	59.6	59.5	59.7	60.7
28	126.8	57.5	59.1	59.1	58.7	58.7	59.9	59.9	59.8	59.7	59.7	59.7	59.6	59.5	59.4	59.6	60.6
29	130.0	57.4	59.1	59.1	58.6	58.6	59.9	59.8	59.7	59.7	59.6	59.7	59.5	59.5	59.3	59.5	60.5
30	133.3	57.3	59.2	59.1	58.7	58.6	59.8	59.7	59.6	59.6	59.6	59.6	59.4	59.4	59.2	59.5	60.5
31	136.5	57.2	59.2	59.1	58.7	58.6	59.8	59.7	59.6	59.6	59.5	59.5	59.4	59.3	59.2	59.4	60.4
32	139.8	57.3	59.2	59.1	58.7	58.6	59.8	59.7	59.6	59.5	59.5	59.5	59.3	59.3	59.1	59.4	60.3
33	143.0	57.3	59.3	59.2	58.7	58.6	59.7	59.6	59.5	59.5	59.4	59.4	59.3	59.2	59.1	59.3	60.3
34	146.3	57.3	59.4	59.2	58.7	58.6	59.7	59.6	59.5	59.4	59.4	59.4	59.2	59.2	59.0	59.3	60.2
35	149.5	57.3	59.5	59.3	58.8	58.7	59.7	59.6	59.5	59.4	59.3	59.4	59.2	59.2	59.0	59.2	60.2
36	152.8	57.4	59.6	59.4	58.9	58.8	59.8	59.6	59.5	59.4	59.3	59.3	59.2	59.1	59.0	59.2	60.1
37	156.0	57.5	59.6	59.4	59.0	58.8	59.8	59.7	59.6	59.5	59.4	59.4	59.1	59.1	59.0	59.2	60.1
38	159.3	57.5	59.7	59.5	59.0	58.9	59.8	59.7	59.6	59.5	59.4	59.4	59.1	59.1	58.9	59.1	60.1
39	162.5	57.7	59.7	59.5	59.0	58.9	59.8	59.7	59.6	59.5	59.4	59.4	59.1	59.1	58.9	59.1	60.0
40	165.8	57.7	59.7	59.5	59.0	58.9	59.8	59.7	59.6	59.5	59.4	59.4	59.1	59.1	58.9	59.1	60.0
41	169.0	57.7	59.7	59.5	59.0	58.9	59.7	59.6	59.6	59.5	59.4	59.4	59.1	59.1	58.9	59.1	60.0
42	172.3	57.8	59.7	59.5	59.0	58.9	59.7	59.6	59.6	59.5	59.4	59.3	59.1	59.0	58.9	59.1	59.9
43	175.5	57.8	59.7	59.5	59.0	58.9	59.7	59.6	59.5	59.5	59.3	59.3	59.1	59.0	58.9	59.1	59.9
max		59.7	61.1	61.1	60.8	60.9	62.3	62.3	62.1	62.0	62.0	62.0	61.8	61.8	61.8	62.1	63.4
Number of																	
Noise level in dB(A)																	
<70		42	42	0	0	0	42	0	0	42	0	0	42	0	0	0	42
71		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX 4B

PREDICTED FAÇADE NOISE LEVELS FOR ROAD TRAFFIC NOISE FOR SITE 2
(WITH NOISE MITIGATION MEASURES)

Job No. : 22583
Job Title : THSE Site 2
Scenario : With NMMs

Percentage of flats in the development within the facade noise level

Noise level in dB(A)	No. of flats	Total No. of flats	%
<70	2802	2802	100.0
71	0	2802	0.0
72	0	2802	0.0
73	0	2802	0.0
74	0	2802	0.0
75	0	2802	0.0
76	0	2802	0.0
77	0	2802	0.0
78	0	2802	0.0

% OF EXCEEDANCE = 0.0%

Job No. : 22583
Job Title : THSE Site 2
Scenario : With NMMs

Floor	Height of Noise Assessment Point (mPD)	Receiver T1																														
		301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331
1	35.1	69.5	69.7	69.4	69.0	69.0	69.4	68.7	68.7	69.2	68.7	68.7	69.2	69.3	68.8	68.6	68.1	51.8	50.2	50.2	50.3	54.0	56.4	57.7	58.3	58.5	68.2	67.9	67.8	66.9	65.6	64.4
2	38.3	69.2	69.3	69.1	68.6	68.7	69.1	68.4	68.3	68.9	68.3	68.4	68.9	69.0	68.5	68.3	67.8	51.6	50.1	50.2	50.3	53.9	56.3	57.6	58.2	58.4	68.1	67.8	67.6	66.7	65.5	64.3
3	41.6	68.9	69.0	68.7	68.3	68.3	68.8	68.1	68.0	68.6	68.0	68.1	68.6	68.6	68.2	68.1	67.5	51.6	50.0	50.1	50.3	53.8	56.1	57.5	58.1	58.3	67.9	67.6	67.4	66.5	65.4	64.2
4	44.8	68.6	68.7	68.5	68.0	68.1	68.5	67.8	67.7	68.3	67.7	67.8	68.3	68.3	67.9	67.8	67.3	51.5	50.0	50.0	50.2	53.7	56.1	57.4	58.0	58.2	67.8	67.5	67.3	66.4	65.2	64.0
5	48.1	68.3	68.4	68.2	67.7	67.8	68.2	67.5	67.4	68.0	67.4	67.5	68.0	68.1	67.6	67.6	67.1	51.4	50.0	50.0	50.2	53.6	55.9	57.3	57.9	58.1	67.6	67.3	67.1	66.2	65.1	63.9
6	51.3	68.0	68.2	67.9	67.5	67.5	67.9	67.2	67.2	67.7	67.2	67.2	67.8	67.8	67.4	67.3	66.8	51.3	49.9	50.0	50.2	53.5	55.8	57.2	57.8	58.0	67.4	67.1	67.0	66.1	64.9	63.7
7	54.6	67.8	68.0	67.7	67.2	67.3	67.7	67.0	66.9	67.5	66.9	67.0	67.5	67.6	67.1	67.1	66.6	51.2	49.9	49.9	50.1	53.4	55.7	57.0	57.7	57.9	67.3	67.0	66.8	65.9	64.8	63.6
8	57.8	67.6	67.7	67.4	67.0	67.0	67.4	66.7	66.7	67.2	66.7	66.7	67.3	67.3	66.9	66.9	66.4	51.1	49.8	49.9	50.0	53.3	55.6	56.9	57.5	57.8	67.1	66.8	66.6	65.8	64.6	63.4
9	61.1	67.3	67.5	67.2	66.7	66.8	67.2	66.5	66.4	67.0	66.5	66.5	67.0	67.1	66.7	66.7	66.2	51.0	49.8	49.8	50.0	53.2	55.5	56.8	57.4	57.7	66.9	66.7	66.5	65.6	64.4	63.3
10	64.3	67.1	67.3	67.0	66.5	66.6	67.0	66.3	66.2	66.8	66.3	66.3	66.8	66.9	66.5	66.5	66.0	51.0	49.7	49.8	50.0	53.1	55.4	56.7	57.3	57.6	66.8	66.5	66.3	65.5	64.3	63.1
11	67.6	66.9	67.1	66.8	66.3	66.4	66.8	66.1	66.0	66.6	66.1	66.1	66.6	66.7	66.3	66.3	65.8	50.9	49.7	49.7	49.9	53.0	55.2	56.6	57.2	57.5	66.6	66.3	66.2	65.3	64.1	63.0
12	70.8	66.7	66.9	66.6	66.1	66.2	66.6	65.9	70.4	70.4	70.3	70.3	70.4	66.5	66.1	66.1	65.6	50.8	49.6	49.7	49.9	52.9	55.1	56.5	57.1	57.3	66.5	66.2	66.0	65.2	64.0	62.9
13	74.1	66.5	66.7	70.4	70.3	70.4	70.4	70.3	70.2	70.2	70.1	70.1	70.2	70.3	65.9	65.9	65.5	50.7	49.6	49.6	49.8	52.8	55.0	56.4	57.0	57.2	66.4	66.0	65.9	65.0	63.9	62.7
14	77.3	66.4	66.5	70.2	70.2	70.2	70.2	70.1	70.1	70.0	69.9	69.9	70.0	70.1	70.3	65.7	65.3	50.7	49.6	49.6	49.7	52.7	54.9	56.3	56.9	57.1	66.2	65.9	65.7	64.9	63.7	62.6
15	80.6	66.2	70.3	70.0	70.0	70.1	70.1	70.0	69.9	69.9	69.7	69.8	69.9	69.9	70.1	65.5	65.1	50.6	49.5	49.6	49.7	52.6	54.8	56.2	56.8	57.0	66.1	65.8	65.6	64.7	63.6	62.5
16	83.8	66.0	70.2	69.9	69.8	69.9	69.9	69.8	69.7	69.7	69.6	69.6	69.7	69.8	69.9	65.4	64.9	50.5	49.4	49.5	49.7	52.5	54.7	56.1	56.7	56.9	66.0	65.7	65.5	64.6	63.5	62.3
17	87.1	65.9	70.0	69.7	69.7	69.7	69.8	69.7	69.6	69.5	69.4	69.5	69.6	69.6	69.8	65.2	64.8	50.4	49.4	49.5	49.6	52.4	54.6	56.0	56.6	56.8	65.9	65.6	65.4	64.5	63.4	62.2
18	90.3	70.3	69.9	69.6	69.5	69.6	69.6	69.5	69.4	69.4	69.3	69.3	69.4	69.5	69.7	65.0	64.7	50.4	49.3	49.4	49.6	52.3	54.4	55.9	56.5	56.8	65.8	65.5	65.3	64.4	63.2	62.1
19	93.6	70.2	69.7	69.4	69.4	69.5	69.5	69.4	69.3	69.2	69.1	69.2	69.3	69.3	69.5	64.9	64.5	50.3	49.3	49.3	49.5	52.2	54.4	55.9	56.4	56.7	65.7	65.4	65.2	64.3	63.1	62.0
20	96.8	70.1	69.6	69.3	69.3	69.3	69.3	69.2	69.1	69.1	69.0	69.0	69.1	69.2	69.4	64.8	64.4	50.2	49.3	49.3	49.4	52.2	54.2	55.8	56.4	56.6	65.6	65.3	65.0	64.1	63.0	61.8
21	100.1	69.9	69.5	69.2	69.1	69.2	69.2	69.1	69.0	69.0	68.9	68.9	69.0	69.1	69.3	64.7	64.2	50.1	49.2	49.2	49.4	52.1	54.1	55.7	56.3	56.5	65.5	65.1	64.9	64.0	62.9	61.7
22	103.3	69.8	69.3	69.0	69.0	69.0	69.0	68.9	68.9	68.8	68.7	68.8	68.9	68.9	69.1	64.5	64.1	50.1	49.1	49.2	49.3	52.0	54.0	55.6	56.2	56.4	65.4	65.1	64.8	63.9	62.8	61.6
23	106.6	69.7	69.2	68.9	68.9	68.9	68.9	68.8	68.7	68.7	68.6	68.6	68.7	68.8	69.0	64.4	64.0	50.0	49.1	49.1	49.3	51.9	54.0	55.5	56.1	56.4	65.3	65.0	64.7	63.8	62.7	61.5
24	109.8	69.5	69.1	68.8	68.7	68.8	68.8	68.7	68.6	68.6	68.5	68.5	68.6	68.7	68.9	64.2	63.8	50.0	49.0	49.1	49.2	51.8	53.9	55.4	56.0	56.3	65.2	64.9	64.6	63.7	62.6	61.3
25	113.1	69.4	69.0	68.7	68.6	68.7	68.7	68.6	68.5	68.5	68.3	68.4	68.5	68.6	68.8	64.1	63.7	49.9	49.0	49.0	49.2	51.7	53.8	55.3	55.9	56.2	65.1	64.8	64.5	63.6	62.4	61.2
26	116.3	69.3	68.8	68.6	68.5	68.6	68.6	68.4	68.4	68.4	68.2	68.3	68.4	68.5	68.7	64.0	63.6	49.8	48.9	49.0	49.1	51.7	53.7	55.2	55.9	56.1	65.0	64.7	64.4	63.5	62.3	61.1
27	119.6	69.2	68.7	68.4	68.4	68.4	68.5	68.3	68.3	68.2	68.1	68.1	68.3	68.3	68.5	63.9	63.5	49.7	48.8	48.9	49.0	51.6	53.6	55.1	55.8	56.1	64.9	64.6	64.3	63.4	62.2	61.0
28	122.8	69.1	68.6	68.3	68.3	68.3	68.4	68.2	68.2	68.1	68.0	68.1	68.2	68.3	68.4	63.8	63.4	49.7	48.8	48.8	49.0	51.5	53.5	55.1	55.7	56.0	64.8	64.5	64.2	63.3	62.1	60.9
29	126.1	69.0	68.5	68.2	68.2	68.2	68.3	68.1	68.1	68.0	67.9	68.0	68.1	68.1	68.3	63.7	63.3	49.6	48.8	48.8	48.9	51.4	53.4	55.0	55.6	55.9	64.7	64.4	64.1	63.2	62.0	60.8
30	129.3	68.9	68.4	68.1	68.1	68.1	68.2	68.0	68.0	67.9	67.8	67.9	68.0	68.0	68.2	63.6	63.2	49.6	48.7	48.7	48.9	51.3	53.3	54.9	55.6	55.8	64.6	64.3	64.0	63.1	61.9	60.7
31	132.6	68.8	68.3	68.0	68.0	68.0	68.0	67.9	67.8	67.8	67.7	67.7	67.9	67.9	68.1	63.5	63.1	49.5	48.7	48.7	48.8	51.3	53.2	54.8	55.5	55.7	64.5	64.2	63.9	63.0	61.8	60.6
32	135.8	68.6	68.2	67.9	67.9	67.9	67.9	67.8	67.7	67.7	67.6	67.6	67.8	67.8	68.0	63.4	63.0	49.5	48.7	48.7	48.9	51.2	53.2	54.8	55.4	55.7	64.4	64.1	63.8	62.9	61.7	60.5
33	139.1	68.6	68.1	67.8	67.8	67.8	67.9	67.7	67.7	67.6	67.5	67.6	67.7	67.7	67.9	63.3	63.0	49.7	48.9	48.9	49.0	51.3	53.2	54.7	55.4	55.7	64.4	64.0	63.8	62.8	61.7	60.4
34	142.3																															
35	145.6																															
36	148.8																															
37	152.1																															
38	155.3																															
39	158.6																															
40	161.8																															
41	165.1																															
42	168.3																															
43	171.6																															
max		70.3	70.3	70.4	70.3	70.4	70.4	70.3	70.4	70.4	70.3	70.3	70.4	70.3	70.3	68.6	68.1	51.8	50.2	50.2	50.3	54.0	56.4	57.7	58.3	58.5	68.2	67.9	67.8	66.9	65.6	64.4

Remark:

- Acoustic Window (Baffle type) for bedroom, without SAM, -4dB(A) assumed (appendix 9)
- Acoustic Window (Baffle type) for bedroom, with SAM, -5.5dB(A) assumed (appendix 9)
- Acoustic Window (Baffle type) for master bedreeom, without SAM, -4.6dB(A) assumed (appendix 9)
- Acoustic Door (Baffle type) for living room, -4.4dB(A) assumed (appendix 9)
- Acoustic Balcony, -2dB(A) assumed (appendix 9)
- The presented predicted noise level after adopting acoustic windows / doors (baffle type) (i.e. mitigated noise level) does not necessarily represent the noise level at 1m away from the external façade, but the equivalent noise level at 1m from the external façade after accounting the reduction in noise levels inside the flat offered by the acoustic windows / doors (baffle type).

Number of flats within the noise level

Noise level in dB(A)	Number of flats																															
<70		33	0	0	0	33	0	0	33	0	0	0	0	0	33	33	0	0	33	0	0	33	0	33	0	33	33	0	0	33	0	0
71		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Height of Noise Assessment	T2B																																				
Floor	Point (mPD)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440
1	39.0	49.0	49.4	49.7	50.0	52.3	55.3	55.6	56.9	61.1	60.7	60.0	58.9	58.0	56.6	55.5	55.9	56.5	57.1	57.8	58.6	60.4	61.9	64.9	66.3	66.4	69.8	69.5	67.8	69.1	69.0	68.5	68.2	68.1	68.5	68.8	68.8	68.4	68.1	68.6	67.2
2	42.3	49.0	49.3	49.7	50.0	52.3	55.3	55.5	56.9	61.0	60.6	59.9	58.9	57.9	56.5	55.4	55.8	56.4	56.9	57.6	58.5	60.2	61.8	64.7	66.1	66.2	69.5	69.2	67.5	68.6	68.6	68.1	67.7	67.8	68.0	68.4	68.4	67.9	67.7	68.2	66.8
3	45.5	49.0	49.3	49.8	50.0	52.3	55.5	55.4	57.0	60.8	60.5	59.8	58.8	57.8	56.4	55.3	55.7	56.3	56.8	57.5	58.3	60.1	61.6	64.5	65.9	65.9	69.2	68.9	67.2	68.2	68.2	67.7	67.3	67.3	67.6	68.0	68.0	67.6	67.3	67.8	66.4
4	48.8	49.0	49.4	49.8	50.1	52.2	55.6	55.3	57.1	60.7	60.3	59.7	58.7	57.7	56.3	55.2	55.6	56.1	56.7	57.3	58.2	59.9	61.5	64.3	65.7	70.3	69.0	68.6	66.9	67.9	67.9	67.4	67.0	67.0	67.3	67.7	67.7	67.2	67.0	67.4	70.4
5	52.0	49.0	49.5	49.9	50.2	52.2	55.7	55.3	57.2	60.6	60.2	59.5	58.5	57.6	56.2	55.1	55.5	56.0	56.5	57.2	58.0	59.8	61.3	64.2	65.6	70.0	68.7	70.3	66.6	67.6	67.5	67.0	66.7	66.7	67.0	67.3	67.3	66.9	66.6	67.1	70.1
6	55.3	49.2	49.6	50.0	50.2	52.2	55.8	55.2	57.2	60.5	60.1	59.4	58.4	57.5	56.0	55.0	55.3	55.9	56.4	57.0	57.8	59.6	61.2	64.0	65.4	69.7	70.4	70.0	66.3	67.3	67.2	66.7	66.4	66.4	66.7	67.1	67.0	66.6	66.4	66.8	69.8
7	58.5	49.3	49.8	50.2	50.5	52.3	55.9	55.1	57.2	60.4	60.0	59.3	58.3	57.4	55.9	54.9	55.2	55.8	56.2	56.8	57.7	59.4	61.0	63.8	65.2	69.5	70.2	69.8	66.1	67.0	67.0	66.5	66.1	66.1	66.4	66.8	66.7	66.3	66.1	66.5	69.5
8	61.8	49.6	50.2	50.6	50.9	52.5	56.0	55.2	57.2	60.2	59.9	59.2	58.3	57.3	55.8	54.8	55.1	55.7	56.1	56.7	57.5	59.3	60.9	63.6	65.0	69.3	70.0	69.5	65.9	66.7	66.7	66.2	70.4	70.4	66.1	66.5	66.5	70.4	70.4	70.2	69.2
9	65.0	50.1	50.7	51.2	51.4	52.9	56.2	55.2	57.2	60.1	59.7	59.1	58.2	57.2	55.8	54.6	54.9	55.5	55.9	56.5	57.3	59.1	60.7	63.4	64.8	69.1	69.8	69.3	70.2	66.5	66.5	70.4	70.2	70.2	70.3	70.3	70.2	70.2	70.2	70.0	69.0
10	68.3	50.7	51.4	51.8	52.1	53.3	56.4	55.3	57.2	60.0	59.6	58.9	58.0	57.0	55.6	54.5	54.8	55.4	55.8	56.4	57.2	59.0	60.5	63.2	64.6	68.9	69.6	69.1	70.0	70.3	70.2	70.1	70.0	69.9	70.0	70.0	70.0	69.9	69.9	69.7	68.8
11	71.5	51.1	51.9	52.4	52.6	53.7	56.5	55.4	57.3	59.9	59.5	58.8	57.9	56.9	55.5	54.4	54.7	55.3	55.7	56.3	57.1	58.8	60.4	63.0	64.4	68.7	69.4	68.9	69.8	70.0	70.0	69.9	69.7	69.7	69.8	69.8	69.8	69.7	69.7	69.5	68.5
12	74.8	51.5	52.3	52.8	53.0	53.9	56.6	55.5	57.2	59.8	59.4	58.7	57.8	56.8	55.4	54.3	54.6	55.1	55.5	56.1	56.9	58.7	60.2	62.9	64.3	68.5	69.2	68.7	69.6	69.8	69.7	69.7	69.5	69.5	69.6	69.6	69.6	69.5	69.5	69.3	68.3
13	78.0	51.8	52.7	53.2	53.3	54.2	56.7	55.6	57.3	59.6	59.3	58.6	57.7	56.7	55.3	54.1	54.5	55.0	55.4	56.0	56.8	58.5	60.0	62.7	64.1	68.3	69.0	68.5	69.4	69.6	69.6	69.5	69.3	69.3	69.4	69.4	69.4	69.3	69.3	69.1	68.1
14	81.3	52.1	53.1	53.5	53.7	54.4	56.8	55.6	57.2	59.5	59.1	58.5	57.5	56.6	55.2	54.0	54.4	54.9	55.3	55.8	56.6	58.4	59.9	62.5	64.0	68.1	68.8	68.3	69.3	69.4	69.4	69.3	69.1	69.1	69.2	69.2	69.2	69.1	69.1	68.9	67.9
15	84.5	52.5	53.4	53.8	53.9	54.6	56.8	55.7	57.2	59.4	59.0	58.4	57.4	56.5	55.0	53.9	54.2	54.7	55.2	55.7	56.4	58.3	59.7	62.4	63.8	68.0	68.7	68.1	69.1	69.3	69.2	69.1	69.0	69.0	69.0	69.0	69.0	69.0	68.9	68.7	67.7
16	87.8	52.8	53.6	54.0	54.1	54.7	56.9	55.7	57.2	59.3	58.9	58.3	57.3	56.4	54.9	53.8	54.1	54.6	55.1	55.5	56.3	58.1	59.6	62.3	63.7	67.8	68.5	68.0	69.0	69.1	69.0	68.9	68.8	68.8	68.8	68.9	68.8	68.8	68.7	68.5	67.5
17	91.0	53.0	53.9	54.2	54.3	54.8	56.9	55.7	57.2	59.2	58.8	58.2	57.2	56.3	54.8	53.7	54.0	54.5	54.9	55.4	56.2	58.0	59.5	62.1	63.5	67.7	68.3	67.9	68.8	68.9	68.9	68.8	68.6	68.6	68.7	68.7	68.7	68.6	68.5	68.4	67.4
18	94.3	53.2	54.0	54.3	54.4	54.9	56.9	55.6	57.1	59.1	58.7	58.1	57.1	56.2	54.7	53.5	53.9	54.4	54.8	55.3	56.0	57.9	59.4	62.0	63.4	67.5	68.2	67.7	68.6	68.8	68.7	68.6	68.5	68.5	68.5	68.5	68.5	68.4	68.4	68.2	67.2
19	97.5	53.3	54.1	54.4	54.3	54.9	56.9	55.6	57.0	58.9	58.6	57.9	57.1	56.1	54.6	53.4	53.8	54.3	54.7	55.2	55.9	57.8	59.3	61.9	63.3	67.4	68.0	67.5	68.5	68.6	68.6	68.5	68.3	68.3	68.4	68.3	68.3	68.3	68.2	68.0	67.0
20	100.8																																								
21	104.0	53.4	54.1	54.4	54.4	54.9	56.8	55.5	56.9	58.7	58.4	57.7	56.8	55.8	54.4	53.2	53.5	54.0	54.4	54.9	55.7	57.5	59.0	61.6	63.0	67.1	67.8	67.3	68.2	68.4	68.3	68.2	68.0	68.0	68.1	68.1	68.0	68.0	67.9	67.8	66.7
22	107.3	53.4	54.1	54.4	54.4	54.8	56.7	55.4	56.8	58.6	58.3	57.6	56.7	55.7	54.3	53.1	53.4	53.9	54.3	54.8	55.6	57.4	58.9	61.5	62.9	67.0	67.6	67.2	68.1	68.2	68.1	68.0	67.9	67.9	67.9	67.9	67.9	67.9	67.8	67.6	66.6
23	110.5	53.3	54.1	54.4	54.3	54.8	56.6	55.3	56.7	58.5	58.2	57.5	56.6	55.7	54.2	53.0	53.3	53.8	54.2	54.7	55.4	57.3	58.8	61.4	62.8	66.9	67.5	67.0	67.9	68.1	68.0	67.9	67.8	67.8	67.8	67.8	67.8	67.7	67.6	67.4	66.5
24	113.8	53.4	54.1	54.4	54.3	54.8	56.6	55.2	56.6	58.4	58.0	57.4	56.5	55.6	54.1	52.9	53.2	53.7	54.1	54.6	55.3	57.2	58.7	61.2	62.7	66.7	67.4	66.9	67.9	67.9	67.9	67.8	67.8	67.6	67.6	67.7	67.7	67.6	67.5	67.4	66.3
25	117.0	53.3	54.0	54.3	54.3	54.7	56.5	55.2	56.6	58.3	57.9	57.3	56.4	55.5	54.0	52.8	53.1	53.6	54.0	54.5	55.2	57.1	58.6	61.1	62.6	66.6	67.3	66.8	67.7	67.8	67.8	67.7	67.5	67.5	67.6	67.5	67.5	67.4	67.4	67.2	66.2
26	120.3	53.3	54.0	54.3	54.2	54.6	56.5	55.1	56.5	58.2	57.9	57.2	56.3	55.4	53.9	52.7	53.0	53.5	53.9	54.4	55.1	56.9	58.5	61.0	62.4	66.5	67.2	66.7	67.6	67.7	67.6	67.6	67.4	67.4	67.5	67.4	67.4	67.3	67.3	67.1	66.0
27	123.5	53.3	54.0	54.2	54.2	54.6	56.4	55.0	56.4	58.1	57.8	57.1	56.2	55.3	53.8	52.6	52.9	53.4	53.7	54.3	55.0	56.8	58.4	60.9	62.3	66.4	67.1	66.6	67.5	67.6	67.5	67.4	67.2	67.2	67.3	67.3	67.3	67.3	67.2	67.0	65.9
28	126.8	53.2	53.9	54.2	54.1	54.5	56.3	54.9	56.4	58.0	57.7	57.0	56.1	55.2	53.7	52.5	52.8	53.3	53.6	54.2	54.9	56.7	58.3	60.8	62.2	66.3	66.9	66.4	67.4	67.5	67.4	67.3	67.2	67.1	67.2	67.2	67.2	67.1	67.1	66.9	65.8
29	130.0	53.2	53.9	54.1	54.1	54.5	56.3	54.9	56.3	57.9	57.6	56.9	56.1	55.1	53.6	52.4	52.7	53.2	53.5	54.1	54.8	56.6	58.1	60.7	62.1	66.2	66.8	66.3	67.3	67.4	67.3	67.2	67.1	67.0	67.1	67.1	67.1	67.0	66.9	66.8	65.7
30	133.3	53.1	53.9	54.1	54.1	54.4	56.2	54.8	56.2	57.8	57.5	56.8	56.0	55.0	53.5	52.3	52.7	53.1	53.4	54.0	54.7	56.5	58.0	60.6	62.0	66.1	66.7	66.2	67.2	67.2	67.2	67.1	66.9	67.0	67.0	67.0	67.0	66.9	66.9	66.7	65.6
31	136.5	53.1	53.8	54.1	54.0	54.4	56.2	54.8	56.2	57.8	57.4	56.8	55.9	54.9	53.4	52.3	52.6	53.0	53.3	53.9	54.6	56.4	58.0	60.5	61.9	66.0	66.6	66.1	67.1	67.1	67.1	67.0	66.8	66.8	66.9	66.9	66.9	66.8	66.8	66.6	65.5
32	139.8	53.1	53.8	54.0	54.0	54.4	56.1	54.8	56.1	57.7	57.3	56.7	55.8	54.8	53.4	52.3	52.6	53.0	53.4	53.9	54.6	56.4	57.9	60.4	61.9	65.9	66.6	66.1	67.0	67.0	67.0	66.9	66.7	66.7	66.8	66.8	66.8	66.7	66.7	66.5	65.4
33	143.0																																							
34	146.3																																							
35	149.5																																							
36	152.8																																							
37	156.0																																							
38	159.3																																							
39	162.5																																							
40	165.8																																							
41	169.0																																							
42	172.3																																							
43	175.5																																							
max		53.4	54.1	54.4	54.4	54.9	56.9	55.7	57.3	61.1	60.7	60.0	58.9	58.0	56.6	55.5	55.9	56.5	57.1	57.8	58.6	60.4	61.9	64.9	66.3	70.3	70.4	70.3	70.2	70.3	70.2	70.4	70.4	70.4	70.3	70.3	70.2	70.4	70.4	70.2	70.4

Remark:

- Acoustic Window (Baffle type) for bedroom, without SAM, -4dB(A) assumed (appendix 9)
- Acoustic Window (Baffle type) for bedroom, with SAM, -5.5dB(A) assumed (appendix 9)
- Acoustic Window (Baffle type) for master bedreeom, without SAM, -4.6dB(A) assumed (appendix 9)
- Acoustic Door (Baffle type) for living room, -4.4dB(A) assumed (appendix 9)
- Acoustic Balcony, -2dB(A) assumed (appendix 9)
- The presented predicted noise level after adopting acoustic windows / doors (baffle type) (i.e. mitigated noise level) does not necessarily represent the noise level at 1m away from the external façade, but the equivalent noise level at 1m from the external façade after accounting the reduction in noise levels inside the flat offered by the acoustic windows / doors (baffle type).

