Appendix 2.1

Schematic Sections

FLAT MIX	No. of Storeys	Flat Type B	C	D	No. of Flats
Block A	41	205	574	164	943
Block B	41	328	410	246	984
Total No. of Flats		**533**	**984**	**410**	**1927**
Flat Mix		27.66%	51.06%	21.28%	100%

N

Cycling Track

FP

CYCLING TRACK

EVA / DRIVE WAY

BD01

ET

Cycling Track

7m DRAINAGE RESERVE

BD02

BD03

BD04

EVA

EVA

SHEUNG SHUI CYCLING ENTRY / EXIT HUB

Subway

PO SHEK WU ROAD

CYCLING TRACK

WATER WORK RESERVE

CYCLING TRACK

BD05

BD06

BD07

BLOCK A
(41 DOMESTIC STOREYS +
1 STOREY REFUGE FLOOR)
(23 FLATS PER FLOOR)

BLOCK B
(41 DOMESTIC STOREYS +
1 STOREY REFUGE FLOOR)
(24 FLATS PER FLOOR)

BD08 BD09 BD10

BD11 BD12 BD13

BD14 BD15

T126 T127 T128 T129

T119 T120 T121 T122 T123 T124 T125

T092

PLANTER

SAN WAN ROAD

CYCLING TRACK

MTR (EAST RAIL LINE)

ated Road

PROJECT

PROPOSED DEVELOPMENT OF PUBLIC HOUSING AT PO SHEK WU ROAD, SHEUNG SHUI

DRAWING TITLE

SITE LAYOUT PLAN (TYPICAL FLOOR)

(UNMITIGATED OPTION)

SCALE 1 :600(A3)

房 屋 署
HOUSING DEPARTMENT

編 號 PLAN No.

日 期 DATE:

BLOCK A
(41 Domestic storeys + 1 refuge floor)

BLOCK B
(41 Domestic storeys + 1 refuge floor)

+148.115

+148.115

(+149m MAX.)

2.79m

2.75 x 22 = 60.5m

3.5m

2.75 x 18 = 49.5m

2.5m 1.6m

0.25m

6m

45/F

40/F

25/F

22/F

20/F

15/F

10/F

5/F

4/F +31.825

+31.825

REFUGE FLOOR

REFUGE FLOOR

TRANSFER STRUCTURE

TRANSFER STRUCTURE

140.14m

FOOTBRIDGE (FB1) CONNECT TO SHEUNG SHUI AREA 4 & 30 SITE 2

FOOTBRIDGE (FB3) TO MTR STATION

+27.50

+27.725

+27.725

+23.00

+23.0

+23.0

+22.775

4.725m

4.5m

+18.275

+18.275

+18.275

SALON

LAUNDROMAT

EDU

GENERAL SHOPS

CARPARK

+13.55

+13.55

+13.55

+14.80

BICYCLE PARKING

+7.30

SUPERMARKET

+7.55

+7.55

DISTRICT MANAGEMENT OFFICE

CHILD CARE CENTRE

Section

1:500 @A3

Appendix 4.1

Proposed road traffic noise mitigation measures at Po Shek Wu Road provided by CEDD

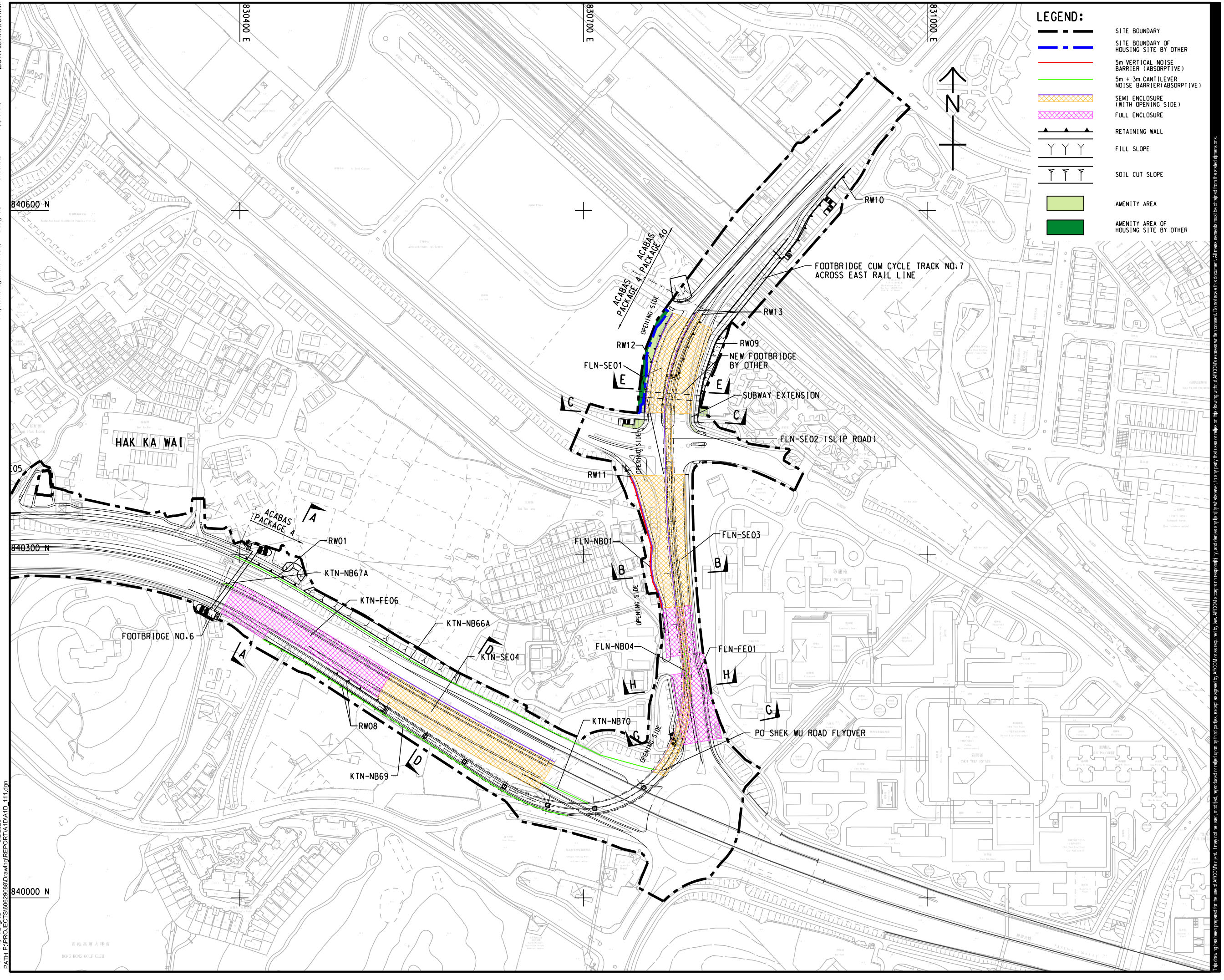
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



Plot File by: YangRO
PATH: P:\PROJECTS\60629088\Drawing\REPORT\A1DA1D_111.dgn
6/2/2023

AECOM

PROJECT
項目

IMPROVEMENT OF TAI TAU LENG ROUNDABOUT AND FANLING HIGHWAY (KWU TUNG SECTION) - DESIGN & CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
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ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS
階段

SCALE 比例
A1 1 : 1500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60629088

CONTRACT NO. 合約編號
CE 20/2019 (HY)

SHEET TITLE
圖紙名稱

GENERAL ARRANGEMENT - PO SHEK WU ROAD

SHEET NUMBER
圖紙編號

60629088/A1D/111

ISO A1 594mm x 841mm

Approved:

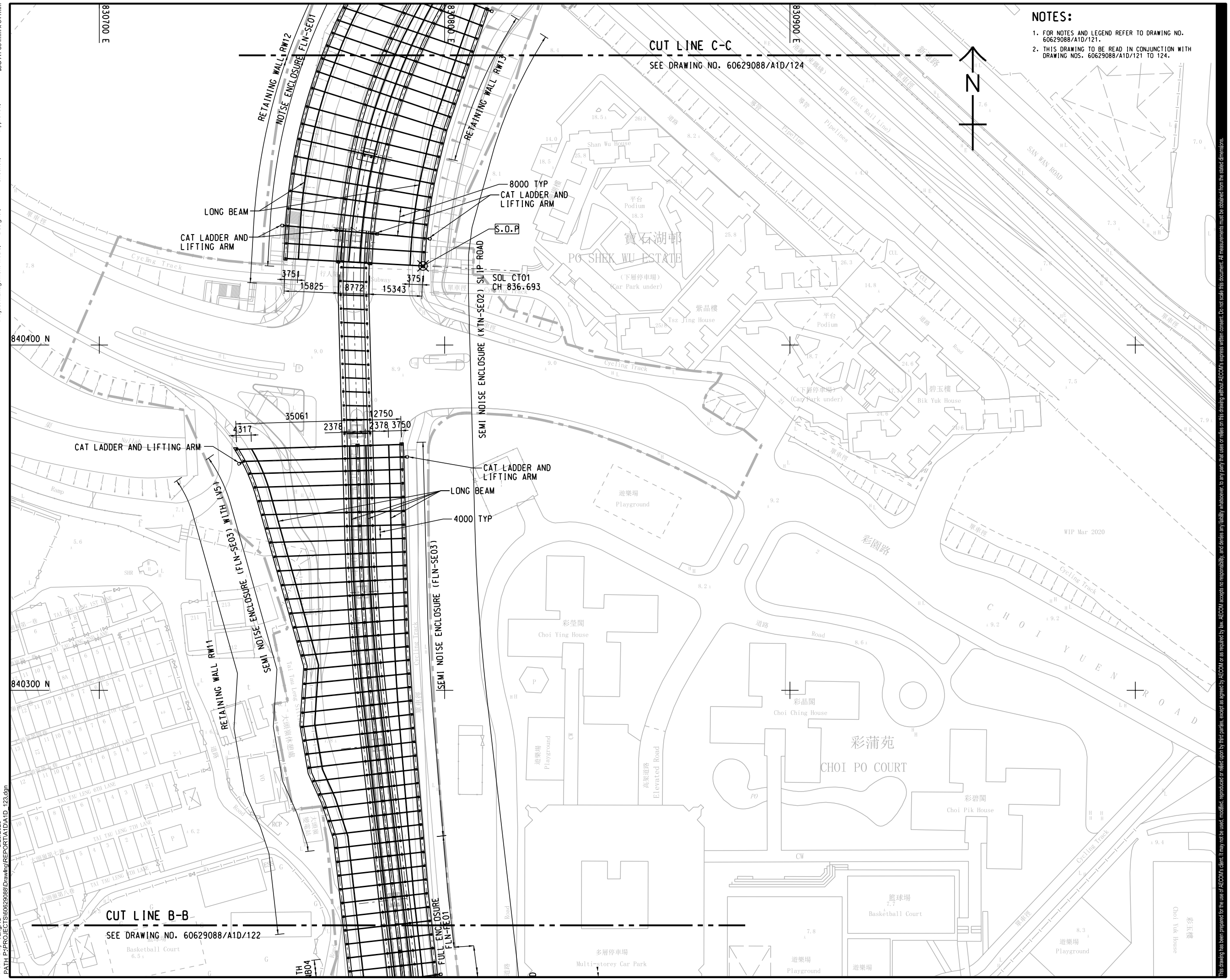
Checked:

Designer:

Project Management Initials:

NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60629088/A1D/121.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60629088/A1D/121 TO 124.



Plot File by: YangRO
PATH: P:\PROJECTS\60629088\Drawing\REPORT\A1D\A1D_123.dgn
5/29/2023

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PROJECT
項目

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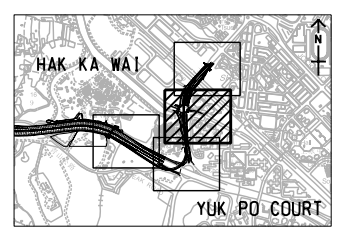
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS
狀況

SCALE 比例: A1 1 : 500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A1 1 : 20000



PROJECT NO. 項目編號: 60629088

CONTRACT NO. 合約編號: CE 20/2019 (HY)

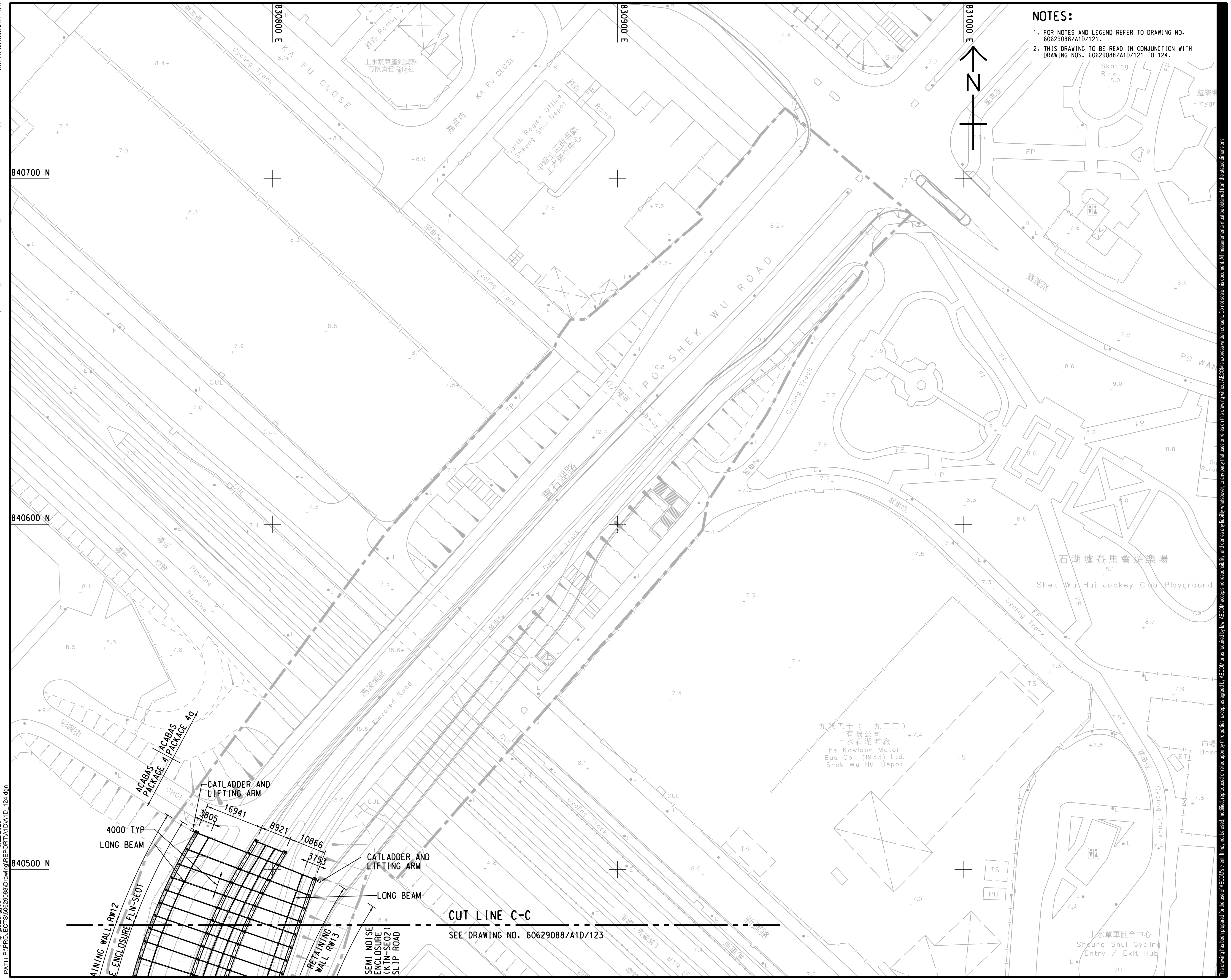
SHEET TITLE
圖紙名稱

NOISE MITIGATION MEASURES
STRUCTURAL LAYOUT PLAN

SHEET 3 OF 4

SHEET NUMBER
圖紙編號

60629088/A1D/123


840700 N
840600 N
840500 N
830800 E
830900 E
831000 E
N
KA FU CLOSE
North Region Office Sheung Shui Depot
中區北區辦事處 上水運作中心
PO SHEK WU ROAD
寶石湖路
Cycling Track
Elevated Road
高架道路
Pipeline
石湖墟賽馬會遊樂場
Shek Wu Hui Jockey Club Playground
九龍巴士（一九三三）有限公司 上水石湖墟廠
The Kowloon Motor Bus Co., (1933) Ltd. Shek Wu Hui Depot
上水單車匯合中心
Sheung Shui Cycling Entry / Exit Hub
ACABAS PACKAGE 4
ACABAS PACKAGE 4a
CATLADDER AND LIFTING ARM
4000 TYP
LONG BEAM
3805
16941
8921
10866
3753
RETAINING WALL RW12
SEMI NOISE ENCLOSURE FLN-SE01
RETAINING WALL RW13
SEMI NOISE ENCLOSURE (KTN-SE02) SLIP ROAD
CUT LINE C-C
SEE DRAWING NO. 60629088/A1D/123

NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60629088/A1D/121.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60629088/A1D/121 TO 124.

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PROJECT 項目

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CLIENT 業主

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CEDD Civil Engineering and Development Department

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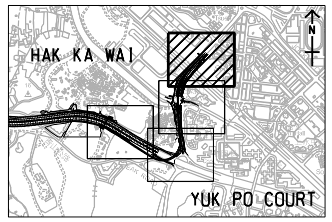
STATUS 階段

SCALE 比例	**DIMENSION UNIT** 尺寸單位
A1 1 : 500	METRES

KEY PLAN 索引圖 A1 1 : 20000



PROJECT NO. 項目編號	**CONTRACT NO.** 合約編號
60629088	CE 20/2019 (HY)

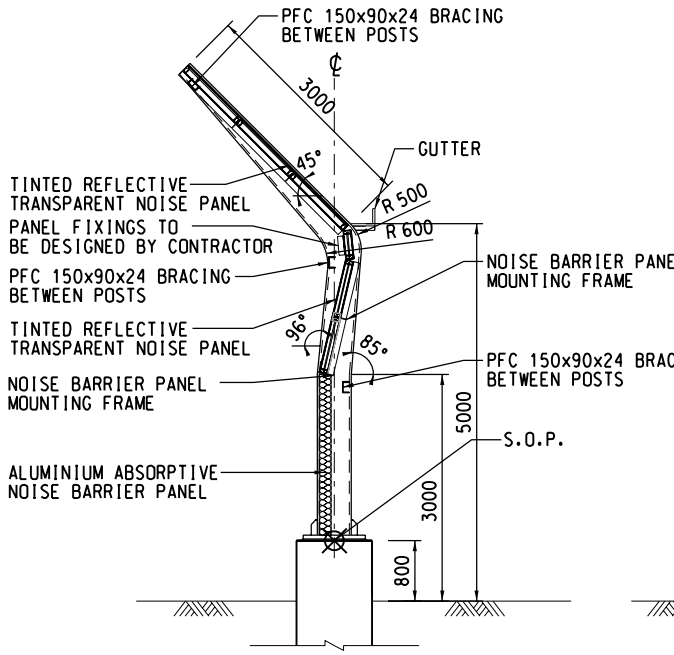
SHEET TITLE 圖紙名稱

NOISE MITIGATION MEASURES STRUCTURAL LAYOUT PLAN

SHEET 4 OF 4

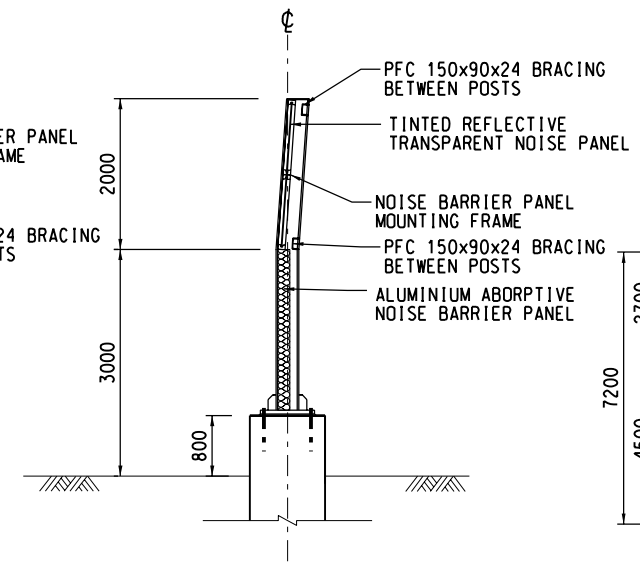
SHEET NUMBER 圖紙編號

60629088/A1D/124



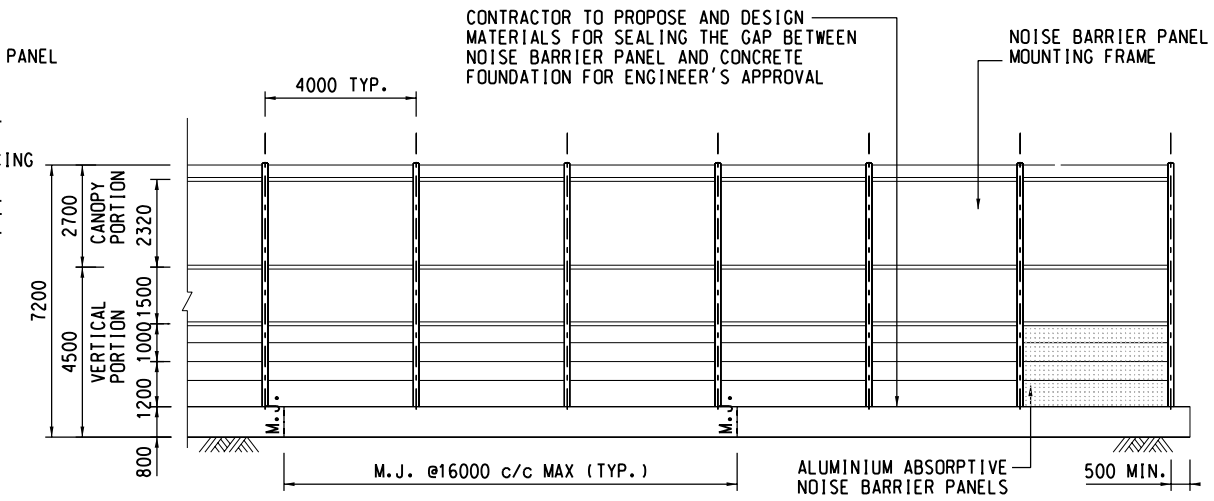
NOISE BARRIER TYPE V5+C3

SCALE 1 : 50



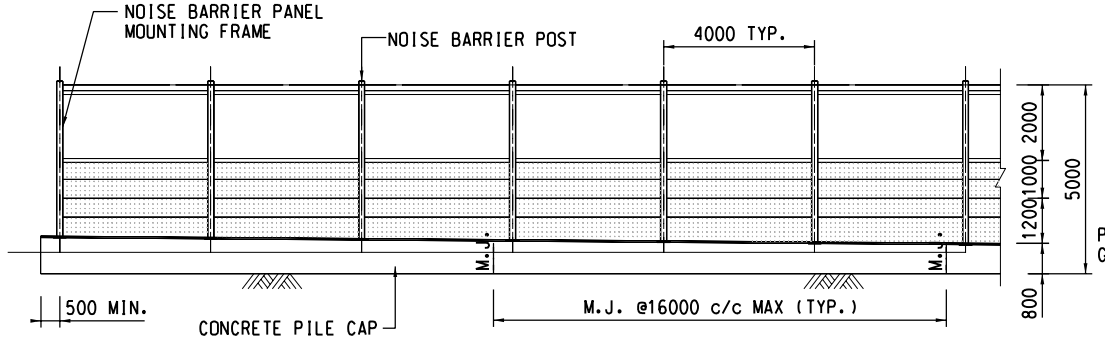
NOISE BARRIER TYPE V5

SCALE 1 : 50



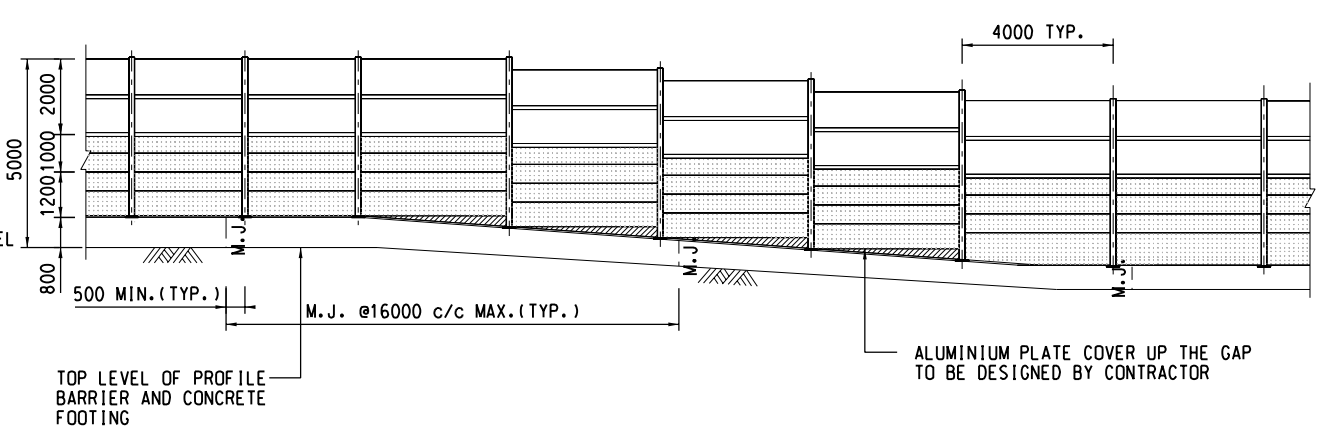
ELEVATION FOR NOISE BARRIER TYPE V5+C3

SCALE 1 : 100



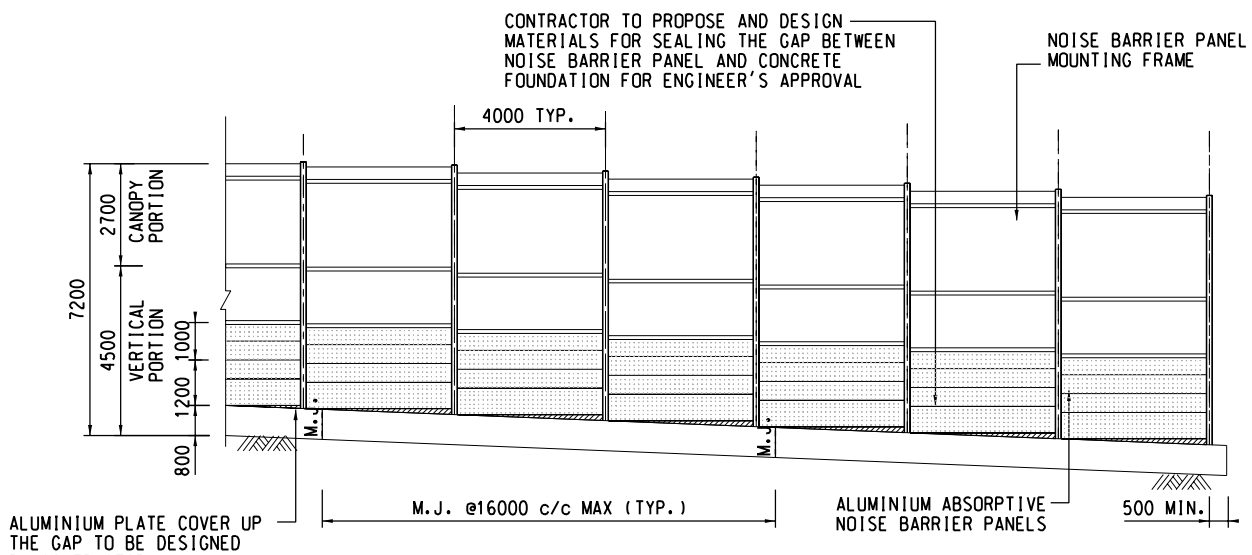
ELEVATION FOR NOISE BARRIER TYPE V5

SCALE 1 : 100



TYPICAL ELEVATION OF NOISE BARRIER TYPE V5 FOR INCLINED GROUND

SCALE 1 : 100



TTPICAL ELEVATION OF NOISE BARRIER TYPE V5+C3 FOR INCLINED GROUND

SCALE 1 : 100

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PROJECT
項目

IMPROVEMENT OF TAI TAU LENG ROUNDABOUT AND FANLING HIGHWAY (KWU TUNG SECTION) - DESIGN & CONSTRUCTION

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業主

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Civil Engineering and Development Department

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STATUS
階段

SCALE 比例	DIMENSION UNIT 尺寸單位
A1 AS SHOWN	MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號	CONTRACT NO. 合約編號
60629088	CE 20/2019 (HY)

SHEET TITLE
圖紙名稱

NOISE BARRIER - TYPICAL DETAILS

SHEET 1 OF 4

SHEET NUMBER
圖紙編號

60629088/A1D/133

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

Plot File by: qingxl.zengyao 5/18/2023
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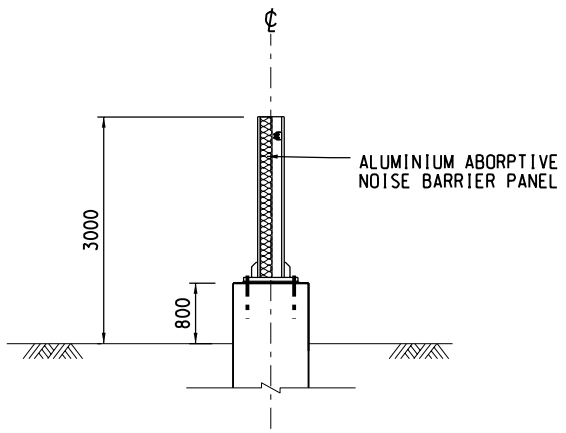
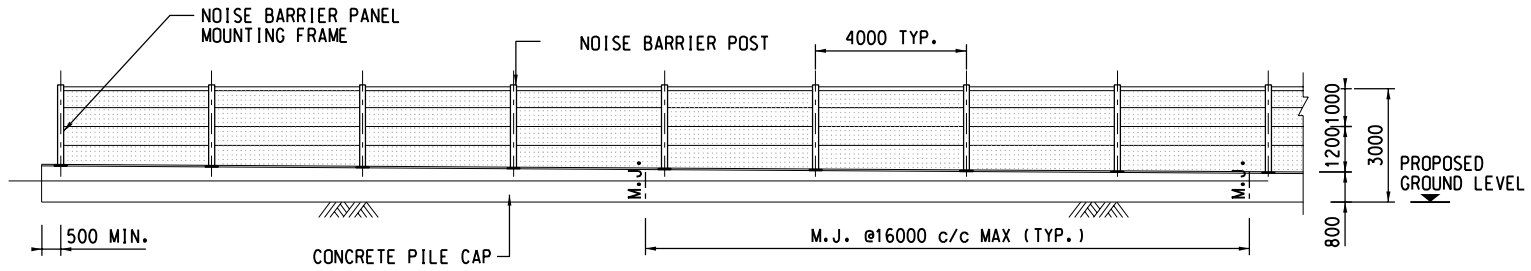


NOISE BARRIER TYPE V3
SCALE 1 : 50



ELEVATION FOR NOISE BARRIER TYPE V3
SCALE 1 : 100

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

Plot File by: qingxiz.engyao 5/18/2023
PATH: P:\PROJECTS\60629088\Drawing\REPORT\A1D\A1D_134.dgn

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PROJECT
項目

IMPROVEMENT OF TAI TAU LENG ROUNDABOUT AND FANLING HIGHWAY (KWU TUNG SECTION) - DESIGN & CONSTRUCTION

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STATUS
階段

SCALE 比例
A1 AS SHOWN

DIMENSION UNIT 尺寸單位
MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60629088

CONTRACT NO. 合約編號
CE 20/2019 (HY)

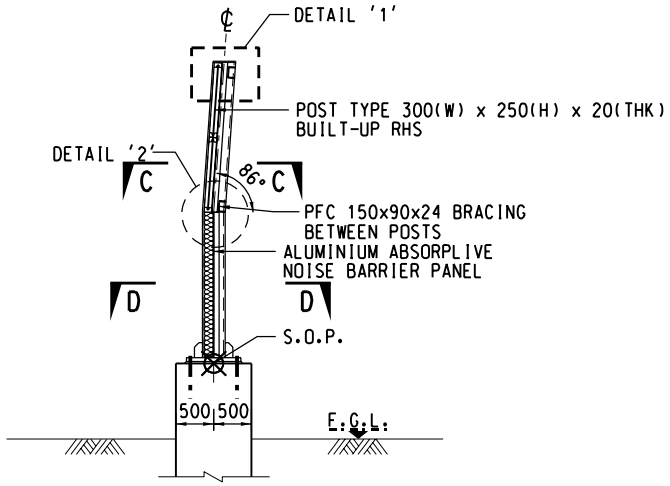
SHEET TITLE
圖紙名稱

NOISE BARRIER - TYPICAL DETAILS

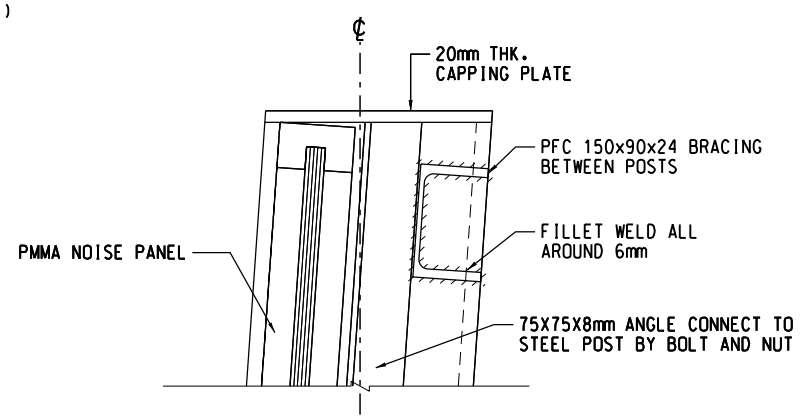
SHEET 2 OF 4

SHEET NUMBER
圖紙編號

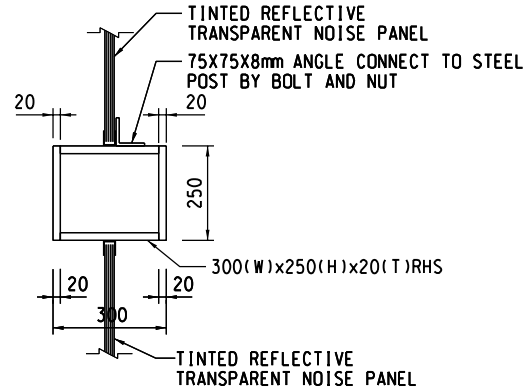
60629088/A1D/134



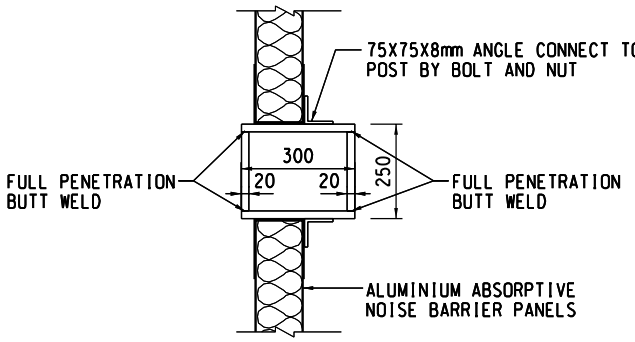
STEELWORKS DETAILS OF
NOISE BARRIER TYPE V5
SCALE 1 : 50



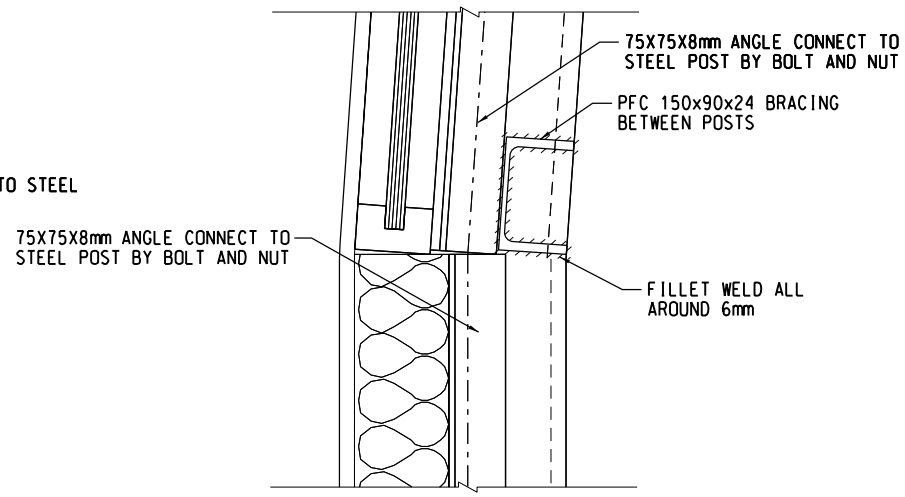
DETAIL '1'
SCALE 1 : 5



SECTION C - C
SCALE 1 : 10



SECTION D - D
SCALE 1 : 10



DETAIL '2'
SCALE 1 : 5

AECOM

PROJECT
項目

DEVELOPMENT OF
KWU TUNG NORTH
NEW DEVELOPMENT AREA,
REMAINING PHASE -
DESIGN & CONSTRUCTION

CLIENT
業主

CEDD 土木工程拓展署 Civil Engineering and Development Department

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STATUS
階段

SCALE 比例	DIMENSION UNIT 尺寸單位
A1 AS SHOWN	MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號: 60629088
CONTRACT NO. 合約編號: CE 20/2019 (HY)

SHEET TITLE
圖紙名稱

NOISE BARRIER - TYPICAL
DETAILS

SHEET 3 OF 4

SHEET NUMBER
圖紙編號

60629088/A1D/135

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

Plot File by: qingxi.zengyao 3/20/2023
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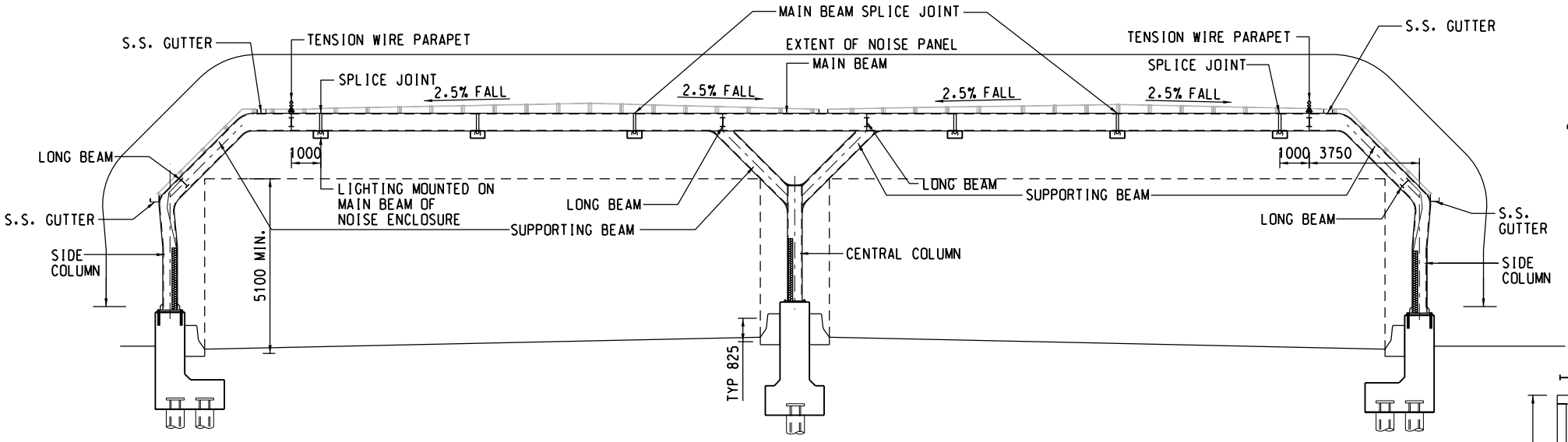
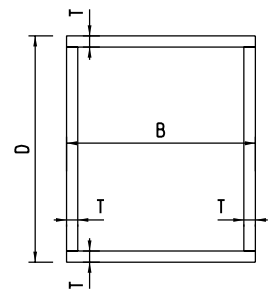
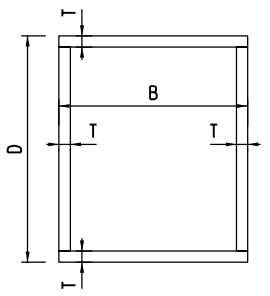


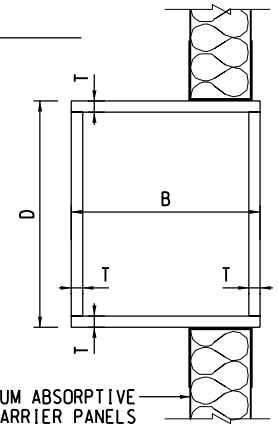
FULL NOISE ENCLOSURE FE01
SCALE 1 : 100



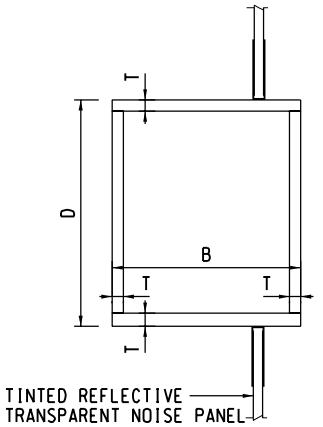
SECTION B - B
SCALE 1 : 10



SECTION A - A
(SECTION E - E SIMILAR)
SCALE 1 : 10



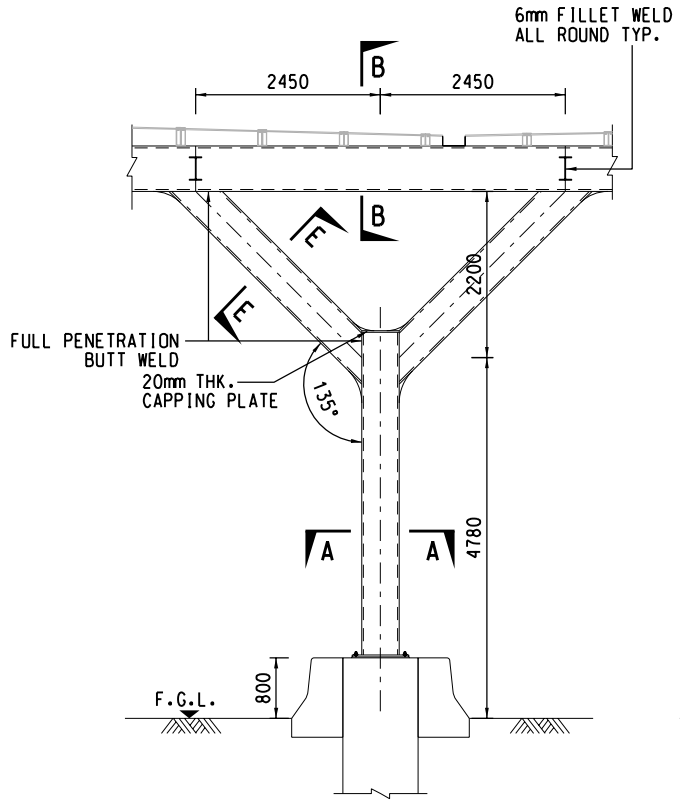
SECTION D - D
SCALE 1 : 10



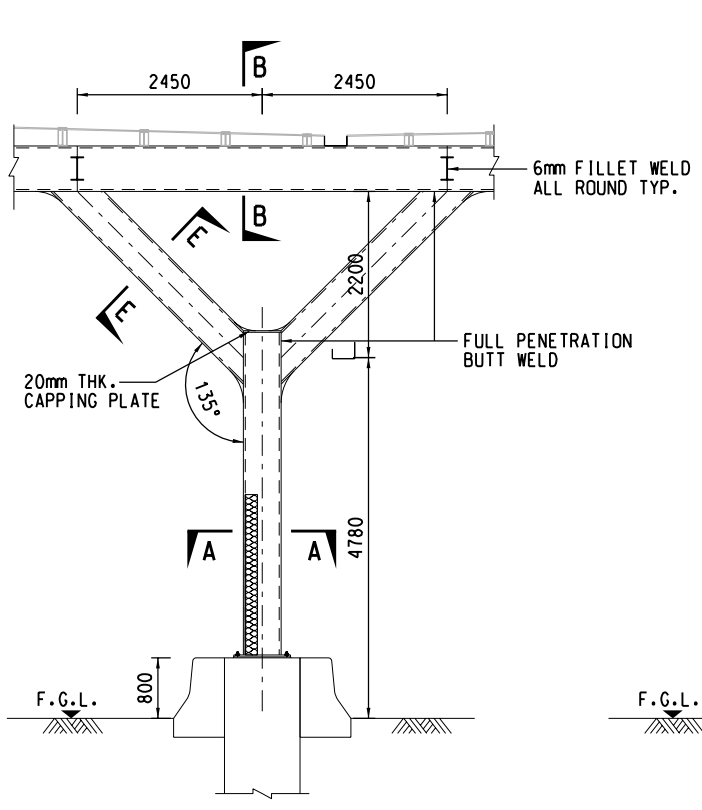
SECTION C - C
SCALE 1 : 10

STEEL MEMBER SIZES SCHEDULE

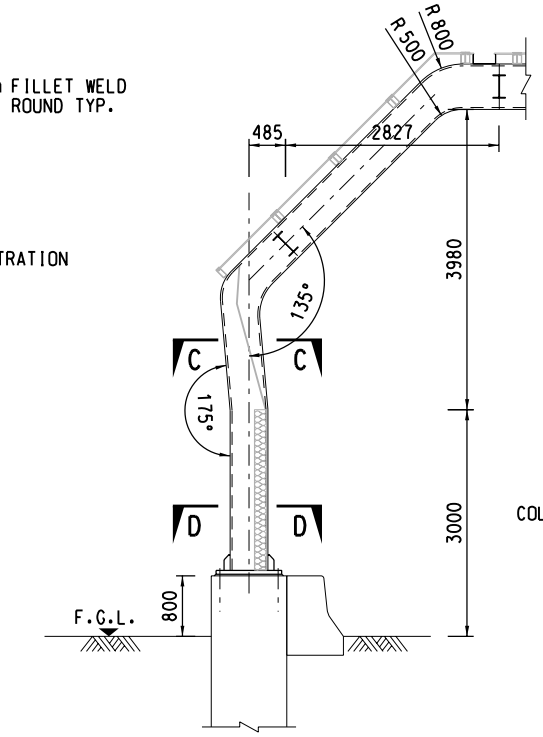
COLUMN SECTION	MAX. COLUMN HEIGHT(H)/mm	BEAM SECTION(DXBXT)	MAX. SPAN(L)/mm	SECONDARY BEAM
600X500X30 BUILT-UP BOX SECTION	6430	600X500X30 BUILT-UP BOX SECTION	26000	305X165X54KG/M UB



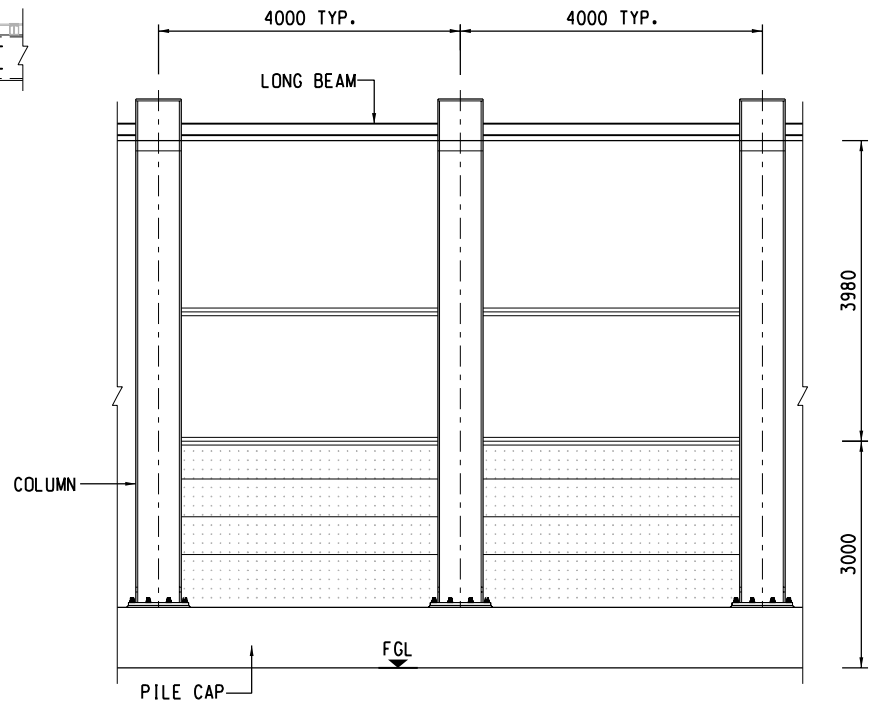
TYPICAL COLUMN DETAILS AT CENTRAL DIVIDER SCALE
SCALE 1 : 50



TYPICAL COLUMN DETAILS AT CENTRAL DIVIDER FOR FLN-FE01 WITH NOISE BARRIER KTN-NB04
SCALE 1 : 50



TYPICAL SIDE COLUMN SCALE
SCALE 1 : 50



PART ELEVATION OF FULL ENCLOSOURE FE01
SCALE 1 : 50

AECOM

PROJECT
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STATUS
階段

SCALE 比例	DIMENSION UNIT 尺寸單位
A1 AS SHOWN	MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號: 60629088
CONTRACT NO. 合約編號: CE 20/2019 (HY)