Number of																																							
Noise level in dB(A)																																									
<70		0	31	0	31	0	31	0	31	31	0	0	31	0	0	0	0	31	0	0	31	0	0	31	0	0	31	0	0	31	31	0	0	0	31	0	31	0	0	31	0
71		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Floor	Height of Noise Assessment Point (mPD)	T2A																							
		501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524
1	39.0	69.6	69.2	69.1	69.7	69.4	69.3	70.0	69.6	70.1	69.8	69.8	70.4	70.0	69.0	70.0	65.2	61.6	46.8	47.1	47.6	48.0	48.3	49.1	48.5
2	42.3	69.1	68.8	68.6	69.2	68.9	68.8	69.5	69.1	69.6	69.3	69.4	69.8	69.6	68.5	69.5	64.9	61.5	47.4	47.6	48.1	48.4	48.7	49.3	48.4
3	45.5	68.6	68.4	68.2	68.8	68.5	68.3	69.1	68.6	69.2	68.8	68.9	69.4	69.1	68.0	69.0	64.5	61.2	48.1	48.4	48.9	49.1	49.4	49.7	48.4
4	48.8	68.3	68.0	67.8	68.4	68.1	68.0	68.6	68.2	68.7	68.4	68.4	68.9	68.6	67.6	68.6	64.1	61.1	49.1	49.2	49.4	49.5	49.7	50.1	48.4
5	52.0	67.9	67.6	67.4	68.1	67.7	67.6	68.3	67.9	68.4	68.0	68.1	68.5	68.2	67.2	68.2	63.8	60.8	49.8	50.0	50.3	50.3	50.6	50.6	48.4
6	55.3	67.6	67.3	67.1	67.7	67.4	67.3	68.0	67.5	68.0	67.7	67.7	68.2	67.9	66.8	67.8	63.5	60.7	51.0	51.1	51.4	51.1	51.2	51.0	48.3
7	58.5	67.3	67.0	66.8	67.4	67.1	66.9	67.6	67.2	67.7	67.3	67.4	67.9	67.5	66.5	67.4	63.2	60.6	51.6	51.7	51.9	51.6	51.6	51.4	48.4
8	61.8	67.0	66.7	66.5	67.2	66.8	66.7	67.3	66.9	67.3	67.0	67.1	67.5	67.2	66.2	67.1	62.9	60.5	52.2	52.2	52.4	52.1	52.1	51.6	48.4
9	65.0	66.8	66.4	66.2	66.9	66.5	66.4	67.1	66.6	67.1	66.7	66.8	67.2	66.9	65.9	66.8	62.6	60.3	52.7	52.6	52.8	52.4	52.4	51.8	48.5
10	68.3	66.5	66.2	66.0	66.6	66.2	66.1	66.8	66.3	66.8	66.5	66.5	66.9	66.6	65.6	66.5	62.3	60.2	53.0	52.9	53.0	52.7	52.6	51.9	48.6
11	71.5	70.3	70.4	70.3	70.4	70.4	65.9	66.5	66.1	66.6	66.2	66.2	66.7	66.4	65.3	66.3	62.1	60.1	53.1	53.0	53.2	52.9	52.8	52.1	48.7
12	74.8	70.0	70.1	70.1	70.1	70.2	70.2	70.3	70.3	70.3	70.4	70.4	66.5	66.1	65.1	66.0	61.9	60.0	53.4	53.2	53.3	53.0	52.9	52.2	49.0
13	78.0	69.8	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.2	70.3	70.3	70.4	61.7	59.9	53.4	53.3	53.4	53.1	53.0	52.4	49.4
14	81.3	69.6	69.7	69.7	69.7	69.8	69.8	69.9	69.8	69.9	69.9	70.0	70.0	70.1	70.1	70.2	61.4	59.7	53.4	53.2	53.4	53.3	53.2	52.7	49.8
15	84.5	69.5	69.5	69.5	69.5	69.6	69.6	69.7	69.6	69.6	69.7	69.8	69.8	69.8	69.9	70.0	61.2	59.6	53.4	53.3	53.6	53.3	53.3	52.9	50.3
16	87.8	69.3	69.3	69.3	69.3	69.4	69.4	69.5	69.4	69.5	69.5	69.6	69.6	69.7	69.7	69.8	61.0	59.4	53.4	53.2	53.6	53.4	53.4	53.1	50.7
17	91.0	69.1	69.2	69.1	69.1	69.2	69.2	69.3	69.2	69.3	69.4	69.4	69.4	69.5	69.5	69.6	60.9	59.4	53.4	53.3	53.6	53.4	53.4	53.2	51.0
18	94.3	68.9	69.0	68.9	69.0	69.0	69.1	69.1	69.1	69.1	69.2	69.2	69.3	69.3	69.4	69.4	60.7	59.2	53.4	53.2	53.6	53.4	53.4	53.3	51.2
19	97.5	68.7	68.8	68.8	68.9	68.9	68.9	68.9	68.9	69.0	69.0	69.0	69.1	69.1	69.2	69.2	60.5	59.1	53.3	53.1	53.5	53.4	53.5	53.3	51.4
20	100.8																								
21	104.0	68.5	68.5	68.5	68.5	68.6	68.6	68.7	68.6	68.6	68.6	68.8	68.8	68.8	68.9	68.9	60.2	58.9	53.2	53.1	53.5	53.4	53.4	53.3	51.5
22	107.3	68.3	68.4	68.4	68.4	68.4	68.4	68.5	68.4	68.5	68.5	68.6	68.6	68.7	68.7	68.8	60.1	58.8	53.2	53.0	53.4	53.3	53.3	53.3	51.5
23	110.5	68.2	68.3	68.2	68.2	68.2	68.3	68.4	68.3	68.4	68.4	68.4	68.5	68.6	68.6	68.6	59.9	58.7	53.1	53.0	53.4	53.2	53.3	53.3	51.5
24	113.8	68.0	68.2	68.1	68.1	68.1	68.2	68.2	68.2	68.3	68.3	68.3	68.4	68.4	68.4	68.5	59.8	58.6	53.1	52.9	53.4	53.2	53.2	53.2	51.5
25	117.0	67.9	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.3	68.3	68.3	68.3	59.7	58.6	53.0	52.9	53.3	53.1	53.2	53.2	51.4
26	120.3	67.8	67.9	67.9	67.9	67.9	67.9	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.2	59.6	58.5	53.0	52.8	53.2	53.1	53.1	53.1	51.4
27	123.5	67.7	67.7	67.8	67.8	67.8	67.8	67.9	67.8	67.8	67.9	68.0	68.0	68.0	68.1	68.1	59.5	58.4	52.9	52.8	53.2	53.0	53.1	53.1	51.4
28	126.8	67.6	67.7	67.6	67.6	67.7	67.7	67.8	67.7	67.8	67.8	67.8	67.8	67.9	68.0	67.9	59.4	58.4	52.9	52.7	53.1	53.0	53.0	53.0	51.3
29	130.0	67.5	67.6	67.5	67.5	67.5	67.6	67.7	67.6	67.7	67.7	67.7	67.7	67.8	67.8	67.9	59.3	58.3	52.8	52.7	53.1	52.9	53.0	53.0	51.3
30	133.3	67.4	67.5	67.4	67.5	67.5	67.5	67.5	67.5	67.6	67.6	67.6	67.6	67.7	67.7	67.7	59.2	58.3	52.8	52.6	53.0	52.9	53.0	52.9	51.3
31	136.5	67.3	67.3	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.5	67.5	67.6	67.6	67.6	59.1	58.2	52.7	52.5	53.0	52.8	52.9	52.9	51.2
32	139.8	67.2	67.2	67.2	67.3	67.3	67.3	67.4	67.3	67.3	67.3	67.3	67.4	67.5	67.5	67.5	59.1	58.1	52.7	52.5	52.9	52.8	52.9	52.8	51.2
33	143.0	67.1	67.1	67.1	67.1	67.2	67.2	67.3	67.2	67.2	67.2	67.3	67.3	67.3	67.4	67.4	59.0	58.1	52.6	52.4	52.9	52.7	52.8	52.8	51.2
34	146.3	67.0	67.1	67.0	67.0	67.0	67.1	67.2	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.3	58.9	58.0	52.6	52.4	52.8	52.7	52.8	52.8	51.3
35	149.5	66.9	67.0	66.9	67.0	67.0	67.0	67.1	67.0	67.1	67.1	67.1	67.1	67.1	67.2	67.2	58.8	58.0	52.5	52.4	52.8	52.7	52.7	52.8	51.3
36	152.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.1	67.1	58.7	57.9	52.5	52.3	52.7	52.6	52.7	52.7	51.5
37	156.0	66.8	66.8	66.8	66.8	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	67.0	67.0	67.0	58.6	57.9	52.5	52.3	52.7	52.6	52.7	52.7	51.7
38	159.3	66.7	66.8	66.7	66.7	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.9	66.9	66.9	58.6	57.8	52.5	52.3	52.7	52.6	52.7	52.8	52.0
39	162.5	66.6	66.7	66.6	66.6	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.8	66.8	66.8	66.8	58.5	57.8	52.6	52.3	52.8	52.6	52.7	52.9	52.5
40	165.8	66.6	66.6	66.5	66.5	66.5	66.6	66.6	66.6	66.6	66.6	66.6	66.7	66.7	66.7	66.7	58.4	57.8	52.7	52.5	52.8	52.6	52.6	52.9	52.9
41	169.0	66.5	66.6	66.5	66.5	66.5	66.5	66.6	66.5	66.5	66.5	66.6	66.6	66.6	66.6	66.6	58.3	57.8	52.8	52.5	52.9	52.7	52.7	53.1	53.4
42	172.3	66.4	66.5	66.4	66.4	66.4	66.5	66.5	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	58.3	57.7	52.9	52.6	52.9	52.7	52.8	53.4	54.1
43	175.5	66.4	66.4	66.3	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	58.3	57.7	53.0	52.8	53.1	53.0	53.1	53.9	54.8
max		70.3	70.4	70.3	70.4	70.4	70.2	70.3	70.3	70.3	70.4	70.4	70.4	70.3	70.3	70.4	65.2	61.6	53.4	53.3	53.6	53.4	53.5	53.9	54.8

Remark:

- Acoustic Window (Baffle type) for bedroom, without SAM, -4dB(A) assumed (appendix 9)
- Acoustic Window (Baffle type) for bedroom, with SAM, -5.5dB(A) assumed (appendix 9)
- Acoustic Window (Baffle type) for master bedreeom, without SAM, -4.6dB(A) assumed (appendix 9)
- Acoustic Door (Baffle type) for living room, -4.4dB(A) assumed (appendix 9)
- Acoustic Balcony, -2dB(A) assumed (appendix 9)
- The presented predicted noise level after adopting acoustic windows / doors (baffle type) (i.e. mitigated noise level) does not necessarily represent the noise level at 1m away from the external façade, but the equivalent noise level at 1m from the external façade after accounting the reduction in noise levels inside the flat offered by the acoustic windows / doors (baffle type).

Number of																									
Noise level in dB(A)																									
<70		0	0	42	0	42	0	0	42	0	42	0	42	0	0	42	0	42	0	0	42	0	0	42	0
71		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Height of Noise Assessment																														
															T3																
Floor	Point (mPD)	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630
1	39.0	67.6	67.4	66.8	70.3	69.8	69.5	69.2	68.7	68.5	68.3	68.1	67.9	67.7	67.5	67.4	67.3	67.2	67.2	67.1	67.1	67.1	67.1	67.0	67.1	67.1	67.3	67.9	65.2	63.7	63.6
2	42.3	67.3	67.1	66.5	70.1	69.6	69.3	69.0	68.6	68.4	68.2	68.0	67.8	67.6	67.5	67.4	67.2	67.1	67.1	67.0	67.0	67.0	66.9	66.9	66.9	67.0	67.2	67.8	65.1	63.6	63.5
3	45.5	66.9	66.7	70.3	69.8	69.4	69.1	68.9	68.4	68.3	68.1	67.8	67.7	67.5	67.4	67.3	67.1	67.0	67.0	66.9	66.9	66.9	66.9	66.8	66.8	66.8	66.9	67.0	65.0	63.5	63.5
4	48.8	66.5	70.4	69.9	69.6	69.2	68.9	68.7	68.3	68.1	67.9	67.7	67.5	67.4	67.3	67.2	67.0	66.9	66.9	66.8	66.8	66.8	66.8	66.7	66.8	66.8	66.9	67.5	64.9	63.5	63.4
5	52.0	66.2	70.1	69.7	69.3	69.0	68.7	68.5	68.1	68.0	67.8	67.6	67.4	67.2	67.2	67.1	66.9	66.8	66.9	66.8	66.7	66.7	66.7	66.7	66.7	66.8	66.9	67.5	64.9	63.5	63.4
6	55.3	70.4	69.8	69.4	69.1	68.7	68.5	68.3	68.0	67.8	67.6	67.5	67.3	67.1	67.1	67.0	66.8	66.8	66.8	66.7	66.7	66.7	66.6	66.6	66.6	66.7	66.8	67.4	64.9	63.5	63.5
7	58.5	70.1	69.5	69.1	68.8	68.5	68.3	68.1	67.8	67.7	67.5	67.3	67.2	67.0	67.0	66.9	66.8	66.7	66.7	66.6	66.6	66.6	66.5	66.5	66.6	66.6	66.7	67.4	64.9	63.6	63.5
8	61.8	69.8	69.2	68.9	68.5	68.3	68.1	67.9	67.7	67.5	67.4	67.2	67.1	66.9	66.8	66.8	66.7	66.6	66.6	66.5	66.5	66.5	66.5	66.5	66.5	66.6	66.7	67.3	65.0	63.7	63.6
9	65.0	69.5	68.9	68.6	68.3	68.1	67.9	67.7	67.5	67.4	67.2	67.1	67.0	66.8	66.8	66.7	66.6	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.6	66.7	67.3	65.0	63.8	63.7
10	68.3	69.3	68.7	68.4	68.1	67.9	67.7	67.6	67.3	67.2	67.1	66.9	66.8	66.7	66.7	66.6	66.5	66.5	66.5	66.4	66.4	66.5	66.4	66.4	66.5	66.5	66.7	67.3	65.1	63.9	63.8
11	71.5	69.0	68.5	68.1	67.9	67.7	67.5	67.4	67.2	67.1	67.0	66.8	66.7	66.6	66.6	66.6	66.5	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.5	66.6	67.2	65.0	63.9	63.8
12	74.8	68.8	68.2	67.9	67.7	67.5	67.4	67.2	67.0	67.0	66.9	66.8	66.7	66.6	66.5	66.5	66.4	66.4	66.4	66.4	66.4	66.4	66.3	66.3	66.4	66.4	66.5	67.1	64.9	63.8	63.7
13	78.0	68.6	68.0	67.7	67.5	67.3	67.2	67.1	66.9	66.9	66.8	66.7	66.6	66.5	66.5	66.4	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.4	66.4	67.0	64.9	63.7	63.7
14	81.3	68.4	67.8	67.6	67.4	67.2	67.0	67.0	66.8	66.8	66.7	66.6	66.5	66.4	66.4	66.3	66.3	66.2	66.3	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.4	66.9	64.8	63.6	63.6
15	84.5	68.2	67.7	67.4	67.2	67.0	66.9	66.9	66.7	66.7	66.6	66.5	66.4	66.3	66.3	66.3	66.2	66.2	66.2	66.1	66.1	66.1	66.1	66.1	66.1	66.2	66.2	66.8	64.7	63.6	63.5
16	87.8	68.0	67.5	67.2	67.1	66.9	66.8	66.7	66.6	66.6	66.5	66.4	66.3	66.2	66.2	66.2	66.1	66.1	66.1	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.2	66.7	64.6	63.5	63.4
17	91.0	67.9	67.4	67.1	66.9	66.8	66.7	66.6	66.5	66.4	66.4	66.3	66.2	66.1	66.1	66.1	66.0	66.0	66.0	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.6	64.5	63.4	63.3
18	94.3	67.7	67.2	67.0	66.8	66.6	66.5	66.5	66.3	66.3	66.3	66.1	66.1	66.0	66.0	66.0	65.9	65.8	65.9	65.8	65.8	65.8	65.8	65.8	65.8	65.9	66.0	66.5	64.4	63.3	63.2
19	97.5	67.5	67.1	66.8	66.7	66.5	66.4	66.4	66.2	66.2	66.1	66.0	66.0	65.9	65.9	65.9	65.8	65.8	65.8	65.8	65.7	65.7	65.7	65.7	65.7	65.8	65.9	66.5	64.3	63.2	63.1
20	100.8																														
21	104.0	67.3	66.8	66.6	66.4	66.2	66.2	66.1	66.0	66.0	65.9	65.8	65.8	65.7	65.7	65.7	65.6	65.6	65.6	65.5	65.6	65.5	65.5	65.6	65.6	65.6	65.7	66.3	64.1	63.1	62.9
22	107.3	67.2	66.7	66.4	66.3	66.1	66.0	66.0	65.9	65.9	65.8	65.7	65.7	65.6	65.6	65.6	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.6	66.2	64.1	63.0	62.9
23	110.5	67.0	66.6	66.3	66.2	66.0	65.9	65.9	65.8	65.7	65.7	65.6	65.6	65.5	65.5	65.5	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.6	66.1	64.0	62.9	62.8
24	113.8	66.9	66.4	66.2	66.1	65.9	65.8	65.8	65.6	65.7	65.6	65.5	65.5	65.4	65.4	65.4	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.4	65.5	66.1	63.9	62.9	62.7
25	117.0	66.8	66.3	66.1	65.9	65.8	65.7	65.7	65.6	65.5	65.5	65.4	65.4	65.3	65.3	65.3	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.3	65.4	66.0	63.9	62.8	62.7
26	120.3	66.7	66.2	66.0	65.8	65.7	65.6	65.6	65.5	65.4	65.4	65.3	65.3	65.2	65.2	65.2	65.2	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.2	65.2	65.3	65.9	63.8	62.7	62.6
27	123.5	66.5	66.1	65.9	65.7	65.6	65.5	65.5	65.4	65.3	65.3	65.2	65.2	65.1	65.1	65.1	65.1	65.0	65.1	65.0	65.1	65.1	65.1	65.1	65.1	65.2	65.3	65.9	63.7	62.7	62.6
28	126.8	66.4	66.0	65.8	65.6	65.5	65.4	65.4	65.3	65.3	65.2	65.1	65.1	65.0	65.0	65.0	65.0	65.0	65.0	64.9	65.0	65.0	65.0	65.0	65.0	65.1	65.2	65.8	63.7	62.7	62.6
29	130.0	66.3	65.9	65.6	65.5	65.4	65.3	65.3	65.2	65.2	65.1	65.0	65.0	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.0	65.0	65.2	65.8	63.7	62.7	62.6
30	133.3	66.2	65.8	65.6	65.4	65.3	65.2	65.2	65.1	65.1	65.0	64.9	64.9	64.9	64.9	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9	64.9	64.9	65.0	65.1	65.7	63.6	62.7	62.5
31	136.5	66.1	65.7	65.5	65.3	65.2	65.1	65.1	65.0	65.0	64.9	64.8	64.8	64.8	64.8	64.8	64.7	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.9	65.1	65.7	63.6	62.6	62.5
32	139.8	66.0	65.6	65.4	65.2	65.1	65.0	65.0	64.9	64.9	64.8	64.8	64.7	64.7	64.7	64.7	64.7	64.6	64.7	64.7	64.7	64.7	64.7	64.8	64.8	64.8	65.0	65.6	63.6	62.6	62.5
33	143.0	65.9	65.5	65.3	65.1	65.0	64.9	64.9	64.8	64.8	64.8	64.7	64.7	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.8	65.0	65.6	63.5	62.6	62.5
34	146.3	65.8	65.4	65.2	65.0	64.9	64.8	64.8	64.7	64.7	64.7	64.6	64.6	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.6	64.6	64.6	64.6	64.7	64.8	64.9	65.5	63.5	62.6	62.4
35	149.5	65.7	65.3	65.1	65.0	64.8	64.8	64.7	64.6	64.6	64.6	64.5	64.5	64.4	64.4	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.6	64.6	64.7	64.9	65.5	63.5	62.5	62.4
36	152.8	65.6	65.2	65.0	64.9	64.7	64.7	64.6	64.5	64.5	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.6	64.7	64.9	65.4	63.5	62.5	62.4
37	156.0	65.5	65.1	64.9	64.8	64.7	64.6	64.5	64.5	64.5	64.4	64.4	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.4	64.4	64.4	64.5	64.5	64.6	64.8	65.4	63.4	62.5	62.4
38	159.3	65.5	65.0	64.8	64.7	64.6	64.5	64.5	64.4	64.4	64.4	64.3	64.3	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.3	64.4	64.4	64.4	64.5	64.6	64.7	65.3	63.4	62.5	62.4
39	162.5	65.4	65.0	64.8	64.6	64.5	64.4	64.4	64.3	64.3	64.3	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.3	64.4	64.4	64.5	64.7	65.3	63.4	62.5	62.4
40	165.8	65.3	64.9	64.7	64.6	64.4	64.4	64.3	64.2	64.2	64.2	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.2	64.2	64.3	64.3	64.4	64.5	64.7	65.3	63.4	62.5	62.4	
41	169.0	65.2	64.8	64.6	64.5	64.4	64.3	64.3	64.2	64.2	64.1	64.1	64.1	64.0	64.0	64.1	64.0	64.0	64.1	64.1	64.2	64.2	64.2	64.3	64.3	64.4	64.6	65.2	63.4	62.5	62.3
42	172.3	65.2	64.7	64.5	64.4	64.3	64.2	64.2	64.1	64.1	64.1	64.0	64.0	63.9	64.0	64.0	64.0	64.0	64.0	64.1	64.1	64.2	64.2	64.2	64.3	64.4	64.6	65.2	63.3	62.4	62.3
43	175.5	65.1	64.7	64.5	64.3	64.2	64.2	64.1	64.0	64.0	64.0	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.1	64.1	64.1	64.2	64.3	64.4	64.6	65.2	63.3	62.4	62.3
max		70.4	70.4	70.3	70.3	69.8	69.5	69.2	68.7	68.5	68.3	68.1	67.9	67.7	67.5	67.4	67.3	67.2	67.2	67.1	67.1	67.1	67.1	67.0	67.1	67.1	67.3	67.9	65.2	63.9	63.8

Remark:

- Acoustic Window (Baffle type) for bedroom, without SAM, -4dB(A) assumed (appendix 9)
- Acoustic Window (Baffle type) for bedroom, with SAM, -5.5dB(A) assumed (appendix 9)
- Acoustic Window (Baffle type) for master bedreeom, without SAM, -4.6dB(A) assumed (appendix 9)
- Acoustic Door (Baffle type) for living room, -4.4dB(A) assumed (appendix 9)
- Acoustic Balcony, -2dB(A) assumed (appendix 9)
- The presented predicted noise level after adopting acoustic windows / doors (baffle type) (i.e. mitigated noise level) does not necessarily represent the noise level at 1m away from the external façade, but the equivalent noise level at 1m from the external façade after accounting the reduction in noise levels inside the flat offered by the acoustic windows / doors (baffle type).

Number of																															
Noise level in dB(A)																															
<70		42	0	0	0	42	0	0	42	0	0	42	0	0	42	0	42	0	42	0	42	0	42	0	0	42	0	0	0	42	0
71		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Height of Noise Assessment	T3																							
Floor	Point (mPD)	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654
1	39.0	62.9	62.7	61.6	60.6	60.3	60.3	60.5	60.8	61.2	61.4	61.4	61.6	60.9	61.4	61.5	61.8	62.4	62.9	63.4	64.0	65.1	66.7	68.1	69.1
2	42.3	62.8	62.6	61.6	60.6	60.3	60.4	60.5	60.8	61.2	61.4	61.3	61.6	60.8	61.3	61.5	61.8	62.3	62.8	63.2	63.8	65.0	66.5	67.9	68.9
3	45.5	62.7	62.4	61.5	60.5	60.3	60.3	60.5	60.8	61.2	61.4	61.3	61.6	60.7	61.3	61.5	61.7	62.3	62.7	63.2	63.7	64.8	66.3	67.6	68.6
4	48.8	62.6	62.4	61.5	60.5	60.2	60.3	60.5	60.9	61.2	61.4	61.3	61.6	60.6	61.2	61.4	61.7	62.2	62.6	63.0	63.6	64.7	66.1	67.4	68.4
5	52.0	62.7	62.4	61.6	60.4	60.2	60.3	60.6	60.9	61.3	61.5	61.3	61.6	60.5	61.2	61.4	61.7	62.1	62.5	63.0	63.4	64.5	65.9	67.1	68.1
6	55.3	62.7	62.5	61.7	60.4	60.2	60.3	60.6	60.9	61.4	61.5	61.4	61.6	60.5	61.3	61.4	61.7	62.1	62.5	62.9	63.3	64.3	65.7	67.0	67.8
7	58.5	62.8	62.6	61.8	60.4	60.2	60.3	60.6	60.9	61.4	61.5	61.4	61.7	60.4	61.2	61.4	61.6	62.0	62.4	62.8	63.3	64.2	65.5	66.7	67.6
8	61.8	63.0	62.8	62.0	60.3	60.1	60.3	60.6	60.9	61.4	61.5	61.4	61.7	60.3	61.2	61.4	61.6	62.0	62.3	62.7	63.2	64.1	65.4	66.5	67.4
9	65.0	63.1	62.9	62.2	60.4	60.1	60.3	60.5	60.9	61.3	61.5	61.4	61.6	60.2	61.2	61.4	61.6	61.9	62.3	62.6	63.0	63.9	65.2	66.3	67.2
10	68.3	63.2	63.0	62.4	60.4	60.0	60.2	60.5	60.9	61.3	61.5	61.3	61.6	60.1	61.2	61.3	61.6	61.9	62.2	62.5	62.9	63.8	65.0	66.1	66.9
11	71.5	63.2	63.0	62.5	60.3	60.0	60.2	60.4	60.8	61.2	61.4	61.3	61.5	60.0	61.1	61.2	61.5	61.8	62.1	62.4	62.8	63.6	64.8	65.9	66.7
12	74.8	63.2	63.0	62.5	60.3	59.9	60.1	60.4	60.7	61.2	61.4	61.2	61.5	59.9	61.0	61.2	61.4	61.7	62.0	62.3	62.7	63.5	64.7	65.8	66.6
13	78.0	63.1	62.9	62.5	60.2	59.8	60.1	60.3	60.7	61.1	61.3	61.1	61.4	59.7	60.9	61.1	61.3	61.6	61.9	62.2	62.6	63.4	64.5	65.6	66.4
14	81.3	63.0	62.8	62.4	60.2	59.8	60.0	60.2	60.6	61.0	61.2	61.1	61.3	59.7	60.8	61.0	61.2	61.5	61.8	62.1	62.4	63.2	64.3	65.4	66.2
15	84.5	62.9	62.7	62.4	60.1	59.7	59.9	60.2	60.5	60.9	61.1	61.0	61.2	59.5	60.8	60.9	61.1	61.4	61.7	62.0	62.3	63.1	64.2	65.2	66.0
16	87.8	62.8	62.7	62.3	60.0	59.6	59.8	60.1	60.4	60.9	61.0	60.9	61.1	59.4	60.7	60.8	61.0	61.3	61.6	61.9	62.2	62.9	64.1	65.0	65.8
17	91.0	62.7	62.5	62.2	60.0	59.5	59.8	60.0	60.4	60.8	60.9	60.8	61.0	59.3	60.6	60.7	61.0	61.2	61.5	61.7	62.1	62.8	63.9	64.9	65.7
18	94.3	62.6	62.5	62.2	59.9	59.5	59.7	59.9	60.3	60.7	60.9	60.7	60.9	59.2	60.5	60.7	60.8	61.1	61.3	61.6	62.0	62.7	63.7	64.7	65.5
19	97.5	62.5	62.4	62.1	59.8	59.4	59.6	59.9	60.2	60.6	60.8	60.6	60.8	59.1	60.4	60.5	60.7	61.0	61.3	61.5	61.8	62.5	63.6	64.6	65.4
20	100.8																								
21	104.0	62.4	62.2	62.0	59.7	59.2	59.5	59.7	60.1	60.5	60.6	60.5	60.7	58.9	60.2	60.4	60.5	60.8	61.0	61.3	61.6	62.3	63.3	64.3	65.0
22	107.3	62.3	62.1	61.9	59.6	59.2	59.4	59.6	60.0	60.4	60.5	60.4	60.6	58.8	60.1	60.3	60.4	60.7	60.9	61.1	61.5	62.1	63.2	64.2	64.9
23	110.5	62.2	62.1	61.8	59.6	59.1	59.3	59.6	59.9	60.3	60.4	60.3	60.5	58.7	60.0	60.2	60.3	60.6	60.8	61.0	61.4	62.0	63.1	64.1	64.8
24	113.8	62.1	62.0	61.8	59.5	59.0	59.3	59.5	59.8	60.2	60.3	60.2	60.4	58.6	59.9	60.1	60.2	60.5	60.7	60.9	61.3	61.9	63.0	63.9	64.7
25	117.0	62.1	61.9	61.7	59.4	59.0	59.2	59.4	59.8	60.1	60.3	60.1	60.3	58.5	59.8	60.0	60.2	60.4	60.6	60.8	61.2	61.8	62.8	63.8	64.5
26	120.3	62.0	61.8	61.7	59.4	58.9	59.2	59.4	59.7	60.1	60.2	60.0	60.2	58.4	59.8	59.9	60.1	60.3	60.5	60.7	61.0	61.7	62.7	63.7	64.4
27	123.5	62.0	61.8	61.6	59.3	58.9	59.1	59.3	59.6	60.0	60.1	60.0	60.1	58.3	59.7	59.8	59.9	60.2	60.4	60.6	60.9	61.6	62.6	63.5	64.3
28	126.8	61.9	61.7	61.6	59.3	58.8	59.0	59.3	59.6	59.9	60.0	59.8	60.1	58.2	59.6	59.7	59.9	60.1	60.3	60.5	60.9	61.5	62.5	63.4	64.1
29	130.0	61.9	61.7	61.5	59.2	58.8	59.0	59.2	59.5	59.9	59.9	59.8	60.0	58.1	59.5	59.6	59.8	60.0	60.2	60.4	60.8	61.4	62.4	63.3	64.0
30	133.3	61.9	61.6	61.5	59.2	58.8	58.9	59.2	59.4	59.8	59.9	59.7	59.9	58.0	59.4	59.6	59.7	59.9	60.1	60.3	60.7	61.3	62.3	63.3	63.9
31	136.5	61.8	61.6	61.4	59.2	58.7	58.9	59.1	59.4	59.7	59.8	59.6	59.8	57.9	59.3	59.5	59.6	59.9	60.1	60.2	60.6	61.2	62.2	63.1	63.8
32	139.8	61.8	61.5	61.4	59.1	58.7	58.9	59.0	59.3	59.6	59.7	59.6	59.7	57.9	59.2	59.4	59.5	59.8	60.0	60.2	60.4	61.1	62.1	63.0	63.7
33	143.0	61.7	61.5	61.3	59.1	58.6	58.8	59.0	59.2	59.6	59.6	59.5	59.7	57.8	59.2	59.3	59.4	59.7	59.9	60.1	60.4	61.0	62.0	62.9	63.6
34	146.3	61.7	61.4	61.3	59.0	58.6	58.7	58.9	59.2	59.5	59.6	59.4	59.6	57.7	59.1	59.2	59.4	59.6	59.8	60.0	60.3	60.9	61.9	62.8	63.5
35	149.5	61.7	61.4	61.3	59.0	58.5	58.7	58.9	59.1	59.4	59.5	59.3	59.5	57.6	59.0	59.1	59.3	59.5	59.7	59.9	60.2	60.8	61.8	62.7	63.4
36	152.8	61.7	61.4	61.2	59.0	58.5	58.6	58.8	59.1	59.3	59.4	59.3	59.4	57.6	59.0	59.1	59.2	59.4	59.7	59.8	60.1	60.8	61.7	62.6	63.3
37	156.0	61.6	61.3	61.2	58.9	58.4	58.6	58.8	59.0	59.3	59.4	59.2	59.3	57.5	58.9	59.0	59.1	59.4	59.6	59.7	60.0	60.7	61.7	62.5	63.2
38	159.3	61.6	61.3	61.1	58.9	58.4	58.5	58.7	58.9	59.2	59.3	59.1	59.3	57.4	58.8	58.9	59.1	59.3	59.5	59.7	59.9	60.6	61.6	62.5	63.1
39	162.5	61.6	61.3	61.1	58.8	58.3	58.5	58.7	58.9	59.2	59.2	59.0	59.2	57.3	58.7	58.9	59.0	59.2	59.4	59.6	59.9	60.5	61.5	62.4	63.0
40	165.8	61.6	61.3	61.1	58.8	58.3	58.4	58.6	58.8	59.1	59.2	59.0	59.2	57.3	58.7	58.8	58.9	59.2	59.3	59.5	59.8	60.5	61.4	62.3	63.0
41	169.0	61.6	61.3	61.0	58.8	58.2	58.4	58.5	58.8	59.0	59.1	58.9	59.1	57.2	58.6	58.8	58.9	59.1	59.3	59.4	59.7	60.4	61.3	62.2	62.9
42	172.3	61.5	61.2	61.0	58.7	58.2	58.4	58.5	58.7	59.0	59.0	58.9	59.1	57.1	58.6	58.7	58.8	59.0	59.2	59.4	59.7	60.3	61.3	62.1	62.8
43	175.5	61.5	61.2	61.0	58.7	58.2	58.3	58.5	58.7	58.9	59.0	58.9	59.0	57.1	58.5	58.7	58.8	59.0	59.1	59.4	59.7	60.3	61.2	62.1	62.7
max		63.2	63.0	62.5	60.6	60.3	60.4	60.6	60.9	61.4	61.5	61.4	61.7	60.9	61.4	61.5	61.8	62.4	62.9	63.4	64.0	65.1	66.7	68.1	69.1
Number of I																									
Noise level in dB(A)																									
<70		0	42	0	0	0	42	0	42	0	42	0	42	0	0	42	0	0	42	0	0	42	0	0	42
71		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