SHEET TITLE
圖紙名稱

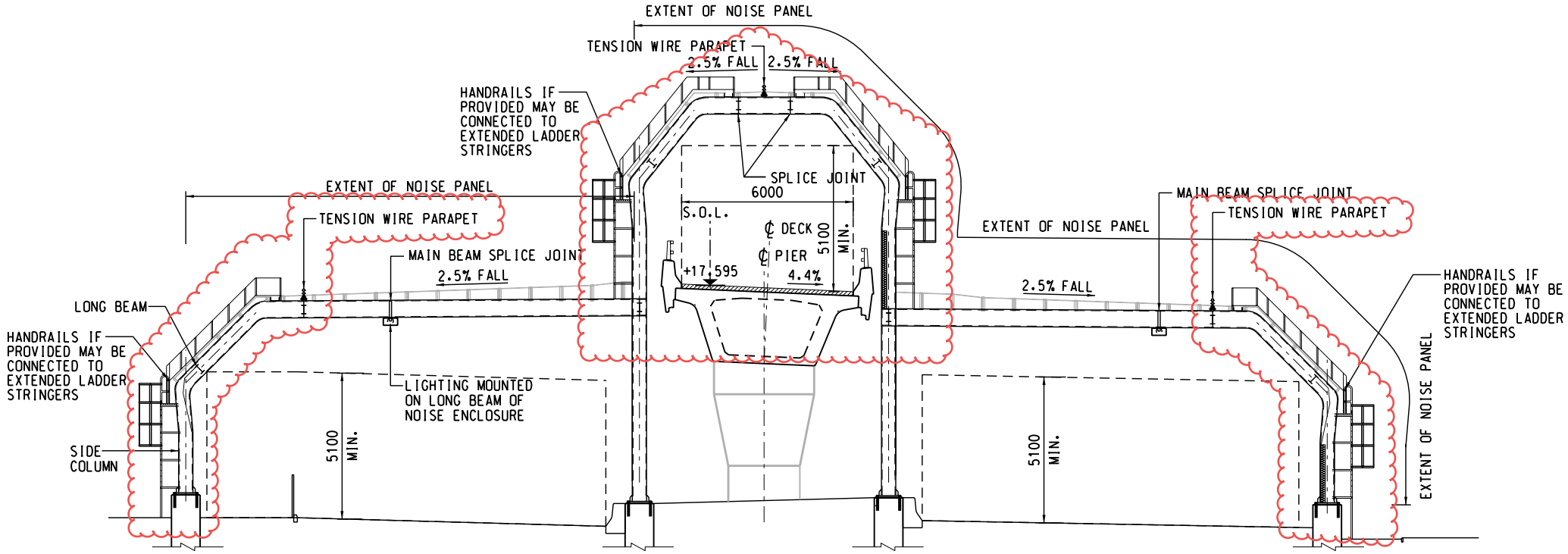
NOISE FULL ENCLOSURE FLN-FE01 GENERAL ARRANGEMENT AND DETAILS

SHEET NUMBER
圖紙編號

60629088/A1D/141

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

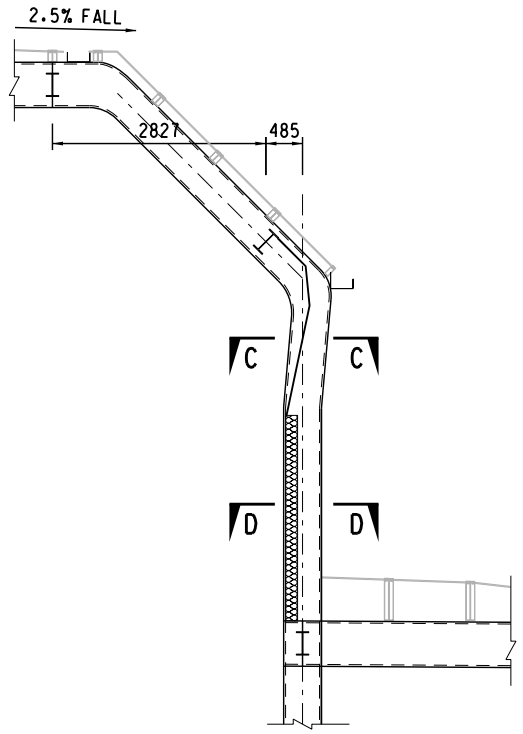
Plot File by: dingxlzengyao
PATH: P:\PROJECTS\60629088\Drawing\REPORT\A1D\A1D_141.dgn
5/22/2023



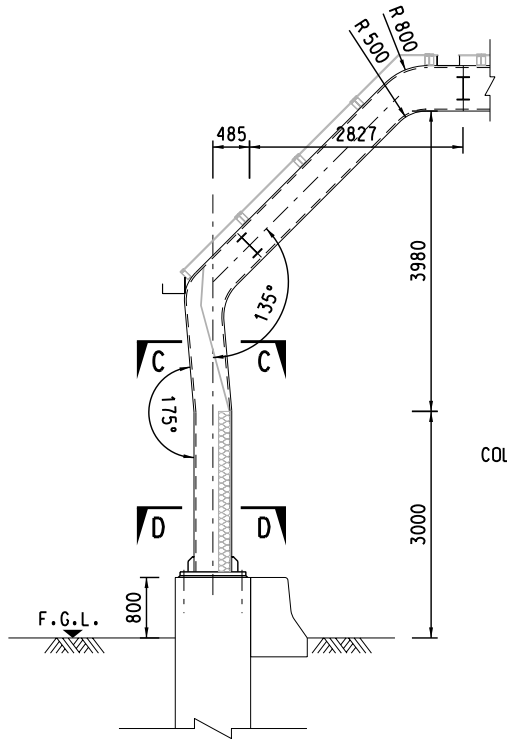
SEMI NOISE ENCLOSURE SE01
SCALE 1 : 100

STEEL MEMBER SIZES SCHEDULE

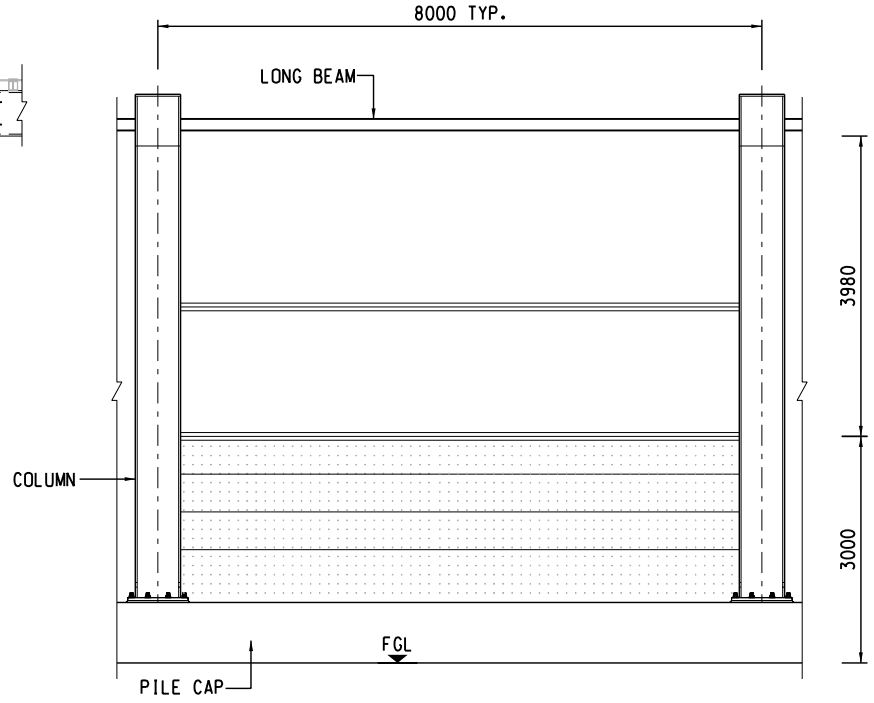
COLUMN SECTION	MAX. COLUMN HEIGHT(H)/mm	BEAM SECTION(DXBXT)	MAX. SPAN(L)/mm	SECONDARY BEAM
500(H)X400(W)X50(THK) RHS	15000	500(H)X400(W)X50(THK) RHS	17300	305X165X54KG/M UB



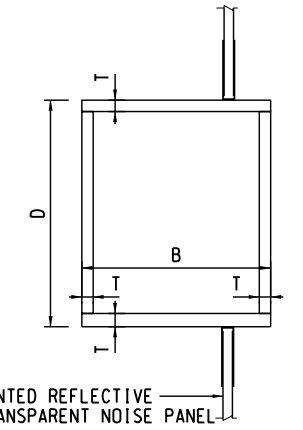
TYPICAL COLUMN DETAIL AT CENTRAL DIVIDER
SCALE 1 : 50



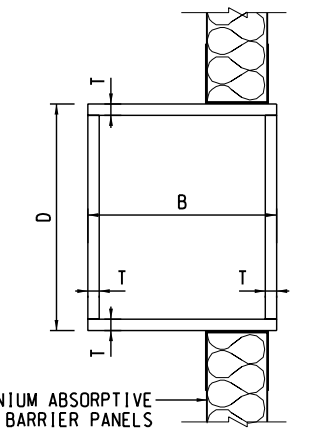
TYPICAL SIDE COLUMN
SCALE 1 : 50



PART ELEVATION OF SEMI ENCLOSURE SE01
SCALE 1 : 50



SECTION C - C
SCALE 1 : 10



SECTION D - D
SCALE 1 : 10

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

Plot File by: YangRO
PATH: P:\PROJECTS\60629088\Drawing\REPORT\A1D\A1D_142.dgn
5/23/2023

AECOM

PROJECT
項目
IMPROVEMENT OF TAI TAU LENG ROUNDABOUT AND FANLING HIGHWAY (KWU TUNG SECTION) - DESIGN & CONSTRUCTION

CLIENT
業主
土木工程拓展署 Civil Engineering and Development Department

CONSULTANT
工程顧問公司
AECOM Asia Company Ltd.
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SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS
階段

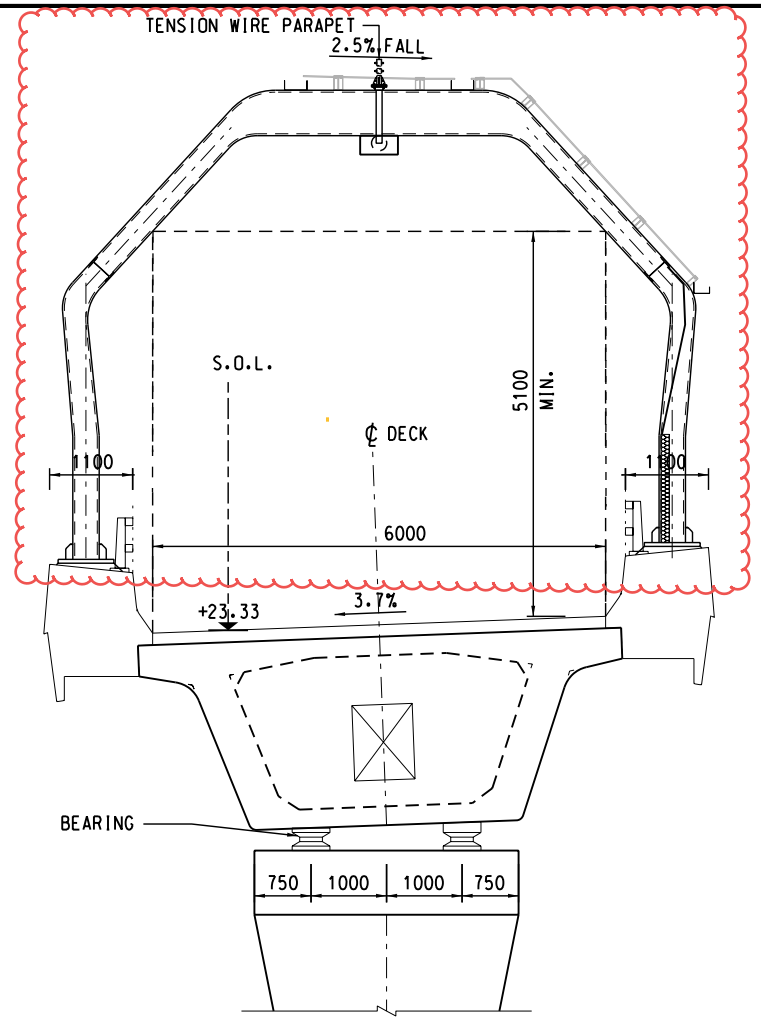
SCALE 比例: A1 AS SHOWN
DIMENSION UNIT 尺寸單位: MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號: 60629088
CONTRACT NO. 合約編號: CE 20/2019 (HY)

SHEET TITLE
圖紙名稱
NOISE SEMI ENCLOSURE KTN-SE01 GENERAL ARRANGEMENT AND DETAILS

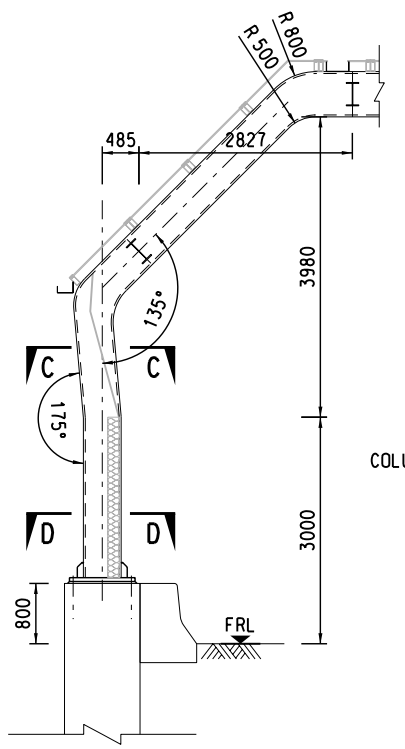
SHEET NUMBER
圖紙編號
60629088/A1D/142



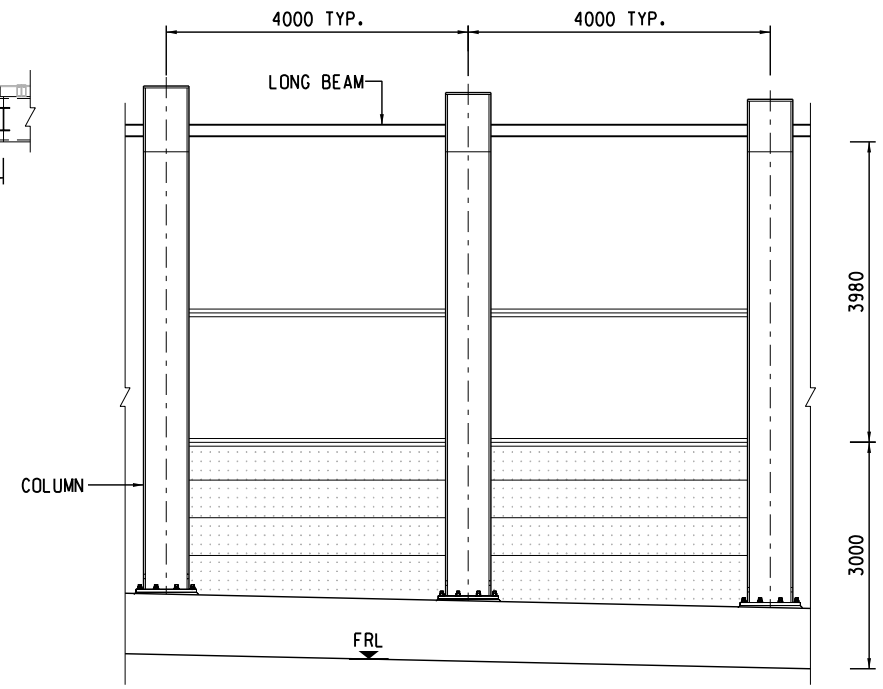
SEMI NOISE ENCLOSURE SE02
SCALE 1 : 50

STEEL MEMBER SIZES SCHEDULE

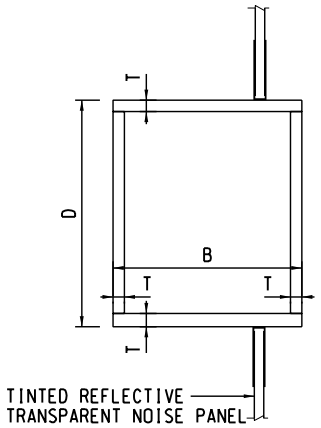
COLUMN SECTION	MAX. COLUMN HEIGHT(H)/mm	BEAM SECTION(DXBXT)	MAX. SPAN(L)/mm	SECONDARY BEAM
500X400X30 RHS	6430	500X400X30 RHS	10420	305X165X54KG/M UB



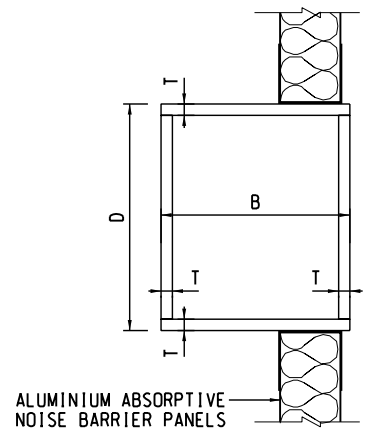
TYPICAL SIDE COLUMN
SCALE 1 : 50



PART ELEVATION OF SEMI ENCLOSURE SE02
SCALE 1 : 50



SECTION C - C
SCALE 1 : 10



SECTION D - D
SCALE 1 : 10

AECOM

PROJECT
項目
IMPROVEMENT OF TAI TAU LENG ROUNDABOUT AND FANLING HIGHWAY (KWU TUNG SECTION) - DESIGN & CONSTRUCTION

CLIENT
業主
土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
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ISSUE/REVISION
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I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS
階段

SCALE 比例
A1 1 : 50

DIMENSION UNIT 尺寸單位
MILLIMETRES

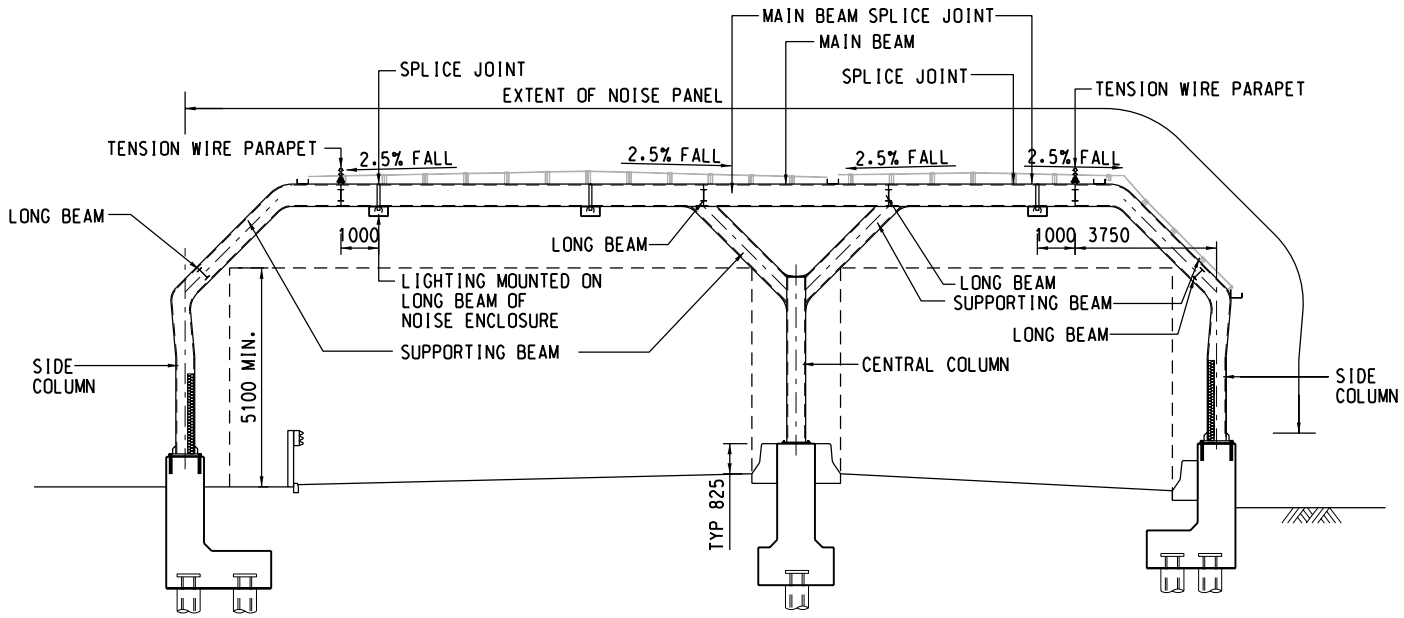
KEY PLAN
索引圖

PROJECT NO. 項目編號
60629088

CONTRACT NO. 合約編號
CE 20/2019 (HY)

SHEET TITLE
圖紙名稱
NOISE SEMI ENCLOSURE KTN-SE02 GENERAL ARRANGEMENT AND DETAILS

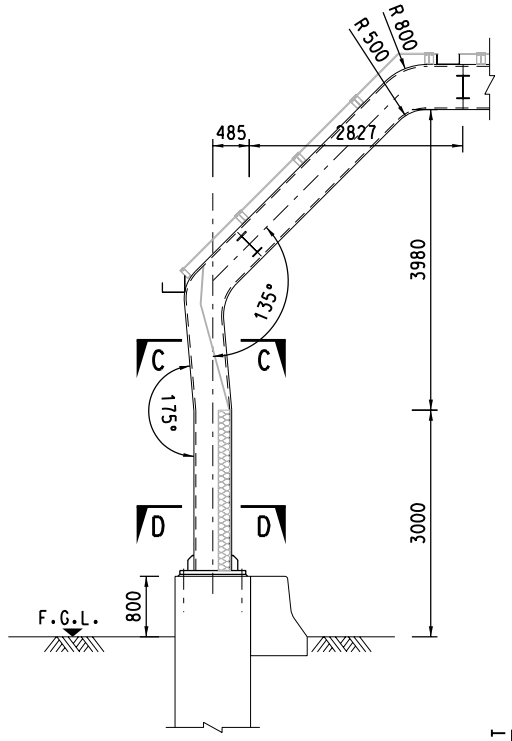
SHEET NUMBER
圖紙編號
60629088/A1D/143



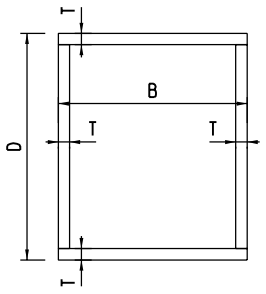
SEMI NOISE ENCLOSURE SE03
SCALE 1 : 100

STEEL MEMBER SIZES SCHEDULE

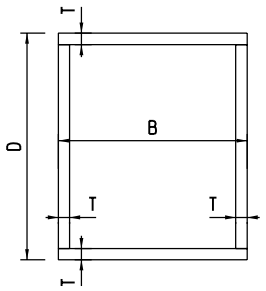
COLUMN SECTION	MAX. COLUMN HEIGHT(H)/mm	BEAM SECTION(DXBXT)	MAX. SPAN(L)/mm	SECONDARY BEAM
600X500X30 BUILT-UP BOX SECTION	6430	600X500X30 BUILT-UP BOX SECTION	29000	305X165X54KG/M UB



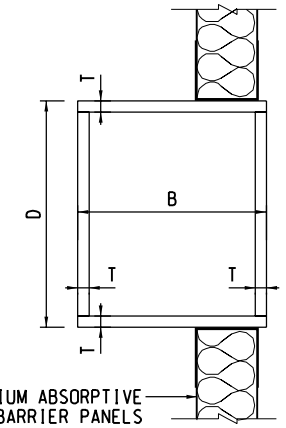
TYPICAL SIDE COLUMN
SCALE 1 : 50



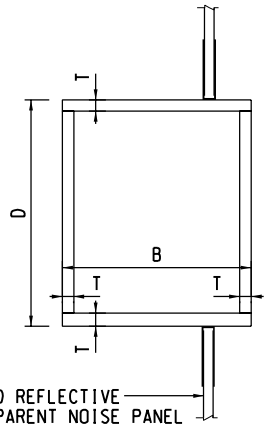
SECTION A - A
(SECTION E - E SIMILAR)
SCALE 1 : 10