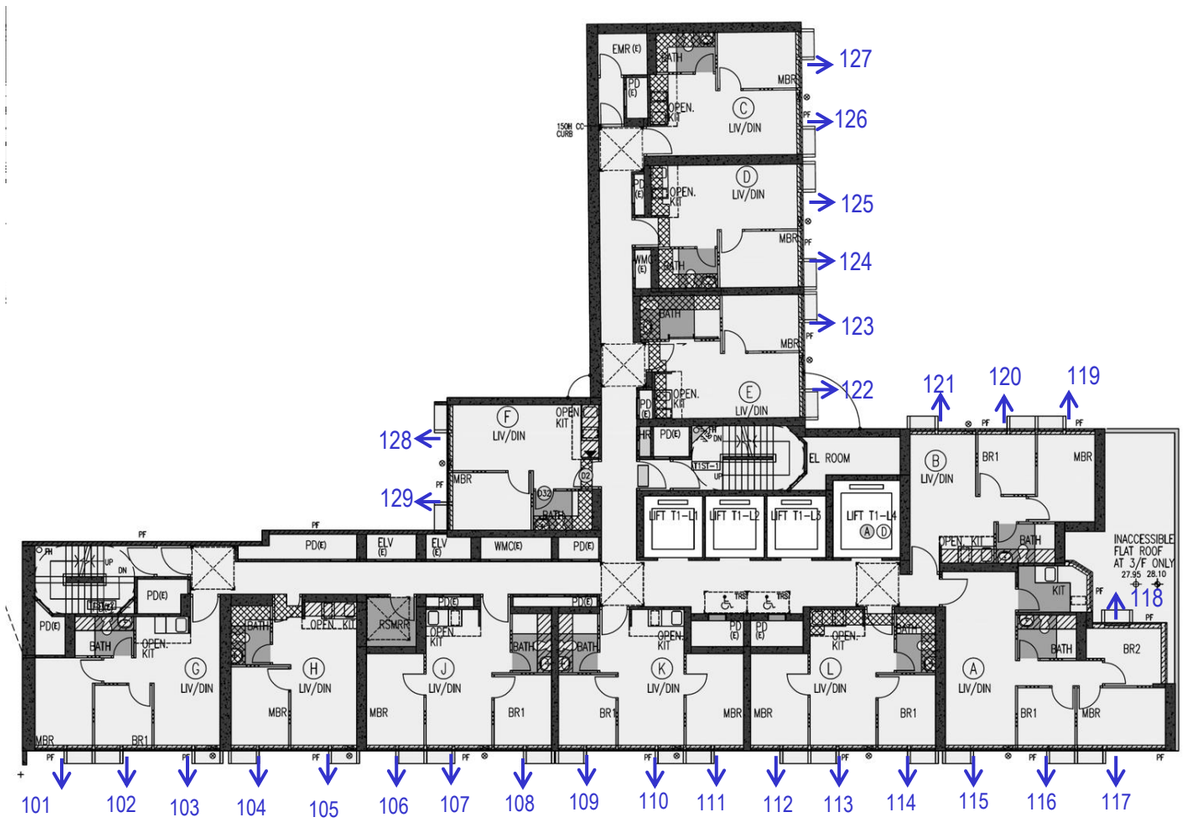
	Height of Noise Assessment																														
															T5																
Floor	Point (mPD)	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730
1	39.0	68.0	68.1	68.1	68.2	68.1	68.2	68.2	68.3	68.3	68.4	68.5	68.5	68.6	68.8	68.9	69.1	69.2	68.8	69.1	69.2	69.3	52.3	52.7	53.1	53.4	59.2	59.0	58.3	58.3	58.2
2	42.3	67.8	68.0	68.0	68.1	68.0	68.1	68.1	68.2	68.3	68.3	68.5	68.5	68.6	68.7	68.9	69.1	69.2	68.8	69.1	69.2	69.2	52.3	52.7	53.0	53.4	59.5	59.5	59.0	59.1	59.1
3	45.5	67.7	67.9	67.9	68.0	67.9	68.0	68.0	68.2	68.2	68.3	68.5	68.5	68.6	68.7	68.9	69.1	69.2	68.8	69.1	69.2	69.2	52.2	52.6	53.0	53.4	59.6	59.6	59.2	59.4	59.5
4	48.8	67.7	67.8	67.9	68.0	67.9	68.0	68.1	68.2	68.2	68.4	68.5	68.6	68.7	68.8	68.9	69.1	69.2	68.8	69.1	69.2	69.2	52.2	52.6	53.0	53.3	59.6	59.6	59.3	59.5	59.6
5	52.0	67.7	67.8	67.9	68.0	68.0	68.1	68.1	68.2	68.3	68.4	68.6	68.6	68.7	68.8	68.9	69.1	69.2	68.7	69.0	69.1	69.1	52.1	52.5	52.9	53.2	59.5	59.6	59.2	59.5	59.6
6	55.3	67.7	67.9	68.0	68.1	68.0	68.1	68.1	68.2	68.3	68.4	68.5	68.5	68.6	68.7	68.8	69.0	69.0	68.6	68.9	68.9	68.9	52.1	52.5	52.8	53.2	59.4	59.4	59.1	59.4	59.5
7	58.5	67.8	67.9	67.9	68.0	68.0	68.1	68.1	68.2	68.2	68.3	68.4	68.5	68.5	68.6	68.7	68.9	68.9	68.5	68.7	68.8	68.8	52.1	52.4	52.8	53.1	59.3	59.3	59.0	59.3	59.4
8	61.8	67.7	67.8	67.8	67.9	67.9	68.0	68.0	68.1	68.1	68.2	68.3	68.3	68.4	68.5	68.6	68.7	68.8	68.4	68.6	68.7	68.7	52.0	52.4	52.8	53.1	59.2	59.2	58.9	59.2	59.3
9	65.0	67.6	67.7	67.8	67.8	67.8	67.9	67.9	68.0	68.0	68.1	68.2	68.2	68.3	68.4	68.5	68.7	68.7	68.3	68.5	68.6	68.6	51.9	52.3	52.7	53.0	59.1	59.1	58.8	59.1	59.2
10	68.3	67.5	67.6	67.6	67.7	67.7	67.7	67.8	67.9	67.9	68.0	68.1	68.1	68.2	68.3	68.4	68.6	68.6	68.2	68.4	68.5	68.4	51.9	52.3	52.6	52.9	59.0	59.0	58.7	59.0	59.1
11	71.5	67.4	67.5	67.5	67.6	67.6	67.6	67.7	67.8	67.8	67.9	68.0	68.0	68.1	68.2	68.3	68.5	68.5	68.1	68.3	68.3	68.3	51.8	52.2	52.6	52.9	58.9	58.9	58.6	58.9	59.0
12	74.8	67.3	67.4	67.4	67.5	67.5	67.5	67.6	67.7	67.7	67.8	67.9	67.9	68.0	68.1	68.2	68.4	68.4	68.0	68.2	68.2	68.2	51.8	52.1	52.5	52.8	58.7	58.8	58.5	58.8	59.0
13	78.0	67.2	67.3	67.3	67.4	67.3	67.4	67.4	67.6	67.6	67.7	67.8	67.9	68.0	68.0	68.1	68.3	68.3	67.9	68.0	68.1	68.0	51.7	52.1	52.4	52.8	58.6	58.7	58.4	58.7	58.9
14	81.3	67.1	67.2	67.2	67.3	67.3	67.3	67.4	67.5	67.5	67.6	67.7	67.8	67.9	68.0	68.0	68.2	68.2	67.8	67.9	68.0	67.9	51.7	52.0	52.4	52.7	58.5	58.6	58.3	58.6	58.8
15	84.5	67.0	67.1	67.1	67.2	67.2	67.2	67.3	67.4	67.5	67.6	67.7	67.7	67.8	67.9	68.0	68.1	68.1	67.7	67.8	67.9	67.8	51.6	51.9	52.3	52.6	58.4	58.5	58.2	58.4	58.6
16	87.8	66.8	67.0	67.0	67.1	67.1	67.1	67.2	67.3	67.4	67.5	67.6	67.6	67.7	67.8	67.9	68.0	68.0	67.6	67.7	67.8	67.7	51.6	51.9	52.2	52.6	58.3	58.4	58.0	58.3	58.5
17	91.0	66.8	66.9	66.9	67.0	67.0	67.1	67.1	67.3	67.3	67.4	67.5	67.6	67.6	67.7	67.8	67.9	67.9	67.5	67.6	67.7	67.6	51.5	51.8	52.2	52.5	58.2	58.3	57.9	58.2	58.5
18	94.3	66.7	66.8	66.8	66.9	66.9	67.0	67.1	67.2	67.2	67.3	67.5	67.5	67.6	67.6	67.7	67.8	67.8	67.4	67.5	67.6	67.5	51.5	51.8	52.1	52.4	58.1	58.1	57.8	58.1	58.4
19	97.5	66.6	66.7	66.8	66.8	66.9	66.9	67.0	67.1	67.2	67.3	67.4	67.4	67.5	67.5	67.6	67.7	67.7	67.3	67.4	67.5	67.4	51.4	51.7	52.1	52.4	58.0	58.0	57.7	58.0	58.2
20	100.8																														
21	104.0	66.5	66.6	66.6	66.7	66.7	66.8	66.9	67.0	67.0	67.1	67.2	67.2	67.3	67.3	67.4	67.5	67.5	67.1	67.2	67.3	67.3	51.3	51.6	51.9	52.2	57.8	57.8	57.5	57.8	58.0
22	107.3	66.5	66.5	66.6	66.7	66.7	66.7	66.8	67.0	67.0	67.1	67.2	67.2	67.2	67.3	67.4	67.4	67.5	67.0	67.1	67.2	67.1	51.2	51.5	51.9	52.2	57.7	57.7	57.4	57.7	57.9
23	110.5	66.4	66.5	66.5	66.6	66.6	66.7	66.8	66.9	66.9	67.0	67.1	67.1	67.1	67.2	67.3	67.3	67.4	66.9	67.1	67.1	67.1	51.2	51.5	51.8	52.1	57.6	57.6	57.3	57.6	57.8
24	113.8	66.3	66.4	66.4	66.5	66.6	66.6	66.7	66.8	66.8	66.9	67.0	67.0	67.1	67.1	67.2	67.3	67.3	66.8	67.0	67.0	66.9	51.1	51.5	51.8	52.1	57.5	57.5	57.2	57.5	57.7
25	117.0	66.3	66.4	66.4	66.5	66.5	66.6	66.6	66.8	66.8	66.9	66.9	67.0	67.0	67.1	67.1	67.2	67.2	66.7	66.9	66.9	66.9	51.1	51.4	51.8	52.1	57.5	57.5	57.1	57.4	57.6
26	120.3	66.2	66.4	66.4	66.5	66.5	66.5	66.6	66.7	66.7	66.8	66.8	66.9	66.9	67.0	67.0	67.1	67.1	66.6	66.8	66.8	66.8	51.1	51.4	51.8	52.1	57.4	57.4	57.0	57.3	57.5
27	123.5	66.2	66.3	66.3	66.4	66.4	66.5	66.5	66.6	66.6	66.7	66.8	66.8	66.8	66.9	67.0	67.0	67.0	66.6	66.7	66.7	66.7	51.1	51.4	51.8	52.3	57.3	57.3	56.9	57.2	57.4
28	126.8	66.1	66.3	66.3	66.3	66.4	66.4	66.4	66.6	66.6	66.6	66.7	66.7	66.8	66.8	66.9	66.9	67.0	66.5	66.6	66.7	66.6	51.2	51.5	51.8	52.3	57.2	57.2	56.8	57.2	57.4
29	130.0	66.1	66.2	66.2	66.3	66.3	66.3	66.4	66.5	66.5	66.6	66.7	66.7	66.7	66.7	66.8	66.9	66.9	66.4	66.5	66.5	66.5	51.3	51.6	52.0	52.4	57.2	57.1	56.8	57.1	57.3
30	133.3	66.1	66.2	66.2	66.2	66.2	66.3	66.3	66.4	66.4	66.5	66.6	66.6	66.7	66.7	66.8	66.8	66.8	66.3	66.4	66.4	66.4	51.4	51.8	52.2	52.6	57.1	57.1	56.7	57.0	57.3
31	136.5	66.0	66.1	66.1	66.2	66.2	66.2	66.3	66.4	66.4	66.4	66.5	66.5	66.6	66.6	66.7	66.7	66.7	66.2	66.3	66.4	66.3	51.7	52.2	52.6	52.8	57.1	57.1	56.7	57.0	57.2
32	139.8	66.0	66.1	66.1	66.2	66.1	66.2	66.2	66.3	66.3	66.4	66.4	66.5	66.5	66.5	66.6	66.6	66.6	66.1	66.3	66.3	66.2	52.2	52.8	53.3	53.2	57.1	57.1	56.7	57.0	57.2
33	143.0	65.9	66.0	66.0	66.1	66.1	66.1	66.1	66.2	66.2	66.3	66.4	66.4	66.4	66.5	66.5	66.6	66.6	66.1	66.2	66.2	66.1	52.7	53.5	54.0	53.9	57.1	57.1	56.7	57.0	57.2
34	146.3	65.9	66.0	66.0	66.0	66.0	66.0	66.1	66.2	66.2	66.2	66.3	66.3	66.4	66.4	66.4	66.5	66.5	66.0	66.1	66.1	66.1	53.5	54.3	54.8	54.6	57.2	57.1	56.8	57.0	57.2
35	149.5	65.8	65.9	65.9	65.9	66.0	66.0	66.0	66.1	66.1	66.2	66.3	66.3	66.3	66.3	66.4	66.4	66.4	65.9	66.0	66.0	66.0	54.4	55.0	55.2	55.3	57.2	57.2	56.8	57.0	57.2
36	152.8	65.8	65.9	65.8	65.9	65.9	65.9	65.9	66.1	66.1	66.1	66.2	66.2	66.2	66.3	66.3	66.4	66.3	65.8	65.9	66.0	65.9	55.0	55.5	55.5	55.7	57.3	57.2	56.9	57.1	57.3
37	156.0	65.7	65.8	65.8	65.8	65.8	65.9	65.9	66.0	66.0	66.1	66.1	66.1	66.2	66.2	66.2	66.3	66.3	65.8	65.9	65.9	65.8	55.3	55.8	55.7	56.0	57.4	57.3	57.0	57.2	57.4
38	159.3	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.9	65.9	66.0	66.1	66.1	66.1	66.1	66.2	66.2	66.2	65.7	65.8	65.8	65.8	55.5	56.0	56.0	56.2	57.4	57.4	57.0	57.3	57.4
39	162.5	65.6	65.7	65.7	65.8	65.8	65.8	65.8	65.9	65.9	65.9	66.0	66.0	66.0	66.1	66.1	66.1	66.1	65.6	65.7	65.8	65.7	55.7	56.2	56.2	56.4	57.5	57.4	57.1	57.4	57.5
40	165.8	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.9	66.0	65.9	66.0	66.0	66.0	66.1	66.1	65.6	65.6	65.7	65.7	55.9	56.3	56.3	56.6	57.6	57.5	57.2	57.4	57.6
41	169.0	65.5	65.6	65.6	65.7	65.6	65.7	65.7	65.8	65.8	65.8	65.9	65.9	65.9	65.9	66.0	66.0	66.0	65.5	65.6	65.6	65.6	56.0	56.5	56.4	56.6	57.7	57.5	57.3	57.6	57.7
42	172.3	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.7	65.7	65.8	65.8	65.8	65.9	65.9	65.9	66.0	65.9	65.4	65.5	65.6	65.5	56.2	56.6	56.5	56.8	57.7	57.6	57.3	57.6	57.8
43	175.5	65.4	65.5	65.5	65.5	65.5	65.6	65.6	65.7	65.7	65.7	65.8	65.8	65.8	65.8	65.9	65.9	65.9	65.4	65.5	65.5	65.5	56.4	56.8	56.6	56.9	57.8	57.7	57.4	57.6	57.8
max		68.0	68.1	68.1	68.2	68.1	68.2	68.2	68.3	68.3	68.4	68.6	68.6	68.7	68.8	68.9	69.1	69.2	68.8	69.1	69.2	69.3	56.4	56.8	56.6	56.9	59.6	59.6	59.3	59.5	59.6
Number of I																															
Noise level in dB(A)																															
<70		0	0	42	0	42	0	0	42	0	0	42	0	0	42	0	0	42	0	0	0	42	0	42	0	42	0	42	0	42	0
71		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Height of Noise Assessment																
		T5															
Floor	Point (mPD)	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746
1	39.0	58.1	61.1	61.1	60.8	60.9	62.3	62.3	62.1	62.0	62.0	62.0	61.8	61.8	61.8	62.1	63.4
2	42.3	59.1	61.0	61.0	60.7	60.8	62.2	62.2	62.0	61.9	61.9	62.0	61.8	61.8	61.7	62.0	63.3
3	45.5	59.5	61.0	61.0	60.7	60.7	62.1	62.1	61.9	61.8	61.8	61.9	61.7	61.7	61.6	61.9	63.2
4	48.8	59.7	60.9	60.9	60.6	60.6	62.1	61.9	61.8	61.7	61.7	61.8	61.6	61.6	61.5	61.8	63.1
5	52.0	59.7	60.8	60.8	60.5	60.5	62.0	61.9	61.7	61.7	61.6	61.7	61.5	61.5	61.4	61.7	63.0
6	55.3	59.7	60.7	60.7	60.4	60.5	61.9	61.8	61.7	61.6	61.5	61.6	61.4	61.4	61.3	61.6	62.8
7	58.5	59.6	60.6	60.7	60.3	60.4	61.8	61.7	61.5	61.5	61.5	61.5	61.3	61.3	61.2	61.5	62.7
8	61.8	59.5	60.6	60.6	60.3	60.3	61.7	61.6	61.5	61.4	61.4	61.4	61.2	61.2	61.1	61.4	62.6
9	65.0	59.4	60.5	60.6	60.2	60.3	61.6	61.5	61.4	61.3	61.3	61.3	61.1	61.1	61.0	61.3	62.5
10	68.3	59.3	60.5	60.5	60.1	60.2	61.5	61.4	61.3	61.2	61.2	61.2	61.1	61.0	60.9	61.2	62.4
11	71.5	59.2	60.4	60.4	60.1	60.1	61.4	61.3	61.2	61.1	61.1	61.1	61.0	60.9	60.8	61.1	62.3
12	74.8	59.1	60.3	60.4	60.0	60.0	61.3	61.2	61.1	61.1	61.0	61.1	60.9	60.9	60.7	61.0	62.1
13	78.0	59.0	60.3	60.3	59.9	59.9	61.3	61.1	61.0	60.9	60.9	61.0	60.8	60.8	60.6	60.9	62.0
14	81.3	58.9	60.2	60.2	59.8	59.8	61.1	61.0	60.9	60.9	60.8	60.9	60.7	60.7	60.6	60.8	61.9
15	84.5	58.8	60.1	60.1	59.7	59.8	61.1	60.9	60.8	60.8	60.7	60.8	60.6	60.6	60.4	60.7	61.8
16	87.8	58.6	60.0	60.0	59.7	59.7	61.0	60.8	60.7	60.7	60.7	60.7	60.5	60.5	60.4	60.6	61.7
17	91.0	58.5	59.9	59.9	59.6	59.6	60.9	60.8	60.7	60.6	60.6	60.6	60.4	60.4	60.3	60.5	61.6
18	94.3	58.4	59.9	59.9	59.5	59.5	60.8	60.6	60.6	60.5	60.5	60.5	60.3	60.3	60.2	60.4	61.5
19	97.5	58.3	59.8	59.8	59.4	59.4	60.7	60.6	60.5	60.4	60.4	60.5	60.3	60.2	60.1	60.3	61.4
20	100.8																
21	104.0	58.1	59.6	59.6	59.2	59.2	60.5	60.4	60.3	60.3	60.2	60.3	60.1	60.1	59.9	60.2	61.2
22	107.3	58.0	59.5	59.5	59.1	59.1	60.4	60.3	60.2	60.2	60.2	60.2	60.0	60.0	59.8	60.1	61.1
23	110.5	57.9	59.4	59.4	59.0	59.1	60.3	60.2	60.1	60.1	60.1	60.1	59.9	59.9	59.8	60.0	61.0
24	113.8	57.8	59.4	59.3	59.0	59.0	60.3	60.1	60.1	60.0	60.0	60.0	59.9	59.8	59.7	59.9	61.0
25	117.0	57.7	59.3	59.3	58.9	58.9	60.2	60.1	60.0	60.0	59.9	60.0	59.8	59.7	59.6	59.8	60.9
26	120.3	57.6	59.2	59.2	58.8	58.8	60.1	60.0	59.9	59.9	59.9	59.9	59.7	59.7	59.5	59.8	60.8
27	123.5	57.6	59.2	59.1	58.7	58.8	60.0	59.9	59.8	59.8	59.8	59.8	59.6	59.6	59.5	59.7	60.7
28	126.8	57.5	59.1	59.1	58.7	58.7	59.9	59.9	59.8	59.7	59.7	59.7	59.6	59.5	59.4	59.6	60.6
29	130.0	57.4	59.1	59.1	58.6	58.6	59.9	59.8	59.7	59.7	59.6	59.7	59.5	59.5	59.3	59.5	60.5
30	133.3	57.3	59.2	59.1	58.7	58.6	59.8	59.7	59.6	59.6	59.6	59.6	59.4	59.4	59.2	59.5	60.5
31	136.5	57.2	59.2	59.1	58.7	58.6	59.8	59.7	59.6	59.6	59.5	59.5	59.4	59.3	59.2	59.4	60.4
32	139.8	57.3	59.2	59.1	58.7	58.6	59.8	59.7	59.6	59.5	59.5	59.5	59.3	59.3	59.1	59.4	60.3
33	143.0	57.3	59.3	59.2	58.7	58.6	59.7	59.6	59.5	59.5	59.4	59.4	59.3	59.2	59.1	59.3	60.3
34	146.3	57.3	59.4	59.2	58.7	58.6	59.7	59.6	59.5	59.4	59.4	59.4	59.2	59.2	59.0	59.3	60.2
35	149.5	57.3	59.5	59.3	58.8	58.7	59.7	59.6	59.5	59.4	59.3	59.4	59.2	59.2	59.0	59.2	60.2
36	152.8	57.4	59.6	59.4	58.9	58.8	59.8	59.6	59.5	59.4	59.3	59.3	59.2	59.1	59.0	59.2	60.1
37	156.0	57.5	59.6	59.4	59.0	58.8	59.8	59.7	59.6	59.5	59.4	59.4	59.1	59.1	59.0	59.2	60.1
38	159.3	57.5	59.7	59.5	59.0	58.9	59.8	59.7	59.6	59.5	59.4	59.4	59.1	59.1	58.9	59.1	60.1
39	162.5	57.7	59.7	59.5	59.0	58.9	59.8	59.7	59.6	59.5	59.4	59.4	59.1	59.1	58.9	59.1	60.0
40	165.8	57.7	59.7	59.5	59.0	58.9	59.8	59.7	59.6	59.5	59.4	59.4	59.1	59.1	58.9	59.1	60.0
41	169.0	57.7	59.7	59.5	59.0	58.9	59.7	59.6	59.6	59.5	59.4	59.4	59.1	59.1	58.9	59.1	60.0
42	172.3	57.8	59.7	59.5	59.0	58.9	59.7	59.6	59.6	59.5	59.4	59.3	59.1	59.0	58.9	59.1	59.9
43	175.5	57.8	59.7	59.5	59.0	58.9	59.7	59.6	59.5	59.5	59.3	59.3	59.1	59.0	58.9	59.1	59.9
max		59.7	61.1	61.1	60.8	60.9	62.3	62.3	62.1	62.0	62.0	62.0	61.8	61.8	61.8	62.1	63.4
Number of																	
Noise level in dB(A)																	
<70		42	42	0	0	0	42	0	0	42	0	0	42	0	0	0	42
71		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX 5A

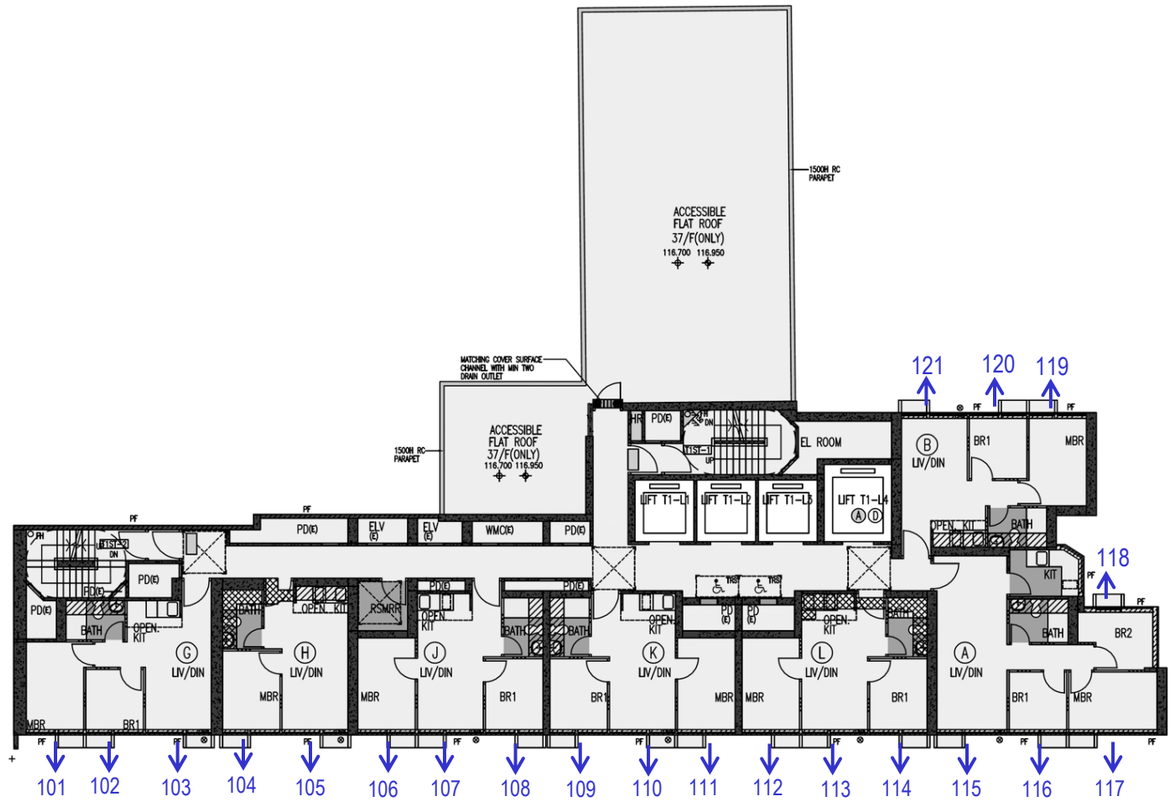
PREDICTED FAÇADE NOISE LEVELS FOR ROAD TRAFFIC NOISE FOR SITE 1
(BASE SCENARIO)

Extracted from Site 1 Approved NIA Report



3/F – 36/F

(4/F, 13/F, 14/F, 24/F & 34/F not used)



37/F – 42/F

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22544 **Proposed Composite Development at NKIL No. 6654, Shek Kip Mei, Kowloon**	**Location of Noise Assessment Point, Tower 1**	**A4-1**

Extracted from Site 1 Approved NIA Report



Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22544 **Proposed Composite Development at NKIL No. 6654, Shek Kip Mei, Kowloon**	**Location of Noise Assessment Point, Tower 2**	**A4-2**

Extracted from Site 1 Approved NIA Report

Job No. : 22544
Job Title : THSE Site 1
Scenario : Unmitigated

Percentage of flats in the development within the facade noise level

Noise level in dB(A)	No. of flats	Total No. of flats	%
<70	703	970	72.5
71	81	970	8.4
72	61	970	6.3
73	51	970	5.3
74	44	970	4.5
75	30	970	3.1
76	0	970	0.0
77	0	970	0.0
78	0	970	0.0
79	0	970	0.0
80	0	970	0.0

% OF EXCEEDANCE = 27.5%

Extracted from Site 1 Approved NIA Report

Job No. : 22544
Job Title : THSE Site 1
Scenario : Unmitigated

Floor	Height of Noise Assessment Point (mPD)	Receiver																													
		T1																													
		Flat G			Flat H			Flat J			Flat K			Flat L			Flat A				Flat B			Flat E		Flat D		Flat C		Flat F	
		101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129
3	29.5	75.2	75.1	75.0	75.0	75.0	75.0	75.0	75.1	75.1	75.1	75.1	75.2	75.1	75.1	75.1	75.1	75.0	67.5	64.2	62.2	62.3	61.8	62.1	62.3	62.7	63.9	65.0	65.1	63.9
5	32.5	74.9	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.8	74.8	74.8	74.9	74.7	74.8	74.8	74.8	74.7	67.4	64.3	62.2	62.3	61.8	62.1	62.3	62.7	64.2	65.3	65.1	63.9
6	35.6	74.5	74.4	74.4	74.3	74.3	74.4	74.4	74.4	74.4	74.5	74.5	74.5	74.4	74.4	74.4	74.4	74.4	67.2	64.2	62.2	62.3	61.8	62.1	62.3	62.6	64.3	65.5	65.0	63.8
7	38.6	74.2	74.1	74.0	74.0	74.0	74.0	74.0	74.1	74.0	74.1	74.2	74.2	74.1	74.1	74.1	74.1	74.1	67.0	64.1	62.2	62.3	61.7	62.0	62.3	62.6	64.3	65.5	65.0	63.8
8	41.7	73.9	73.8	73.7	73.7	73.7	73.7	73.7	73.7	73.8	73.8	73.8	73.9	73.7	73.8	73.8	73.8	73.8	66.8	64.0	62.2	62.2	61.7	62.0	62.3	62.6	64.2	65.4	65.0	63.8
9	44.7	73.7	73.5	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.5	73.5	73.6	73.4	73.5	73.5	73.5	73.4	66.6	63.9	62.2	62.2	61.7	62.0	62.2	62.6	64.2	65.4	65.1	64.0
10	47.8	73.4	73.2	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.2	73.2	73.3	73.1	73.2	73.2	73.2	73.2	66.4	63.9	62.2	62.2	61.7	61.9	62.2	62.5	64.1	65.3	65.3	64.3
11	50.8	73.2	73.0	72.8	72.8	72.8	72.8	72.8	72.8	72.9	72.9	73.0	73.0	72.9	72.9	72.9	72.9	72.9	66.2	63.8	62.1	62.2	61.7	61.9	62.2	62.5	64.1	65.2	65.5	64.5
12	53.9	72.9	72.7	72.5	72.5	72.5	72.5	72.5	72.6	72.6	72.7	72.7	72.7	72.6	72.6	72.6	72.6	72.6	66.0	63.7	62.1	62.1	61.6	61.9	62.2	62.5	64.0	65.2	65.5	64.5
15	56.9	72.7	72.5	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.5	72.4	72.4	72.4	72.4	72.3	65.9	63.6	62.1	62.1	61.6	61.8	62.1	62.5	64.0	65.1	65.4	64.5
16	60.0	72.4	72.2	72.1	72.0	72.0	72.1	72.1	72.1	72.1	72.2	72.2	72.2	72.1	72.1	72.1	72.2	72.1	65.7	63.6	62.0	62.1	61.6	61.8	62.1	62.4	63.9	65.1	65.4	64.4
17	63.0	72.2	72.0	71.9	71.8	71.8	71.8	71.8	71.8	71.8	71.9	71.9	72.0	71.9	71.9	71.9	71.9	71.9	65.5	63.5	62.0	62.0	61.5	61.8	62.0	62.4	63.9	65.0	65.4	64.4
18	66.1	72.0	71.8	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.7	71.7	71.8	71.7	71.7	71.7	71.7	71.7	65.4	63.4	62.0	62.0	61.5	61.7	62.0	62.3	63.8	65.0	65.4	64.4
19	69.1	71.8	71.6	71.4	71.3	71.4	71.4	71.4	71.4	71.4	71.5	71.5	71.6	71.4	71.5	71.5	71.5	71.5	65.3	63.3	61.9	62.0	61.5	61.7	62.0	62.3	63.8	64.9	65.3	64.3
20	72.2	71.6	71.4	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.3	71.3	71.3	71.2	71.3	71.3	71.3	71.3	65.1	63.2	61.9	61.9	61.4	61.7	61.9	62.3	63.7	64.8	65.3	64.3
21	75.2	71.4	71.2	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.1	71.1	71.2	71.0	71.1	71.1	71.1	71.1	65.1	63.2	61.9	61.9	61.4	61.6	61.9	62.2	63.7	64.8	65.3	64.2
22	78.3	71.3	71.0	70.9	70.8	70.8	70.8	70.8	70.8	70.9	70.9	71.0	71.0	70.9	70.9	70.9	70.9	70.9	64.9	63.1	61.9	61.9	61.3	61.6	61.9	62.2	63.6	64.7	65.2	64.2
23	81.3	71.1	70.9	70.7	70.6	70.6	70.6	70.6	70.7	70.7	70.8	70.8	70.8	70.7	70.7	70.7	70.7	70.7	64.8	63.0	61.8	61.8	61.3	61.6	61.8	62.2	63.5	64.6	65.2	64.1
25	84.4	71.0	70.7	70.6	70.4	70.5	70.5	70.5	70.5	70.5	70.6	70.6	70.6	70.5	70.6	70.6	70.6	70.5	64.7	63.0	61.8	61.8	61.3	61.5	61.8	62.1	63.5	64.6	65.1	64.0
26	87.4	70.8	70.6	70.4	70.3	70.3	70.3	70.3	70.3	70.3	70.4	70.4	70.5	70.4	70.4	70.4	70.4	70.4	64.6	62.9	61.7	61.8	61.2	61.5	61.7	62.1	63.4	64.5	65.0	64.0
27	90.4	70.7	70.4	70.3	70.2	70.2	70.1	70.2	70.2	70.2	70.3	70.3	70.3	70.2	70.2	70.2	70.3	70.2	64.4	62.8	61.7	61.7	61.2	61.4	61.7	62.0	63.4	64.4	65.0	64.0
28	93.5	70.5	70.3	70.1	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.2	70.1	70.1	70.1	70.1	70.1	64.4	62.7	61.7	61.7	61.1	61.4	61.6	62.0	63.3	64.4	64.9	63.9
29	96.5	70.4	70.2	70.0	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.0	70.0	69.9	69.9	69.9	70.0	69.9	64.3	62.7	61.6	61.6	61.1	61.3	61.6	61.9	63.3	64.3	64.9	63.9
30	99.6	70.3	70.0	69.9	69.7	69.7	69.7	69.7	69.7	69.7	69.8	69.8	69.9	69.8	69.8	69.8	69.8	69.8	64.2	62.6	61.6	61.6	61.0	61.3	61.5	61.9	63.2	64.2	64.8	63.8
31	102.7	70.2	69.9	69.7	69.6	69.6	69.6	69.6	69.6	69.6	69.7	69.7	69.7	69.6	69.7	69.7	69.7	69.7	64.1	62.5	61.5	61.5	61.0	61.2	61.5	61.8	63.1	64.2	64.8	63.8
32	105.7	70.0	69.8	69.6	69.5	69.5	69.5	69.5	69.5	69.5	69.6	69.6	69.6	69.5	69.5	69.6	69.6	69.5	64.0	62.5	61.5	61.5	60.9	61.2	61.4	61.8	63.1	64.1	64.7	63.8
33	108.8	69.9	69.7	69.5	69.4	69.4	69.3	69.4	69.4	69.4	69.5	69.4	69.5	69.4	69.4	69.4	69.4	69.4	63.9	62.4	61.4	61.4	60.9	61.1	61.4	61.7	63.0	64.0	64.7	63.7
35	111.8	69.8	69.6	69.4	69.3	69.2	69.2	69.2	69.2	69.2	69.3	69.3	69.4	69.3	69.3	69.3	69.3	69.3	63.8	62.4	61.4	61.4	60.8	61.1	61.3	61.7	63.0	64.0	64.6	63.6
36	114.9	69.6	69.4	69.2	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.2	69.1	69.2	69.2	69.2	69.2	63.7	62.3	61.3	61.3	60.8	61.0	61.3	61.6	62.9	63.9	64.5	63.6
37	117.9	69.5	69.3	69.1	69.0	69.0	69.0	69.0	69.0	69.0	69.1	69.1	69.2	69.0	69.0	69.0	69.1	69.1	63.7	62.3	61.3	61.3								
38	121.0	69.4	69.2	69.0	68.9	68.9	68.9	68.9	68.9	68.9	69.0	69.0	69.0	68.9	68.9	68.9	69.0	68.9	63.6	62.2	61.2	61.2								
39	124.0	69.3	69.1	68.9	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9	68.9	68.8	68.8	68.8	68.9	68.8	63.6	62.2	61.2	61.2								
40	127.1	69.2	69.0	68.8	68.7	68.7	68.6	68.7	68.6	68.7	68.7	68.7	68.8	68.7	68.7	68.7	68.8	68.7	63.6	62.2	61.1	61.2								
41	130.1	69.1	68.9	68.7	68.6	68.6	68.5	68.6	68.5	68.6	68.6	68.7	68.7	68.6	68.6	68.6	68.7	68.7	63.5	62.3	61.1	61.1								
42	133.2	69.0	68.8	68.6	68.5	68.5	68.5	68.5	68.5	68.5	68.6	68.6	68.6	68.5	68.5	68.6	68.6	68.5	63.5	62.3	61.1	61.1								
max		75.2	75.1	75.0	75.0	75.0	75.0	75.0	75.1	75.1	75.1	75.1	75.2	75.1	75.1	75.1	75.1	75.0	67.5	64.3	62.2	62.3	61.8	62.1	62.3	62.7	64.3	65.5	65.5	64.5

Number of flats within the noise level

Noise level in dB(A)	Number of flats																													
<70	13	0	0	0	16	16	0	0	0	0	16	15	0	0	16	0	0	0	35	0	0	0	29	0	29	0	29	29	0
71	7	0	0	0	6	6	0	0	0	0	5	6	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	5	0	0	0	4	4	0	0	0	0	5	4	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	4	0	0	0	4	4	0	0	0	0	3	4	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	3	0	0	0	3	3	0	0	0	0	3	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	3	0	0	0	2	2	0	0	0	0	3	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Extracted from Site 1 Approved NIA Report

Floor	Height of Noise Assessment Point (mPD)	Flat R			Flat Q			Flat P			Flat N		Flat M		Flat L		Flat K		
		201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218
3	29.2	75.1	75.1	75.1	75.1	75.1	75.0	75.1	75.0	75.0	75.0	74.9	74.9	74.9	74.9	74.9	75.0	75.0	75.2
5	32.2	74.8	74.8	74.8	74.7	74.7	74.7	74.7	74.7	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.7	74.7	74.9
6	35.2	74.4	74.5	74.4	74.4	74.4	74.4	74.4	74.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.4	74.6
7	38.2	74.2	74.1	74.1	74.1	74.1	74.1	74.1	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.1	74.3
8	41.2	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.8	73.8	74.0
9	44.2	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.5	73.5	73.8
10	47.2	73.2	73.2	73.2	73.2	73.2	73.2	73.3	73.2	73.2	73.2	73.1	73.1	73.2	73.1	73.2	73.2	73.3	73.5
11	50.2	73.0	73.0	73.0	73.0	73.0	72.9	73.0	72.9	72.9	72.9	72.9	72.8	72.9	72.9	72.9	73.0	73.0	73.2
12	53.2	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.6	72.6	72.6	72.7	72.7	72.8	73.0
15	56.2	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.5	72.5	72.5	72.8
16	59.2	72.2	72.2	72.2	72.2	72.3	72.3	72.3	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.3	72.3	72.6
17	62.2	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	71.9	72.0	72.0	72.0	72.1	72.1	72.4
18	65.2	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.7	71.8	71.8	71.8	71.9	71.9	72.2
19	68.2	71.6	71.6	71.6	71.6	71.6	71.6	71.7	71.6	71.6	71.6	71.6	71.5	71.6	71.6	71.6	71.7	71.7	72.0
20	71.2	71.4	71.4	71.4	71.4	71.4	71.4	71.5	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.5	71.5	71.6	71.8
21	74.2	71.2	71.2	71.2	71.2	71.3	71.2	71.3	71.3	71.2	71.2	71.2	71.2	71.2	71.2	71.3	71.3	71.4	71.7
22	77.2	71.1	71.0	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.0	71.0	71.0	71.0	71.1	71.1	71.2	71.5
23	80.2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.0	71.0	71.3
25	83.2	70.7	70.7	70.8	70.7	70.8	70.8	70.7	70.7	70.7	70.7	70.7	70.7	70.8	70.7	70.8	70.8	70.9	71.1
26	86.2	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.5	70.6	70.6	70.6	70.7	70.7	71.0
27	89.2	70.4	70.4	70.4	70.4	70.4	70.4	70.5	70.4	70.4	70.4	70.4	70.4	70.5	70.4	70.5	70.5	70.6	70.9
28	92.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.4	70.5	70.7
29	95.2	70.1	70.1	70.1	70.1	70.2	70.1	70.2	70.2	70.1	70.1	70.1	70.1	70.2	70.2	70.2	70.3	70.3	70.6
30	98.2	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.2	70.5
31	101.2	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.0	70.0	70.1	70.3
32	104.2	69.7	69.7	69.7	69.7	69.8	69.7	69.8	69.8	69.8	69.8	69.8	69.7	69.8	69.8	69.8	69.9	70.0	70.2
33	107.2	69.6	69.6	69.6	69.6	69.7	69.7	69.7	69.6	69.6	69.6	69.6	69.6	69.7	69.7	69.7	69.8	69.9	70.1
35	110.2	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.6	69.6	69.6	69.7	69.7	70.0
36	113.2	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.5	69.4	69.5	69.6	69.6	69.9
37	116.2																		
38	119.2																		
39	122.2																		
40	125.2																		
41	128.2																		
42	131.2																		
max		75.1	75.1	75.1	75.1	75.1	75.0	75.1	75.0	75.0	75.0	74.9	74.9	74.9	74.9	74.9	75.0	75.0	75.2
Number of f																			
Noise level in dB(A)																			
<70		0	0	9	9	0	0	8	0	0	9	0	0	8	0	8	0	0	5
71		0	0	6	6	0	0	6	0	0	6	0	0	7	0	6	0	0	7
72		0	0	4	4	0	0	5	0	0	5	0	0	5	0	5	0	0	6
73		0	0	4	4	0	0	4	0	0	4	0	0	4	0	5	0	0	4
74		0	0	4	4	0	0	4	0	0	3	0	0	3	0	3	0	0	4
75		0	0	2	2	0	0	2	0	0	2	0	0	2	0	2	0	0	3
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Floor	Height of Noise Assessment Point (mPD)	T2													
		Flat S		Flat T		Flat U		Flat V		Flat W		Flat A			
		219	220	221	222	223	224	225	226	227	228	229	230	231	232
3	29.2	70.8	67.6	68.5	68.1	67.5	67.0	66.3	65.7	65.3	65.2	65.4	67.2	67.5	68.5
5	32.2	70.5	67.5	68.4	68.1	67.6	67.3	66.7	66.4	66.2	66.0	66.1	67.2	67.4	68.4
6	35.2	70.3	67.3	68.2	67.9	67.5	67.2	66.8	66.5	66.3	66.3	66.5	67.1	67.4	68.4
7	38.2	70.1	67.1	68.1	67.8	67.4	67.1	66.7	66.5	66.4	66.4	66.6	67.1	67.3	68.3
8	41.2	69.9	66.9	67.9	67.6	67.2	67.0	66.6	66.4	66.3	66.4	66.6	67.0	67.3	68.2
9	44.2	69.7	66.7	67.7	67.5	67.1	66.8	66.5	66.3	66.2	66.3	66.6	67.0	67.2	68.2
10	47.2	69.4	66.5	67.5	67.3	67.0	66.7	66.4	66.2	66.2	66.2	66.5	67.0	67.2	68.1
11	50.2	69.2	66.3	67.3	67.1	66.8	66.6	66.2	66.1	66.1	66.2	66.5	66.9	67.2	68.1
12	53.2	69.0	66.1	67.1	67.0	66.6	66.4	66.1	66.0	66.0	66.1	66.5	66.9	67.1	68.0
15	56.2	68.8	66.0	67.0	66.8	66.5	66.3	66.0	65.9	66.0	66.1	66.4	66.9	67.1	68.0
16	59.2	68.6	65.8	66.8	66.6	66.4	66.2	65.9	65.9	66.0	66.1	66.5	66.9	67.1	68.0
17	62.2	68.4	65.6	66.6	66.5	66.2	66.0	65.8	65.8	65.9	66.1	66.5	66.9	67.1	67.9
18	65.2	68.3	65.5	66.5	66.3	66.1	65.9	65.7	65.7	65.9	66.1	66.5	67.0	67.1	67.9
19	68.2	68.1	65.3	66.3	66.2	65.9	65.8	65.5	65.6	65.8	66.0	66.4	66.9	67.1	67.9
20	71.2	67.9	65.2	66.2	66.1	65.8	65.6	65.4	65.5	65.7	66.0	66.4	66.9	67.1	67.8
21	74.2	67.8	65.0	66.0	65.9	65.7	65.5	65.3	65.4	65.6	65.9	66.3	66.9	67.1	67.8
22	77.2	67.6	64.8	65.9	65.8	65.5	65.4	65.2	65.3	65.5	65.8	66.3	66.8	67.0	67.7
23	80.2	67.4	64.8	65.7	65.6	65.4	65.2	65.1	65.2	65.4	65.7	66.2	66.8	66.9	67.6
25	83.2	67.3	64.6	65.6	65.5	65.3	65.2	64.9	65.1	65.3	65.6	66.1	66.7	66.9	67.6
26	86.2	67.2	64.4	65.5	65.4	65.2	65.0	64.9	65.0	65.2	65.5	66.0	66.6	66.8	67.5
27	89.2	67.0	64.3	65.3	65.3	65.0	64.9	64.7	64.9	65.1	65.4	66.0	66.6	66.7	67.4
28	92.2	66.9	64.2	65.2	65.1	64.9	64.8	64.6	64.8	65.1	65.4	65.9	66.5	66.7	67.3
29	95.2	66.8	64.1	65.1	65.0	64.8	64.7	64.5	64.7	65.0	65.3	65.8	66.4	66.6	67.3
30	98.2	66.6	64.0	65.0	64.9	64.7	64.6	64.4	64.6	64.8	65.2	65.7	66.4	66.5	67.2
31	101.2	66.5	63.9	64.9	64.8	64.6	64.5	64.3	64.5	64.8	65.1	65.6	66.3	66.5	67.1
32	104.2	66.4	63.8	64.8	64.7	64.5	64.3	64.2	64.4	64.7	65.1	65.6	66.2	66.4	67.0
33	107.2	66.3	63.6	64.6	64.6	64.4	64.3	64.1	64.3	64.6	65.0	65.5	66.2	66.3	67.0
35	110.2	66.1	63.5	64.5	64.5	64.3	64.2	64.0	64.2	64.5	64.9	65.4	66.1	66.3	66.9
36	113.2	66.0	63.4	64.4	64.4	64.2	64.1	63.9	64.1	64.5	64.8	65.4	66.0	66.2	66.8
37	116.2														
38	119.2														
39	122.2														
40	125.2														
41	128.2														
42	131.2														
max		70.8	67.6	68.5	68.1	67.6	67.3	66.8	66.5	66.4	66.4	66.6	67.2	67.5	68.5
Number of f															
Noise level in dB(A)															
<70		27	0	29	0	29	0	29	0	29	0	0	0	0	29
71		2	0	0	0	0	0	0	0	0	0	0	0	0	0
72		0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Floor	Height of Noise Assessment Point (mPD)	Flat B		Flat C		Flat D		Flat E		Flat F		Flat G		Flat H		Flat J		
		233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249
3	29.2	68.1	67.4	66.8	66.6	66.3	66.1	65.9	66.2	66.5	66.8	67.0	67.1	67.3	67.5	67.9	68.4	70.2
5	32.2	68.0	67.3	66.8	66.6	66.3	66.0	65.9	66.1	66.4	66.7	66.9	67.0	67.2	67.4	67.8	68.3	70.1
6	35.2	67.9	67.2	66.7	66.5	66.2	65.9	65.8	66.1	66.3	66.6	66.8	66.9	67.1	67.3	67.7	68.1	69.9
7	38.2	67.8	67.1	66.6	66.4	66.1	65.9	65.7	66.0	66.2	66.6	66.7	66.8	67.1	67.2	67.6	68.0	69.8
8	41.2	67.8	67.1	66.6	66.3	66.0	65.8	65.7	65.9	66.2	66.5	66.7	66.8	67.0	67.1	67.5	67.9	69.6
9	44.2	67.7	67.0	66.5	66.3	66.0	65.7	65.6	65.8	66.1	66.4	66.6	66.7	66.9	67.0	67.3	67.8	69.5
10	47.2	67.6	66.9	66.4	66.2	65.9	65.6	65.5	65.7	66.0	66.3	66.5	66.6	66.8	66.9	67.2	67.7	69.3
11	50.2	67.5	66.8	66.3	66.1	65.8	65.5	65.4	65.7	65.9	66.3	66.4	66.5	66.7	66.8	67.1	67.5	69.2
12	53.2	67.4	66.7	66.2	66.0	65.7	65.4	65.3	65.6	65.9	66.2	66.3	66.4	66.6	66.7	67.0	67.4	69.0
15	56.2	67.3	66.6	66.2	65.9	65.6	65.4	65.2	65.5	65.8	66.1	66.2	66.3	66.5	66.6	66.9	67.3	68.9
16	59.2	67.2	66.6	66.1	65.8	65.5	65.3	65.2	65.4	65.7	66.0	66.2	66.2	66.4	66.5	66.8	67.2	68.7
17	62.2	67.2	66.5	66.0	65.8	65.5	65.2	65.1	65.3	65.6	65.9	66.1	66.1	66.3	66.4	66.7	67.1	68.6
18	65.2	67.1	66.4	65.9	65.7	65.4	65.1	65.0	65.3	65.5	65.9	66.0	66.1	66.2	66.3	66.6	67.0	68.5
19	68.2	67.0	66.3	65.9	65.6	65.3	65.1	64.9	65.2	65.5	65.8	65.9	66.0	66.1	66.2	66.5	66.8	68.4
20	71.2	66.9	66.2	65.8	65.5	65.2	65.0	64.9	65.1	65.4	65.7	65.8	65.9	66.0	66.1	66.4	66.7	68.2
21	74.2	66.9	66.2	65.7	65.5	65.2	64.9	64.8	65.0	65.3	65.6	65.7	65.8	65.9	66.1	66.3	66.6	68.1
22	77.2	66.8	66.1	65.6	65.4	65.1	64.8	64.7	65.0	65.2	65.5	65.7	65.7	65.9	66.0	66.2	66.5	68.0
23	80.2	66.7	66.0	65.5	65.3	65.0	64.8	64.6	64.9	65.2	65.5	65.6	65.6	65.8	65.9	66.1	66.4	67.9
25	83.2	66.6	65.9	65.4	65.2	64.9	64.7	64.5	64.8	65.1	65.4	65.5	65.5	65.7	65.8	66.0	66.3	67.8
26	86.2	66.5	65.8	65.4	65.1	64.8	64.6	64.5	64.7	65.0	65.3	65.4	65.5	65.6	65.7	65.9	66.2	67.7
27	89.2	66.4	65.7	65.3	65.1	64.7	64.5	64.4	64.6	64.9	65.2	65.3	65.4	65.5	65.6	65.8	66.1	67.5
28	92.2	66.3	65.6	65.2	65.0	64.7	64.4	64.3	64.6	64.8	65.1	65.2	65.3	65.4	65.5	65.7	66.0	67.4
29	95.2	66.2	65.6	65.1	64.9	64.6	64.3	64.2	64.5	64.8	65.1	65.2	65.2	65.3	65.4	65.6	65.9	67.3
30	98.2	66.2	65.5	65.0	64.8	64.5	64.3	64.2	64.4	64.7	65.0	65.1	65.1	65.2	65.3	65.5	65.8	67.2
31	101.2	66.1	65.4	65.0	64.7	64.4	64.2	64.1	64.3	64.6	64.9	65.0	65.0	65.1	65.2	65.4	65.7	67.1
32	104.2	66.0	65.3	64.9	64.6	64.4	64.1	64.0	64.2	64.5	64.8	64.9	64.9	65.1	65.2	65.3	65.7	67.1
33	107.2	65.9	65.2	64.8	64.6	64.3	64.1	63.9	64.2	64.4	64.7	64.8	64.9	65.0	65.1	65.2	65.5	67.0
35	110.2	65.8	65.2	64.7	64.5	64.2	64.0	63.9	64.1	64.4	64.7	64.7	64.8	64.9	65.0	65.2	65.5	66.9
36	113.2	65.8	65.1	64.6	64.4	64.1	63.9	63.8	64.0	64.3	64.6	64.7	64.7	64.8	64.9	65.1	65.4	66.8
37	116.2																	
38	119.2																	
39	122.2																	
40	125.2																	
41	128.2																	
42	131.2																	
max		68.1	67.4	66.8	66.6	66.3	66.1	65.9	66.2	66.5	66.8	67.0	67.1	67.3	67.5	67.9	68.4	70.2
Number of f																		
Noise level in dB(A)																		
<70		29	0	29	0	29	0	0	29	0	29	0	29	0	29	0	0	29
71		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX 5B

PREDICTED FAÇADE NOISE LEVELS FOR ROAD TRAFFIC NOISE FOR SITE 1
(WITH NOISE MITIGATION MEASURES)