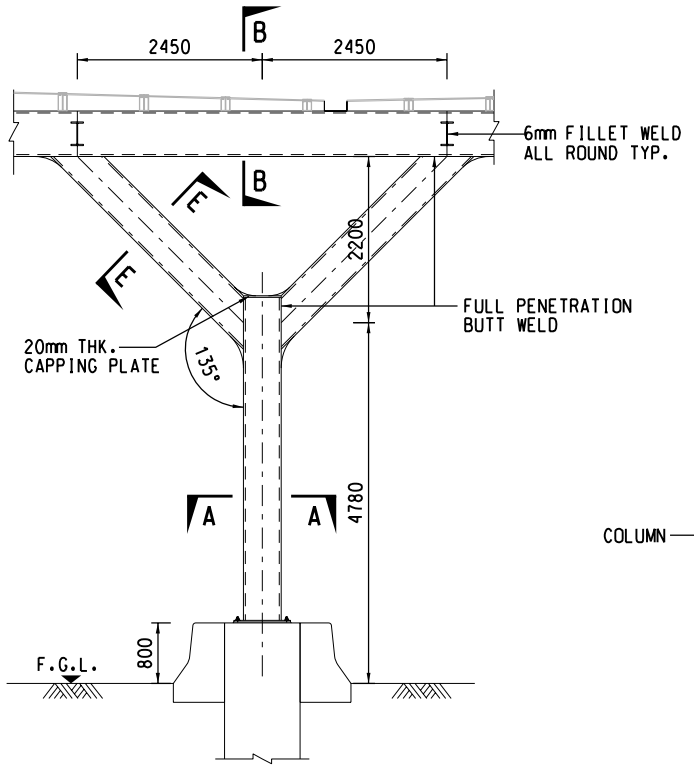
SECTION B - B
SCALE 1 : 10



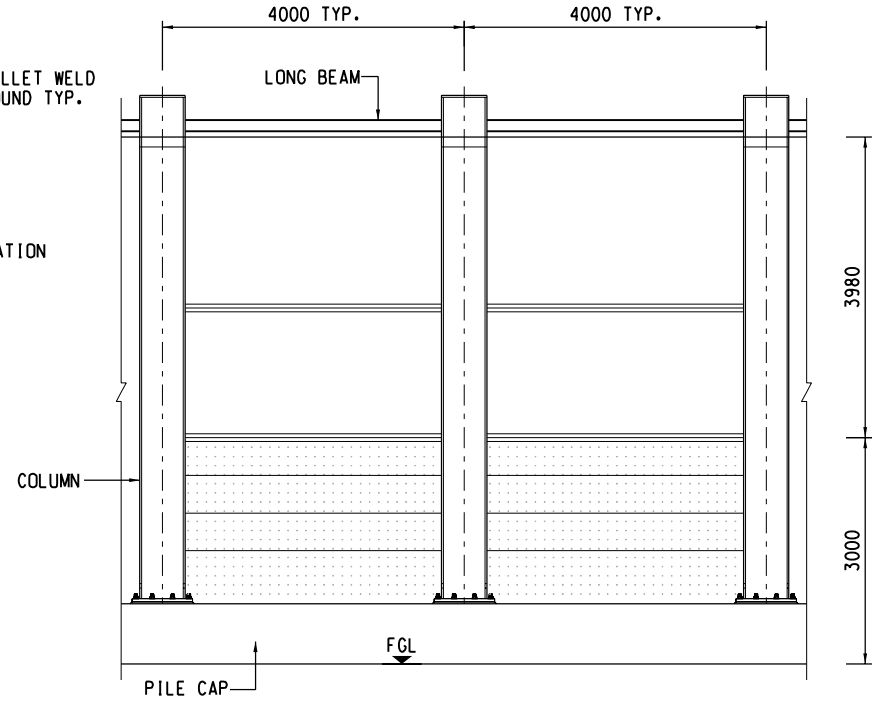
SECTION D - D
SCALE 1 : 10



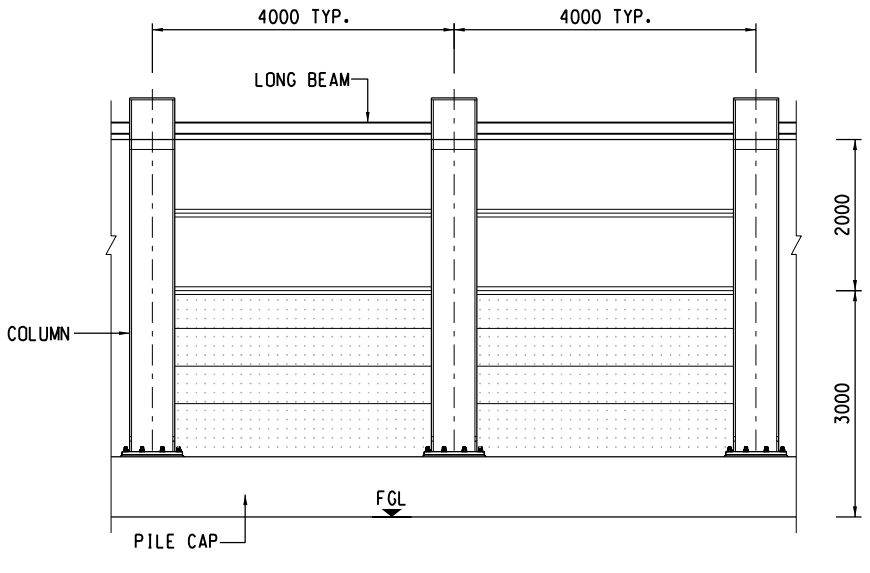
SECTION C - C
SCALE 1 : 10



TYPICAL COLUMN DETAILS AT CENTRAL DIVIDER
SCALE 1 : 50



PART ELEVATION OF SEMI ENCLOSURE SE03
SCALE 1 : 50



PART ELEVATION OF SEMI ENCLOSURE SE03 WITH NB01
SCALE 1 : 50

AECOM

PROJECT
項目

IMPROVEMENT OF TAI TAU LENG ROUNDABOUT AND FANLING HIGHWAY (KWU TUNG SECTION) - DESIGN & CONSTRUCTION

CLIENT
業主

土木工程拓展署
CEDD Civil Engineering and Development Department

CONSULTANT
土木顧問公司

AECOM Asia Company Ltd.
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SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容/摘要	CHK. 核核

STATUS
階段

SCALE 比例: A1 AS SHOWN

DIMENSION UNIT 尺寸單位: MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號: 60629088

CONTRACT NO. 合約編號: CE 20/2019 (HY)

SHEET TITLE
圖紙名稱

NOISE SEMI ENCLOSURE KTN-SE03 GENERAL ARRANGEMENT AND DETAILS

SHEET NUMBER
圖紙編號

60629088/A1D/144

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

Plot File by: qingxt.zengyao
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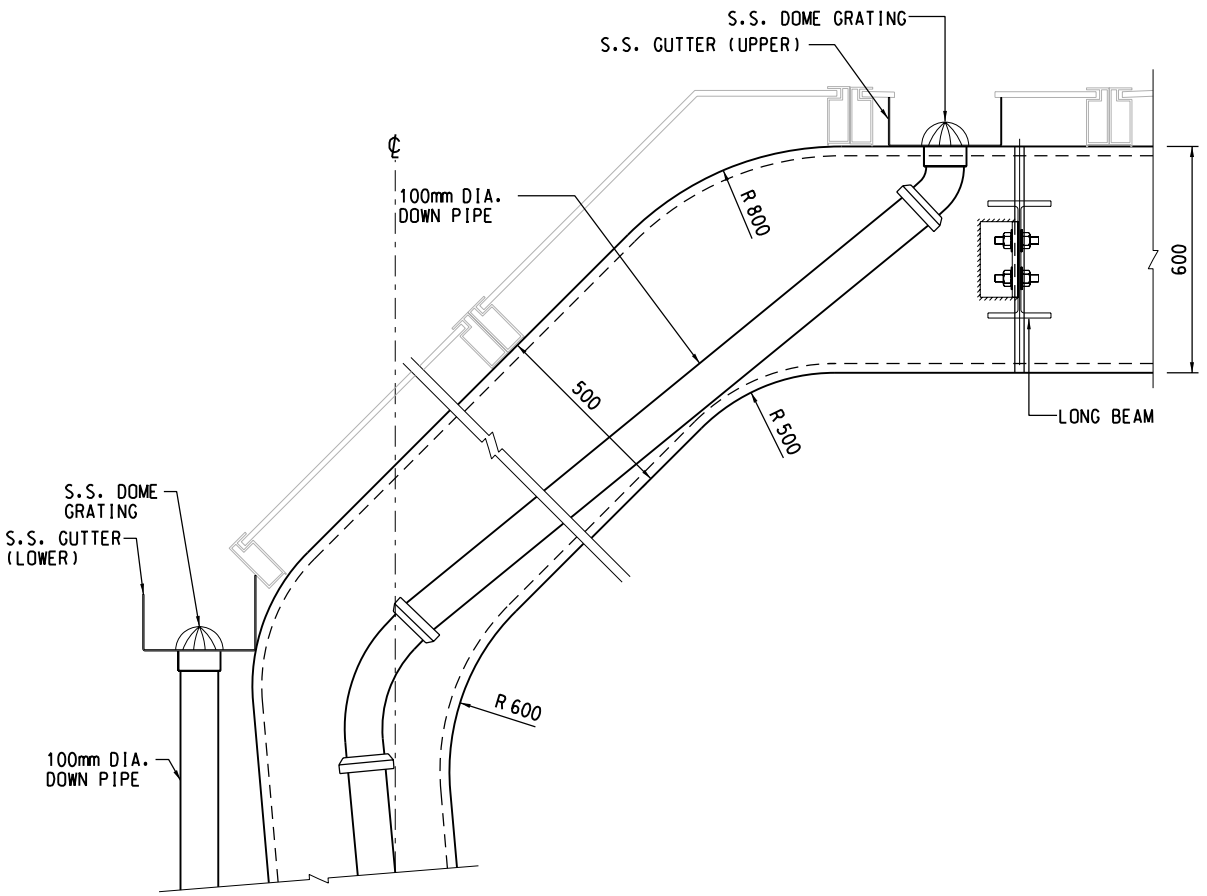
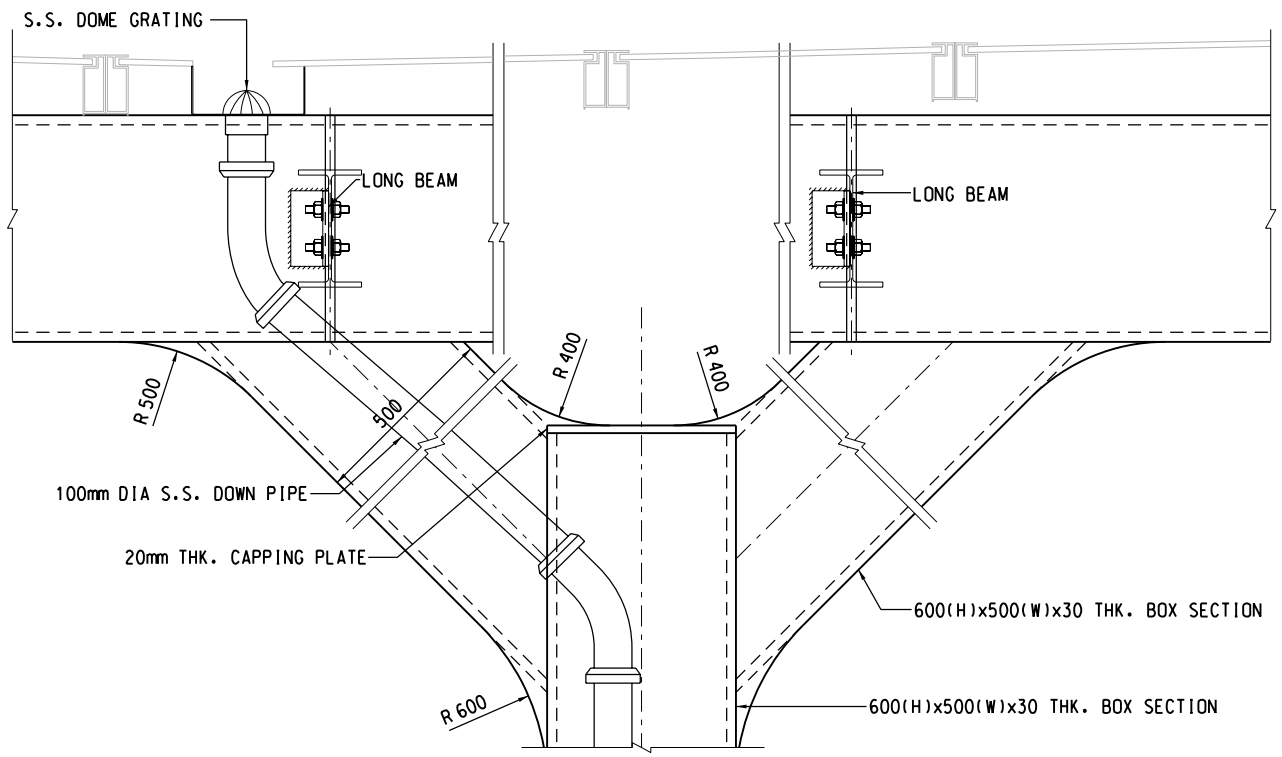
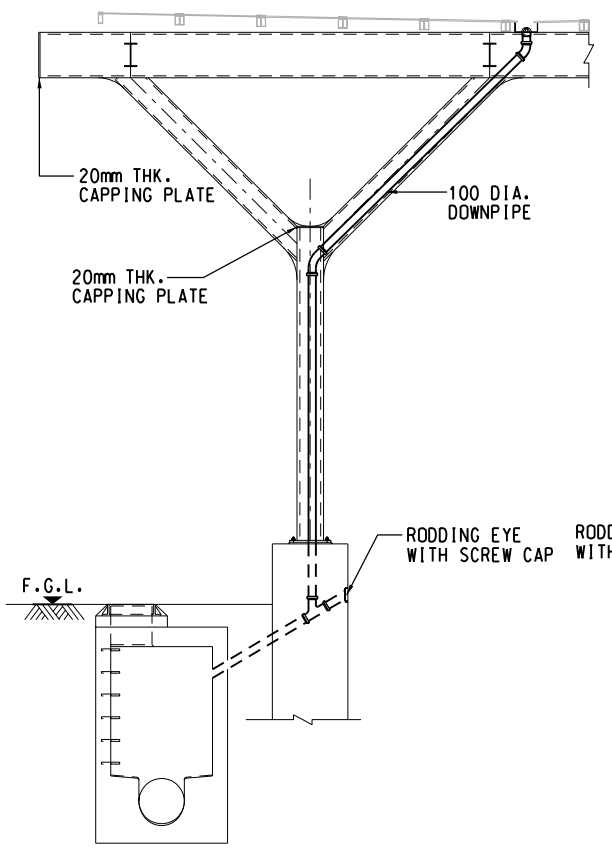
5/22/2023



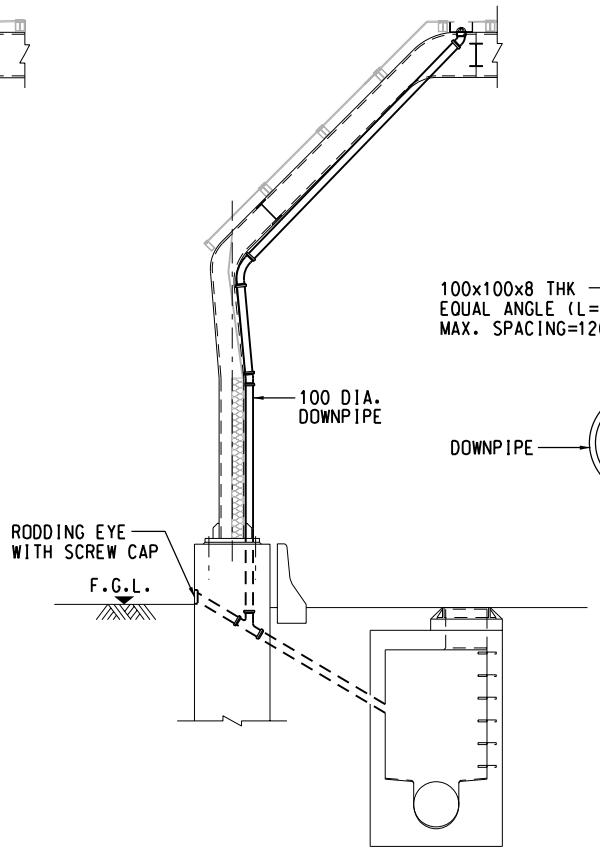
DETAIL '1'
SCALE 1 : 10



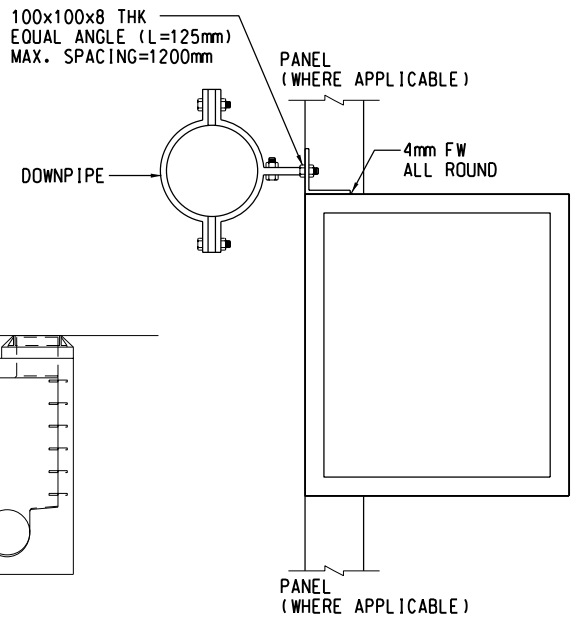
DETAIL '2'
SCALE 1 : 10



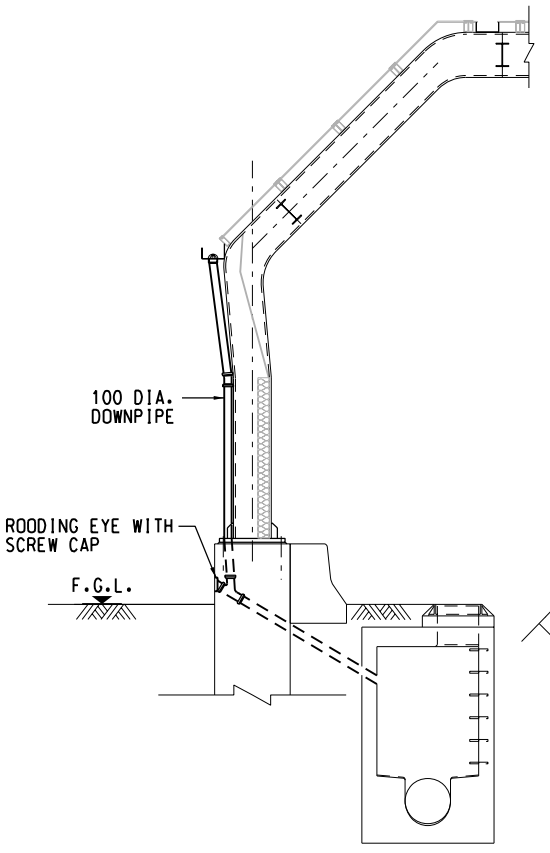
TYPICAL DOWNPIPE ARRANGEMENT (AT CENTRAL MEDIAN)
SCALE 1 : 50



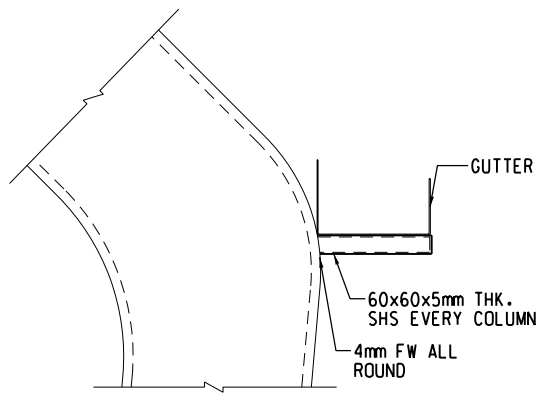
TYPICAL DOWNPIPE ARRANGEMENT(UPPER GUTTER)
SCALE 1 : 50



TYPICAL DOWNPIPE FIXING DETAILS
SCALE 1 : 5



TYPICAL DOWNPIPE ARRANGEMENT (LOWER GUTTER)
SCALE 1 : 50



TYPICAL CUTTER FIXING DETAILS AT COLUMN
SCALE 1 : 10

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Plot File by: PanT
PATH: P:\PROJECTS\60629088\Drawing\REPORT\A1D\A1D_146.dgn 2023/3/24

AECOM

PROJECT
項目
DEVELOPMENT OF KWU TUNG NORTH NEW DEVELOPMENT AREA, REMAINING PHASE - DESIGN & CONSTRUCTION

CLIENT
業主
CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT
土木顧問公司
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核查

STATUS
狀況

SCALE 比例: A1 AS SHOWN
DIMENSION UNIT 尺寸單位: MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號: 60629088
CONTRACT NO. 合約編號: CE 20/2019 (HY)

SHEET TITLE
圖紙名稱
NOISE ENCLOSURE TYPICAL DETAILS

SHEET 1 OF 3

SHEET NUMBER
圖紙編號
60629088/A1D/146

NOTE:

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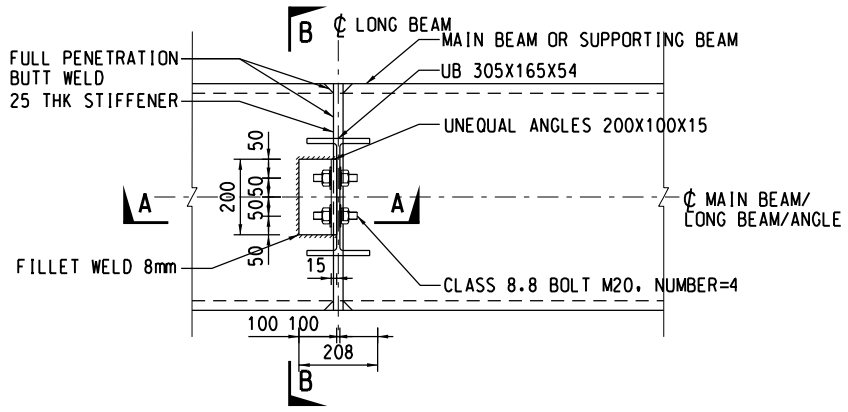
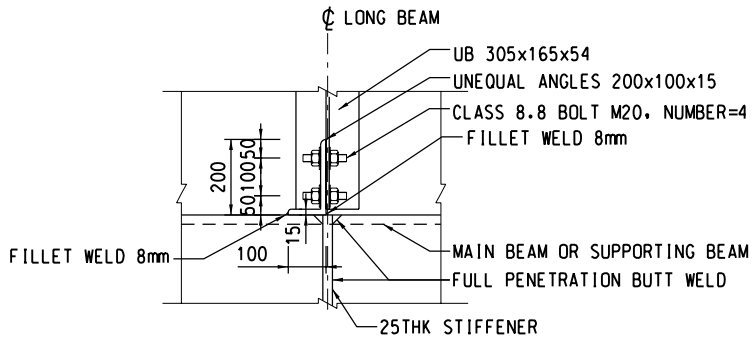
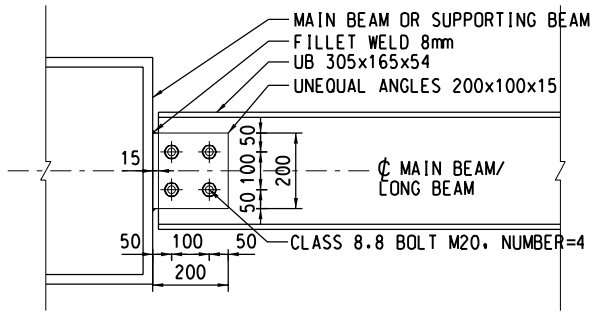


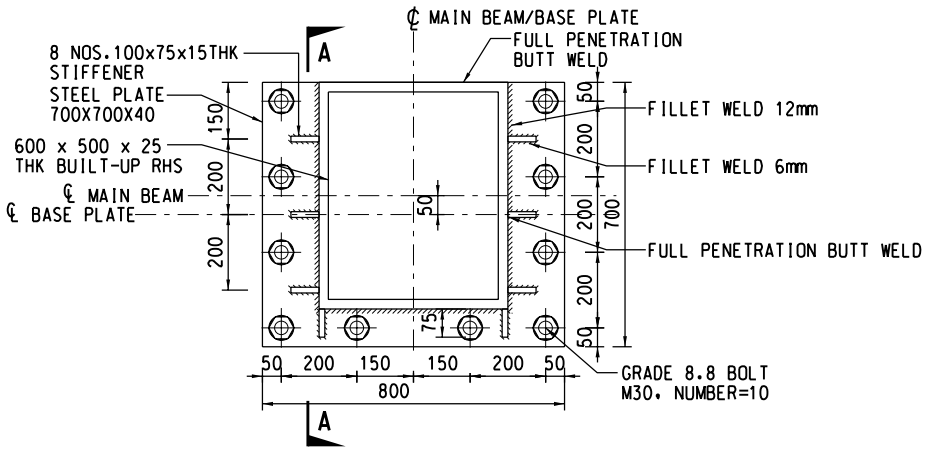
LONG BEAM JOINT DETAIL
SCALE 1 : 10



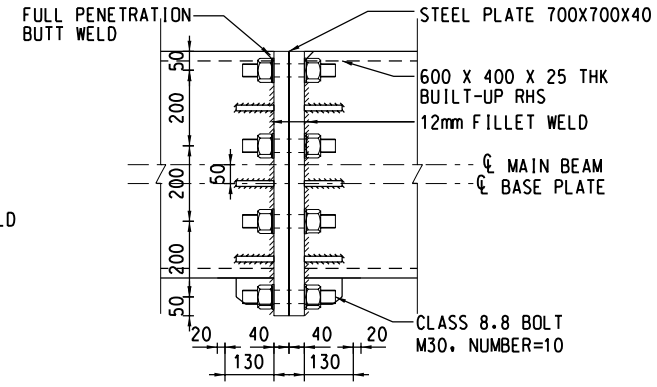
SECTION A-A
SCALE 1 : 10



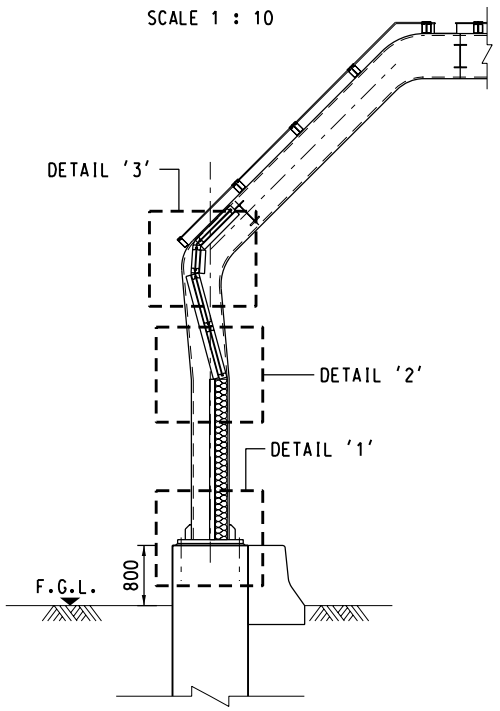
SECTION B-B
SCALE 1 : 10



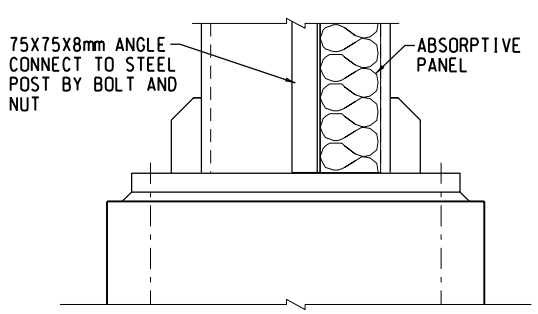
MAIN BEAM SPLICE JOINT TYPE 1
SCALE 1 : 10



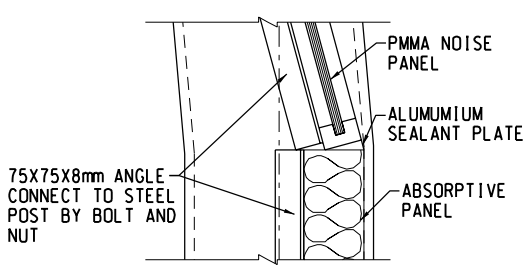
SECTION A-A
SCALE 1 : 10



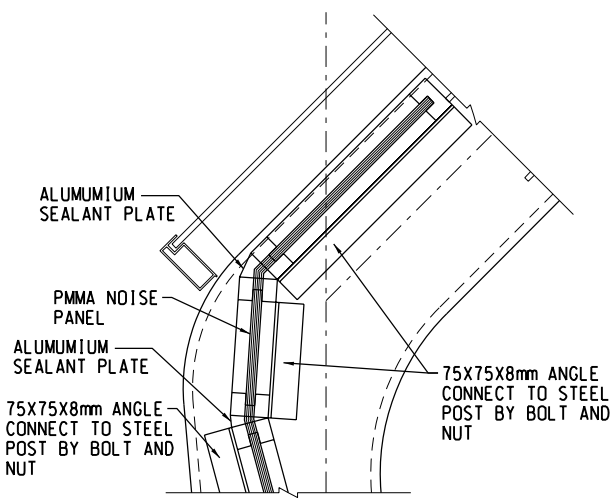
NOISE PANEL INSTALLATION DETAILS
SCALE 1 : 50



DETAIL '1'
SCALE 1 : 10



DETAIL '2'
SCALE 1 : 10



DETAIL '3'
SCALE 1 : 10

AECOM

PROJECT
項目

IMPROVEMENT OF TAI TAU LENG ROUNDABOUT AND FANLING HIGHWAY (KWU TUNG SECTION) - DESIGN & CONSTRUCTION

CLIENT
業主

土木工程拓展署
CEDD Civil Engineering and Development Department

CONSULTANT
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ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 有修改處	CHK. 核對

STATUS
狀況

SCALE 比例
A1 AS SHOWN

DIMENSION UNIT 尺寸單位
MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60629088

CONTRACT NO. 合約編號
CE 20/2019 (HY)

SHEET TITLE
圖紙名稱

NOISE ENCLOSURE TYPICAL DETAILS

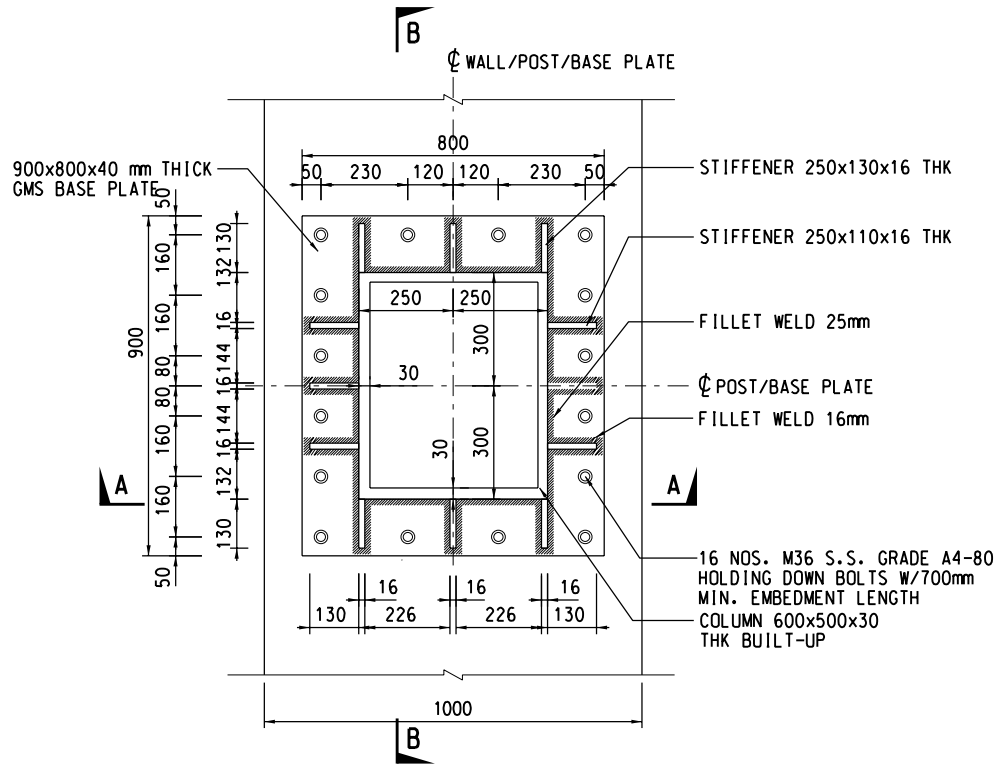
SHEET 2 OF 3

SHEET NUMBER
圖紙編號

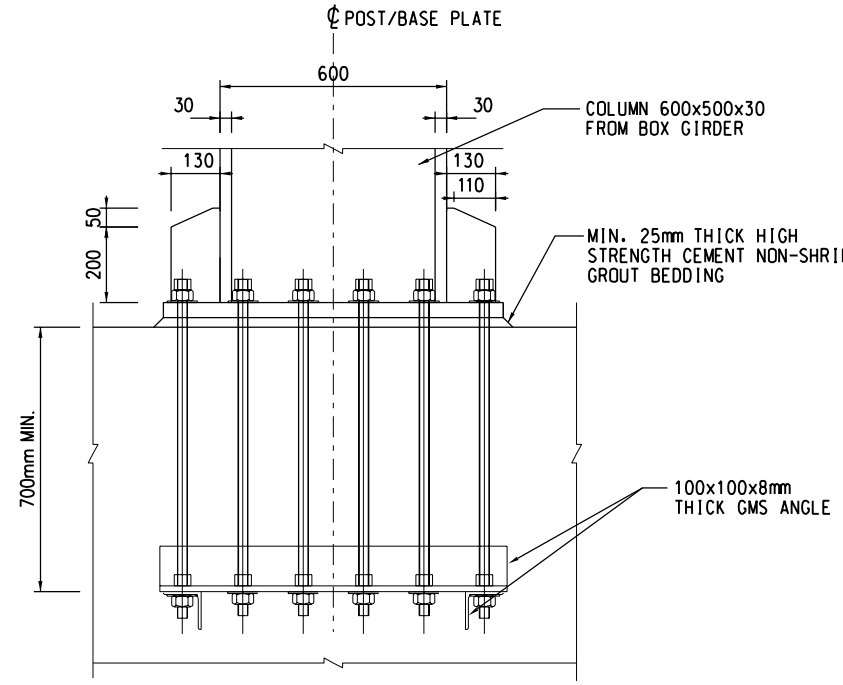
60629088/A1D/147

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

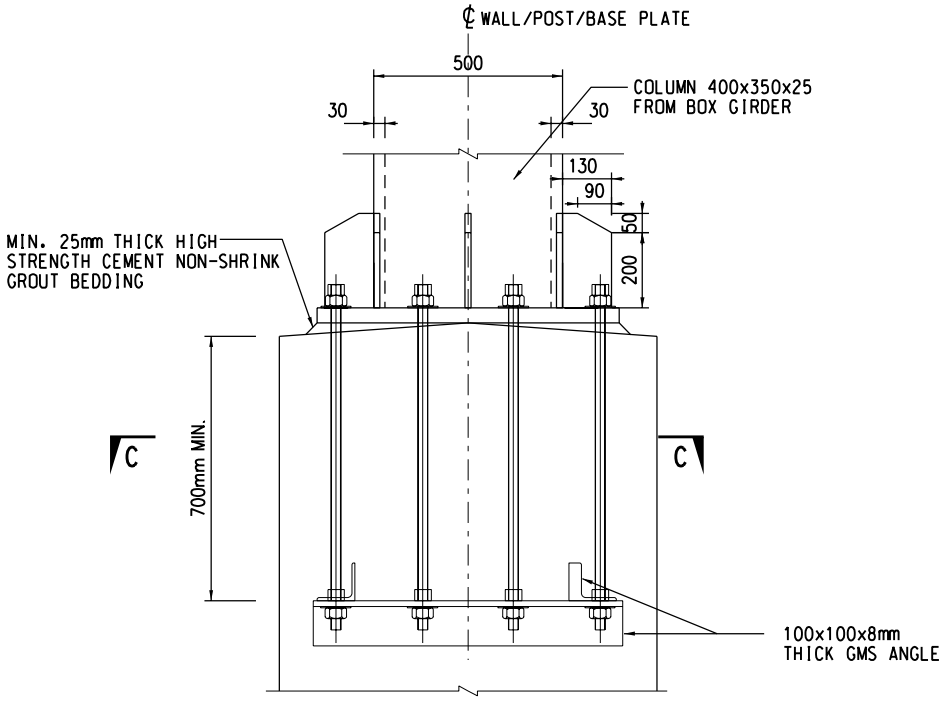
Plot File by: dlnpxt.zengyao
PATH: P:\PROJECTS\60629088\Drawing\REPORT\A1\DA1D_147.dgn
5/18/2023



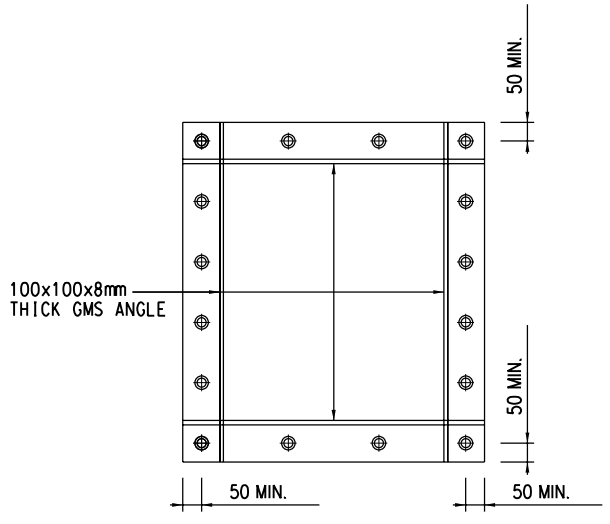
BASE PLATE PLAN
SCALE 1 : 10



SECTION B - B
NOTES: FOOTING R.C. AND NOISE BARRIER PANEL
NOT SHOWN FOR CLARITY
SCALE 1 : 10



SECTION A - A
NOTES: FOOTING R.C. AND NOISE BARRIER PANEL
NOT SHOWN FOR CLARITY
SCALE 1 : 10



SECTION C - C
SCALE 1 : 10

NOTE:

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NO. 60335576/C5A/C00/6150 TO 6170.

AECOM

PROJECT
項目

DEVELOPMENT OF
KWU TUNG NORTH
NEW DEVELOPMENT AREA,
REMAINING PHASE -
DESIGN & CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
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ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 修改說明	CHK. 核核

STATUS
階段

SCALE 比例
A1 1 : 10

DIMENSION UNIT 尺寸單位
MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60629088

CONTRACT NO. 合約編號
CE 20/2019 (HY)

SHEET TITLE
圖紙名稱

NOISE ENCLOSURE TYPICAL DETAILS

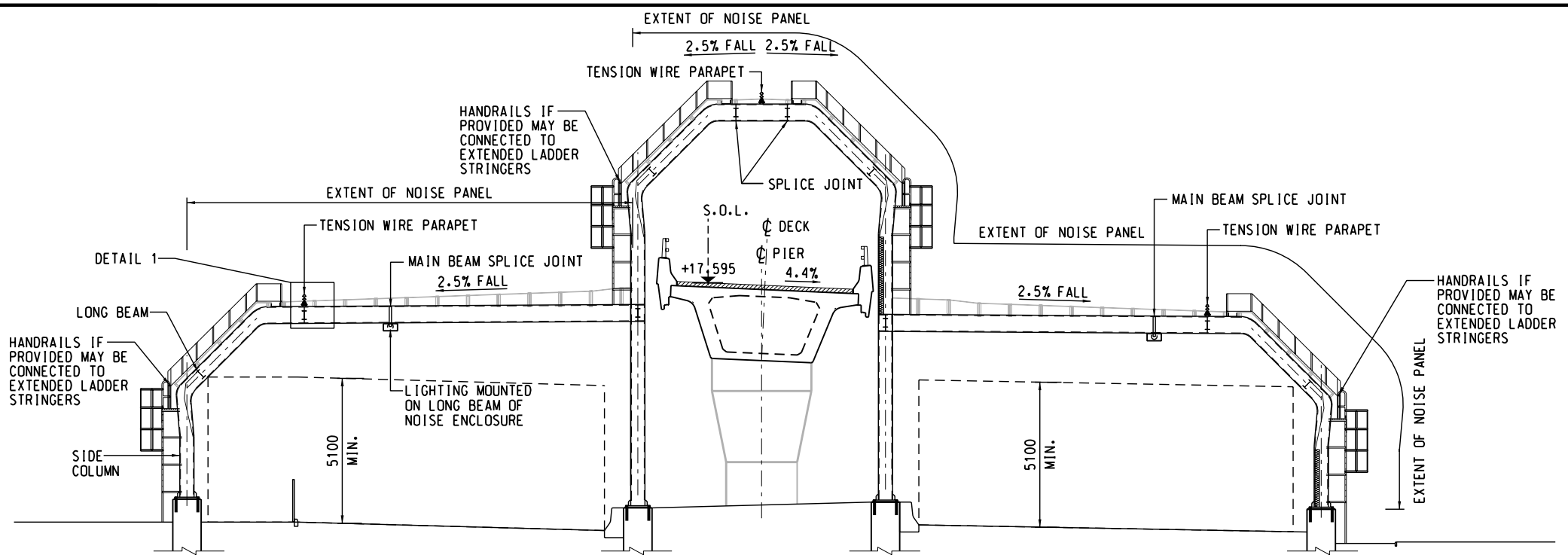
SHEET 3 OF 3

SHEET NUMBER
圖紙編號

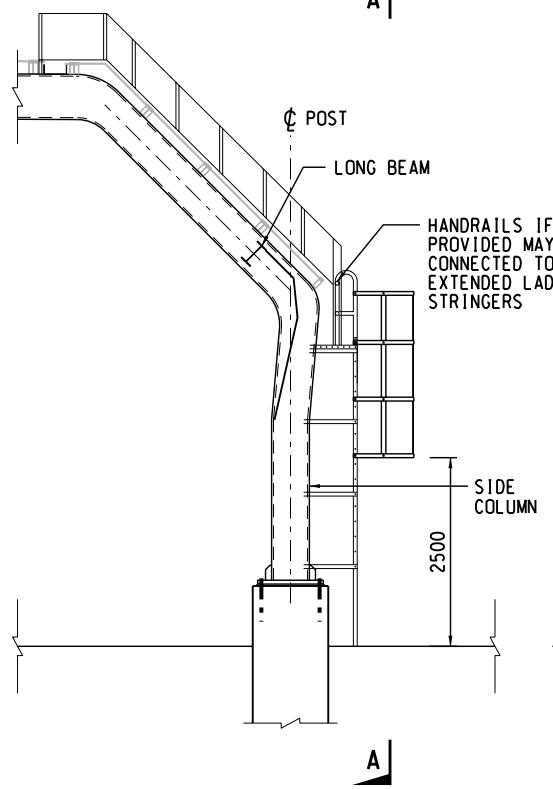
60629088/A1D/148

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

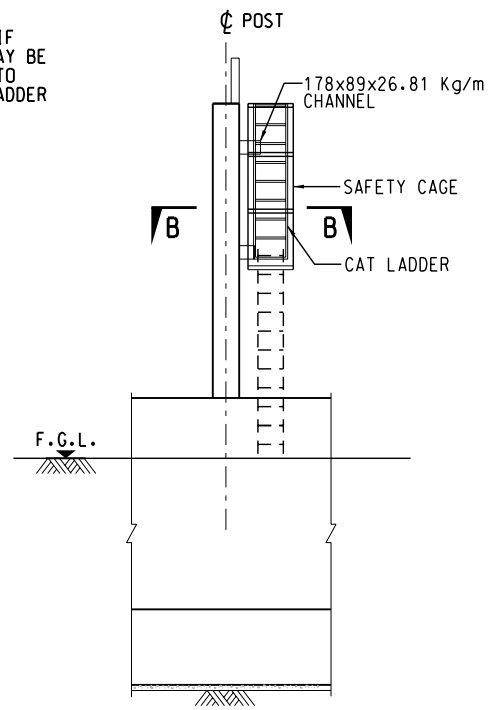
Plot File by: PanT
PATH: P:\PROJECTS\60629088\Drawing\REPORT\A1\DA1D_148.dgn 2023/3/24



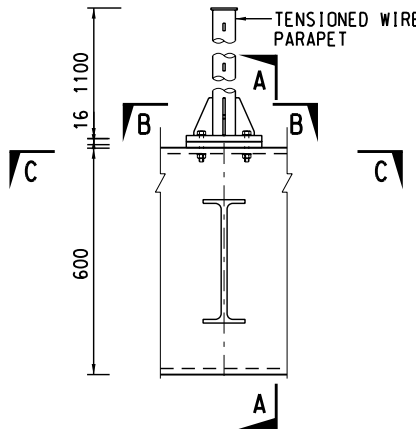
CAT LADDER AT SE01
SCALE 1 : 100



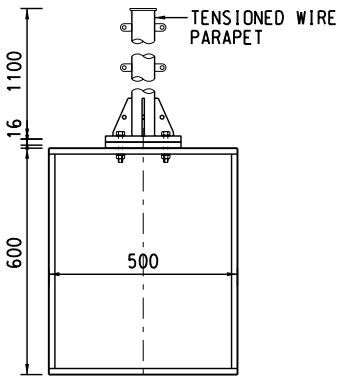
TYPICAL CAT LADDER AT FE AND SE
SCALE 1 : 50



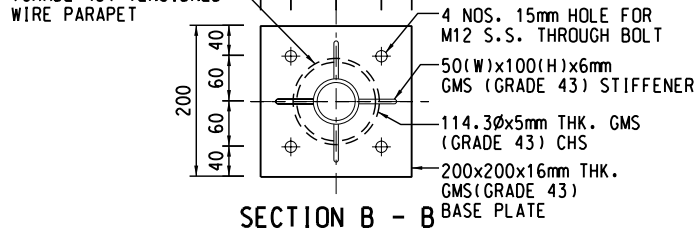
SECTION A - A
SCALE 1 : 50



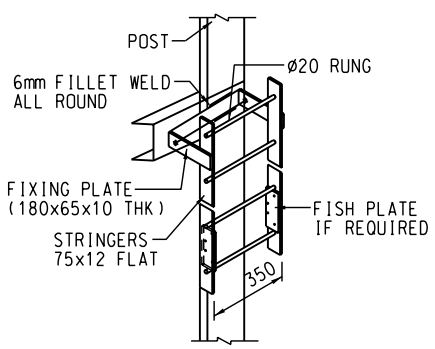
DETAIL 1
SCALE 1 : 10



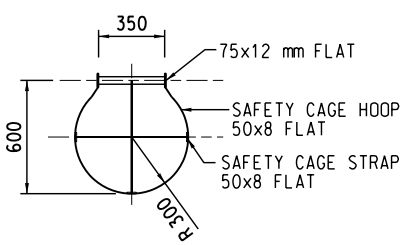
SECTION A - A
SCALE 1 : 10



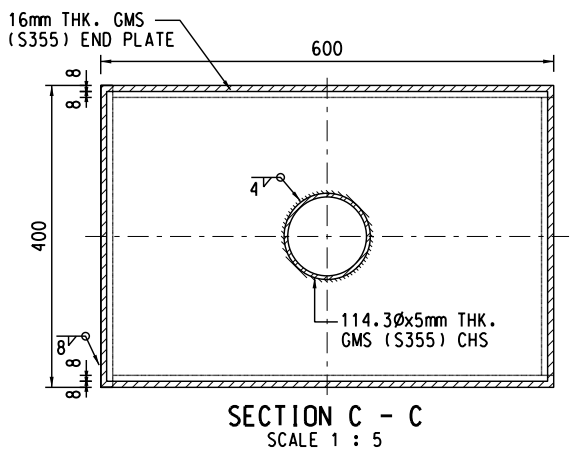
SECTION B - B
SCALE 1 : 5



ISOMETRIC VIEW OF VERTICAL LADDER
SCALE 1 : 20



SECTION B - B
SCALE 1 : 20



SECTION C - C
SCALE 1 : 5

AECOM

PROJECT
項目

IMPROVEMENT OF TAI TAU LENG ROUNDABOUT AND FANLING HIGHWAY (KWU TUNG SECTION) - DESIGN & CONSTRUCTION

CONTRACT TITLE
IMPROVEMENT WORKS OF FANLING HIGHWAYS (KWU TUNG PORTION) AND ASSOCIATED WORKS

CLIENT
業主

土木工程拓展署
CEDD Civil Engineering and Development Department

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ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核核

STATUS
現況

SCALE 比例: A1 AS SHOWN
DIMENSION UNIT 尺寸單位: MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號: 60629088
CONTRACT NO. 合約編號: CE 20/2019 (HY)