Extracted from Site 1 Approved NIA Report

Job No. : 22544
Job Title : THSE Site 1
Scenario : With NMMs

Percentage of flats in the development within the facade noise level

Noise level in dB(A)	No. of flats	Total No. of flats	%
<70	970	970	100.0
71	0	970	0.0
72	0	970	0.0
73	0	970	0.0
74	0	970	0.0
75	0	970	0.0
76	0	970	0.0
77	0	970	0.0
78	0	970	0.0
79	0	970	0.0
80	0	970	0.0

% OF EXCEEDANCE = 0.0%

Extracted from Site 1 Approved NIA Report

Job No. : 22544
Job Title : THSE Site 1
Scenario : With NMMs

Floor	Height of Noise Assessment Point (mPD)	Receiver																													
		T1																													
		Flat G			Flat H		Flat J			Flat K			Flat L			Flat A			Flat B			Flat E		Flat D		Flat C		Flat F		
		101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	
3	29.5	70.0	70.2	69.2	70.4	69.3	69.8	69.5	69.5	69.5	69.7	69.9	70.0	69.7	69.5	68.2	70.4	69.9	67.5	64.2	62.2	62.3	61.8	62.1	62.3	62.7	63.9	65.0	65.1	63.9	
5	32.5	69.7	69.8	68.9	70.1	69.0	69.5	69.2	69.1	69.2	69.4	69.6	69.7	69.3	69.2	67.9	70.1	69.6	67.4	64.3	62.2	62.3	61.8	62.1	62.3	62.7	64.2	65.3	65.1	63.9	
6	35.6	69.3	69.5	68.6	69.7	68.6	69.2	68.9	68.8	68.8	69.1	69.3	69.3	69.0	68.8	67.5	69.7	69.3	67.2	64.2	62.2	62.3	61.8	62.1	62.3	62.6	64.3	65.5	65.0	63.8	
7	38.6	69.0	69.2	68.2	69.4	68.3	68.8	68.5	68.5	68.4	68.7	69.0	69.0	68.7	68.5	67.2	69.4	69.0	67.0	64.1	62.2	62.3	61.7	62.0	62.3	62.6	64.3	65.5	65.0	63.8	
8	41.7	68.7	68.9	67.9	69.1	68.0	68.5	68.2	68.1	68.2	68.4	68.6	68.7	68.3	68.2	66.9	69.1	68.7	66.8	64.0	62.2	62.2	61.7	62.0	62.3	62.6	64.2	65.4	65.0	63.8	
9	44.7	68.5	68.6	67.6	68.8	67.7	68.2	67.9	67.8	67.8	68.1	68.3	68.4	68.0	67.9	66.6	68.8	68.3	66.6	63.9	62.2	62.2	61.7	62.0	62.2	62.6	64.2	65.4	65.1	64.0	
10	47.8	68.2	68.3	67.3	68.5	67.4	67.9	67.6	67.5	67.5	67.8	68.0	68.1	67.7	67.6	66.3	68.5	68.1	66.4	63.9	62.2	62.2	61.7	61.9	62.2	62.5	64.1	65.3	65.3	64.3	
11	50.8	68.0	68.1	67.0	68.2	67.1	67.6	67.3	67.2	67.3	67.5	67.8	67.8	67.5	67.3	66.0	68.2	67.8	66.2	63.8	62.1	62.2	61.7	61.9	62.2	62.5	64.1	65.2	65.5	64.5	
12	53.9	67.7	67.8	66.7	67.9	66.8	67.3	67.0	67.0	67.0	67.3	67.5	67.5	67.2	67.0	65.7	67.9	67.5	66.0	63.7	62.1	62.1	61.6	61.9	62.2	62.5	64.0	65.2	65.5	64.5	
15	56.9	67.5	67.6	66.5	67.7	66.6	67.1	66.8	66.7	66.7	67.0	67.2	67.3	67.0	66.8	65.5	67.7	67.2	65.9	63.6	62.1	62.1	61.6	61.8	62.1	62.5	64.0	65.1	65.4	64.5	
16	60.0	67.2	67.3	66.3	67.4	66.3	66.9	66.6	66.5	66.5	66.8	67.0	67.0	66.7	66.5	65.2	67.5	67.0	65.7	63.6	62.0	62.1	61.6	61.8	62.1	62.4	63.9	65.1	65.4	64.4	
17	63.0	67.0	67.1	66.1	67.2	66.1	66.6	66.3	66.2	66.2	66.5	66.7	66.8	66.5	66.3	65.0	67.2	66.8	65.5	63.5	62.0	62.0	61.5	61.8	62.0	62.4	63.9	65.0	65.4	64.4	
18	66.1	66.8	66.9	65.8	67.0	65.9	66.4	66.1	66.0	66.0	66.3	66.5	66.6	66.3	66.1	64.8	67.0	66.6	65.4	63.4	62.0	62.0	61.5	61.7	62.0	62.3	63.8	65.0	65.4	64.4	
19	69.1	66.6	66.7	65.6	66.7	65.7	66.2	65.9	65.8	65.8	66.1	66.3	66.4	66.0	65.9	64.6	66.8	66.4	65.3	63.3	61.9	62.0	61.5	61.7	62.0	62.3	63.8	64.9	65.3	64.3	
20	72.2	66.4	66.5	65.4	66.6	65.5	66.0	65.7	65.6	65.6	65.9	66.1	66.1	65.8	65.7	64.4	66.6	66.2	65.1	63.2	61.9	61.9	61.4	61.7	61.9	62.3	63.7	64.8	65.3	64.3	
21	75.2	66.2	66.3	65.2	66.4	65.3	65.9	65.5	65.4	65.4	65.7	65.9	66.0	65.6	65.5	64.2	66.4	66.0	65.1	63.2	61.9	61.9	61.4	61.6	61.9	62.2	63.7	64.8	65.3	64.2	
22	78.3	66.1	66.1	65.1	66.2	65.1	65.6	65.3	65.2	65.3	65.5	65.8	65.8	65.5	65.3	64.0	66.2	65.8	64.9	63.1	61.9	61.9	61.3	61.6	61.9	62.2	63.6	64.7	65.2	64.2	
23	81.3	65.9	66.0	64.9	66.0	64.9	65.4	65.1	65.1	65.1	65.4	65.6	65.6	65.3	65.1	63.8	66.0	65.6	64.8	63.0	61.8	61.8	61.3	61.6	61.8	62.2	63.5	64.6	65.2	64.1	
25	84.4	65.8	65.8	64.8	70.4	64.8	65.3	65.0	64.9	64.9	65.2	65.4	65.4	65.1	65.0	63.7	65.9	65.4	64.7	63.0	61.8	61.8	61.3	61.5	61.8	62.1	63.5	64.6	65.1	64.0	
26	87.4	65.6	65.7	70.4	70.3	70.3	70.3	70.3	70.3	70.3	70.4	70.4	65.3	70.4	70.4	70.4	70.4	70.4	64.6	62.9	61.7	61.8	61.2	61.5	61.7	62.1	63.4	64.5	65.0	64.0	
27	90.4	65.5	70.4	70.3	70.2	70.2	70.1	70.2	70.2	70.2	70.3	70.3	70.3	70.2	70.2	70.2	70.3	70.2	64.4	62.8	61.7	61.7	61.2	61.4	61.7	62.0	63.4	64.4	65.0	64.0	
28	93.5	65.3	70.3	70.1	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.2	70.1	70.1	70.1	70.1	70.1	64.4	62.7	61.7	61.7	61.1	61.4	61.6	62.0	63.3	64.4	64.9	63.9	
29	96.5	70.4	70.2	70.0	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.0	70.0	69.9	69.9	69.9	70.0	69.9	64.3	62.7	61.6	61.6	61.1	61.3	61.6	61.9	63.3	64.3	64.9	63.9	
30	99.6	70.3	70.0	69.9	69.7	69.7	69.7	69.7	69.7	69.7	69.8	69.8	69.9	69.8	69.8	69.8	69.8	69.8	64.2	62.6	61.6	61.6	61.0	61.3	61.5	61.9	63.2	64.2	64.8	63.8	
31	102.7	70.2	69.9	69.7	69.6	69.6	69.6	69.6	69.6	69.6	69.7	69.7	69.7	69.6	69.7	69.7	69.7	69.7	64.1	62.5	61.5	61.5	61.0	61.2	61.5	61.8	63.1	64.2	64.8	63.8	
32	105.7	70.0	69.8	69.6	69.5	69.5	69.5	69.5	69.5	69.5	69.6	69.6	69.6	69.5	69.5	69.6	69.6	69.5	64.0	62.5	61.5	61.5	60.9	61.2	61.4	61.8	63.1	64.1	64.7	63.8	
33	108.8	69.9	69.7	69.5	69.4	69.4	69.3	69.4	69.4	69.4	69.5	69.4	69.5	69.4	69.4	69.4	69.4	69.4	63.9	62.4	61.4	61.4	60.9	61.1	61.4	61.7	63.0	64.0	64.7	63.7	
35	111.8	69.8	69.6	69.4	69.3	69.2	69.2	69.2	69.2	69.2	69.3	69.3	69.4	69.3	69.3	69.3	69.3	69.3	63.8	62.4	61.4	61.4	60.8	61.1	61.3	61.7	63.0	64.0	64.6	63.6	
36	114.9	69.6	69.4	69.2	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.2	69.1	69.2	69.2	69.2	69.2	63.7	62.3	61.3	61.3	60.8	61.0	61.3	61.6	62.9	63.9	64.5	63.6	
37	117.9	69.5	69.3	69.1	69.0	69.0	69.0	69.0	69.0	69.0	69.1	69.1	69.2	69.0	69.0	69.0	69.1	69.1	63.7	62.3	61.3	61.3									
38	121.0	69.4	69.2	69.0	68.9	68.9	68.9	68.9	68.9	68.9	69.0	69.0	69.0	68.9	68.9	68.9	69.0	68.9	63.6	62.2	61.2	61.2									
39	124.0	69.3	69.1	68.9	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9	68.9	68.8	68.8	68.8	68.9	68.8	63.6	62.2	61.2	61.2									
40	127.1	69.2	69.0	68.8	68.7	68.7	68.6	68.7	68.6	68.7	68.7	68.7	68.8	68.7	68.7	68.7	68.8	68.7	63.6	62.2	61.1	61.2									
41	130.1	69.1	68.9	68.7	68.6	68.6	68.5	68.6	68.5	68.6	68.6	68.7	68.7	68.6	68.6	68.6	68.7	68.7	63.5	62.3	61.1	61.1									
42	133.2	69.0	68.8	68.6	68.5	68.5	68.5	68.5	68.5	68.5	68.6	68.6	68.6	68.5	68.5	68.6	68.6	68.5	63.5	62.3	61.1	61.1									
max		70.4	70.4	70.4	70.4	70.3	70.3	70.3	70.3	70.3	70.4	70.4	70.3	70.4	70.4	70.4	70.4	70.4	67.5	64.3	62.2	62.3	61.8	62.1	62.3	62.7	64.3	65.5	65.5	64.5	

Remark:

- Acoustic Window (baffle type)
- The presented predicted noise level after adopting baffle type acoustic window system (i.e. mitigated noise level) does not necessarily represent the noise level at 1m away from the baffle type acoustic window system of the proposed development, but the equivalent noise level at 1m from the external façade after accounting the reduction in noise levels inside the flat offered by the baffle type acoustic window system.

Number of flats within the noise level

Noise level in dB(A)	Number of flats																														
<70	35	0	0	0	0	35	35	0	0	0	0	35	0	0	35	35	0	0	35	0	0	0	29	0	29	0	29	29	0	
71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Extracted from Site 1 Approved NIA Report

Floor	Height of Noise Assessment Point (mPD)	T2																																																
		Flat R			Flat Q			Flat P			Flat N		Flat M		Flat L		Flat K			Flat S		Flat T		Flat U		Flat V		Flat W		Flat A				Flat B		Flat C		Flat D		Flat E		Flat F		Flat G		Flat H		Flat J		
		201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249
3	29.2	69.9	70.2	68.8	68.8	70.2	69.8	69.9	70.1	68.8	70.4	68.4	68.4	70.3	70.3	68.4	68.7	70.1	70.0	65.6	67.6	68.5	68.1	67.5	67.0	66.3	65.7	65.3	65.2	65.4	67.2	67.5	68.5	68.1	67.4	66.8	66.6	66.3	66.1	65.9	66.2	66.5	66.8	67.0	67.1	67.3	67.5	67.9	68.4	70.2
5	32.2	69.6	69.9	68.5	68.4	69.8	69.5	69.5	69.8	68.4	70.0	68.1	68.1	70.0	70.0	68.1	68.4	69.8	69.7	65.3	67.5	68.4	68.1	67.6	67.3	66.7	66.4	66.2	66.0	66.1	67.2	67.4	68.4	68.0	67.3	66.8	66.6	66.3	66.0	65.9	66.1	66.4	66.7	66.9	67.0	67.2	67.4	67.8	68.3	70.1
6	35.2	69.2	69.6	68.1	68.1	69.5	69.2	69.2	69.5	68.1	69.7	67.8	67.8	69.7	69.7	67.8	68.0	69.5	69.4	70.3	67.3	68.2	67.9	67.5	67.2	66.8	66.5	66.3	66.3	66.5	67.1	67.4	68.4	67.9	67.2	66.7	66.5	66.2	65.9	65.8	66.1	66.3	66.6	66.8	66.9	67.1	67.3	67.7	68.1	69.9
7	38.2	69.0	69.2	67.8	67.8	69.2	68.9	68.9	69.1	67.8	69.4	67.5	67.5	69.4	69.4	67.5	67.7	69.2	69.1	70.1	67.1	68.1	67.8	67.4	67.1	66.7	66.5	66.4	66.4	66.6	67.1	67.3	68.3	67.8	67.1	66.6	66.4	66.1	65.9	65.7	66.0	66.2	66.6	66.7	66.8	67.1	67.2	67.6	68.0	69.8
8	41.2	68.6	68.9	67.5	67.5	68.9	68.6	68.6	68.8	67.5	69.1	67.2	67.2	69.1	69.1	67.2	67.5	68.9	68.8	69.9	66.9	67.9	67.6	67.2	67.0	66.6	66.4	66.3	66.4	66.6	67.0	67.3	68.2	67.8	67.1	66.6	66.3	66.0	65.8	65.7	65.9	66.2	66.5	66.7	66.8	67.0	67.1	67.5	67.9	69.6
9	44.2	68.3	68.6	67.2	67.2	68.6	68.3	68.3	68.5	67.2	68.8	66.9	66.9	68.8	68.8	66.9	67.2	68.6	68.6	69.7	66.7	67.7	67.5	67.1	66.8	66.5	66.3	66.2	66.3	66.6	67.0	67.2	68.2	67.7	67.0	66.5	66.3	66.0	65.7	65.6	65.8	66.1	66.4	66.6	66.7	66.9	67.0	67.3	67.8	69.5
10	47.2	68.0	68.3	66.9	66.9	68.3	68.0	68.1	68.3	67.0	68.6	66.6	66.6	68.6	68.5	66.7	66.9	68.4	68.3	69.4	66.5	67.5	67.3	67.0	66.7	66.4	66.2	66.2	66.2	66.5	67.0	67.2	68.1	67.6	66.9	66.4	66.2	65.9	65.6	65.5	65.7	66.0	66.3	66.5	66.6	66.8	66.9	67.2	67.7	69.3
11	50.2	67.8	68.1	66.7	66.7	68.1	67.7	67.8	68.0	66.7	68.3	66.4	66.3	68.3	68.3	66.4	66.7	68.1	68.0	69.2	66.3	67.3	67.1	66.8	66.6	66.2	66.1	66.1	66.2	66.5	66.9	67.2	68.1	67.5	66.8	66.3	66.1	65.8	65.5	65.4	65.7	65.9	66.3	66.4	66.5	66.7	66.8	67.1	67.5	69.2
12	53.2	67.5	67.8	66.4	66.4	67.8	67.5	67.5	67.8	66.5	68.1	66.2	66.1	68.0	68.0	66.2	66.4	67.9	67.8	69.0	66.1	67.1	67.0	66.6	66.4	66.1	66.0	66.0	66.1	66.5	66.9	67.1	68.0	67.4	66.7	66.2	66.0	65.7	65.4	65.3	65.6	65.9	66.2	66.3	66.4	66.6	66.7	67.0	67.4	69.0
15	56.2	67.3	67.6	66.2	66.2	67.6	67.3	67.3	67.5	66.2	67.8	65.9	65.9	67.8	67.8	66.0	66.2	67.6	67.6	68.8	66.0	67.0	66.8	66.5	66.3	66.0	65.9	66.0	66.1	66.4	66.9	67.1	68.0	67.3	66.6	66.2	65.9	65.6	65.4	65.2	65.5	65.8	66.1	66.2	66.3	66.5	66.6	66.9	67.3	68.9
16	59.2	67.0	67.3	65.9	65.9	67.4	67.1	67.1	67.3	66.0	67.6	65.7	65.7	67.6	67.6	65.7	66.0	67.4	67.4	68.6	65.8	66.8	66.6	66.4	66.2	65.9	65.9	66.0	66.1	66.5	66.9	67.1	68.0	67.2	66.6	66.1	65.8	65.5	65.3	65.2	65.4	65.7	66.0	66.2	66.2	66.4	66.5	66.8	67.2	68.7
17	62.2	66.8	67.1	65.7	65.7	67.1	66.8	66.8	67.1	65.8	67.4	65.5	65.4	67.4	67.4	65.5	65.8	67.2	67.2	68.4	65.6	66.6	66.5	66.2	66.0	65.8	65.8	65.9	66.1	66.5	66.9	67.1	67.9	67.2	66.5	66.0	65.8	65.5	65.2	65.1	65.3	65.6	65.9	66.1	66.1	66.3	66.4	66.7	67.1	68.6
18	65.2	66.6	66.9	65.5	65.5	66.9	66.6	66.6	66.9	65.6	67.2	65.3	65.2	67.2	67.2	65.3	65.6	67.0	67.0	68.3	65.5	66.5	66.3	66.1	65.9	65.7	65.7	65.9	66.1	66.5	67.0	67.1	67.9	67.1	66.4	65.9	65.7	65.4	65.1	65.0	65.3	65.5	65.9	66.0	66.1	66.2	66.3	66.6	67.0	68.5
19	68.2	66.4	66.7	65.3	65.3	66.7	66.4	66.5	66.7	65.4	67.0	65.1	65.0	67.0	67.0	65.1	65.4	66.8	66.8	68.1	65.3	66.3	66.2	65.9	65.8	65.5	65.6	65.8	66.0	66.4	66.9	67.1	67.9	67.0	66.3	65.9	65.6	65.3	65.1	64.9	65.2	65.5	65.8	65.9	66.0	66.1	66.2	66.5	66.8	68.4
20	71.2	66.2	66.5	65.1	65.1	66.5	66.2	66.3	66.5	65.2	66.8	64.9	64.9	66.8	66.8	65.0	65.2	66.7	66.6	67.9	65.2	66.2	66.1	65.8	65.6	65.4	65.5	65.7	66.0	66.4	66.9	67.1	67.8	66.9	66.2	65.8	65.5	65.2	65.0	64.9	65.1	65.4	65.7	65.8	65.9	66.0	66.1	66.4	66.7	68.2
21	74.2	66.0	66.3	64.9	64.9	66.4	66.0	66.1	66.4	65.0	66.6	64.7	64.7	66.6	66.6	64.8	65.0	66.5	66.5	67.8	65.0	66.0	65.9	65.7	65.5	65.3	65.4	65.6	65.9	66.3	66.9	67.1	67.8	66.9	66.2	65.7	65.5	65.2	64.9	64.8	65.0	65.3	65.6	65.7	65.8	65.9	66.1	66.3	66.6	68.1
22	77.2	65.9	66.1	64.7	64.7	66.2	65.9	65.9	66.2	64.9	66.5	64.5	64.5	66.4	66.4	64.6	64.8	66.3	66.3	67.6	64.8	65.9	65.8	65.5	65.4	65.2	65.3	65.5	65.8	66.3	66.8	67.0	67.7	66.8	66.1	65.6	65.4	65.1	64.8	64.7	65.0	65.2	65.5	65.7	65.7	65.9	66.0	66.2	66.5	68.0
23	80.2	65.7	66.0	64.6	64.6	66.0	65.7	65.7	66.0	64.7	66.3	64.4	64.4	66.3	66.3	64.4	64.7	66.1	66.1	67.4	64.8	65.7	65.6	65.4	65.2	65.1	65.2	65.4	65.7	66.2	66.8	66.9	67.6	66.7	66.0	65.5	65.3	65.0	64.8	64.6	64.9	65.2	65.5	65.6	65.6	65.8	65.9	66.1	66.4	67.9
25	83.2	65.5	65.8	64.5	64.4	65.9	65.6	65.5	65.8	64.5	66.1	64.2	64.2	66.2	66.1	64.3	64.5	66.0	65.9	67.3	64.6	65.6	65.5	65.3	65.2	64.9	65.1	65.3	65.6	66.1	66.7	66.9	67.6	66.6	65.9	65.4	65.2	64.9	64.7	64.5	64.8	65.1	65.4	65.5	65.5	65.7	65.8	66.0	66.3	67.8
26	86.2	65.3	65.7	64.3	64.3	65.7	65.4	65.4	65.7	64.4	66.0	64.1	64.0	66.0	66.0	64.1	64.4	65.8	65.8	67.2	64.4	65.5	65.4	65.2	65.0	64.9	65.0	65.2	65.5	66.0	66.6	66.8	67.5	66.5	65.8	65.4	65.1	64.8	64.6	64.5	64.7	65.0	65.3	65.4	65.5	65.6	65.7	65.9	66.2	67.7
27	89.2	70.4	70.4	70.4	70.4	70.4	70.4	65.3	70.4	70.4	70.4	70.4	70.4	65.9	70.4	64.0	64.2	65.7	65.7	67.0	64.3	65.3	65.3	65.0	64.9	64.7	64.9	65.1	65.4	66.0	66.6	66.7	67.4	66.4	65.7	65.3	65.1	64.7	64.5	64.4	64.6	64.9	65.2	65.3	65.4	65.5	65.6	65.8	66.1	67.5
28	92.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.4	65.6	65.5	66.9	64.2	65.2	65.1	64.9	64.8	64.6	64.8	65.1	65.4	65.9	66.5	66.7	67.3	66.3	65.6	65.2	65.0	64.7	64.4	64.3	64.6	64.8	65.1	65.2	65.3	65.4	65.5	65.7	66.0	67.4
29	95.2	70.1	70.1	70.1	70.1	70.2	70.1	70.2	70.2	70.1	70.1	70.1	70.1	70.2	70.2	70.2	70.3	70.3	65.4	66.8	64.1	65.1	65.0	64.8	64.7	64.5	64.7	65.0	65.3	65.8	66.4	66.6	67.3	66.2	65.6	65.1	64.9	64.6	64.3	64.2	64.5	64.8	65.1	65.2	65.2	65.3	65.4	65.6	65.9	67.3
30	98.2	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.2	65.3	66.6	64.0	65.0	64.9	64.7	64.6	64.4	64.6	64.8	65.2	65.7	66.4	66.5	67.2	66.2	65.5	65.0	64.8	64.5	64.3	64.2	64.4	64.7	65.0	65.1	65.1	65.2	65.3	65.5	65.8	67.2
31	101.2	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.0	70.0	70.1	70.3	66.5	63.9	64.9	64.8	64.6	64.5	64.3	64.5	64.8	65.1	65.6	66.3	66.5	67.1	66.1	65.4	65.0	64.7	64.4	64.2	64.1	64.3	64.6	64.9	65.0	65.0	65.1	65.2	65.4	65.7	67.1
32	104.2	69.7	69.7	69.7	69.7	69.8	69.7	69.8	69.8	69.8	69.8	69.8	69.7	69.8	69.8	69.8	69.9	70.0	70.2	66.4	63.8	64.8	64.7	64.5	64.3	64.2	64.4	64.7	65.1	65.6	66.2	66.4	67.0	66.0	65.3	64.9	64.6	64.4	64.1	64.0	64.2	64.5	64.8	64.9	64.9	65.1	65.2	65.3	65.7	67.1
33	107.2	69.6	69.6	69.6	69.6	69.7	69.7	69.7	69.6	69.6	69.6	69.6	69.6	69.7	69.7	69.7	69.8	69.9	70.1	66.3	63.6	64.6	64.6	64.4	64.3	64.1	64.3	64.6	65.0	65.5	66.2	66.3	67.0	65.9	65.2	64.8	64.6	64.3	64.1	63.9	64.2	64.4	64.7	64.8	64.9	65.0	65.1	65.2	65.5	67.0
35	110.2	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.6	69.6	69.6	69.7	69.7	70.0	66.1	63.5	64.5	64.5	64.3	64.2	64.0	64.2	64.5	64.9	65.4	66.1	66.3	66.9	65.8	65.2	64.7	64.5	64.2	64.0	63.9	64.1	64.4	64.7	64.7	64.8	64.9	65.0	65.2	65.5	66.9
36	113.2	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.5	69.4	69.5	69.6	69.6	69.9	66.0	63.4	64.4	64.4	64.2	64.1	63.9	64.1	64.5	64.8	65.4	66.0	66.2	66.8	65.8	65.1	64.6	64.4	64.1	63.9	63.8	64.0	64.3	64.6	64.7	64.7	64.8	64.9	65.1	65.4	66.8
37	116.2																																																	
38	119.2																																																	
39	122.2																																																	
40	125.2																																																	
41	128.2																																																	
42	131.2																																																	
max		70.4	70.4	70.4	70.4	70.4	70.4	70.3	70.4	70.4	70.4	70.4	70.4	70.3	70.4	70.3	70.4	70.3	70.3	70.3	67.6	68.5	68.1	67.6	67.3	66.8	66.5	66.4	66.4	66.6	67.2	67.5	68.5	68.1	67.4	66.8	66.6	66.3	66.1	65.9	66.2	66.5	66.8	67.0	67.1	67.3	67.5	67.9	68.4	70.2
Number of f																																																		
Noise level in dB(A)																																																		
<70		0	0	29	29	0	0	29	0	0	29	0	0	29	0	29	0	0	29	29	0	29	0	29	0	29	0	29	0	0	0	0	29	29	0	29	0	29	0	0	29	0	29	0	29	0	29	0	0	29
71		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX 6

SITE MEASUREMENTS
AND
JUSTIFICATION OF SWLs

Source ID: A (MTRC Woh Chai Street Ventilation Building)





Measurement location, A_VENT

8/F of Man Lok House





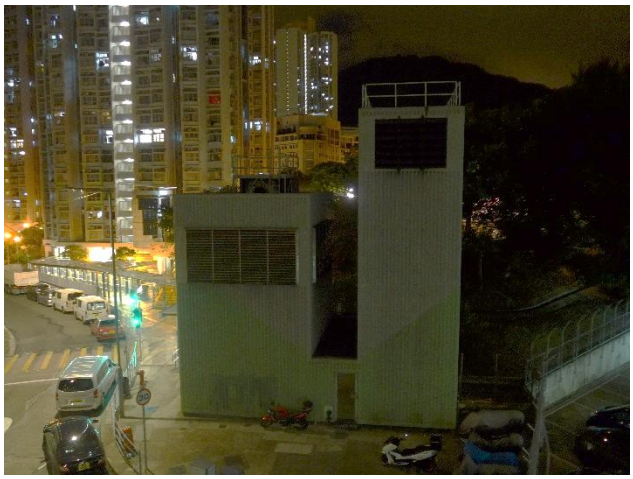


Night-time noise measurement was conducted at 8/F of Man Lok House, facing Woh Chai Street

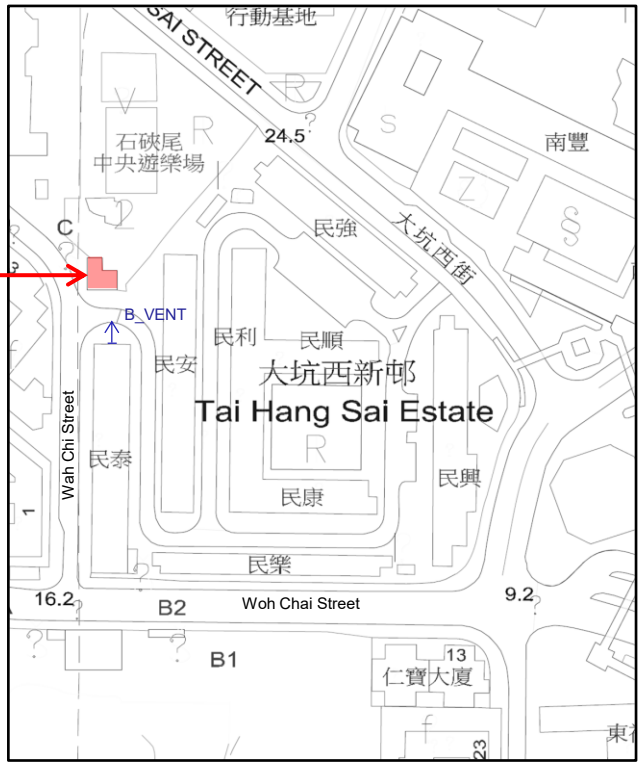
Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Identified Fixed Noise Sources**	**A6-1**

Source ID: B (MTRC Wai Chi Street Ventilation Building)







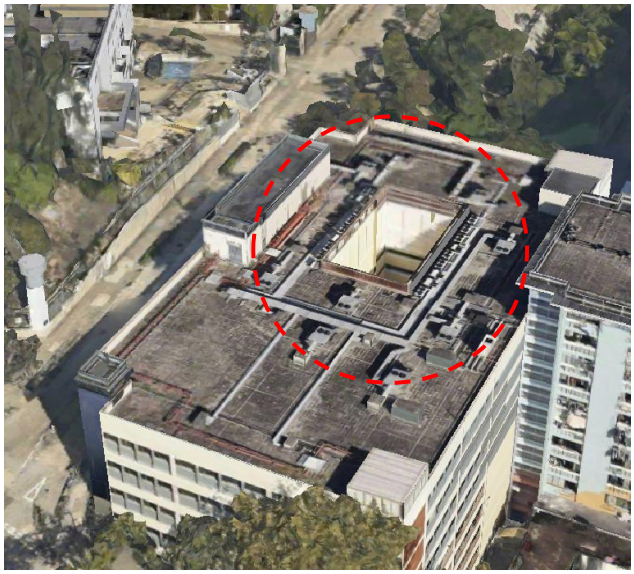


Night-time noise measurement was conducted at 4/F of Man Tai House, facing Wai Chi Street

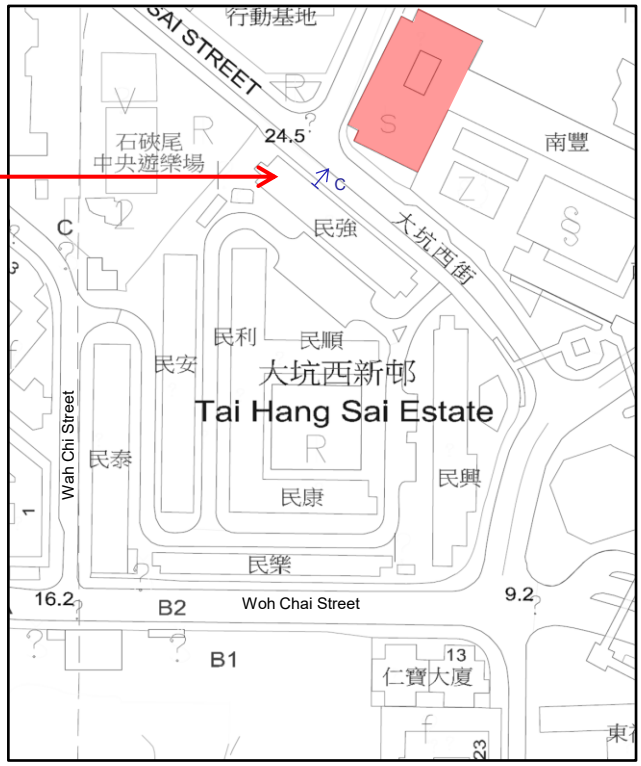
Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Identified Fixed Noise Sources**	**A6-2**

Source ID: C (MTRC Wai Chi Street Ventilation Building)









Noise measurement was conducted at 8/F of Man Keung House, facing Tai Hang Sai Street. No industrial noise was measured.