SHEET TITLE
圖紙名稱

CAT LADDER AND SAFETY CAGE DETAILS

SHEET NUMBER
圖紙編號

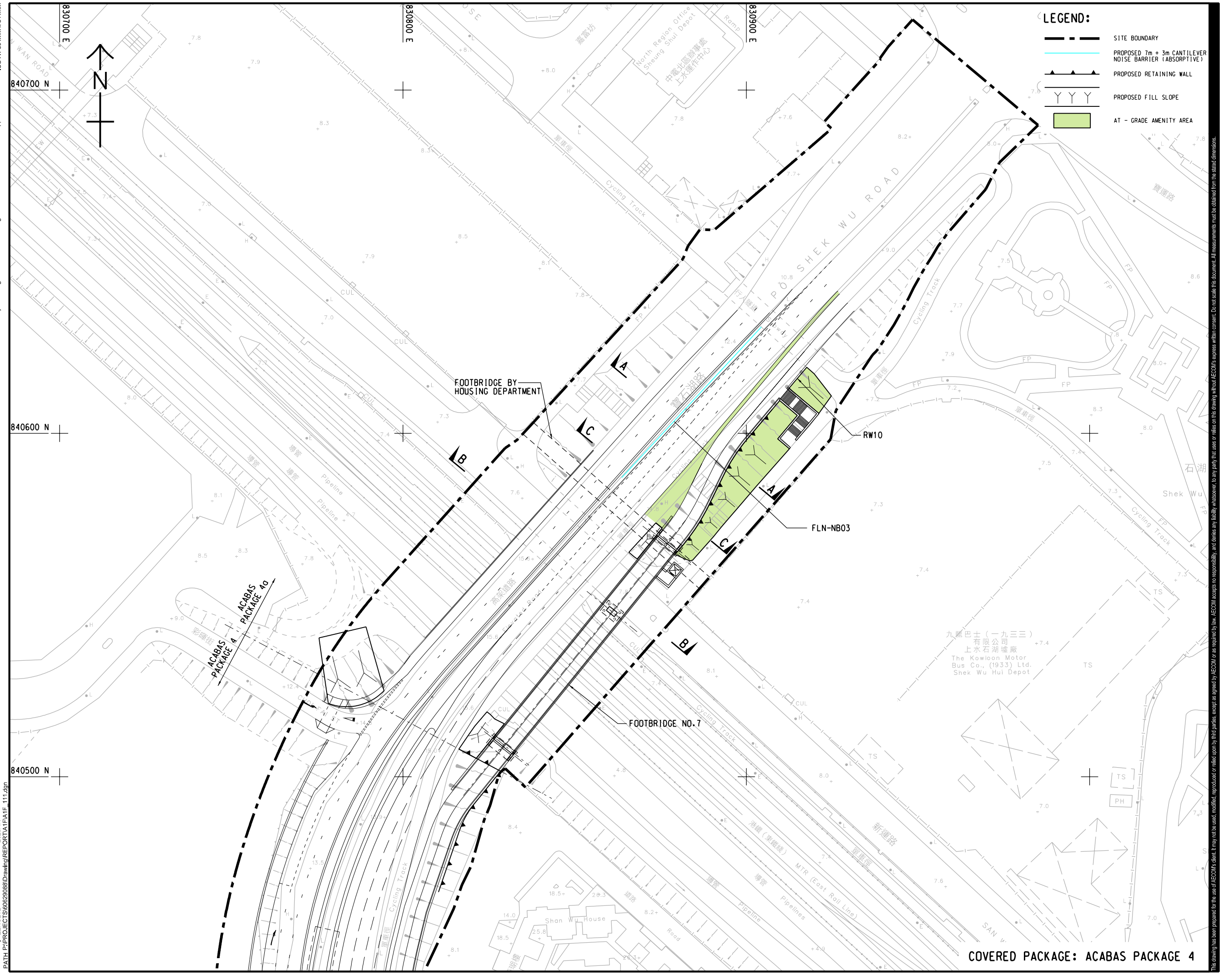
60629088/A1D/149

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

Plot File by: YangRO
PATH P:\PROJECTS\60629088\Drawing\REPORT\A1D\A1D_149.dgn
5/29/2023

ISO A1 594mm x 841mm

Project Management Initials: Designer: Checked: Approved:



Plot File by: ZENGLY2
PATH: P:\PROJECTS\60629088\Drawing\REPORT\A1F\A1F_111.dgn
2023/4/1

AECOM

PROJECT
項目

IMPROVEMENT OF TAI TAU LENG ROUNDABOUT AND FANLING HIGHWAY (KWU TUNG SECTION) - DESIGN & CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

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ISSUE/REVISION
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I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60629088

CONTRACT NO. 合約編號
CE 20/2019 (HY)

SHEET TITLE
圖紙名稱

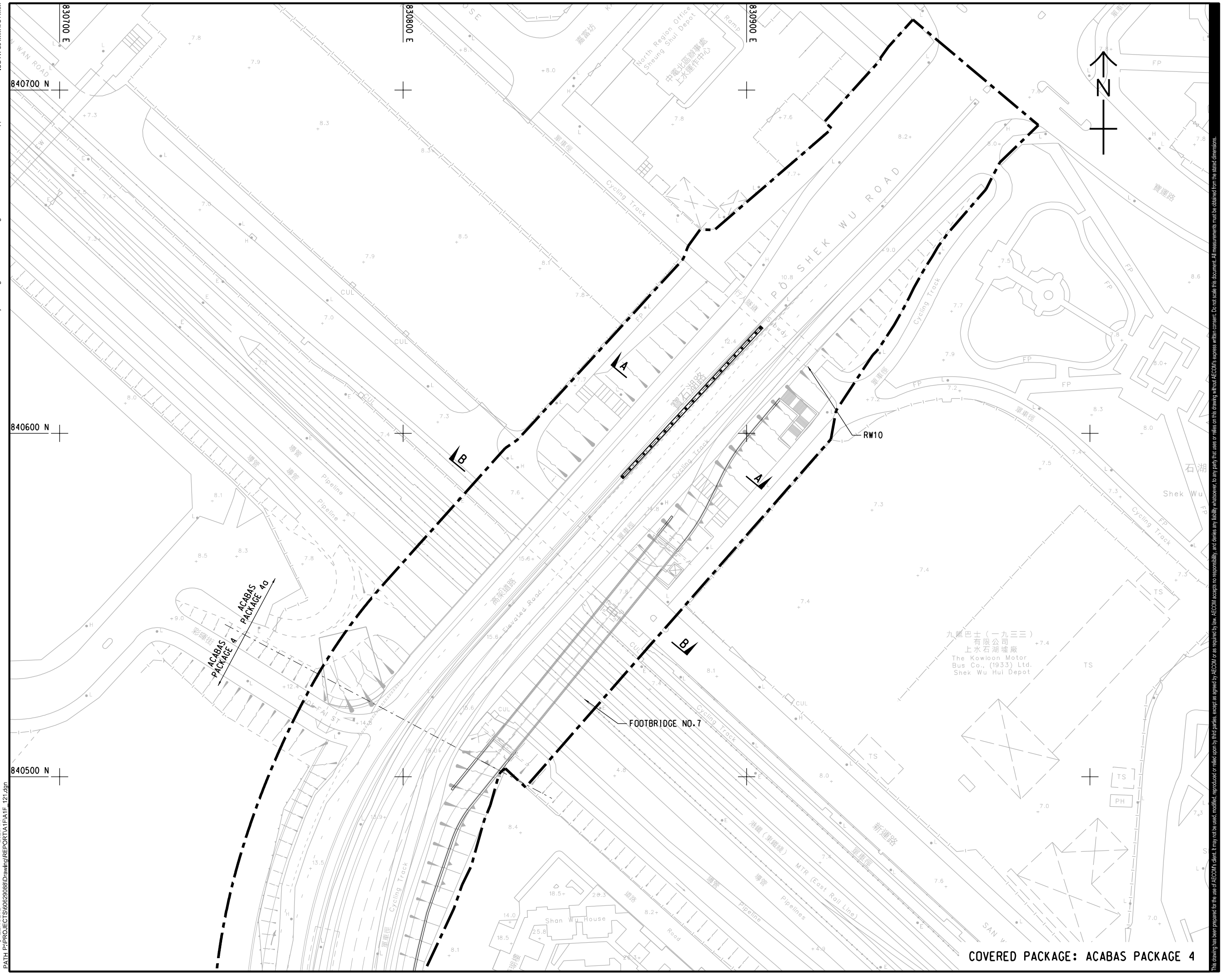
GENERAL ARRANGEMENT - PO SHEK WU ROAD

SHEET NUMBER
圖紙編號

60629088/A1F/111

ISO A1 594mm x 841mm

Project Management Initials: Designer: Checked: Approved:



Plot File by: ZENGLY2
PATH: P:\PROJECTS\60629088\Drawing\REPORT\A1F\A1F_121.dgn
2023/4/1

AECOM

PROJECT
項目

IMPROVEMENT OF TAI TAU LENG ROUNDABOUT AND FANLING HIGHWAY (KWU TUNG SECTION) - DESIGN & CONSTRUCTION

CLIENT
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I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60629088

CONTRACT NO. 合約編號
CE 20/2019 (HY)

SHEET TITLE
圖紙名稱

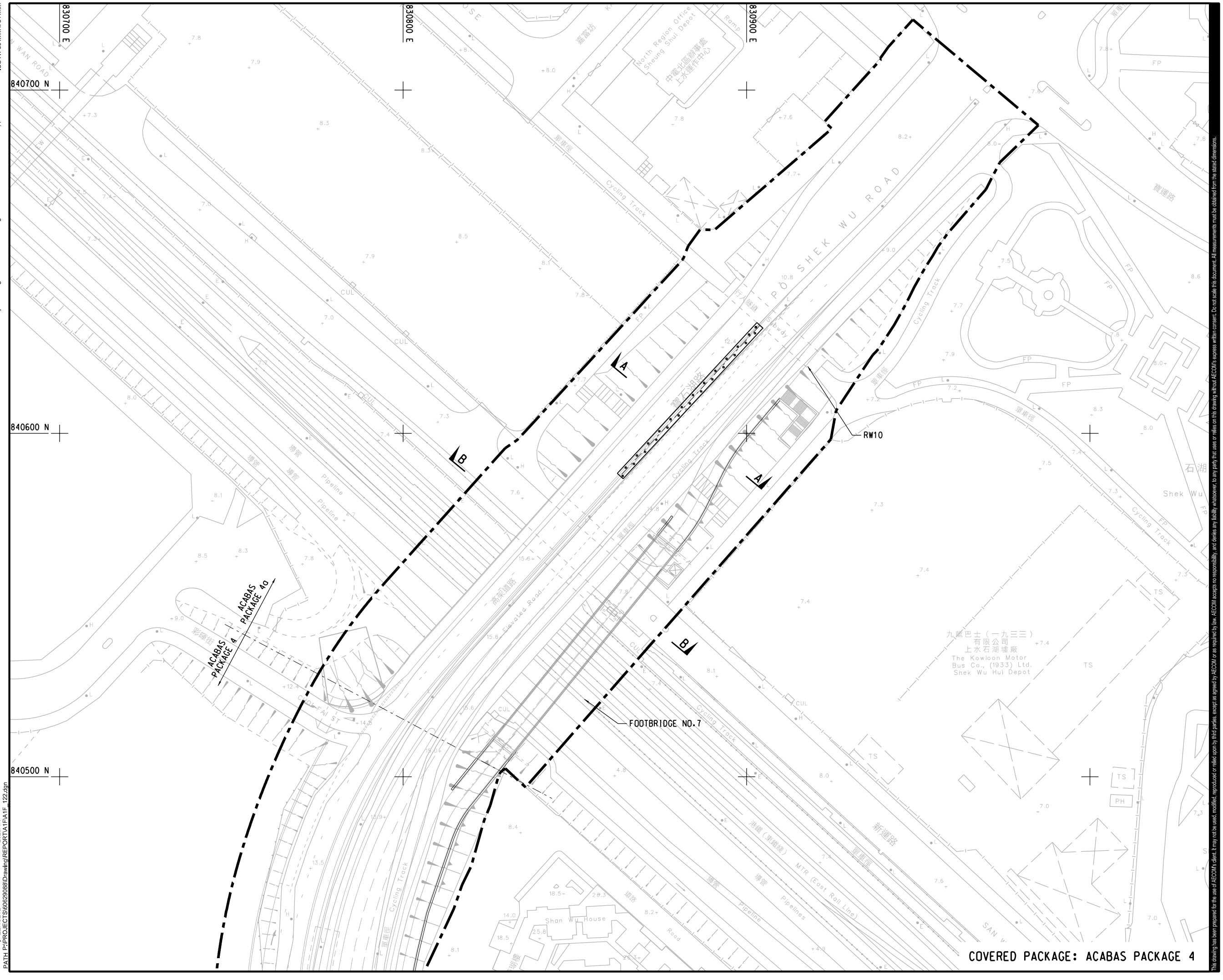
NOISE MITIGATION MEASURES
STRUCTURAL LAYOUT PLAN

SHEET NUMBER
圖紙編號

60629088/A1F/121

ISO A1 594mm x 841mm

Project Management Initials: Designer: Checked: Approved:



Plot File by: ZENGLY2
PATH: P:\PROJECTS\60629088\Drawing\REPORT\A1F\A1F_122.dgn
2023/4/1

AECOM

PROJECT
項目

IMPROVEMENT OF TAI TAU LENG ROUNDABOUT AND FANLING HIGHWAY (KWU TUNG SECTION) - DESIGN & CONSTRUCTION

CLIENT
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修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60629088

CONTRACT NO. 合約編號
CE 20/2019 (HY)

SHEET TITLE
圖紙名稱

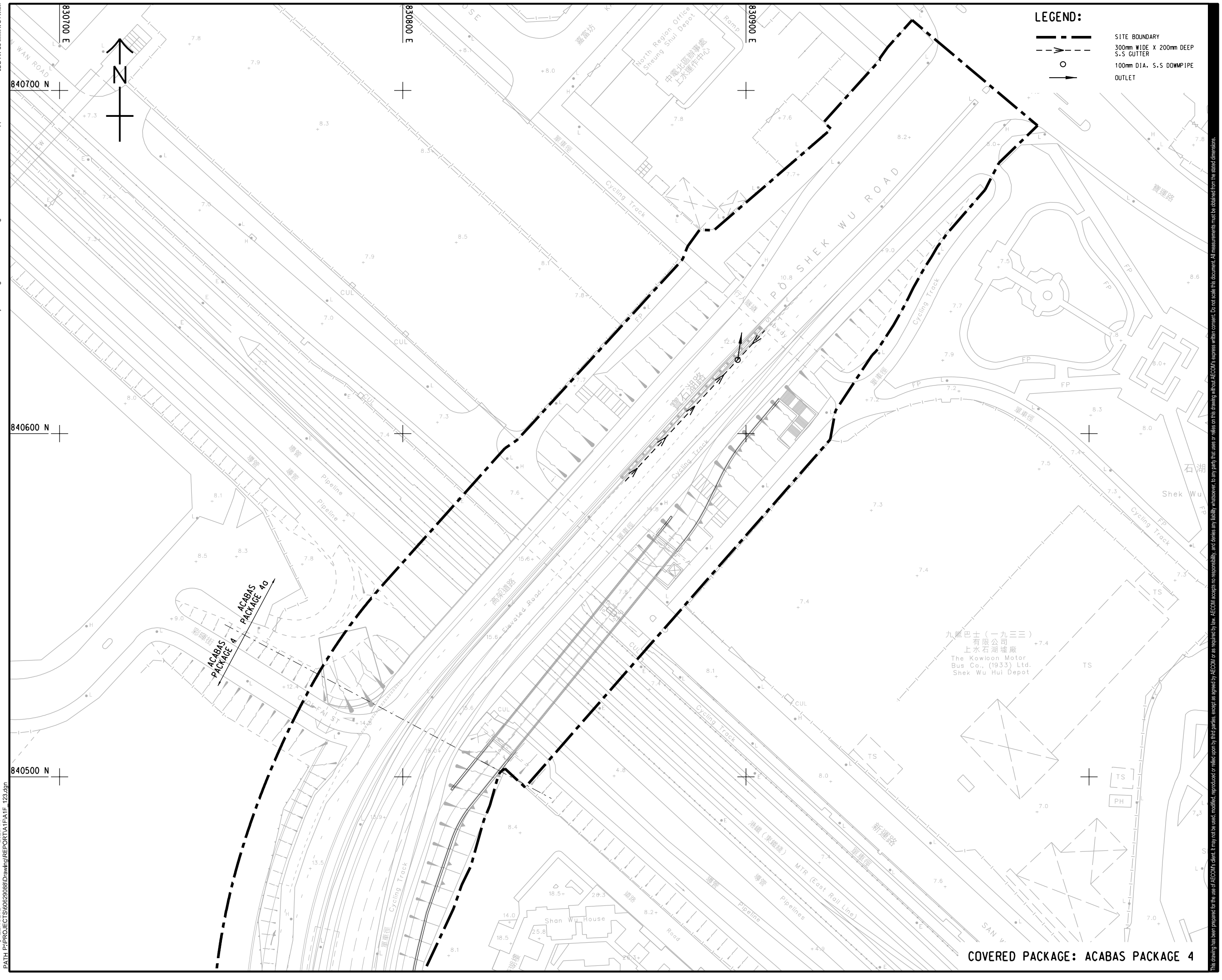
NOISE MITIGATION MEASURES FOUNDATION LAYOUT PLAN

SHEET NUMBER
圖紙編號

60629088/A1F/122

ISO A1 594mm x 841mm

Project Management Initials: Designer: Checked: Approved:



Plot File by: ZENGLY2
PATH: P:\PROJECTS\60629088\Drawing\REPORT\A1F\A1F_123.dgn
2023/4/1

AECOM

PROJECT
項目

IMPROVEMENT OF TAI TAU LENG ROUNDABOUT AND FANLING HIGHWAY (KWU TUNG SECTION) - DESIGN & CONSTRUCTION

CLIENT
業主

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ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60629088

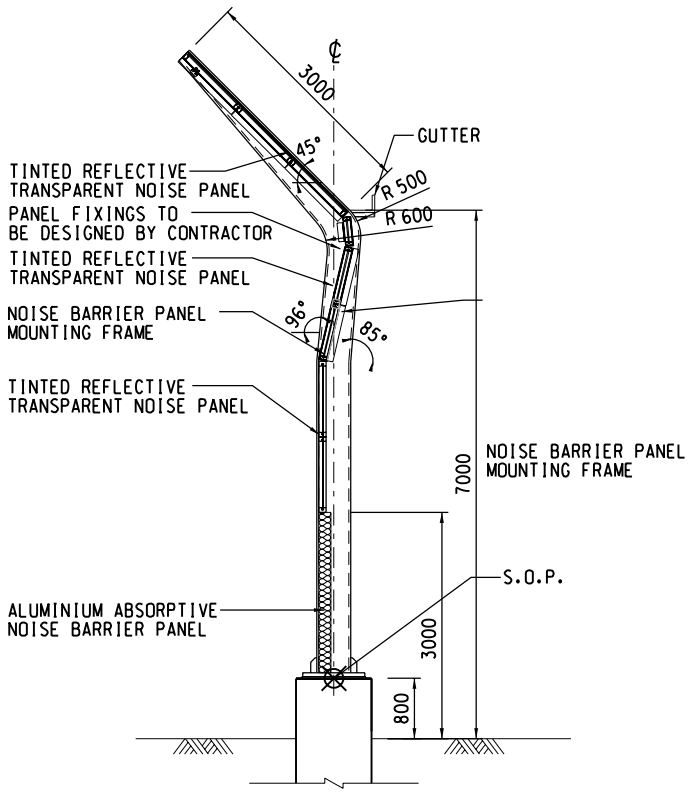
CONTRACT NO. 合約編號
CE 20/2019 (HY)

SHEET TITLE
圖紙名稱

NOISE MITIGATION MEASURES
DRAINAGE LAYOUT PLAN

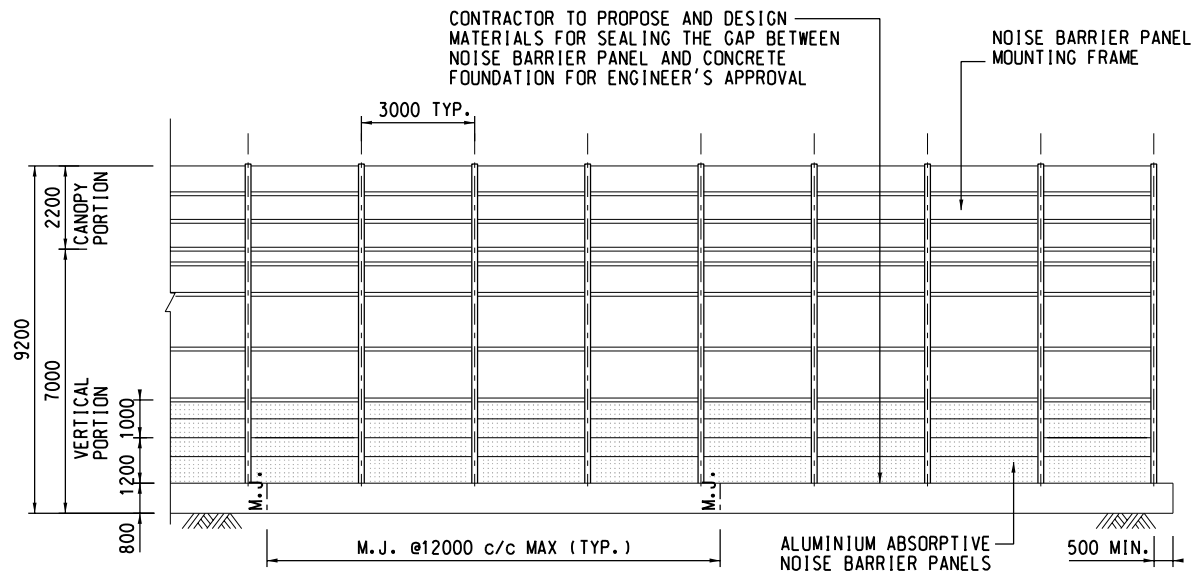
SHEET NUMBER
圖紙編號

60629088/A1F/123



NOISE BARRIER TYPE V7+C3

SCALE 1 : 50



ELEVATION FOR NOISE BARRIER TYPE V7+C3

SCALE 1 : 100

AECOM

PROJECT
項目

IMPROVEMENT OF TAI TAU LENG ROUNDABOUT AND FANLING HIGHWAY (KWU TUNG SECTION) - DESIGN & CONSTRUCTION

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STATUS
階段

SCALE 比例: A1 AS SHOWN

DIMENSION UNIT 尺寸單位: MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號: 60629088

CONTRACT NO. 合約編號: CE 20/2019 (HY)

SHEET TITLE
圖紙名稱

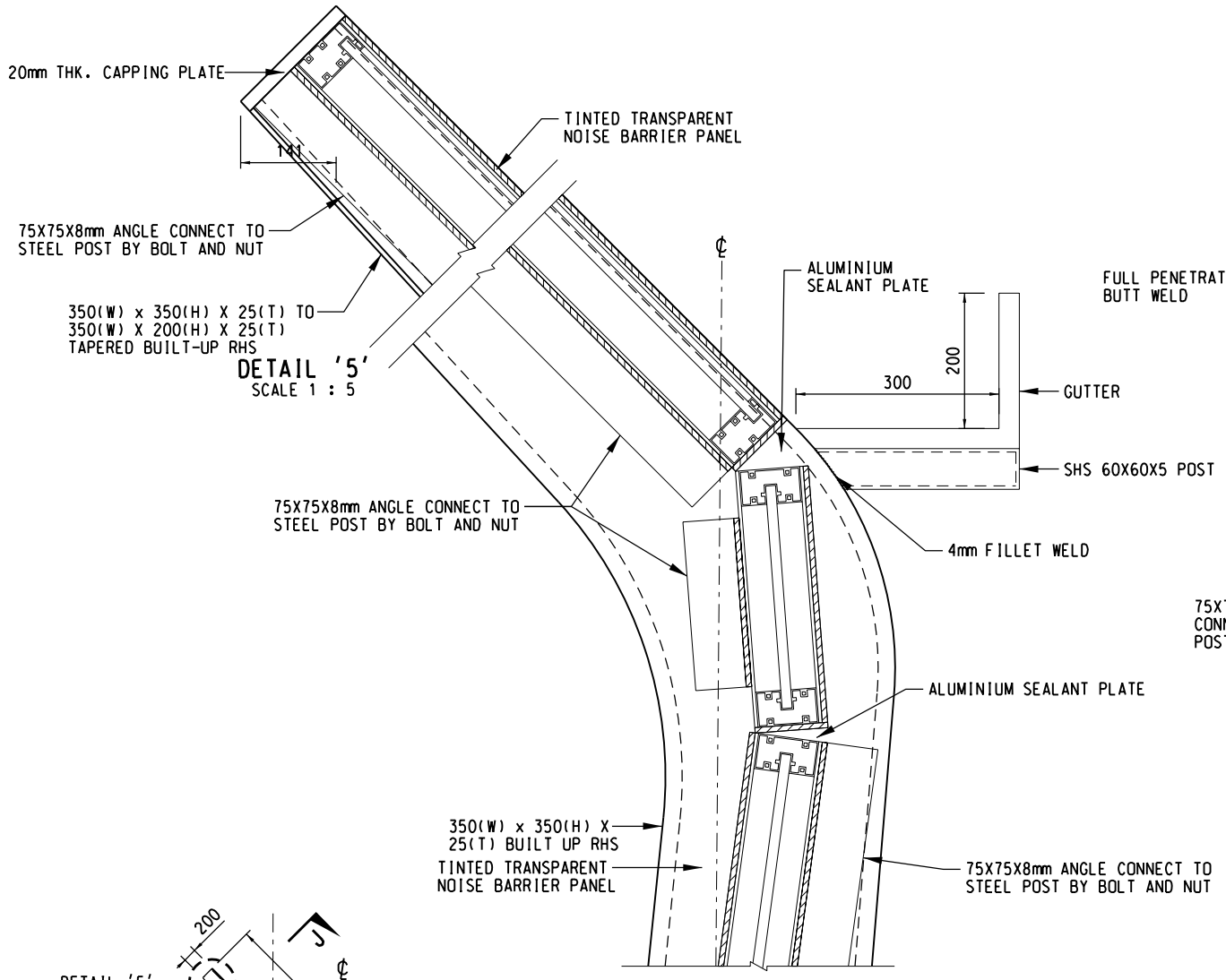
NOISE BARRIER TYPICAL DETAIL

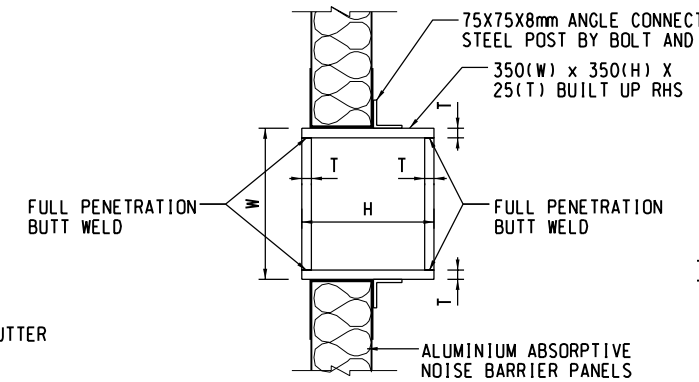
SHEET NUMBER
圖紙編號

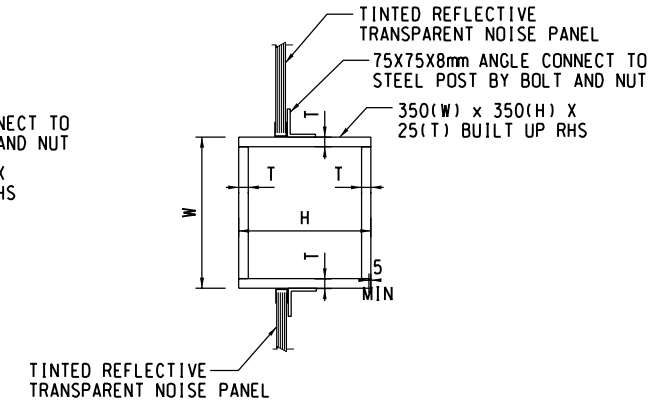
60629088/A1F/124

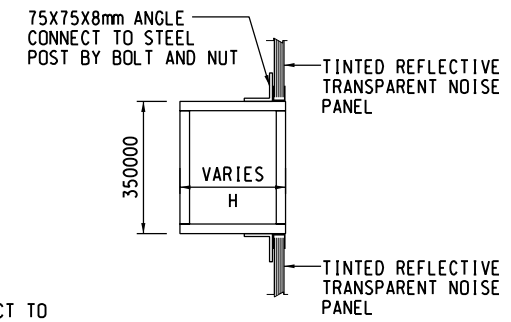
Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

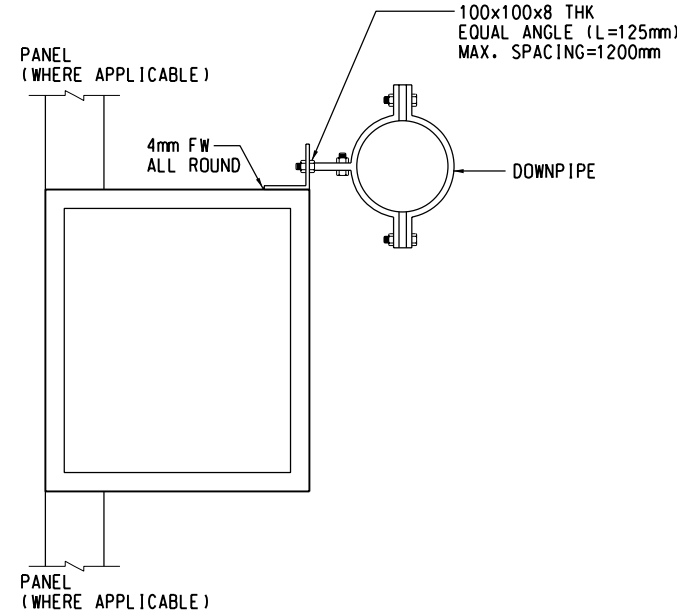
Plot File by: ZENGLY2 2023/4/1
PATH: P:\PROJECTS\60629088\Drawing\REPORT\A1F\A1F_124.dgn

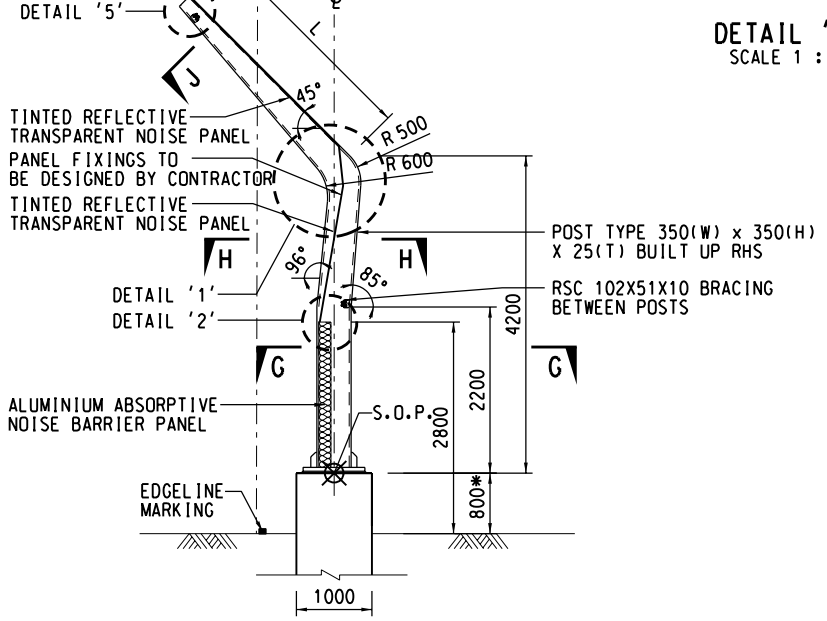


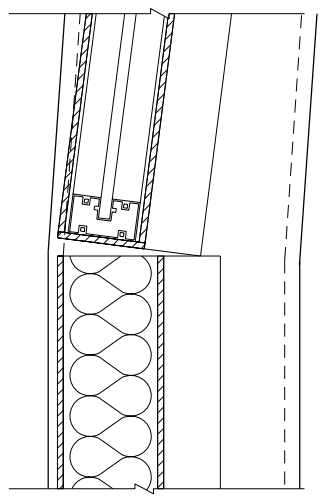


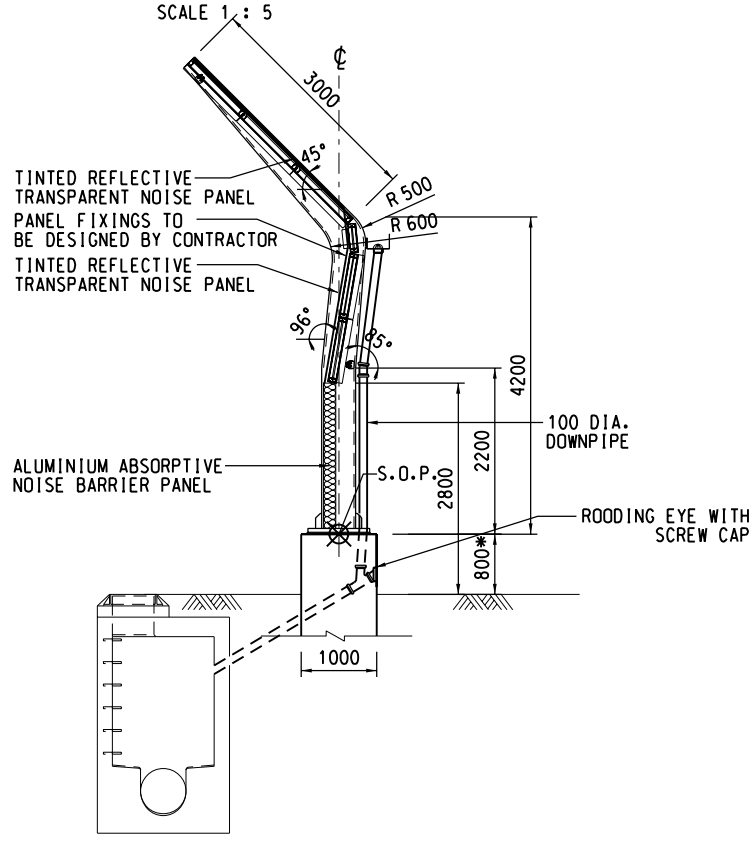












Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

Plot File by: ZENGLY2 11/10/2023
PATH P:\PROJECTS\60629088\Drawing\REPORT\A1F\A1F_125.dgn

AECOM

PROJECT
項目
DEVELOPMENT OF KWU TUNG NORTH NEW DEVELOPMENT AREA, REMAINING PHASE - DESIGN & CONSTRUCTION

CLIENT
業主
CEDD 土木工程拓展署 Civil Engineering and Development Department

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ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 修改簡要	CHK. 核核

STATUS
階段

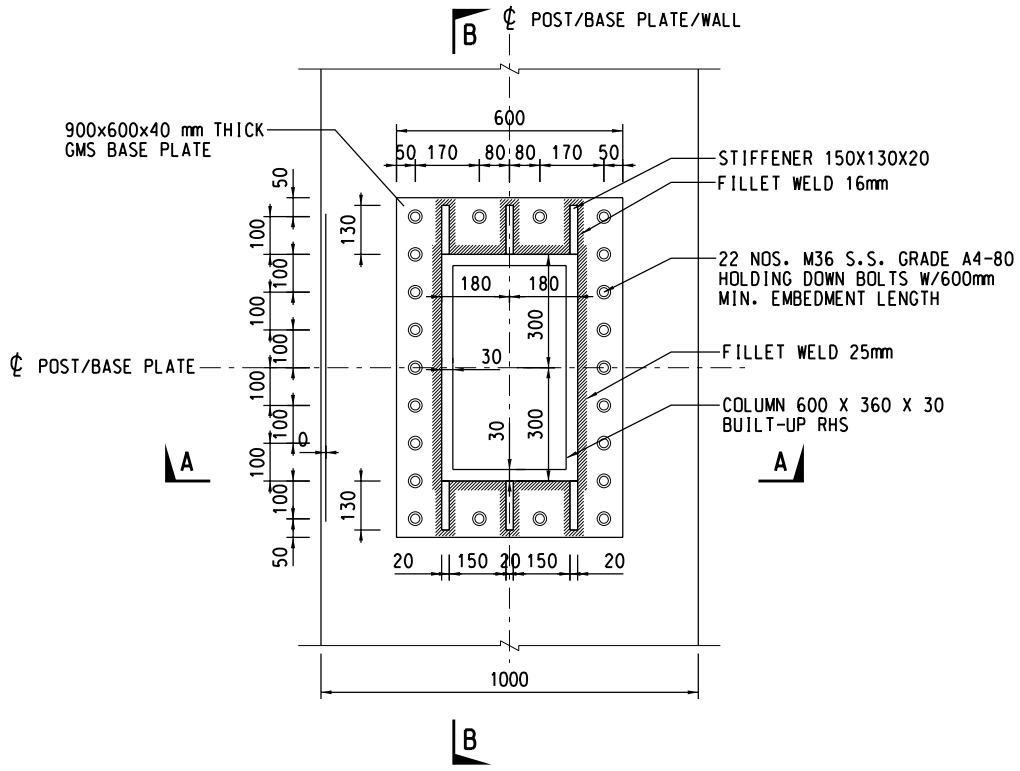
SCALE 比例: A1 AS SHOWN
DIMENSION UNIT 尺寸單位: MILLIMETRES

KEY PLAN
索引圖

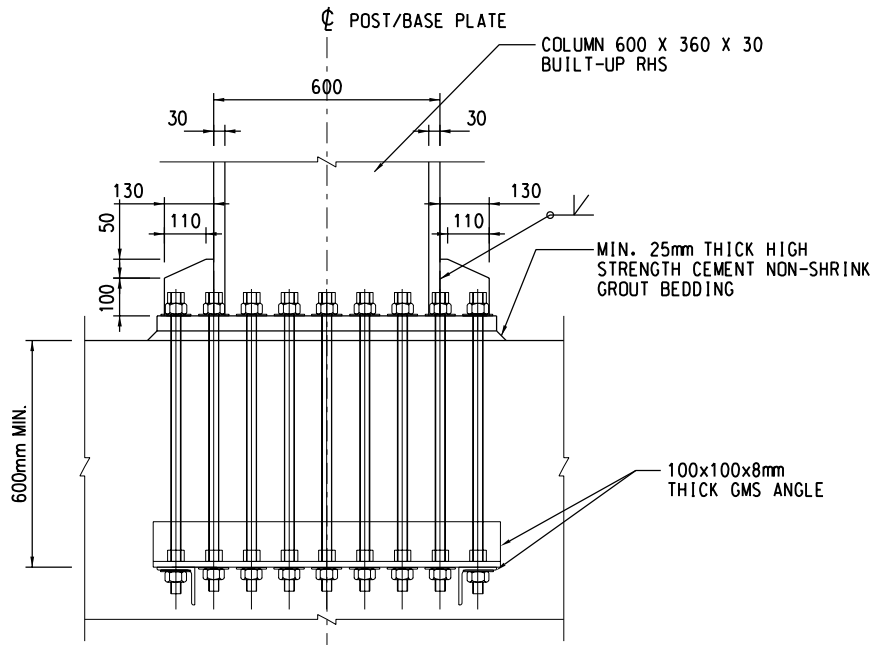
PROJECT NO. 項目編號: 60629088
CONTRACT NO. 合約編號: CE 20/2019 (HY)

SHEET TITLE
圖紙名稱
NOISE BARRIER TYPICAL DETAIL

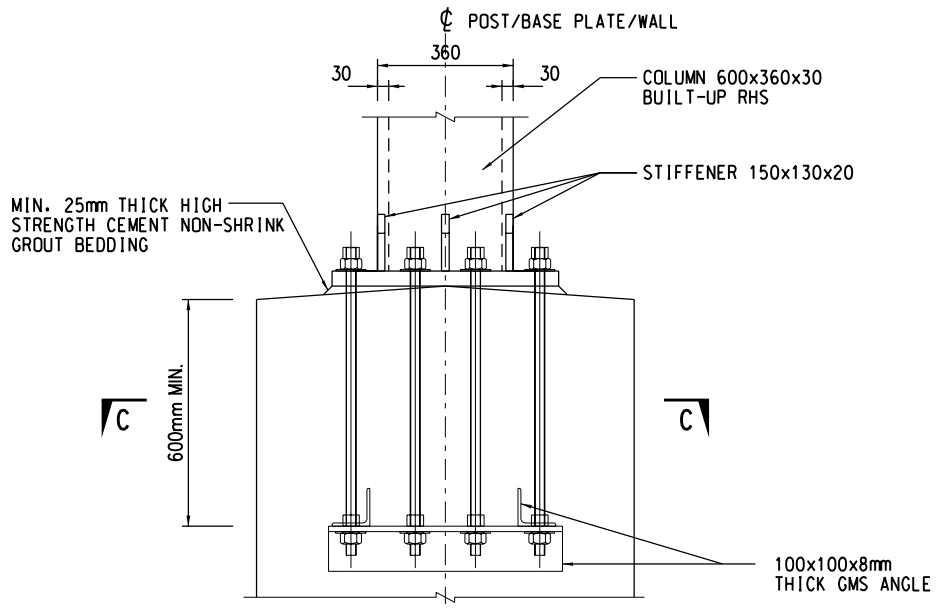
SHEET NUMBER
圖紙編號
60629088/A1F/125



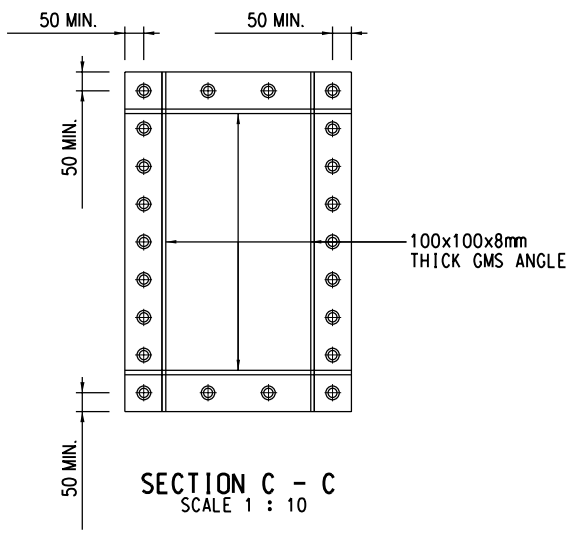
BASE PLATE FOR NOISE BARRIE TYPE V7+C3
SCALE 1 : 10



SECTION B - B
NOTES: FOOTING R.C. AND NOISE BARRIER PANEL
NOT SHOWN FOR CLARITY
SCALE 1 : 10



SECTION A - A
NOTES: FOOTING R.C. AND NOISE BARRIER PANEL
NOT SHOWN FOR CLARITY
SCALE 1 : 10



SECTION C - C
SCALE 1 : 10

AECOM

PROJECT
項目
DEVELOPMENT OF
KWU TUNG NORTH
NEW DEVELOPMENT AREA,
REMAINING PHASE -
DESIGN & CONSTRUCTION

CLIENT
業主
CEDD 土木工程拓展署 Civil Engineering and Development Department

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ISSUE/REVISION
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I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 校核

STATUS
INFX

SCALE 比例: A1 AS SHOWN
DIMENSION UNIT 尺寸單位: MILLIMETRES

KEY PLAN
次分圖

PROJECT NO. 項目/編號: 60629088
CONTRACT NO. 合約編號: CE 20/2019 (HY)

SHEET TITLE
圖紙名稱
NOISE BARRIER TYPICAL DETAIL

SHEET NUMBER
圖紙編號
60629088/A1F/126

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

Plot File by: ZENGLY2
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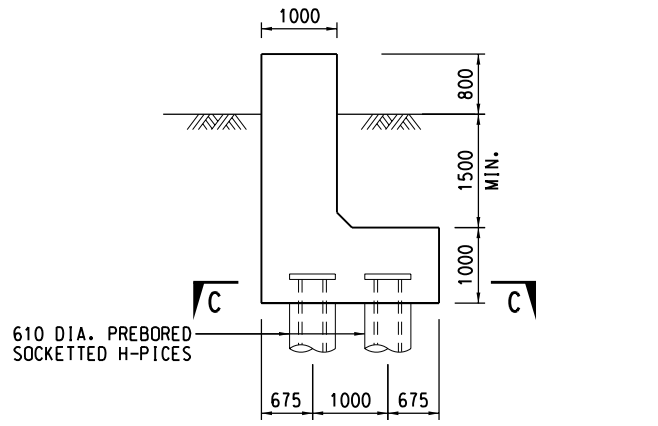
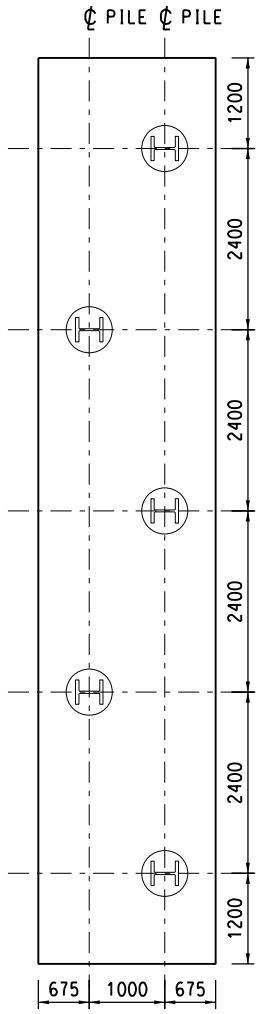
1/19/2023



TYPICAL DETAILS OF SOUTHERN FOUNDATION OF NOISE BARRIER

SCALE 1 : 50



SECTION C - C

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Plot File by: ZENGLY2 1/19/2023
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AECOM

PROJECT
項目

DEVELOPMENT OF
KWU TUNG NORTH
NEW DEVELOPMENT AREA,
REMAINING PHASE -
DESIGN & CONSTRUCTION

CLIENT
業主

CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT
土木顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 修改說明	CHK. 核核

STATUS
狀況

SCALE 比例	DIMENSION UNIT 尺寸單位
A1 AS SHOWN	MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號	CONTRACT NO. 合約編號
60629088	CE 20/2019 (HY)

SHEET TITLE
圖紙名稱

NOISE MITIGATION MEASURES
FOUNDATION DETAILS

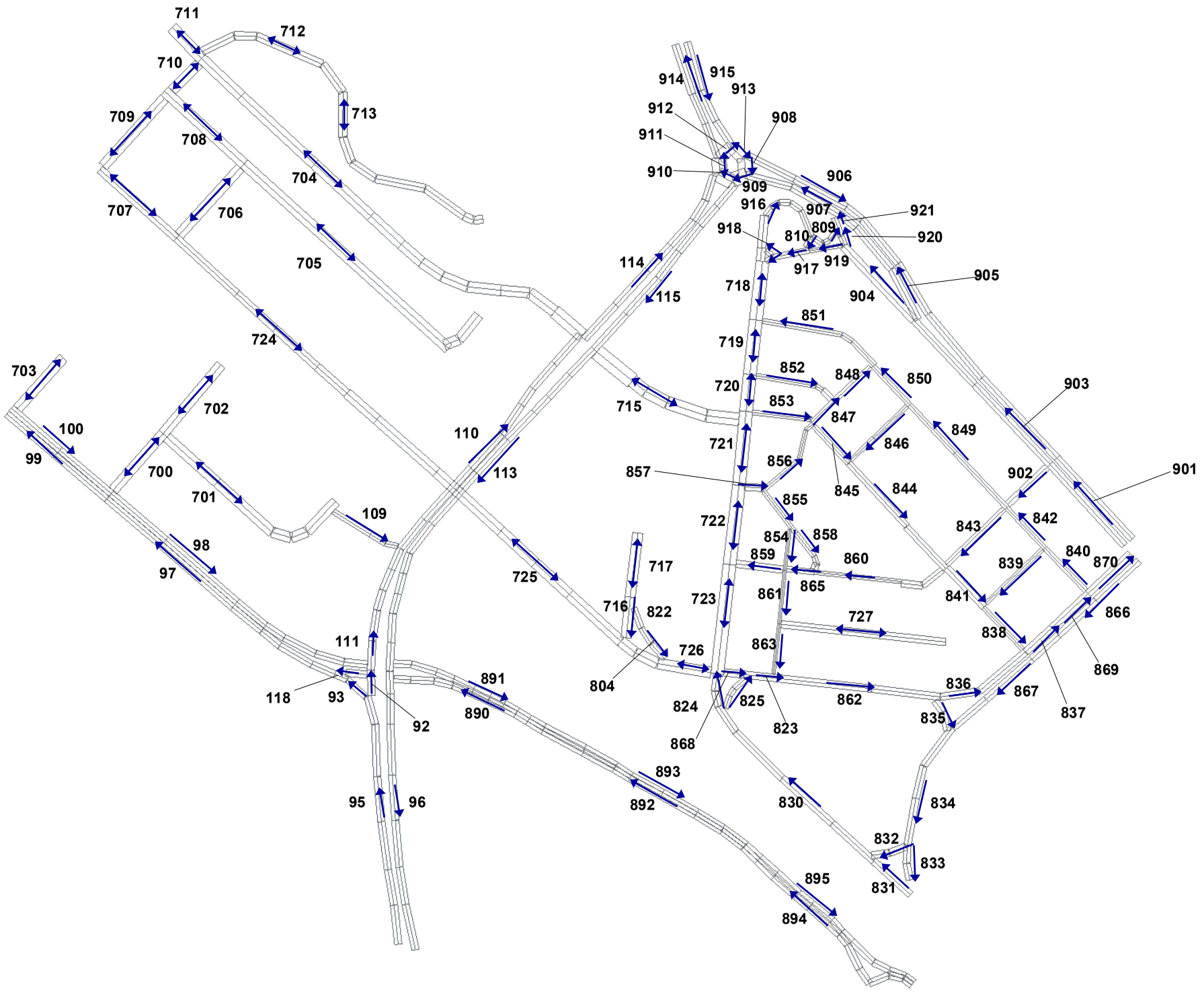
SHEET NUMBER
圖紙編號

60629088/A1F/127

Appendix 4.2

Traffic Forecast

2031 Traffic ID



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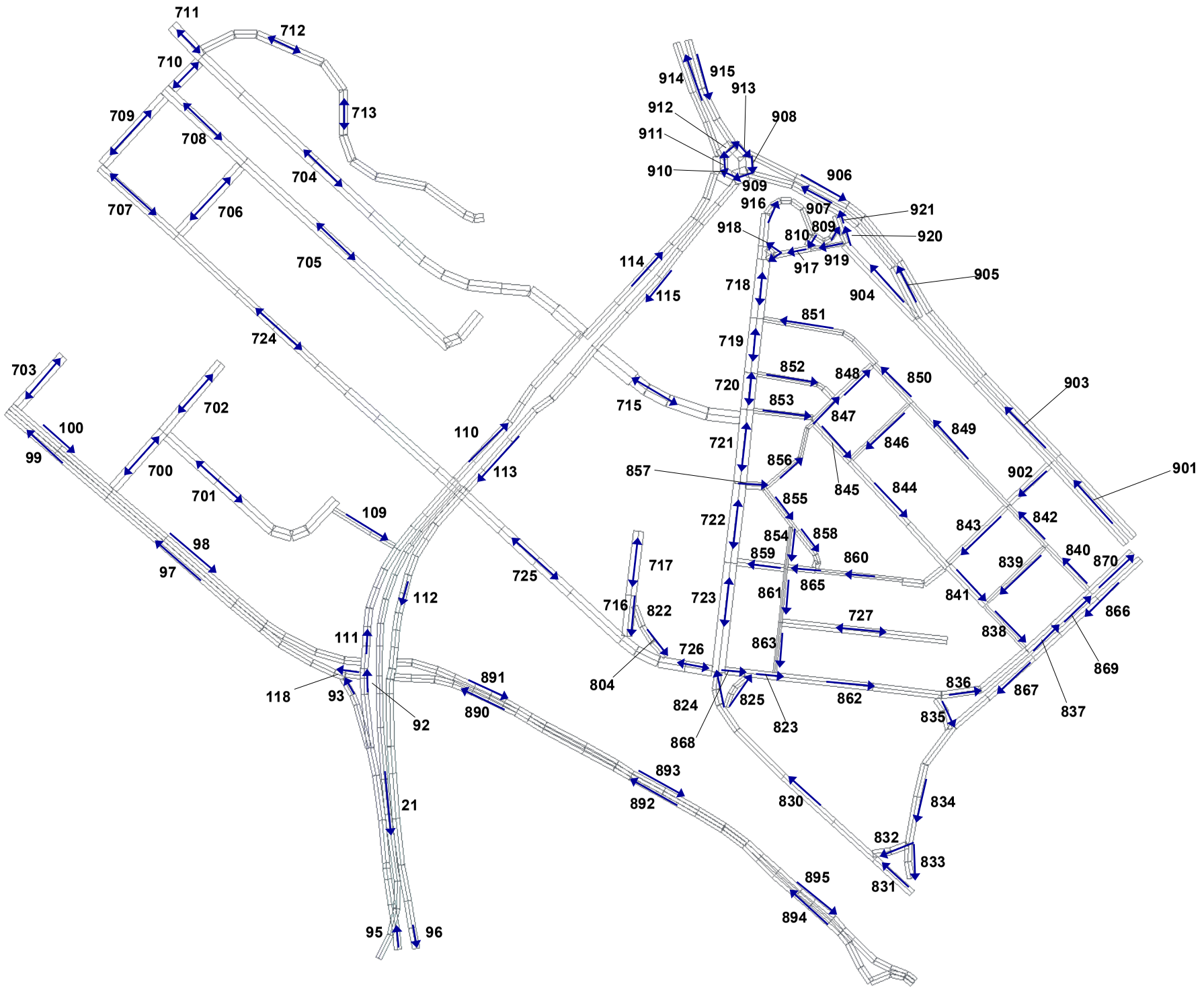
Year 2031 Traffic Flow