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Identified Fixed Noise Sources**	**A6-3**

Table A6-1: Measurement Results for Fixed Noise Sources

Source ID	Building	Operation / Observation	Measuring Location [1]	Date	Time	Duration (min)	SPL, dB(A) (at the façade)	Measureemnt Distance (D), m	Derived SWL [2]	SWL adopted in the assessment (excluding façade)
A	MTRC Woh Chai Street Ventilation Building	Plant noise	8/F of Man Lok House, facing Woh Chai Street	11-Apr-24	1:00 - 2:00am	30	56.0	26	92	**89**
B	MTRC Wai Chi Street Ventilation Building	Plant noise	4/F of Man Tai House, facing Wai Chi Street	11-Apr-24	1:00 - 2:00am	30	56.0	21	90	**87**

Note:
[1] All measurement were conducted at 1m from external façade
[2] SWL = SPL + 20 x log (D) + 8

TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - SINGLE BAND

DATE : 14/05/2025
JOB NO.: 22583 Tai Hang Sai Estate location store name manual_0913 store no. 66
SUBJECT: Source ID: B

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
Lp, dB	47.0	49.2	55.3	58.6	51.4	49.4	50.4	50.7	47.9	51.1	47.6	48.4	49.7	49.7	50.0	48.7	45.9	45.7	42.0	41.6	40.2	38.1	33.1	27.5	21.8	17.0	12.6	10.0	10.0	10.0
A-Weighting, dB	-44.7	-39.4	-34.6	-30.2	-26.2	-22.5	-19.1	-16.1	-13.4	-10.9	-8.6	-6.6	-4.8	-3.2	-1.9	-0.8	0.0	0.6	1.0	1.2	1.3	1.2	1.0	0.5	-0.1	-1.1	-2.5	-4.3	-6.6	-9.3
Lp, dB(A)	2.3	9.8	20.7	28.4	25.2	26.9	31.3	34.6	34.5	40.2	39.0	41.8	44.9	46.5	48.1	47.9	45.9	46.3	43.0	42.8	41.5	39.3	34.1	28.0	21.7	15.9	10.1	5.7	3.4	0.7

A-Wt Sound Pr. Level = 55.9 dB(A)

CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 48.1

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
Lp, dB(A)	2.3	9.8	20.7	28.4	25.2	26.9	31.3	34.6	34.5	40.2	39.0	41.8	44.9	46.5	48.1	47.9	45.9	46.3	43.0	42.8	41.5	39.3	34.1	28.0	21.7	15.9	10.1	5.7	3.4	0.7
	0	0	0	0	0	0	0	34.6	34.5	40.2	39.0	41.8	44.9	46.5	48.1	47.9	45.9	46.3	43.0	42.8	41.5	39.3	34.1	0	0	0	0	0	0	0

CORRECTION (b) :

X - adjacent bands >1

0	0	0	0	0	0	0	0	0	40.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CORRECTION (c) :

X - mean of adjacent bands >3

0	0	0	0	0	0	0	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ftone= 0	0	0	0	0	0	0	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TONAL CORRECTION :

dB(A)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TONAL CORR.= **0** dB(A)

TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS

DATE : 14/5/25
JOB NO.: 22583 Tai Hang Sai Estate
PROJECT: Source ID: B

MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
Lp, dB	47.0	49.2	55.3	58.6	51.4	49.4	50.4	50.7	47.9	51.1	47.6	48.4	49.7	49.7	50.0	48.7	45.9	45.7	42.0	41.6	40.2	38.1	33.1	27.5	21.8	17.0	12.6	10.0	10.0	10.0
A-Weighting, dB	-44.7	-39.4	-34.6	-30.2	-26.2	-22.5	-19.1	-16.1	-13.4	-10.9	-8.6	-6.6	-4.8	-3.2	-1.9	-0.8	0.0	0.6	1.0	1.2	1.3	1.2	1.0	0.5	-0.1	-1.1	-2.5	-4.3	-6.6	-9.3
Lp, dB(A)	2.3	9.8	20.7	28.4	25.2	26.9	31.3	34.6	34.5	40.2	39.0	41.8	44.9	46.5	48.1	47.9	45.9	46.3	43.0	42.8	41.5	39.3	34.1	28.0	21.7	15.9	10.1	5.7	3.4	0.7

A-Wt Sound Pr. Level = 55.9 dB(A)

CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 48.1

Max - Max of Xs < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
Lp, dB(A)	2.3	9.8	20.7	28.4	25.2	26.9	31.3	34.6	34.5	40.2	39.0	41.8	44.9	46.5	48.1	47.9	45.9	46.3	43.0	42.8	41.5	39.3	34.1	28.0	21.7	15.9	10.1	5.7	3.4	0.7
Ave. Lp of pair	0	15.2	24.5	26.8	26.1	29.1	32.9	34.6	37.4	39.6	40.4	43.4	45.7	47.3	48.0	46.9	46.1	44.7	42.9	42.2	40.4	36.7	31.1	24.9	18.8	13.0	7.9	4.6	2.1	0
	0	0	0	0	0	0	32.9	34.6	37.4	39.6	40.4	43.4	45.7	47.3	48.0	46.9	46.1	44.7	42.9	42.2	40.4	36.7	31.1	0	0	0	0	0	0	0

CORRECTION (b) :

Mean of X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CORRECTION (c) :

Mean of X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TONAL CORRECTION :

	Pair of 1/3 octave bands starting with, Hz																													
	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k			
dB(A)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**			

TONAL CORR.= **0** dB(A)

TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - SINGLE BAND

DATE : 14/05/2025
JOB NO.: 22583 Tai Hang Sai Estate location store name manual_0913 store no. 77
SUBJECT: Source ID: A

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
Lp, dB	47.1	52.9	56.6	61.7	54.9	55.2	54.2	49.0	49.0	49.7	47.3	49.1	48.4	49.4	48.1	48.4	48.5	45.5	43.2	42.2	40.4	39.1	34.3	29.0	23.0	18.4	14.1	10.6	10.6	10.6
A-Weighting, dB	-44.7	-39.4	-34.6	-30.2	-26.2	-22.5	-19.1	-16.1	-13.4	-10.9	-8.6	-6.6	-4.8	-3.2	-1.9	-0.8	0.0	0.6	1.0	1.2	1.3	1.2	1.0	0.5	-0.1	-1.1	-2.5	-4.3	-6.6	-9.3
Lp, dB(A)	2.4	13.5	22.0	31.5	28.7	32.7	35.1	32.9	35.6	38.8	38.7	42.5	43.6	46.2	46.2	47.6	48.5	46.1	44.2	43.4	41.7	40.3	35.3	29.5	22.9	17.3	11.6	6.3	4.0	1.3

A-Wt Sound Pr. Level = 56.0 dB(A)

CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 48.5

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
Lp, dB(A)	2.4	13.5	22.0	31.5	28.7	32.7	35.1	32.9	35.6	38.8	38.7	42.5	43.6	46.2	46.2	47.6	48.5	46.1	44.2	43.4	41.7	40.3	35.3	29.5	22.9	17.3	11.6	6.3	4.0	1.3
	0	0	0	0	0	0	35.1	0	35.6	38.8	38.7	42.5	43.6	46.2	46.2	47.6	48.5	46.1	44.2	43.4	41.7	40.3	35.3	0	0	0	0	0	0	0

CORRECTION (b) :

X - adjacent bands >1

0	0	0	0	0	0	35.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CORRECTION (c) :

X - mean of adjacent bands >3

0	0	0	0	0	0	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ftone= 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TONAL CORRECTION :

dB(A)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TONAL CORR.= **0** dB(A)

TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS

DATE : 14/5/25
JOB NO.: 22583 Tai Hang Sai Estate
PROJECT: Source ID: A

MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
Lp, dB	47.1	52.9	56.6	61.7	54.9	55.2	54.2	49.0	49.0	49.7	47.3	49.1	48.4	49.4	48.1	48.4	48.5	45.5	43.2	42.2	40.4	39.1	34.3	29.0	23.0	18.4	14.1	10.6	10.6	10.6
A-Weighting, dB	-44.7	-39.4	-34.6	-30.2	-26.2	-22.5	-19.1	-16.1	-13.4	-10.9	-8.6	-6.6	-4.8	-3.2	-1.9	-0.8	0.0	0.6	1.0	1.2	1.3	1.2	1.0	0.5	-0.1	-1.1	-2.5	-4.3	-6.6	-9.3
Lp, dB(A)	2.4	13.5	22.0	31.5	28.7	32.7	35.1	32.9	35.6	38.8	38.7	42.5	43.6	46.2	46.2	47.6	48.5	46.1	44.2	43.4	41.7	40.3	35.3	29.5	22.9	17.3	11.6	6.3	4.0	1.3

A-Wt Sound Pr. Level = 56.0 dB(A)

CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 48.5

Max - Max of Xs < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
Lp, dB(A)	2.4	13.5	22.0	31.5	28.7	32.7	35.1	32.9	35.6	38.8	38.7	42.5	43.6	46.2	46.2	47.6	48.5	46.1	44.2	43.4	41.7	40.3	35.3	29.5	22.9	17.3	11.6	6.3	4.0	1.3
Ave. Lp of pair	0	17.7	26.7	30.1	30.7	33.9	34.0	34.3	37.2	38.8	40.6	43.0	44.9	46.2	46.9	48.0	47.3	45.1	43.8	42.6	41.0	37.8	32.4	26.2	20.1	14.4	8.9	5.2	2.7	0
	0	0	0	0	0	33.9	34.0	34.3	37.2	38.8	40.6	43.0	44.9	46.2	46.9	48.0	47.3	45.1	43.8	42.6	41.0	37.8	32.4	0	0	0	0	0	0	0

CORRECTION (b) :

Mean of X - adjacent bands >1

	0	0	0	0	0	33.9	0	0	0	0	0	0	0	0	0	48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CORRECTION (c) :

Mean of X - mean of adjacent bands >3

	0	0	0	0	0	3.1	0	0	0	0	0	0	0	0	0	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

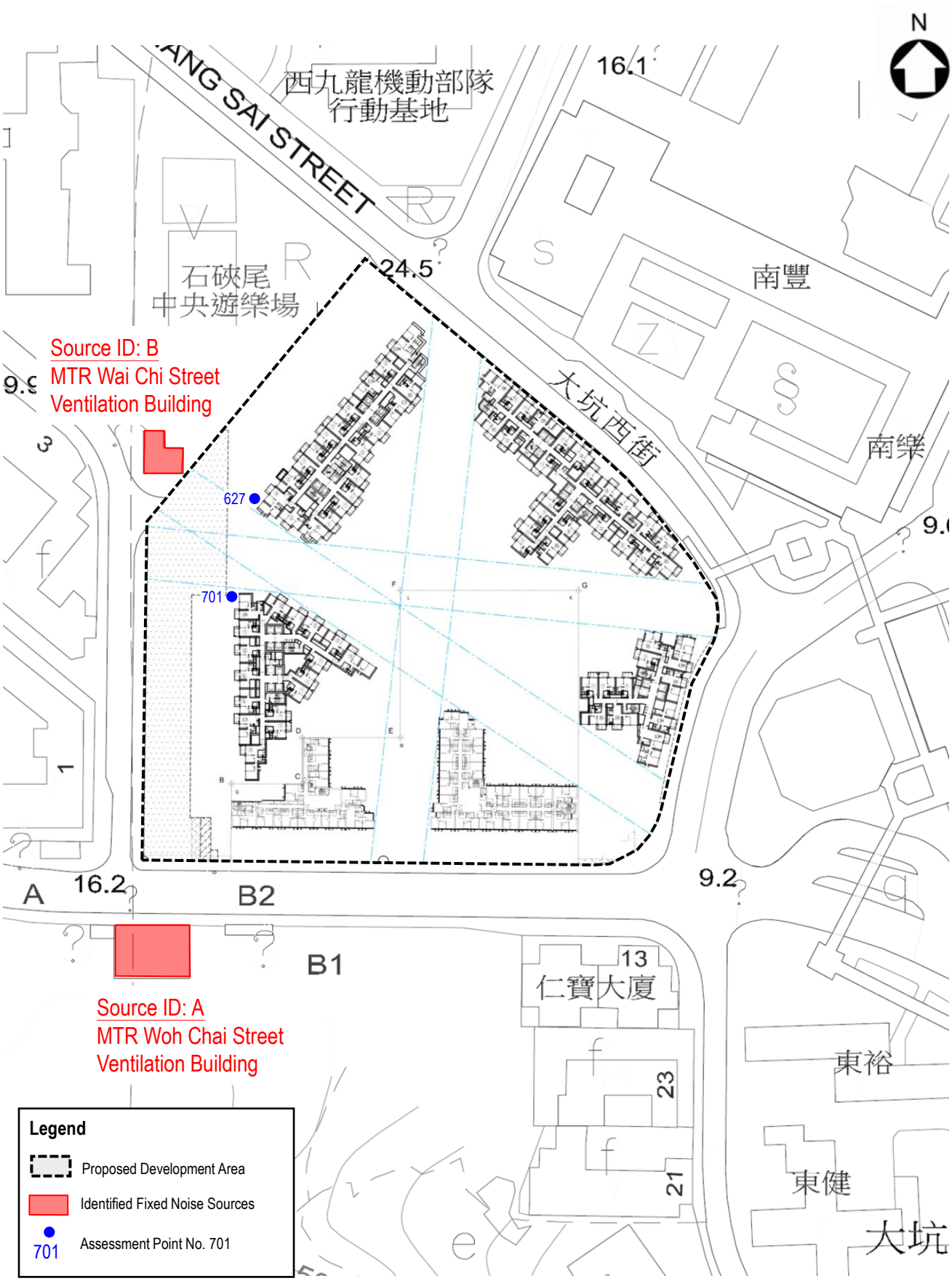
TONAL CORRECTION :

	Pair of 1/3 octave bands starting with, Hz																													
	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k			
dB(A)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**			

TONAL CORR.= **0** dB(A)

APPENDIX 7A

FIXED NOISE SOURCES ASSESSMENT FOR THE PROPOSED DEVELOPMENT, FOR SITE 2



Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Locations of Noise Assessment Point (Fixed Noise Sources) for Site 1**	**A7A-1**

Predicted Industrial Noise Levels in Daytime Period

Job Title.: THSE Site 2
Job No.: 22583
Date: 15/9/2026

Floor	NSR 627	NSR 701
1/F	54.4	51.1
2/F	54.1	51.0
3/F	53.7	50.8
4/F	53.3	50.7
5/F	52.8	50.5
6/F	52.2	50.2
7/F	51.7	50.0
8/F	51.2	49.7
9/F	50.7	49.5
10/F	50.2	49.2
11/F	49.8	48.9
12/F	49.3	48.7
13/F	48.9	48.4
14/F	48.5	48.1
15/F	48.1	47.9
16/F	47.8	47.6
17/F	47.5	47.4
18/F	47.1	47.1
19/F	46.8	46.9
20/F	46.5	46.6
21/F	46.2	46.4
22/F	46.0	46.2
23/F	45.7	45.9
24/F	45.5	45.7
25/F	45.2	45.5
26/F	45.0	45.3
27/F	44.8	45.1
28/F	44.5	44.9
29/F	44.3	44.7
30/F	44.1	44.5
31/F	43.9	44.3
32/F	43.7	44.1
33/F	43.5	43.9
34/F	43.4	43.7
35/F	43.2	43.6
36/F	43.0	43.4
37/F	42.8	43.2
38/F	42.7	43.0
39/F	42.5	42.9
40/F	42.3	42.7
41/F	42.2	42.5
42/F	42.0	42.4
43/F	41.9	42.2
Max:	54.4	51.1
ANL:	65.0	65.0
Compliance	YES	YES

Predicted Industrial Noise Levels in Night-time Period

Job Title.: THSE Site 2
Job No.: 22583
Date: 15/9/2026

Floor	NSR 627	NSR 701
1/F	54.4	51.1
2/F	54.1	51.0
3/F	53.7	50.8
4/F	53.3	50.7
5/F	52.8	50.5
6/F	52.2	50.2
7/F	51.7	50.0
8/F	51.2	49.7
9/F	50.7	49.5
10/F	50.2	49.2
11/F	49.8	48.9
12/F	49.3	48.7
13/F	48.9	48.4
14/F	48.5	48.1
15/F	48.1	47.9
16/F	47.8	47.6
17/F	47.5	47.4
18/F	47.1	47.1
19/F	46.8	46.9
20/F	46.5	46.6
21/F	46.2	46.4
22/F	46.0	46.2
23/F	45.7	45.9
24/F	45.5	45.7
25/F	45.2	45.5
26/F	45.0	45.3
27/F	44.8	45.1
28/F	44.5	44.9
29/F	44.3	44.7
30/F	44.1	44.5
31/F	43.9	44.3
32/F	43.7	44.1
33/F	43.5	43.9
34/F	43.4	43.7
35/F	43.2	43.6
36/F	43.0	43.4
37/F	42.8	43.2
38/F	42.7	43.0
39/F	42.5	42.9
40/F	42.3	42.7
41/F	42.2	42.5
42/F	42.0	42.4
43/F	41.9	42.2
Max:	54.4	51.1
ANL:	55.0	55.0
Compliance	YES	YES

Calculation of Industrial Noise Levels (Daytime Period)

Westwood Hong & Associates Ltd.

Job Title.: THSE Site 2
Job No.: 22583
Date: 15/09/26

NSR	NSR 627 1/F			Xr : 835471 Yr : 821503 Hr : 39.0									
				Source location & distance				Corrections					CNL
Source ID	Description	SWL	No.	Xs	Ys	Hs	Lsr	Cno	CLsr	Cton	Cbar	Cfac	dB(A)
A	MTRC Woh Chai Street Ventilation Building	89	1	835448	821381	35.4	124.6	0	-49.9	0.0	0.0	3.0	42.4
B	MTRC Wai Chi Street Ventilation Building	87	1	835448	821512	33.9	24.9	0	-35.9	0.0	0.0	3.0	54.1
												TOTAL	**54.4**

Definition of terms:

SWL - the sound power level of a source, dB(A)
LAeq - the equivalent continuous noise level over a 30 minute period, dB(A)
No. - the number of items of plant operating simultaneously
Xr, Yr, Hr - the coordinates of the NSR, m
Xs, Ys, Hs - the coordinates of the source, m
Lsr - the slant distance between the source and NSR, m

Cno - correction for no. of plant items
CLsr - the correction for slant distance between the source and the NSR, dB(A)
Cton - the tonality correction, dB(A)
Cfac - the facade correction, dB(A)
Cbar - the barrier correction, dB(A)
CNL - the corrected noise level, dB(A)(30 minutes)

Calculation of Industrial Noise Levels (Night-time Period)

Westwood Hong & Associates Ltd.

Job Title.: THSE Site 2
Job No.: 22583
Date: 15/09/26

NSR	NSR 627 1/F			Xr : 835471 Yr : 821503 Hr : 39.0									
				Source location & distance				Corrections					CNL
Source ID	Description	SWL	No.	Xs	Ys	Hs	Lsr	Cno	CLsr	Cton	Cbar	Cfac	dB(A)
A	MTRC Woh Chai Street Ventilation Building	89	1	835448	821381	35.4	124.6	0	-49.9	0.0	0.0	3.0	42.4
B	MTRC Wai Chi Street Ventilation Building	87	1	835448	821512	33.9	24.9	0	-35.9	0.0	0.0	3.0	54.1
												TOTAL	**54.4**

Definition of terms:

SWL - the sound power level of a source, dB(A)
LAeq - the equivalent continuous noise level over a 30 minute period, dB(A)
No. - the number of items of plant operating simultaneously
Xr, Yr, Hr - the coordinates of the NSR, m
Xs, Ys, Hs - the coordinates of the source, m
Lsr - the slant distance between the source and NSR, m

Cno - correction for no. of plant items
CLsr - the correction for slant distance between the source and the NSR, dB(A)
Catm - the air absorption using CONCAWE methodology
Cfac - the facade correction, dB(A)
Csri - the sound reduction provided by the building envelope, dB(A)
CNL - the corrected noise level, dB(A)(30 minutes)

Calculation of Industrial Noise Levels (Daytime Period)

Westwood Hong & Associates Ltd.

Job Title.: THSE Site 2
Job No.: 22583
Date: 15/09/26

NSR	NSR 701 1/F			Xr : 835465 Yr : 821476 Hr : 39.0									
				Source location & distance				Corrections					CNL
Source ID	Description	SWL	No.	Xs	Ys	Hs	Lsr	Cno	CLsr	Cton	Cbar	Cfac	dB(A)
A	MTRC Woh Chai Street Ventilation Building	89	1	835448	821381	35.4	96.4	0	-47.7	0.0	0.0	3.0	44.6
B	MTRC Wai Chi Street Ventilation Building	87	1	835448	821512	33.9	40.0	0	-40.0	0.0	0.0	3.0	50.0
												TOTAL	**51.1**

Definition of terms:

SWL - the sound power level of a source, dB(A)
LAeq - the equivalent continuous noise level over a 30 minute period, dB(A)
No. - the number of items of plant operating simultaneously
Xr, Yr, Hr - the coordinates of the NSR, m
Xs, Ys, Hs - the coordinates of the source, m
Lsr - the slant distance between the source and NSR, m

Cno - correction for no. of plant items
CLsr - the correction for slant distance between the source and the NSR, dB(A)
Cton - the tonality correction, dB(A)
Cfac - the facade correction, dB(A)
Cbar - the barrier correction, dB(A)
CNL - the corrected noise level, dB(A)(30 minutes)

Calculation of Industrial Noise Levels (Night-time Period)

Westwood Hong & Associates Ltd.

Job Title.: THSE Site 2
Job No.: 22583
Date: 15/09/26

NSR	NSR 701 1/F			Xr : 835465 Yr : 821476 Hr : 39.0									
				Source location & distance				Corrections					CNL
Source ID	Description	SWL	No.	Xs	Ys	Hs	Lsr	Cno	CLsr	Cton	Cbar	Cfac	dB(A)
A	MTRC Woh Chai Street Ventilation Building	89	1	835448	821381	35.4	96.4	0	-47.7	0.0	0.0	3.0	44.6
B	MTRC Wai Chi Street Ventilation Building	87	1	835448	821512	33.9	40.0	0	-40.0	0.0	0.0	3.0	50.0
												TOTAL	**51.1**

Definition of terms:

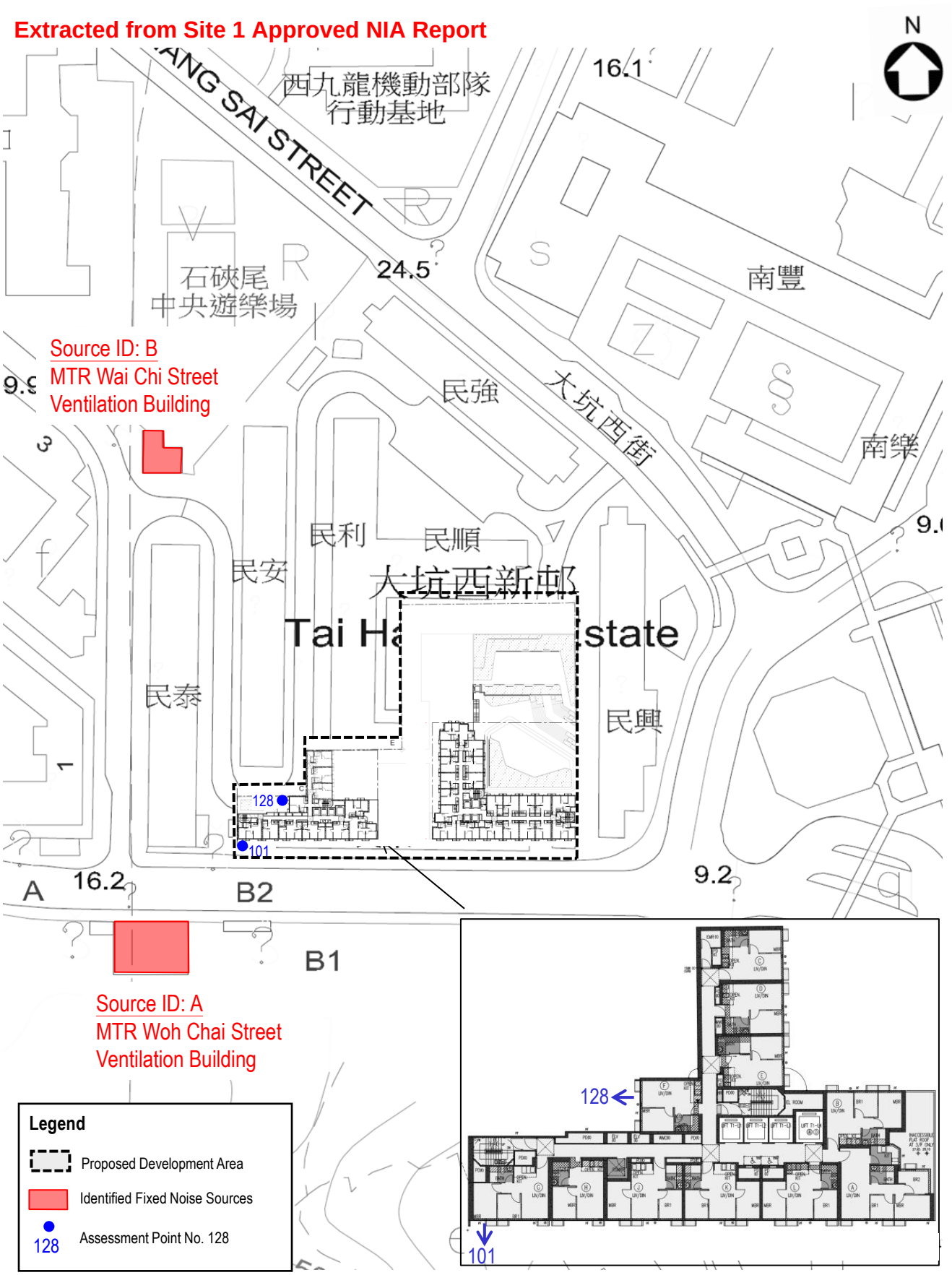
SWL - the sound power level of a source, dB(A)
LAeq - the equivalent continuous noise level over a 30 minute period, dB(A)
No. - the number of items of plant operating simultaneously
Xr, Yr, Hr - the coordinates of the NSR, m
Xs, Ys, Hs - the coordinates of the source, m
Lsr - the slant distance between the source and NSR, m

Cno - correction for no. of plant items
CLsr - the correction for slant distance between the source and the NSR, dB(A)
Catm - the air absorption using CONCAWE methodology
Cfac - the facade correction, dB(A)
Csri - the sound reduction provided by the building envelope, dB(A)
CNL - the corrected noise level, dB(A)(30 minutes)

APPENDIX 7B

FIXED NOISE SOURCES ASSESSMENT FOR THE PROPOSED DEVELOPMENT, FOR SITE 1

Extracted from Site 1 Approved NIA Report



Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22544	**Locations of Noise Assessment Point (Fixed Noise Sources)**	**A7-1**
Proposed Composite Development at NKIL No. 6654, Shek Kip Mei, Kowloon		

Extracted from Site 1 Approved NIA Report

Predicted Industrial Noise Levels in Daytime Period

Job Title.: Proposed Composite Development at NKIL No. 6654, Shek Kip Mei, Kowloon
Job No.: 22544
Date: 30/10/2024

Floor	NSR 101	NSR 128
3/F	53.9	50.3
5/F	54.0	50.4
6/F	54.1	50.4
7/F	54.0	50.4
8/F	53.9	50.3
9/F	53.7	50.2
10/F	53.5	50.1
11/F	53.2	50.0
12/F	52.9	49.8
15/F	52.5	49.6
16/F	52.1	49.4
17/F	51.7	49.2
18/F	51.3	49.0
19/F	50.9	48.8
20/F	50.5	48.5
21/F	50.1	48.3
22/F	49.7	48.0
23/F	49.3	47.8
25/F	49.0	47.5
26/F	48.6	47.2
27/F	48.3	47.0
28/F	47.9	46.7
29/F	47.6	46.5
30/F	47.2	46.2
31/F	46.9	46.0
32/F	46.6	45.7
33/F	46.3	45.5
35/F	46.0	45.2
36/F	45.7	45.0
37/F	45.5	44.8
38/F	45.2	44.5
39/F	44.9	44.3
40/F	44.7	44.1
41/F	44.4	43.9
42/F	44.2	43.6
Max:	54.1	50.4
ANL:	65.0	65.0
Compliance	YES	YES

Extracted from Site 1 Approved NIA Report

Predicted Industrial Noise Levels in Night-time Period

Job Title.: Proposed Composite Development at NKIL No. 6654, Shek Kip Mei, Kowloon
Job No.: 22544
Date: 30/10/2024

Floor	NSR 101	NSR 128
3/F	53.9	50.3
5/F	54.0	50.4
6/F	54.1	50.4
7/F	54.0	50.4
8/F	53.9	50.3
9/F	53.7	50.2
10/F	53.5	50.1
11/F	53.2	50.0
12/F	52.9	49.8
15/F	52.5	49.6
16/F	52.1	49.4
17/F	51.7	49.2
18/F	51.3	49.0
19/F	50.9	48.8
20/F	50.5	48.5
21/F	50.1	48.3
22/F	49.7	48.0
23/F	49.4	47.8
25/F	49.0	47.5
26/F	48.6	47.2
27/F	48.3	47.0
28/F	47.9	46.7
29/F	47.6	46.5
30/F	47.2	46.2
31/F	46.9	46.0
32/F	46.6	45.7
33/F	46.3	45.5
35/F	46.0	45.2
36/F	45.7	45.0
37/F	45.5	44.8
38/F	45.2	44.5
39/F	44.9	44.3
40/F	44.7	44.1
41/F	44.4	43.9
42/F	44.2	43.7
Max:	54.1	50.4
ANL:	55.0	55.0
Compliance	YES	YES

Extracted from Site 1 Approved NIA Report

Calculation of Industrial Noise Levels (Daytime Period)

Westwood Hong & Associates Ltd.

Job Title.: Proposed Composite Development at NKIL No. 6654, Shek Kip Mei, Kowloon
Job No.: 22544
Date: 30/10/24

NSR	NSR 101 3/F			Xr : 835465 Yr : 821409 Hr : 29.5									
				Source location & distance				Corrections					CNL
Source ID	Description	SWL	No.	Xs	Ys	Hs	Lsr	Cno	CLsr	Cton	Cbar	Cfac	dB(A)
A	MTRC Woh Chai Street Ventilation Building	89	1	835448	821381	35.4	33.1	0	-38.4	0.0	0.0	3.0	53.9
B	MTRC Wai Chi Street Ventilation Building	87	1	835448	821512	33.9	104.6	0	-48.4	0.0	-10.0	3.0	31.6
												TOTAL	**53.9**

Definition of terms:

SWL - the sound power level of a source, dB(A)
LAeq - the equivalent continuous noise level over a 30 minute period, dB(A)
No. - the number of items of plant operating simultaneously
Xr, Yr, Hr - the coordinates of the NSR, m
Xs, Ys, Hs - the coordinates of the source, m
Lsr - the slant distance between the source and NSR, m

Cno - correction for no. of plant items
CLsr - the correction for slant distance between the source and the NSR, dB(A)
Cton - the tonality correction, dB(A)
Cfac - the facade correction, dB(A)
Cbar - the barrier correction, dB(A)
CNL - the corrected noise level, dB(A)(30 minutes)

Extracted from Site 1 Approved NIA Report

Calculation of Industrial Noise Levels (Night-time Period)

Westwood Hong & Associates Ltd.

Job Title.: Proposed Composite Development at NKIL No. 6654, Shek Kip Mei, Kowloon
Job No.: 22544
Date: 30/10/24

NSR	NSR 101 3/F			Xr : 835465 Yr : 821409 Hr : 29.5									
				Source location & distance				Corrections					CNL
Source ID	Description	SWL	No.	Xs	Ys	Hs	Lsr	Cno	CLsr	Cton	Cbar	Cfac	dB(A)
A	MTRC Woh Chai Street Ventilation Building	89	1	835448	821381	35.4	33.1	0	-38.4	0.0	0.0	3.0	53.9
B	MTRC Wai Chi Street Ventilation Building	87	1	835448	821512	33.9	104.6	0	-48.4	0.0	-10.0	3.0	31.6
												TOTAL	**53.9**

Definition of terms:

SWL - the sound power level of a source, dB(A)
LAeq - the equivalent continuous noise level over a 30 minute period, dB(A)
No. - the number of items of plant operating simultaneously
Xr, Yr, Hr - the coordinates of the NSR, m
Xs, Ys, Hs - the coordinates of the source, m
Lsr - the slant distance between the source and NSR, m

Cno - correction for no. of plant items
CLsr - the correction for slant distance between the source and the NSR, dB(A)
Catm - the air absorption using CONCAWE methodology
Cfac - the facade correction, dB(A)
Csri - the sound reduction provided by the building envelope, dB(A)
CNL - the corrected noise level, dB(A)(30 minutes)

Extracted from Site 1 Approved NIA Report

Calculation of Industrial Noise Levels (Daytime Period)

Westwood Hong & Associates Ltd.

Job Title.: Proposed Composite Development at NKIL No. 6654, Shek Kip Mei, Kowloon
Job No.: 22544
Date: 30/10/24

NSR	NSR 128 3/F			Xr : 835478 Yr : 821421 Hr : 29.5									
				Source location & distance				Corrections					CNL
Source ID	Description	SWL	No.	Xs	Ys	Hs	Lsr	Cno	CLsr	Cton	Cbar	Cfac	dB(A)
A	MTRC Woh Chai Street Ventilation Building	89	1	835448	821381	35.4	50.5	0	-42.1	0.0	0.0	3.0	50.2
B	MTRC Wai Chi Street Ventilation Building	87	1	835448	821512	33.9	95.6	0	-47.6	0.0	-10.0	3.0	32.4
												TOTAL	**50.3**

Definition of terms:

SWL - the sound power level of a source, dB(A)
LAeq - the equivalent continuous noise level over a 30 minute period, dB(A)
No. - the number of items of plant operating simultaneously
Xr, Yr, Hr - the coordinates of the NSR, m
Xs, Ys, Hs - the coordinates of the source, m
Lsr - the slant distance between the source and NSR, m

Cno - correction for no. of plant items
CLsr - the correction for slant distance between the source and the NSR, dB(A)
Cton - the tonality correction, dB(A)
Cfac - the facade correction, dB(A)
Cbar - the barrier correction, dB(A)
CNL - the corrected noise level, dB(A)(30 minutes)

Extracted from Site 1 Approved NIA Report

Calculation of Industrial Noise Levels (Night-time Period)

Westwood Hong & Associates Ltd.

Job Title.: Proposed Composite Development at NKIL No. 6654, Shek Kip Mei, Kowloon
Job No.: 22544
Date: 30/10/24

NSR	NSR 128 3/F			Xr : 835478 Yr : 821421 Hr : 29.5									
				Source location & distance				Corrections					CNL
Source ID	Description	SWL	No.	Xs	Ys	Hs	Lsr	Cno	CLsr	Cton	Cbar	Cfac	dB(A)
A	MTRC Woh Chai Street Ventilation Building	89	1	835448	821381	35.4	50.5	0	-42.1	0.0	0.0	3.0	50.2
B	MTRC Wai Chi Street Ventilation Building	87	1	835448	821512	33.9	95.6	0	-47.6	0.0	-10.0	3.0	32.4
												TOTAL	**50.3**

Definition of terms:

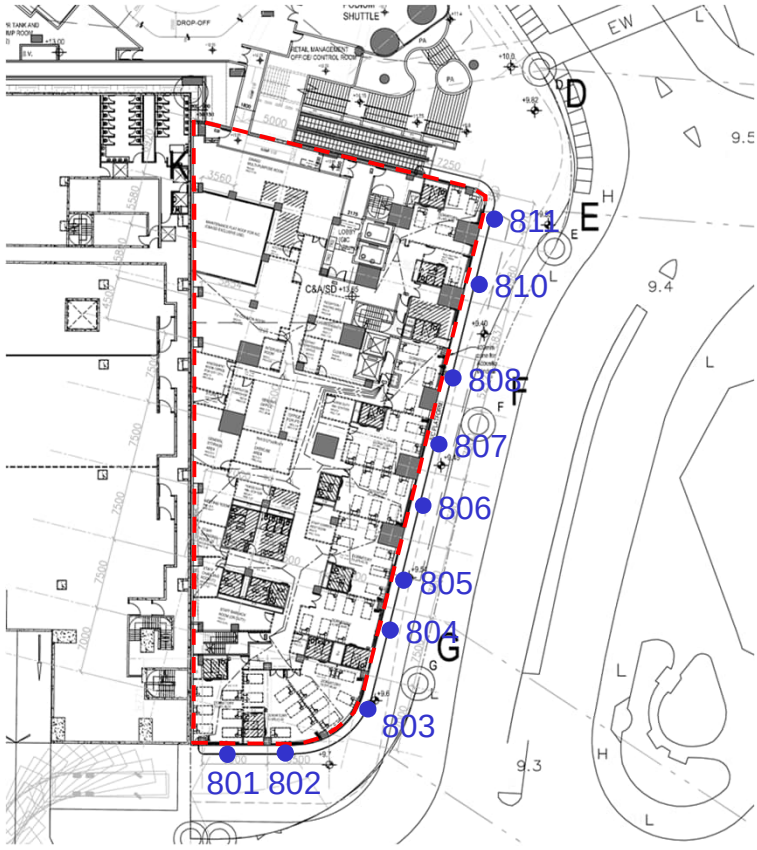
SWL - the sound power level of a source, dB(A)
LAeq - the equivalent continuous noise level over a 30 minute period, dB(A)
No. - the number of items of plant operating simultaneously
Xr, Yr, Hr - the coordinates of the NSR, m
Xs, Ys, Hs - the coordinates of the source, m
Lsr - the slant distance between the source and NSR, m

Cno - correction for no. of plant items
CLsr - the correction for slant distance between the source and the NSR, dB(A)
Catm - the air absorption using CONCAWE methodology
Cfac - the facade correction, dB(A)
Csri - the sound reduction provided by the building envelope, dB(A)
CNL - the corrected noise level, dB(A)(30 minutes)

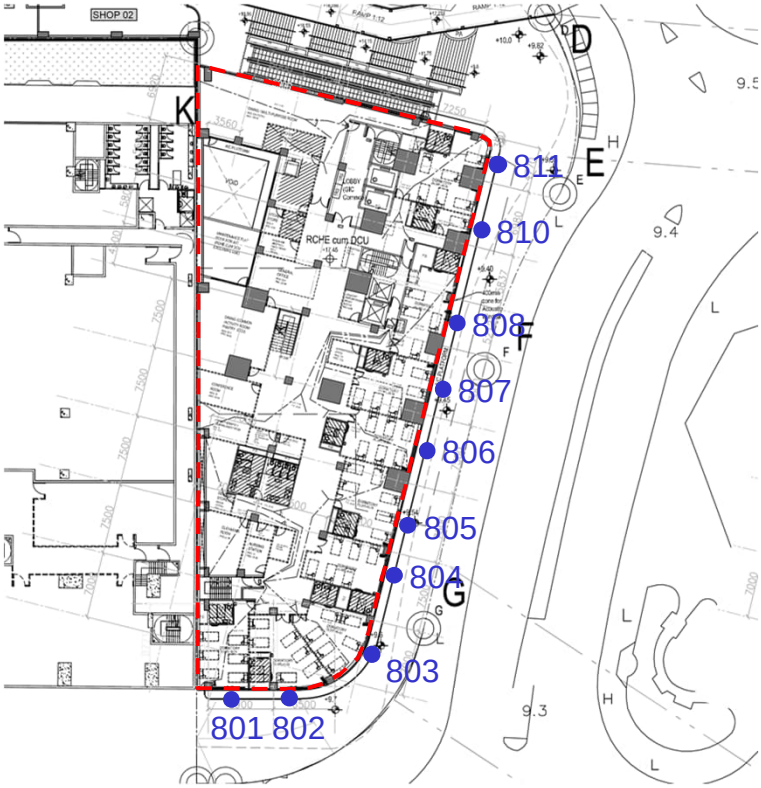
APPENDIX 8

NOISE IMPACTS TO C&A/SD AND RCHE

UG1/F – C&A/SD



UG2/F– RCHE



Legend

- C&A/SD and RCHE
- 801 Assessment Point No. 801

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Locations of Noise Assessment Point (Road Traffic Noise Assessment for C&A/SD and RCHE)**	**A8-1**

1/F – RCHE (upper floor)



Legend

- C&A/SD and RCHE
- 801 Assessment Point No. 801

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Locations of Noise Assessment Point (Road Traffic Noise Assessment for C&A/SD and RCHE)**	**A8-2**

Predicted Façade Noise Levels for Road Traffic Noise for C&A/SD and RCHE – Base Scenario

Floor	Height of Noise Assessment Point (mPD)	Receiver										
		C&A/SD and RCHE										
		801	802	803	804	805	806	807	808	809	810	811
UG1/F, C&A/SD	14.9	76.1	76.8	76.6	75.8	75.7	75.7	75.7	75.4		75.1	75.4
UG2/F, RCHE	18.7	75.9	76.5	76.2	75.4	75.3	75.3	75.2	75.0		74.7	75.0
1/F, RCHE (upper floor)	22.5	75.6	76.1	75.8	75.0	74.8	74.8	74.7		74.3	74.3	74.7
max		76.1	76.8	76.6	75.8	75.7	75.7	75.7	75.4	74.3	75.1	75.4

Remark:

- The representative NSRs for C&A/SD and RCHE will exceed 5 – 7dB(A)

Predicted Façade Noise Levels for Road Traffic Noise for C&A/SD and RCHE – With Noise Mitigation Measure

Floor	Height of Noise Assessment Point (mPD)	Receiver										
		C&A/SD and RCHE										
		801	802	803	804	805	806	807	808	809	810	811
UG1/F, C&A/SD	14.9	67.3	68.0	67.8	67.0	66.9	66.9	66.9	67.2		69.9	66.8
UG2/F, RCHE	18.7	67.1	67.7	67.4	66.6	66.5	66.5	66.4	66.2		68.7	66.2
1/F, RCHE (upper floor)	22.5	66.8	67.3	67.0	66.2	66.0	66.0	65.9		68.4	68.3	65.9
max		67.3	68.0	67.8	67.0	66.9	66.9	66.9	67.2	68.4	69.9	66.8

Remark:

- Acoustic Window (Baffle type) for Dormitory
- Acoustic Window (Baffle type) for Sick / Isolation / Quiet Room and End-of-Life Care Room

Remark:

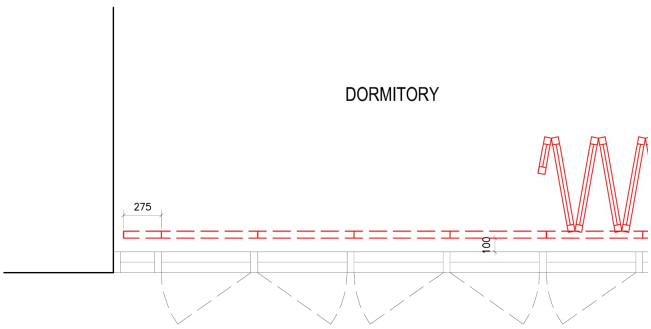
- The acoustic performance of the Acoustic Windows adopted to the dormitories of C&A/SD and RCHE is referenced to Ex-North Point Development, which is the LIV of “The Development of an Innovative Noise Mitigation Measure for a Luxury Seaview Residential Development” by Michelle Chan and David BK Yeung, Proceedings of Inter-noise 2019, Madrid (2019). With the provision of this acoustic window, all the dormitories of the C&A/SD and RCHE will comply with the noise limit.

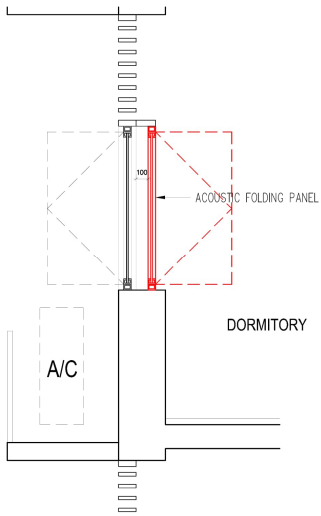
- The acoustic performance of the Acoustic Windows adopted to the sick / isolation / quiet room and end-of-life care room of C&A/SD and RCHE is referenced to ProPECC 5/23 "Application of Innovative Noise Mitigation Designs in Planning Private Residential Devleopments against Road Traffic Noise Impact". With the provision of this acoustic window, all the sick / isolation / quiet room and end-of-life care room of the C&A/SD and RCHE will comply with the noise limit.

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Predicted Façade Noise Levels for Road Traffic Noise for C&A/SD and RCHE**	**A8-3**

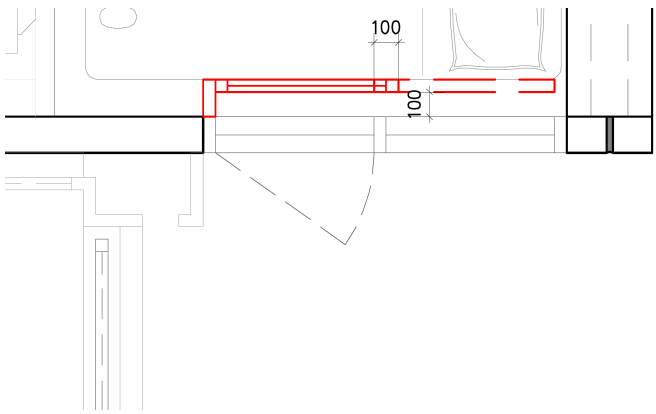
Acoustic Window (Baffle Type)

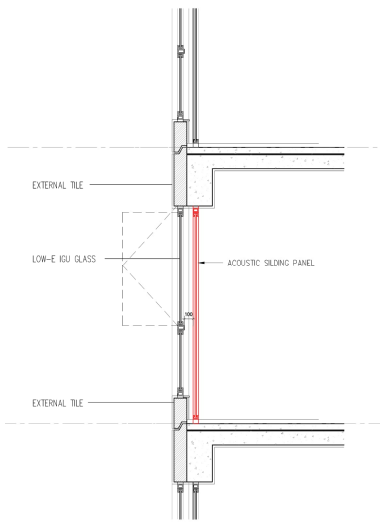
For the Dormitory, the window design reference to Ex-North Point Development	
Overlapping Width:	275mm
Air gap width:	100mm





For the sick / isolation / quiet room and end-of-life care room, the window design reference to PN5/23	
Overlapping Width:	100mm
Air gap width:	100mm





Westwood Hong & Associates Ltd PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	TITLE: **Noise Mitigation Measures for C&A/SD and RCHE**	FIGURE **A8-4**

Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon

Justification of Acoustic Window (Baffle Type) for C&A/SD and RCHE:-

UG1/F, C&A/SD

	Room	NSR no.	Noise Level	Noise Exceedance	Proposed Development			Acoustic Window (Baffle Type) from Reference Case [1] [2]				Correction		Corrected Noise Reduction	Noise Level with Acoustic Window	Comply 70dB(A)
					Room Size	Openable Area	Sound Absorptive Material	Room Size (Ref.)	Openable Window (Ref.)	Noise Reduction (Ref.)	Sound Absorptive Material	Room Size	OA			
UG1/F, C&A/SD	Dormitory	801	76.1	Y	39.8	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	67.3	Y
	Dormitory	802	76.8	Y	41.5	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	68.0	Y
	Dormitory	803	76.6	Y	40.6	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	67.8	Y
	Dormitory	804	75.8	Y	40.4	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	67.0	Y
	Dormitory	805	75.7	Y	43.3	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	66.9	Y
	Dormitory	806	75.7	Y	39.3	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	66.9	Y
	Dormitory	807	75.7	Y	39.3	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	66.9	Y
	Dormitory	808	75.4	Y	33.2	3.200	N	38.3	3.2	8.8	N	-0.63	0.00	8.2	67.2	Y
	Sick / Isolation / Quiet Room and End-of-Life Care Room	810	75.1	Y	12.0	1.125	N	18	1.125	7	N	-1.78	0.00	5.2	69.9	Y
	Dormitory	811	75.4	Y	36.5	3.200	N	38.3	3.2	8.8	N	-0.20	0.00	8.6	66.8	Y

UG2/F, RCHE

	Room	NSR no.	Noise Level	Noise Exceedance	Proposed Development			Acoustic Window (Baffle Type) from Reference Case [1] [2]				Correction		Corrected Noise Reduction	Noise Level with Acoustic Window	Comply 70dB(A)
					Room Size	Openable Area	Sound Absorptive Material	Room Size (Ref.)	Openable Window (Ref.)	Noise Reduction (Ref.)	Sound Absorptive Material	Room Size	OA			
UG2/F, RCHE	Dormitory	801	75.9	Y	39.8	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	67.1	Y
	Dormitory	802	76.5	Y	41.5	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	67.7	Y
	Dormitory	803	76.2	Y	40.6	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	67.4	Y
	Dormitory	804	75.4	Y	40.4	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	66.6	Y
	Dormitory	805	75.3	Y	43.3	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	66.5	Y
	Dormitory	806	75.3	Y	39.3	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	66.5	Y
	Dormitory	807	75.2	Y	39.3	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	66.4	Y
	Dormitory	808	75.0	Y	41.3	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	66.2	Y
	Sick / Isolation / Quiet Room and End-of-Life Care Room	810	74.7	Y	8.3	0.522	N	8	0.522	6	N	0	0.00	6.0	68.7	Y
	Dormitory	811	75.0	Y	49.3	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	66.2	Y

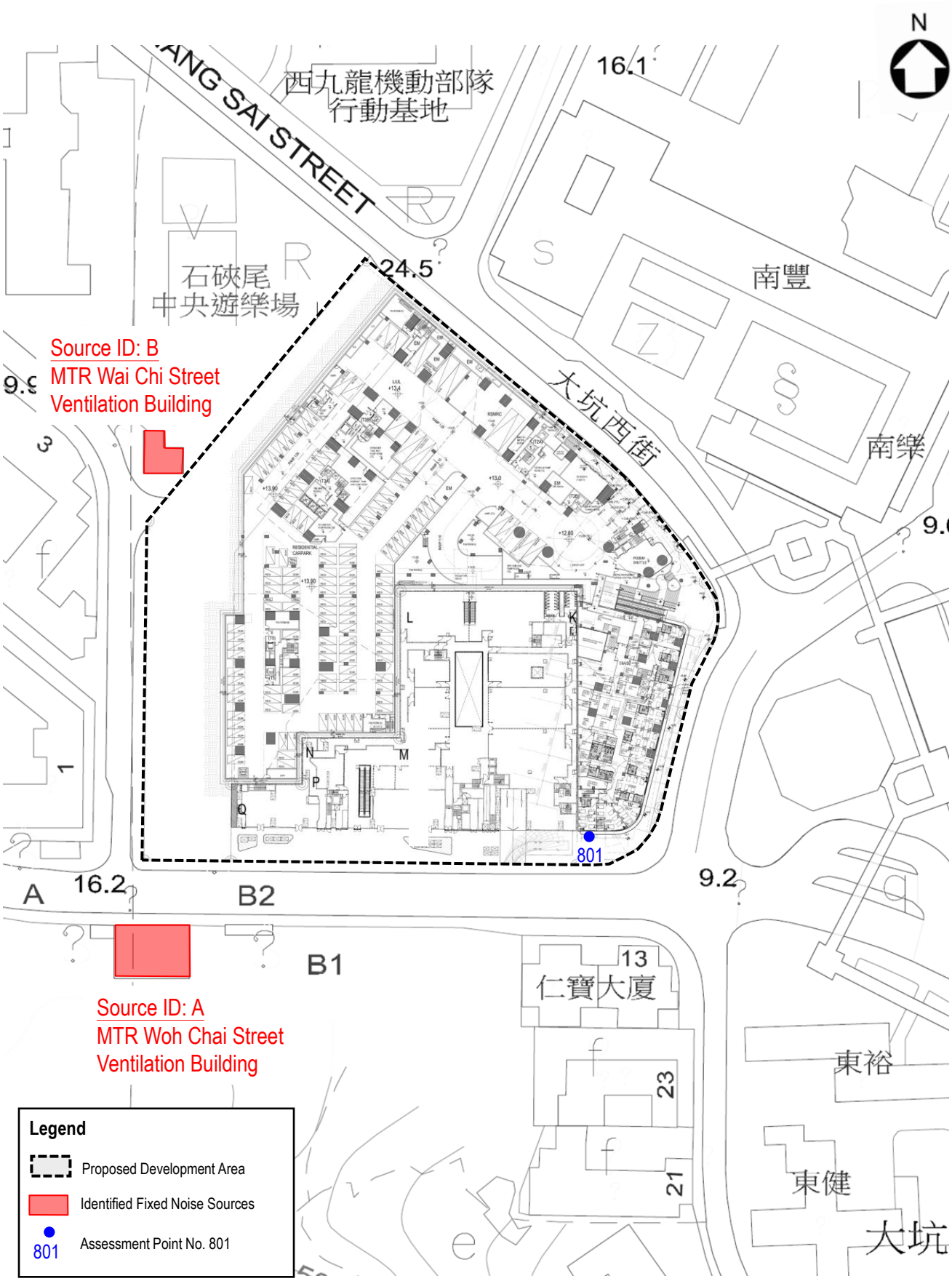
1/F, RCHE (upper floor)

	Room	NSR no.	Noise Level	Noise Exceedance	Proposed Development			Acoustic Window (Baffle Type) from Reference Case [1] [2]				Correction		Corrected Noise Reduction	Noise Level with Acoustic Window	Comply 70dB(A)
					Room Size	Openable Area	Sound Absorptive Material	Room Size (Ref.)	Openable Window (Ref.)	Noise Reduction (Ref.)	Sound Absorptive Material	Room Size	OA			
1/F, RCHE (upper floor)	Dormitory	801	75.6	Y	39.8	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	66.8	Y
	Dormitory	802	76.1	Y	41.5	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	67.3	Y
	Dormitory	803	75.8	Y	40.6	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	67.0	Y
	Dormitory	804	75.0	Y	40.4	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	66.2	Y
	Dormitory	805	74.8	Y	43.3	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	66.0	Y
	Dormitory	806	74.8	Y	39.3	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	66.0	Y
	Dormitory	807	74.7	Y	39.3	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	65.9	Y
	End-of-Life Care Room	809	74.3	Y	7.8	0.522	N	8	0.522	6	N	-0.10	0.00	5.9	68.4	Y
	Sick / Isolation / Quiet Room and End-of-Life Care Room	810	74.3	Y	8.3	0.522	N	8	0.522	6	N	0	0.00	6.0	68.3	Y
	Dormitory	811	74.7	Y	49.3	3.200	N	38.3	3.2	8.8	N	0	0.00	8.8	65.9	Y

Note

[1] For dormitories, it is making eference to Ex-North Point Development, which is the LIV of "The Development of an Innovative Noise Mitigation Measure for a Luxury Seaview Residential Development" by Michelle Chan and David BK Yeung, Proceedings of Inter-noise 2019, Madrid (2019) (i.e. 275mm overlapping width and 100mm air gap)

[2] For the Sick / Isolation / Quiet Room or End of Life Care Room, it is making reference to EPD's ProPECC PN5/23 "Practice Note on Application of Innovoative Noise Mitigation Designs in Planning Private Residential Devleopments against Road Traffic Noise Impact" (PN) (i.e. 100mm overlapping width and 100mm air gap)



Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Locations of Noise Assessment Point for C&A/SD and RCHE (Fixed Noise Sources)**	**A8-5**

Calculation of Industrial Noise Levels (Daytime Period)

Westwood Hong & Associates Ltd.

Job Title.: THSE Site 2
Job No.: 22583
Date: 16/09/26

NSR	NSR 801 UG/F			Xr : 835566 Yr : 821408 Hr : 14.9									
				Source location & distance				Corrections					CNL
Source ID	Description	SWL	No.	Xs	Ys	Hs	Lsr	Cno	CLsr	Cton	Cbar	Cfac	dB(A)
A	MTRC Woh Chai Street Ventilation Building	89	1	835448	821381	35.4	122.8	0	-49.8	0.0	0.0	3.0	42.5
B	MTRC Wai Chi Street Ventilation Building	87	1	835448	821512	33.9	158.6	0	-52.0	0.0	-10.0	3.0	28.0
												TOTAL	**42.7**

Definition of terms:

SWL - the sound power level of a source, dB(A)
LAeq - the equivalent continuous noise level over a 30 minute period, dB(A)
No. - the number of items of plant operating simultaneously
Xr, Yr, Hr - the coordinates of the NSR, m
Xs, Ys, Hs - the coordinates of the source, m
Lsr - the slant distance between the source and NSR, m

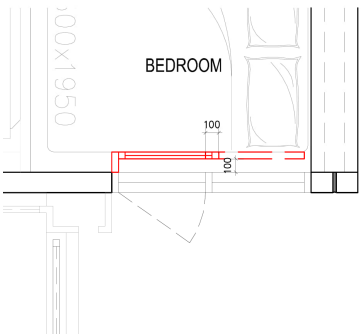
Cno - correction for no. of plant items
CLsr - the correction for slant distance between the source and the NSR, dB(A)
Cton - the tonality correction, dB(A)
Cfac - the facade correction, dB(A)
Cbar - the barrier correction, dB(A)
CNL - the corrected noise level, dB(A)(30 minutes)

APPENDIX 9A

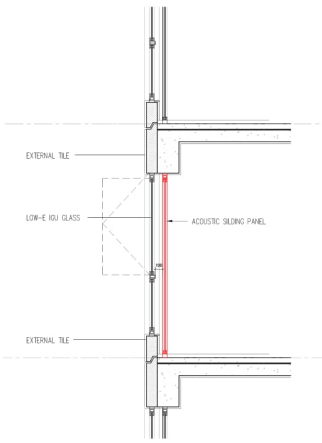
CONFIGURATION OF ACOUSTIC WINDOW DESIGN
AND
JUSTIFICATION OF NOISE PERFORMANCE, FOR SITE 2

Acoustic Window (Baffle Type)

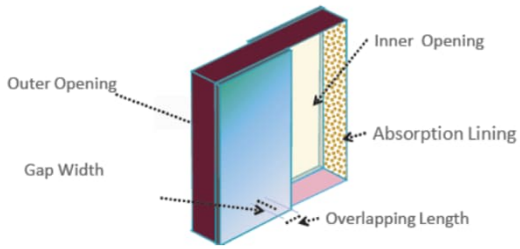
All Acoustic Window (baffle type) is reference to PN5/23	
The overlapping width:	100mm
Air gap width:	100mm
Maximum window opening area for MBR / BR	0.522m^2



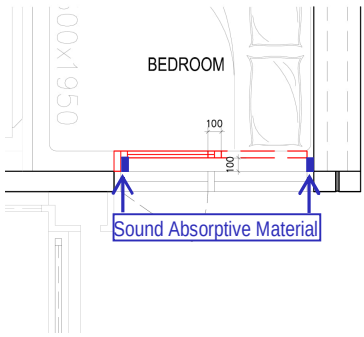
Plan View



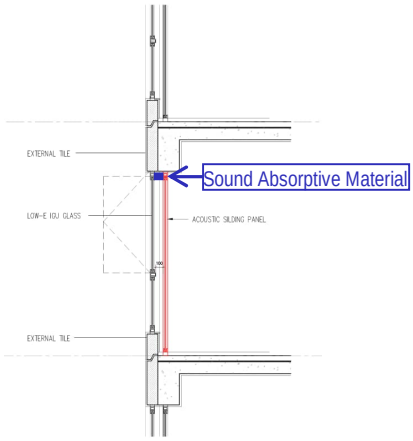
Section



For NSR no: 514, Sound Absorptive Material is required for the Acoustic Window (baffle type)	
Noise Reduction Coefficient:	≥ 0.7
Apply to top and outer opening side of mullion	



Plan View

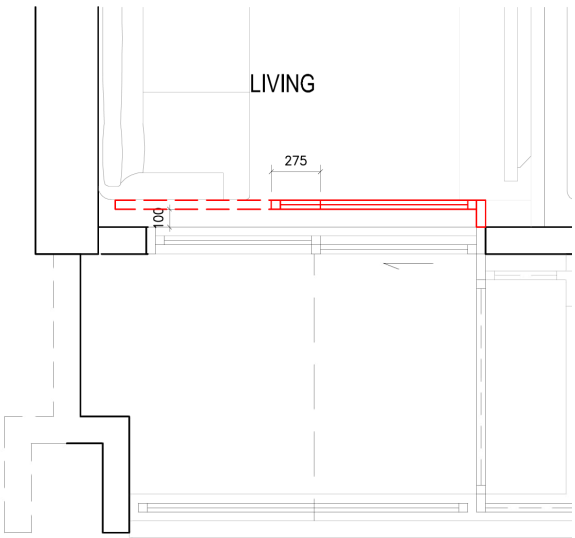


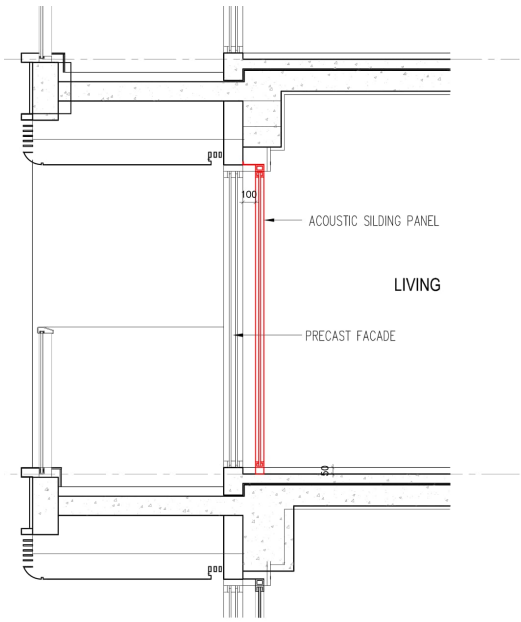
Section

Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Noise Mitigation Measures**	**A9A-1**

Acoustic Door (Baffle Type)

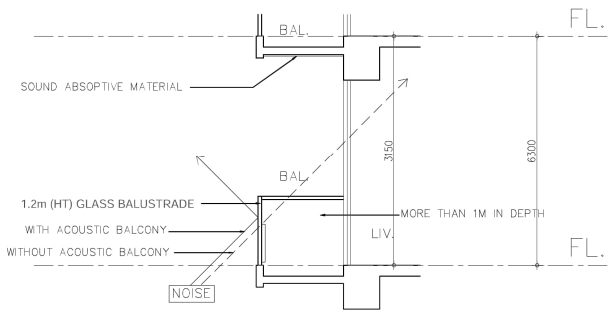
For the Living room, the door design reference to Ex-North Point Development	
Additional sliding panel behind the balcony's sliding door	
Overlapping Width:	275mm
Air gap width:	100mm
Maximum opening area for LIV	3.2m^2





Acoustic Balcony

For NSR nos: 426 and 427, Acoustic Balcony is required	
Height of solid parapet:	1.2m above ground
Ceiling:	Sound Absorptive Material



Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22583 Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon	**Noise Mitigation Measures**	**A9A-2**

Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon

Justification of Acoustic Window (Baffle Type) and Acoustic Door (Baffle Type):-

Tower 1

	Room	NSR no.	Noise Level	Noise Exceedance	Proposed Development			Acoustic Window (Baffle Type) from Reference Case [1] [2]				Correction		Corrected Noise Reduction	Noise Level with Acoustic Window	Comply 70dB(A)
					Room Size	Openable Area	Sound Absorptive Material	Room Size (Ref.)	Openable Window (Ref.)	Noise Reduction (Ref.)	Sound Absorptive Material	Room Size	OA			
T1	MBR	301	74.1	Y	5.8	3.200	N	8	0.522	6	N	-1.40	-7.87	-3.3	77.4	N
	BR	302	73.7	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	77.6	N
	BR	303	73.4	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	77.3	N
	LIV	304	73.4	Y	14.0	0.522	N	38.3	3.2	8.8	N	-4.37	0	4.4	69.0	Y
	LIV	305	73.4	Y	14.0	0.522	N	38.3	3.2	8.8	N	-4.37	0	4.4	69.0	Y
	BR	306	73.4	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	77.3	N
	MBR	307	73.3	Y	5.8	3.200	N	8	0.522	6	N	-1.40	-7.87	-3.3	76.6	N
	MBR	308	73.3	Y	5.8	3.200	N	8	0.522	6	N	-1.40	-7.87	-3.3	76.6	N
	BR	309	73.2	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	77.1	N
	LIV	310	73.1	Y	14.0	0.522	N	38.3	3.2	8.8	N	-4.37	0	4.4	68.7	Y
	LIV	311	73.1	Y	14.0	0.522	N	38.3	3.2	8.8	N	-4.37	0	4.4	68.7	Y
	BR	312	73.2	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	77.1	N
	BR	313	73.3	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	77.2	N
	MBR	314	73.4	Y	5.8	3.200	N	8	0.522	6	N	-1.40	-7.87	-3.3	76.7	N

Tower 2B

	Room	NSR no.	Noise Level	Noise Exceedance	Proposed Development			Acoustic Window (Baffle Type) from Reference Case [1] [2]				Correction		Corrected Noise Reduction	Noise Level with Acoustic Window	Comply 70dB(A)
					Room Size	Openable Area	Sound Absorptive Material	Room Size (Ref.)	Openable Window (Ref.)	Noise Reduction (Ref.)	Sound Absorptive Material	Room Size	OA			
T2B	MBR	425	71.0	Y	5.8	3.200	N	8	0.522	6	N	-1.40	-7.87	-3.3	74.3	N
	LIV	426	71.8	Y	Acoustic Balcony, -2dB(A) adopted									2.0	69.8	Y
	LIV	427	71.5	Y	Acoustic Balcony, -2dB(A) adopted									2.0	69.5	Y
	MBR	428	72.4	Y	5.8	3.200	N	8	0.522	6	N	-1.40	-7.87	-3.3	75.7	N
	BR	429	73.1	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	77.0	N
	BR	430	73.0	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	76.9	N
	LIV	431	72.9	Y	14.0	0.522	N	38.3	3.2	8.8	N	-4.37	0	4.4	68.5	Y
	MBR	432	72.8	Y	5.8	3.200	N	8	0.522	6	N	-1.40	-7.87	-3.3	76.1	N
	MBR	433	72.7	Y	5.8	3.200	N	8	0.522	6	N	-1.40	-7.87	-3.3	76.0	N
	LIV	434	72.9	Y	14.0	0.522	N	38.3	3.2	8.8	N	-4.37	0	4.4	68.5	Y
	BR	435	72.8	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	76.7	N
	BR	436	72.8	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	76.7	N
	LIV	437	72.8	Y	14.0	0.522	N	38.3	3.2	8.8	N	-4.37	0	4.4	68.4	Y
	MBR	438	72.7	Y	5.8	3.200	N	8	0.522	6	N	-1.40	-7.87	-3.3	76.0	N
	BR	439	72.6	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	76.5	N
	LIV	440	71.6	Y	14.0	0.522	N	38.3	3.2	8.8	N	-4.37	0	4.4	67.2	Y

Tower 2A

	Room	NSR no.	Noise Level	Noise Exceedance	Proposed Development			Acoustic Window (Baffle Type) from Reference Case [1] [2]				Correction		Corrected Noise Reduction	Noise Level with Acoustic Window	Comply 70dB(A)
					Room Size	Openable Area	Sound Absorptive Material	Room Size (Ref.)	Openable Window (Ref.)	Noise Reduction (Ref.)	Sound Absorptive Material	Room Size	OA			
T2A	BR	501	73.6	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	77.5	N
	LIV	502	73.6	Y	14.0	0.522	N	38.3	3.2	8.8	N	-4.37	0	4.4	69.2	Y
	MBR	503	73.7	Y	5.8	3.200	N	8	0.522	6	N	-1.40	-7.87	-3.3	77.0	N
	BR	504	73.7	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	77.6	N
	LIV	505	73.8	Y	14.0	0.522	N	38.3	3.2	8.8	N	-4.37	0	4.4	69.4	Y
	MBR	506	73.9	Y	5.8	3.200	N	8	0.522	6	N	-1.40	-7.87	-3.3	77.2	N
	BR	507	74.0	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	77.9	N
	LIV	508	74.0	Y	14.0	0.522	N	38.3	3.2	8.8	N	-4.37	0	4.4	69.6	Y
	BR	509	74.1	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	78.0	N
	LIV	510	74.2	Y	14.0	0.522	N	38.3	3.2	8.8	N	-4.37	0	4.4	69.8	Y
	LIV	511	74.2	Y	14.0	0.522	N	38.3	3.2	8.8	N	-4.37	0	4.4	69.8	Y
	BR	512	74.4	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	78.3	N
	LIV	513	74.4	Y	14.0	0.522	N	38.3	3.2	8.8	N	-4.37	0	4.4	70.0	Y
	BR	514	74.5	Y	5.0	3.200	Y	8	0.522	7.5	Y	-2.04	-7.87	-2.4	76.9	N
	MBR	515	74.6	Y	5.8	3.200	N	8	0.522	6	N	-1.40	-7.87	-3.3	77.9	N

Tower 3

	Room	NSR no.	Noise Level	Noise Exceedance	Proposed Development			Acoustic Window (Baffle Type) from Reference Case [1] [2]				Correction		Corrected Noise Reduction	Noise Level with Acoustic Window	Comply 70dB(A)
					Room Size	Openable Area	Sound Absorptive Material	Room Size (Ref.)	Openable Window (Ref.)	Noise Reduction (Ref.)	Sound Absorptive Material	Room Size	OA			
T3	MBR	601	72.2	Y	5.8	3.200	N	8	0.522	6	N	-1.40	-7.87	-3.3	75.5	N
	BR	602	71.4	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	75.3	N
	BR	603	70.8	Y	5.0	3.200	N	8	0.522	6	N	-2.04	-7.87	-3.9	74.7	N

Note

[1] For Bedroom and Master Bedroom, Acoustic Window (Baffle Type) is adopted. It is making reference to EPD's ProPECC PN5/23 "Practice Note on Application of Innovoative Noise Mitigation Designs in Planning Private Residential Devleopments against Road Traffic Noise Impact" (PN) (i.e. 100mm overlapping width and 100mm air gap)

[2] For Living Room, Acoustic Door (Baffle Type) is adopted. It is making eference to Ex-North Point Development, which is the LIV of “The Development of an Innovative Noise Mitigation Measure for a Luxury Seaview Residential Development” by Michelle Chan and David BK Yeung, Proceedings of Inter-noise 2019, Madrid (2019) (i.e. 275mm overlapping width and 100mm air gap)

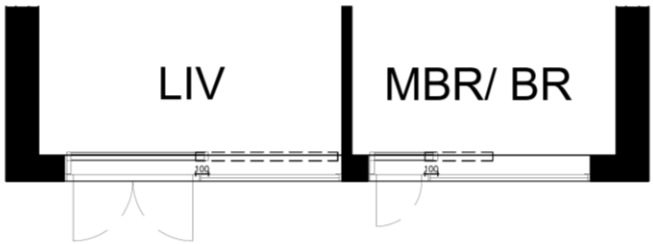
APPENDIX 9B

CONFIGURATION OF ACOUSTIC WINDOW DESIGN
AND
JUSTIFICATION OF NOISE PERFORMANCE, FOR SITE 1

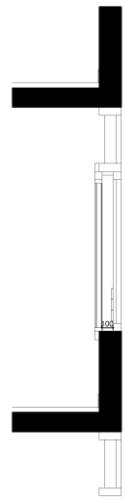
Extracted from Site 1 Approved NIA Report

Acoustic Window (Baffle Type)

All Acoustic Window (baffle type) is reference to PN5/23	
The overlapping width:	100mm
Air gap width:	100 – 175mm



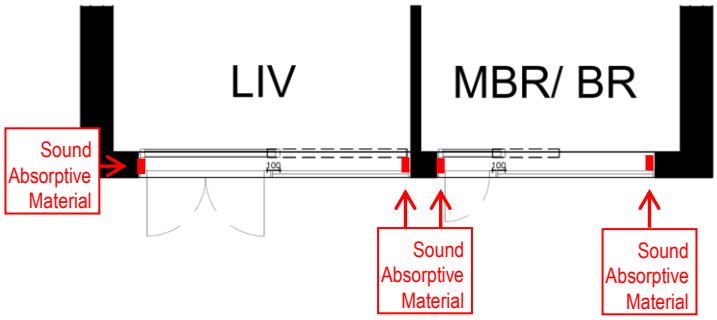
Plan View

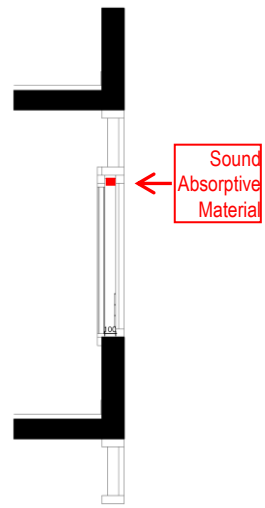


Section

Maximum window opening area for MBR / BR	0.521m^2
Maximum window opening area for LIV	1.159m^2

For NSR nos: 102, 108, 109, 114, 116, 202, 205, 208 and 217, Sound Absorptive Material is required for the Acoustic Window (baffle type)	
Noise Reduction Coefficient:	≥ 0.7
Apply to top and outer opening side of mullion	





Westwood Hong & Associates Ltd	TITLE:	FIGURE
PROJECT: 22544 Proposed Composite Development at NKIL No. 6654, Shek Kip Mei, Kowloon	**Design for Acoustic Window (baffle type)**	**A8-1**

Extracted from Site 1 Approved NIA Report

Project No. 22544
Project Title: THSE, Site 1

Justification of Acoustic Window (Baffle Type):-

Tower 1

Tower	Flat	Room	NSR no.	Maximum Noise Level (refer to Appendix 4)	Noise Exceedance	Proposed Development			Acoustic Window (Baffle Type) from Reference Case [1]				Correction		Corrected Noise Reduction	Noise Level with Acoustic Window	Comply 70dB(A)
						Room Size	Openable Area	Sound Absorptive Material	Room Size (Ref.)	Openable Window (Ref.)	Noise Reduction (Ref.)	Sound Absorptive Material	Room Size	OA			
Tower 1	G	MBR	101	75.2	Y	6.674	0.521	N	8	0.522	6	N	-0.79	0	5.2	70.0	Y
		BR1	102	75.1	Y	4.396	0.521	Y	8	0.522	7.5	Y	-2.60	0	4.9	70.2	Y
		LIV/DIN	103	75.0	Y	14.066	1.159	N	18	1.125	7	N	-1.07	-0.13	5.8	69.2	Y
	H	MBR	104	75.0	Y	5.740	0.521	N	8	0.522	6	N	-1.44	0	4.6	70.4	Y
		LIV/DIN	105	75.0	Y	13.595	1.159	N	18	1.125	7	N	-1.22	-0.13	5.7	69.3	Y
	J	MBR	106	75.0	Y	6.702	0.521	N	8	0.522	6	N	-0.77	0	5.2	69.8	Y
		LIV/DIN	107	75.0	Y	13.275	1.159	N	18	1.125	7	N	-1.32	-0.13	5.5	69.5	Y
		BR1	108	75.1	Y	5.166	0.521	Y	8	0.522	7.5	Y	-1.90	0	5.6	69.5	Y
	K	BR1	109	75.1	Y	5.166	0.521	Y	8	0.522	7.5	Y	-1.90	0	5.6	69.5	Y
		LIV/DIN	110	75.1	Y	12.803	1.159	N	18	1.125	7	N	-1.48	-0.13	5.4	69.7	Y
		MBR	111	75.1	Y	6.703	0.521	N	8	0.522	6	N	-0.77	0	5.2	69.9	Y
	L	MBR	112	75.2	Y	6.703	0.521	N	8	0.522	6	N	-0.77	0	5.2	70.0	Y
		LIV/DIN	113	75.1	Y	12.803	1.159	N	18	1.125	7	N	-1.48	-0.13	5.4	69.7	Y
		BR1	114	75.1	Y	5.166	0.521	Y	8	0.522	7.5	Y	-1.90	0	5.6	69.5	Y
	A	LIV/DIN	115	75.1	Y	18.421	1.159	N	18	1.125	7	N	0	-0.13	6.9	68.2	Y
		BR1	116	75.1	Y	4.202	0.521	Y	8	0.522	7.5	Y	-2.80	0	4.7	70.4	Y
		MBR	117	75.0	Y	6.457	0.521	N	8	0.522	6	N	-0.93	0	5.1	69.9	Y

Tower 2

Tower	Flat	Room	NSR no.	Maximum Noise Level (refer to Appendix 4)	Noise Exceedance	Proposed Development			Acoustic Window (Baffle Type) from Reference Case [1]				Correction		Corrected Noise Reduction	Noise Level with Acoustic Window	Comply 70dB(A)
						Room Size	Openable Area [2]	Sound Absorptive Material	Room Size (Ref.)	Openable Window (Ref.)	Noise Reduction (Ref.)	Sound Absorptive Material	Room Size	OA			
Tower 2	R	MBR	201	75.1	Y	6.666	0.521	N	8	0.522	6	N	-0.79	0	5.2	69.9	Y
		BR1	202	75.1	Y	4.397	0.521	Y	8	0.522	7.5	Y	-2.60	0	4.9	70.2	Y
		LIV/DIN	203	75.1	Y	15.815	1.159	N	18	1.125	7	N	-0.56	-0.13	6.3	68.8	Y
	Q	LIV/DIN	204	75.1	Y	15.814	1.159	N	18	1.125	7	N	-0.56	-0.13	6.3	68.8	Y
		BR1	205	75.1	Y	4.397	0.521	Y	8	0.522	7.5	Y	-2.60	0	4.9	70.2	Y
		MBR	206	75.0	Y	6.666	0.521	N	8	0.522	6	N	-0.79	0	5.2	69.8	Y
	P	MBR	207	75.1	Y	6.666	0.521	N	8	0.522	6	N	-0.79	0	5.2	69.9	Y
		BR1	208	75.0	Y	4.397	0.521	Y	8	0.522	7.5	Y	-2.60	0	4.9	70.1	Y
		LIV/DIN	209	75.0	Y	15.394	1.159	N	18	1.125	7	N	-0.68	-0.13	6.2	68.8	Y
	N	MBR	210	75.0	Y	5.740	0.521	N	8	0.522	6	N	-1.44	0	4.6	70.4	Y
		LIV/DIN	211	74.9	Y	16.656	1.159	N	18	1.125	7	N	-0.34	-0.13	6.5	68.4	Y
	M	LIV/DIN	212	74.9	Y	16.657	1.159	N	18	1.125	7	N	-0.34	-0.13	6.5	68.4	Y
		MBR	213	74.9	Y	5.740	0.521	N	8	0.522	6	N	-1.44	0	4.6	70.3	Y
	L	MBR	214	74.9	Y	5.740	0.521	N	8	0.522	6	N	-1.44	0	4.6	70.3	Y
		LIV/DIN	215	74.9	Y	16.657	1.159	N	18	1.125	7	N	-0.34	-0.13	6.5	68.4	Y
	K	LIV/DIN	216	75.0	Y	15.882	1.159	N	18	1.125	7	N	-0.54	-0.13	6.3	68.7	Y
		BR1	217	75.0	Y	4.397	0.521	Y	8	0.522	7.5	Y	-2.60	0	4.9	70.1	Y
		MBR	218	75.2	Y	6.666	0.521	N	8	0.522	6	N	-0.79	0	5.2	70.0	Y
	S	MBR	219	70.8	Y	6.666	0.521	N	8	0.522	6	N	-0.79	0	5.2	65.6	Y

Note

[1] The Acoustic Windows adopted in the proposed Development are making reference to ProPECC PN5/23 "Application of Innovative Noise Mitigation Designs in Planning Private Residential Developments against Road Traffic Noise Impact". The overlapping width would be 100mm.

[2] As confirmed by Project Architect, the maximum Openable Area for Living Room would be 1.159m^2, for Bedroom and Master Bedroom would be 0.521m^2.

APPENDIX 10A

SCHEDULE OF NOISE MITIGATION MEASURES, FOR SITE 2

Proposed Comprehensive Redevelopment at Tai Hang Sai Estate, Shek Kip Mei, Kowloon

Schedule of Noise Mitigation Measures

Tower	Assessment Point	Room	Floor	Noise Mitigation Measures
Tower 1	301	MBR	1-17/F	Acoustic Window (baffle type)
	302	BR	1-14/F	Acoustic Window (baffle type)
	303	BR	1-12/F	Acoustic Window (baffle type)
	304	LIV	1-12/F	Acoustic Door (baffle type)
	305	LIV	1-12/F	Acoustic Door (baffle type)
	306	BR	1-12/F	Acoustic Window (baffle type)
	307	MBR	1-12/F	Acoustic Window (baffle type)
	308	MBR	1-11/F	Acoustic Window (baffle type)
	309	BR	1-11/F	Acoustic Window (baffle type)
	310	LIV	1-11/F	Acoustic Door (baffle type)
	311	LIV	1-11/F	Acoustic Door (baffle type)
	312	BR	1-11/F	Acoustic Window (baffle type)
	313	BR	1-12/F	Acoustic Window (baffle type)
	314	MBR	1-13/F	Acoustic Window (baffle type)

Tower	Assessment Point	Room	Floor	Noise Mitigation Measures
Tower 2B	425	MBR	1-3/F	Acoustic Window (baffle type)
	426	LIV	1-5/F	Acoustic Balcony
	427	LIV	1-4/F	Acoustic Balcony
	428	MBR	1-8/F	Acoustic Window (baffle type)
	429	BR	1-9/F	Acoustic Window (baffle type)
	430	BR	1-9/F	Acoustic Window (baffle type)
	431	LIV	1-8/F	Acoustic Door (baffle type)
	432	MBR	1-7/F	Acoustic Window (baffle type)
	433	MBR	1-7/F	Acoustic Window (baffle type)
	434	LIV	1-8/F	Acoustic Door (baffle type)

	435	BR	1-8/F	Acoustic Window (baffle type)
	436	BR	1-8/F	Acoustic Window (baffle type)
	437	LIV	1-7/F	Acoustic Door (baffle type)
	438	BR	1-7/F	Acoustic Window (baffle type)
	439	BR	1-7/F	Acoustic Window (baffle type)
	440	LIV	1-3/F	Acoustic Door (baffle type)

Tower	Assessment Point	Room	Floor	Noise Mitigation Measures
Tower 2A	501	BR	1-10/F	Acoustic Window (baffle type)
	502	LIV	1-10/F	Acoustic Door (baffle type)
	503	MBR	1-10/F	Acoustic Window (baffle type)
	504	BR	1-10/F	Acoustic Window (baffle type)
	505	LIV	1-10/F	Acoustic Door (baffle type)
	506	MBR	1-11/F	Acoustic Window (baffle type)
	507	BR	1-11/F	Acoustic Window (baffle type)
	508	LIV	1-11/F	Acoustic Door (baffle type)
	509	BR	1-11/F	Acoustic Window (baffle type)
	510	LIV	1-11/F	Acoustic Door (baffle type)
	511	LIV	1-11/F	Acoustic Door (baffle type)
	512	BR	1-12/F	Acoustic Window (baffle type)
	513	LIV	1-12/F	Acoustic Door (baffle type)
	514	BR	1-12/F	Acoustic Window (baffle type), with Sound Absorptive Material
	515	MBR	1-12/F	Acoustic Window (baffle type)

Tower	Assessment Point	Room	Floor	Noise Mitigation Measures
Tower 3	601	MBR	1-5/F	Acoustic Window (baffle type)
	602	BR	1-3/F	Acoustic Window (baffle type)
	503	BR	1-2/F	Acoustic Window (baffle type)

The Applicant shall undertake the implementation of the recommended noise mitigation measures above.

APPENDIX 10B

SCHEDULE OF NOISE MITIGATION MEASURES, FOR SITE 1

Proposed Composite Development at NKIL No. 6654, Shek Kip Mei, Kowloon

Schedule of Noise Mitigation Measures

1. Acoustic Window (Baffle Type)

Tower	Flat	Floor	Location	Assessment Point	Sound Absorptive Material
Tower 1	Flat G	3/F – 28/F	MBR	101	-
		3/F – 26/F	BR1	102	YES
		3/F – 25/F	LIV / DIN	103	-
	Flat H	3/F – 23/F	MBR	104	-
		3/F – 25/F	LIV / DIN	105	-
	Flat J	3/F – 25/F	MBR	106	-
		3/F – 25/F	LIV / DIN	107	-
		3/F – 25/F	BR1	108	YES
	Flat K	3/F – 25/F	BR1	109	YES
		3/F – 25/F	LIV / DIN	110	-
		3/F – 25/F	MBR	111	-
	Flat L	3/F – 26/F	MBR	112	-
		3/F – 25/F	LIV / DIN	113	-
		3/F – 25/F	BR1	114	YES
	Flat A	3/F – 25/F	LIV / DIN	115	-
		3/F – 25/F	BR1	116	YES
		3/F – 25/F	MBR	117	-
Tower 2	Flat R	3/F – 26/F	MBR	201	-
		3/F – 26/F	BR1	202	YES
		3/F – 26/F	LIV / DIN	203	-
	Flat Q	3/F – 26/F	LIV / DIN	204	-
		3/F – 26/F	BR1	205	YES
		3/F – 26/F	MBR	206	-
	Flat P	3/F – 27/F	MBR	207	-
		3/F – 26/F	BR1	208	YES
		3/F – 26/F	LIV / DIN	209	-