ID	Description	Speed Limit (km/hr)	Year 2031	
			Traffic Flow (veh/hr)	% of Heavy Vehicles
95	Po Shek Wu Road NB	50	1714	40.8
96	Po Shek Wu Road SB	50	1817	55.6
97	Choi Yuen Road WB	50	322	34.6
98	Choi Yuen Road EB	50	330	71.7
99	Choi Yuen Road WB	50	164	34.3
100	Choi Yuen Road EB	50	168	71.9
109	Choi Fai Street EB	50	184	77.3
110	Po Shek Wu Road NB	50	1720	47.5
111	Po Shek Wu Road NB	50	1519	42.8
112	Po Shek Wu Road SB	50	1361	43.7
113	Po Shek Wu Road SB	50	1361	43.7
114	Po Shek Wu Road NB	50	816	52.5
115	Po Shek Wu Road SB	50	932	36.8
116	Po Wan Road WB	50	480	35.6
117	Po Wan Road EB	50	204	56.9
118	Po Shek Wu Road NB to Choi Yuen Road WB	50	132	26.5
700	Choi Fat Street (101+102)	50	302	49.2
701	Choi Fai Street (103+104)	50	145	49.0
702	Choi Fat Street (105+106)	50	160	48.6
703	Choi Shun Street (107+108)	50	244	30.5
704	Po Wan Road (116+117)	50	684	42.0
705	Ka Fu Circuit (120+121)	50	84	34.7
706	Cheuk Wan Road (122+123)	50	69	36.1
707	San Wan Road (124+125)	50	292	40.4
708	Ka Fu Circuit (127+128)	50	131	37.1
709	San Po Street (129+130)	50	146	36.8
710	San Po Street (131+132)	50	279	36.6
711	Po Wan Road (133+136)	50	502	43.3
712	Sheung Shui Tung Hing Road (134+135)	50	65	34.7
713	Sheung Shui Tung Hing Road (137+138)	50	51	35.9
714	Po Wan Road (139+140)	50	422	45.7
715	Po Wan Road (397+398)	50	845	56.5
716	Unamed Road (803+805)	50	110	46.2
717	Unamed Road (805+806)	50	227	46.7
718	San Fung Avenue (811+812)	50	235	36.6
719	San Fung Avenue (813+814)	50	148	47.3
720	San Fung Avenue (815+816)	50	267	48.9
721	San Fung Avenue (817+818)	50	763	58.6
722	San Fung Avenue (819+820)	50	505	69.4
723	San Fung Avenue (821+822)	50	566	61.8
724	San Wan Road (826+827)	50	321	36.4

ID	Description	Speed Limit (km/hr)	Year 2031	
			Traffic Flow (veh/hr)	% of Heavy Vehicles
725	San Wan Road (828+829)	50	321	36.4
726	San Wan Road (807+808)	50	466	37.0
727	San Lok Street (864+865)	50	326	19.0
830	San Wan Road WB	50	590	57.1
831	San Wan Road WB	50	493	53.8
832	Lung Wan Street SB	50	104	72.5
833	Lung Wan Street SB	50	817	43.8
834	Lung Sum Avenue EB	50	921	47.3
835	Lung Sum Avenue EB	50	865	48.9
836	Lung Sum Avenue EB	50	85	89.7
837	Lung Sum Avenue EB	50	285	56.6
838	San Hong Street SB	50	202	44.3
839	San Cheung Street WB	50	9	37.5
840	San Shing Avenue WB	50	117	14.7
841	San Hong Street SB	50	196	44.4
842	San Shing Avenue WB	50	108	11.7
843	Fu Hing Street WB	50	125	49.5
844	San Hong Street SB	50	283	29.6
845	San Hong Street SB	50	203	27.7
846	San Kung Street WB	50	71	32.3
847	Tsun Fu Street	50	26	56.5
848	Tsun Fu Street EB	50	108	27.7
849	San Shing Avenue WB	50	131	28.1
850	San Shing Avenue WB	50	57	22.0
851	San Shing Avenue WB	50	165	25.7
852	San Kin Street EB	50	81	18.3
853	San Hong Street EB	50	33	37.9
854	San Fat Street SB	50	122	55.7
855	San Tsoi Street SB	50	160	51.8
856	Tsun Fu Street EB	50	196	38.6
857	Tsun Fu Street EB	50	352	44.6
858	San Tsoi Street SB	50	38	39.4
859	Fu Hing Street WB	50	61	20.8
860	Fu Hing Street WB	50	250	16.1
861	San Fat Street SB	50	353	31.8
862	Lung Sum Avenue EB	50	937	51.6
863	San Fat Street SB	50	316	29.1
864	San Lok Street WB	50	32	17.9
865	Fu Hing Street WB	50	294	19.1
866	Lung Sum Avenue WB	50	273	40.3
867	Lung Sum Avenue WB	50	169	49.0
868	Lung Sum Avenue EB	50	351	40.2

ID	Description	Speed Limit (km/hr)	Year 2031	
			Traffic Flow (veh/hr)	% of Heavy Vehicles
869	Lung Sum Avenue EB	50	522	41.6
870	Lung Sum Avenue EB	50	406	49.7
890	Choi Yuen Road WB	50	1269	39.7
891	Choi Yuen Road EB	50	1010	27.4
892	Choi Yuen Road WB	50	1151	30.8
893	Choi Yuen Road EB	50	969	27.2
894	Choi Yuen Road WB	50	1144	27.8
895	Choi Yuen Road EB	50	980	28.4
901	Jockey Club Road NB	50	437	33.8
902	Fu Hing Street WB	50	141	59.3
903	Jockey Club Road NB	50	300	22.5
904	Jockey Club Road NB	50	75	47.7
905	Jockey Club Road NB	50	227	15.1
906	Jockey Club Road SB	50	650	45.6
907	Jockey Club Road NB	50	429	22.4
908	Jockey Club Road Roundabout	50	624	44.5
909	Jockey Club Road Roundabout	50	1055	35.5
910	Jockey Club Road Roundabout	50	119	24.0
911	Jockey Club Road Roundabout	50	935	49.0
912	Jockey Club Road Roundabout	50	442	50.8
913	Jockey Club Road Roundabout	50	1275	45.1
914	Jockey Club Road NB	50	493	47.4
915	Jockey Club Road SB	50	832	41.9
916	San Fung Avenue NB	50	197	33.1
917	San Fung Avenue WB	50	54	51.1
918	San Fung Avenue WB	50	17	46.7
919	San Fung Avenue WB	50	54	51.1
920	Jockey Club Road NB	50	17	40.0
921	Jockey Club Road NB	50	198	32.9

2045 Traffic ID



Year 2045 Traffic Flow

ID	Street [1]	Speed Limit (km/hr)	Year 2045	
			Traffic Flow (veh/hr)	% of Heavy Vehicles
21	Po Shek Wu Road Flyover SB	50	1326	57.5
95	Po Shek Wu Road NB	50	1988	38.7
96	Po Shek Wu Road SB	50	1348	50.8
97	Choi Yuen Road WB	50	324	34.5
98	Choi Yuen Road EB	50	308	70.1
99	Choi Yuen Road WB	50	168	34.9
100	Choi Yuen Road EB	50	156	70.6
109	Choi Fai Street EB	50	182	75.2
110	Po Shek Wu Road NB	50	1780	48.8
111	Po Shek Wu Road NB	50	1578	44.8
112	Po Shek Wu Road SB	50	885	36.1
113	Po Shek Wu Road SB	50	2208	48.9
114	Po Shek Wu Road NB	50	853	53.7
115	Po Shek Wu Road SB	50	1688	44.5
116	Po Wan Road WB	50	473	37.2
117	Po Wan Road EB	50	205	55.2
118	Po Shek Wu Road NB to Choi Yuen Road WB	50	89	34.2
700	Choi Fat Street (101+102)	50	292	47.8
701	Choi Fai Street (103+104)	50	139	47.0
702	Choi Fat Street (105+106)	50	156	46.7
703	Choi Shun Street (107+108)	50	245	30.5
704	Po Wan Road (116+117)	50	678	42.7
705	Ka Fu Circuit (120+121)	50	81	36.5
706	Cheuk Wan Road (122+123)	50	70	37.7
707	San Wan Road (124+125)	50	310	40.8
708	Ka Fu Circuit (127+128)	50	134	38.6
709	San Po Street (129+130)	50	149	38.5
710	San Po Street (131+132)	50	286	37.8
711	Po Wan Road (133+136)	50	474	44.0
712	Sheung Shui Tung Hing Road (134+135)	50	68	25.7
713	Sheung Shui Tung Hing Road (137+138)	50	53	25.3
714	Po Wan Road (139+140)	50	408	46.8
715	Po Wan Road (397+398)	50	644	63.1
716	Unamed Road (803+805)	50	110	46.2
717	Unamed Road (805+806)	50	227	46.7
718	San Fung Avenue (811+812)	50	378	23.4
719	San Fung Avenue (813+814)	50	105	36.0
720	San Fung Avenue (815+816)	50	244	57.5
721	San Fung Avenue (817+818)	50	785	60.4
722	San Fung Avenue (819+820)	50	520	73.4
723	San Fung Avenue (821+822)	50	603	63.9

ID	Street [1]	Speed Limit (km/hr)	Year 2045	
			Traffic Flow (veh/hr)	% of Heavy Vehicles
724	San Wan Road (826+827)	50	307	34.6
725	San Wan Road (828+829)	50	307	34.6
726	San Wan Road (807+808)	50	451	34.7
727	San Lok Street (864+865)	50	194	22.5
804	Unamed Road	50	116	42.9
809	San Fung Avenue SB	50	322	18.9
810	San Fung Avenue SB	50	17	46.7
823	Lung Sum Avenue EB	50	621	60.8
824	San Wan Road WB	50	348	36.9
825	San Wan Road WB to Lung Sum Avenue EB	50	246	91.6
830	San Wan Road WB	50	548	57.9
831	San Wan Road WB	50	449	54.9
832	Lung Wan Street SB	50	105	72.5
833	Lung Wan Street SB	50	589	48.0
834	Lung Sum Avenue EB	50	694	51.9
835	Lung Sum Avenue EB	50	640	54.5
836	Lung Sum Avenue EB	50	129	71.7
837	Lung Sum Avenue EB	50	285	56.6
838	San Hong Street SB	50	161	46.4
839	San Cheung Street WB	50	9	37.5
840	San Shing Avenue WB	50	192	10.8
841	San Hong Street SB	50	161	46.4
842	San Shing Avenue WB	50	185	10.6
843	Fu Hing Street WB	50	120	50.0
844	San Hong Street SB	50	194	32.0
845	San Hong Street SB	50	118	32.0
846	San Kung Street WB	50	75	32.3
847	Tsun Fu Street	50	92	23.8
848	Tsun Fu Street EB	50	159	22.5
849	San Shing Avenue WB	50	222	20.7
850	San Shing Avenue WB	50	145	14.3
851	San Shing Avenue WB	50	302	18.3
852	San Kin Street EB	50	62	16.7
853	San Hong Street EB	50	34	40.0
854	San Fat Street SB	50	97	52.4
855	San Tsoi Street SB	50	125	46.8
856	Tsun Fu Street EB	50	161	37.1
857	Tsun Fu Street EB	50	285	41.5
858	San Tsoi Street SB	50	26	21.7
859	Fu Hing Street WB	50	84	17.8
860	Fu Hing Street WB	50	137	23.5
861	San Fat Street SB	50	178	41.9

ID	Street [1]	Speed Limit (km/hr)	Year 2045	
			Traffic Flow (veh/hr)	% of Heavy Vehicles
862	Lung Sum Avenue EB	50	754	56.5
863	San Fat Street SB	50	138	40.0
864	San Lok Street WB	50	32	17.9
865	Fu Hing Street WB	50	162	23.4
866	Lung Sum Avenue WB	50	282	39.6
867	Lung Sum Avenue WB	50	179	47.4
868	Lung Sum Avenue EB	50	345	33.3
869	Lung Sum Avenue EB	50	608	37.3
870	Lung Sum Avenue EB	50	416	49.4
890	Choi Yuen Road WB	50	1022	42.6
891	Choi Yuen Road EB	50	946	27.3
892	Choi Yuen Road WB	50	889	33.3
893	Choi Yuen Road EB	50	876	27.5
894	Choi Yuen Road WB	50	890	30.3
895	Choi Yuen Road EB	50	890	28.9
901	Jockey Club Road NB	50	534	33.8
902	Fu Hing Street WB	50	158	56.2
903	Jockey Club Road NB	50	381	25.6
904	Jockey Club Road NB	50	76	47.0
905	Jockey Club Road NB	50	305	20.3
906	Jockey Club Road SB	50	398	31.8
907	Jockey Club Road NB	50	653	19.0
908	Jockey Club Road Roundabout	50	1180	55.9
909	Jockey Club Road Roundabout	50	1833	42.8
910	Jockey Club Road Roundabout	50	144	22.4
911	Jockey Club Road Roundabout	50	999	49.3
912	Jockey Club Road Roundabout	50	452	51.8
913	Jockey Club Road Roundabout	50	1578	49.9
914	Jockey Club Road NB	50	545	47.3
915	Jockey Club Road SB	50	1125	49.2
916	San Fung Avenue NB	50	339	20.3
917	San Fung Avenue WB	50	56	49.0
918	San Fung Avenue WB	50	17	46.7
919	San Fung Avenue WB	50	56	49.0
920	Jockey Club Road NB	50	17	40.0
921	Jockey Club Road NB	50	339	20.0

Notes:[1] NB = North bound, SB = South bound, EB = East bound, WB = West bound

Appendix 4.3

Predicted Traffic Noise Levels for Residential Blocks (Basecase Scenario A)

Floor	R101a	R101b	R101c	R102a	R102b	R103a	R103b	R103c	R103d	R103e	R103f	R104a	R104b	R104c	R105a	R105b	R105c	R105d	R106a	R106b	R106c	R106d	R107a	R107b	R108a	R108b	R108c
45	71.6	71.6	64.3	70.9	63.9	68.0	70.7	70.6	64.5	64.5	64.6	52.2	56.3	44.8	54.4	58.8	58.9	<40	54.1	57.8	58.0	<40	57.4	57.9	58.7	59.1	59.2
44	71.6	71.7	64.3	70.9	63.9	68.0	70.7	70.7	64.4	64.4	64.6	52.2	56.3	44.6	54.3	58.7	58.9	<40	54.0	57.8	57.8	<40	57.4	57.9	58.6	59.1	59.2
43	71.7	71.8	64.4	71.0	64.0	68.1	70.8	70.7	64.4	64.5	64.6	52.2	56.3	44.5	54.3	58.7	58.9	<40	53.9	57.7	57.8	<40	57.5	57.9	58.7	59.2	59.3
42	71.7	71.8	64.4	71.0	64.0	68.1	70.8	70.7	64.4	64.5	64.7	52.1	56.2	44.4	54.2	58.7	58.9	<40	53.9	57.7	57.9	<40	57.5	57.9	58.7	59.1	59.2
41	71.8	71.9	64.5	71.0	64.0	68.2	70.9	70.8	64.4	64.5	64.7	52.2	56.1	44.3	54.2	58.6	58.8	<40	53.8	57.6	57.8	<40	57.4	57.9	58.7	59.2	59.3
40	71.9	71.9	64.5	71.1	64.0	68.2	70.9	70.8	64.5	64.5	64.7	52.1	56.1	44.1	54.0	58.7	58.8	<40	53.6	57.7	57.8	<40	57.4	57.9	58.7	59.2	59.3
39	71.9	72.0	64.5	71.1	64.1	68.3	70.9	70.9	64.5	64.5	64.7	52.1	56.0	43.9	53.9	58.6	58.8	<40	53.5	57.7	57.8	<40	57.3	58.0	58.8	59.2	59.3
38	72.0	72.0	64.6	71.2	64.1	68.4	71.0	70.9	64.4	64.5	64.7	52.0	55.9	43.8	53.7	58.5	58.7	<40	53.4	57.6	57.8	<40	57.3	57.9	58.7	59.2	59.3
37	72.1	72.1	64.6	71.3	64.1	68.4	71.0	71.0	64.5	64.5	64.7	52.0	55.7	43.5	53.5	58.5	58.6	<40	53.2	57.6	57.7	<40	57.3	58.0	58.7	59.2	59.3
36	72.1	72.1	64.7	71.3	64.2	68.5	71.1	71.0	64.4	64.5	64.7	51.9	55.6	43.2	53.2	58.3	58.6	<40	53.0	57.5	57.6	<40	57.2	57.9	58.8	59.2	59.3
35	72.2	72.2	64.7	71.4	64.2	68.5	71.2	71.1	64.5	64.5	64.7	51.8	55.4	42.9	52.9	58.2	58.5	<40	52.8	57.4	57.6	<40	57.2	57.9	58.7	59.2	59.3
34	72.2	72.3	64.7	71.4	64.2	68.6	71.2	71.1	64.5	64.5	64.7	51.8	55.2	42.4	52.7	58.1	58.5	<40	52.6	57.4	57.5	<40	57.2	57.8	58.7	59.2	59.3
33	72.3	72.3	64.8	71.4	64.3	68.7	71.2	71.1	64.4	64.5	64.7	51.6	55.0	42.1	52.5	58.0	58.4	<40	52.4	57.3	57.5	<40	57.1	57.8	58.7	59.2	59.3
32	72.3	72.4	64.8	71.5	64.3	68.7	71.3	71.2	64.4	64.5	64.6	51.6	54.9	41.9	52.3	58.1	58.3	<40	52.3	57.3	57.5	<40	57.0	57.8	58.7	59.2	59.2
31	72.4	72.4	64.8	71.6	64.3	68.8	71.3	71.2	64.4	64.5	64.6	51.4	54.8	41.4	52.0	57.9	58.3	<40	52.1	57.2	57.4	<40	57.0	57.7	58.6	59.2	59.3
30	72.5	72.5	64.9	71.6	64.4	68.8	71.4	71.3	64.4	64.5	64.6	51.2	54.5	40.9	51.7	57.8	58.2	<40	52.0	57.1	57.3	<40	56.9	57.7	58.6	59.1	59.2
29	72.5	72.6	64.9	71.7	64.4	68.9	71.4	71.3	64.4	64.5	64.6	51.1	54.4	40.5	51.5	57.7	58.1	<40	51.9	57.0	57.2	<40	56.8	57.6	58.5	59.1	59.2
28	72.6	72.6	64.9	71.7	64.4	69.0	71.5	71.4	64.4	64.5	64.6	51.1	54.2	<40	51.3	57.6	58.0	<40	51.7	56.9	57.1	<40	56.7	57.4	58.5	59.0	59.2
27	72.7	72.7	64.9	71.8	64.5	69.0	71.5	71.4	64.4	64.5	64.5	50.9	54.1	<40	51.1	57.4	57.9	<40	51.7	56.6	57.0	<40	56.5	57.4	58.4	58.9	59.1
26	72.7	72.7	64.9	71.8	64.5	69.1	71.5	71.5	64.4	64.5	64.5	50.8	54.0	<40	50.9	57.3	57.7	<40	51.5	56.5	56.9	<40	56.3	57.2	58.3	58.8	59.1
25	72.8	72.8	65.0	71.9	64.4	69.1	71.6	71.5	64.3	64.4	64.5	50.6	53.8	<40	50.7	57.1	57.6	<40	51.4	56.4	56.6	<40	56.1	57.0	58.1	58.8	59.0
24	72.8	72.9	65.0	71.9	64.5	69.2	71.6	71.5	64.3	64.4	64.4	50.4	53.6	<40	50.5	56.9	57.4	<40	51.4	56.1	56.4	<40	55.9	56.9	58.0	58.7	58.9
23	72.9	72.9	65.0	71.9	64.4	69.3	71.7	71.6	64.3	64.4	64.4	50.1	53.4	<40	50.4	56.7	57.1	<40	51.3	55.7	56.1	<40	55.6	56.6	57.8	58.5	58.9
22																											
21	73.1	73.1	65.0	72.1	64.5	69.4	71.8	71.6	64.2	64.3	64.2	48.7	52.6	<40	50.0	55.7	56.3	<40	51.0	54.9	55.5	<40	55.0	56.3	57.7	58.3	58.8
20	73.1	73.1	65.1	72.1	64.5	69.5	71.8	71.7	64.2	64.3	64.1	47.5	52.1	<40	49.9	55.4	56.0	<40	51.0	54.7	55.4	<40	54.9	56.2	57.6	58.3	58.7
19	73.2	73.2	65.1	72.2	64.5	69.5	71.8	71.7	64.1	64.2	64.0	47.0	51.7	<40	49.8	55.1	55.8	<40	50.9	54.6	55.1	<40	54.5	55.9	57.4	58.2	58.7
18	73.2	73.2	65.1	72.2	64.5	69.6	71.9	71.7	64.1	64.2	64.0	45.9	51.5	<40	49.7	54.6	55.4	<40	50.8	54.1	54.8	<40	54.2	55.8	57.3	58.1	58.7
17	73.3	73.3	65.2	72.2	64.5	69.6	71.9	71.8	64.1	64.2	63.9	45.0	50.9	<40	49.6	54.2	54.9	<40	50.8	53.8	54.6	<40	54.0	55.7	57.2	58.0	58.5
16	73.4	73.3	65.2	72.3	64.5	69.7	71.9	71.8	64.1	64.2	63.9	44.3	50.7	<40	49.6	53.8	54.5	<40	50.8	53.5	54.4	<40	53.8	55.4	57.1	57.9	58.5
15	73.4	73.4	65.2	72.3	64.6	69.7	72.0	71.8	64.0	64.2	63.9	43.7	50.5	<40	49.4	53.5	54.2	<40	50.7	53.2	54.1	<40	53.6	55.4	57.0	57.9	58.5
14	73.5	73.5	65.3	72.4	64.6	69.8	72.0	71.9	64.0	64.2	63.8	43.1	50.2	<40	49.4	53.2	53.8	<40	50.6	53.1	54.0	<40	53.4	55.2	56.9	57.8	58.4
13	73.5	73.5	65.3	72.4	64.6	69.8	72.0	71.9	64.0	64.2	63.9	42.5	50.1	<40	49.3	53.0	53.5	<40	50.6	52.9	53.9	<40	53.2	55.1	56.9	57.7	58.4
12	73.6	73.6	65.4	72.4	64.6	69.8	72.1	71.9	64.1	64.2	63.8	42.1	50.0	<40	49.3	52.8	53.3	<40	50.6	52.6	53.7	<40	53.1	54.9	56.7	57.6	58.3
11	73.6	73.6	65.4	72.5	64.7	69.9	72.1	72.0	64.0	64.2	63.8	41.6	49.9	<40	49.3	52.6	53.0	<40	50.4	52.3	53.5	<40	52.9	54.7	56.5	57.5	58.2
10	73.7	73.7	65.4	72.5	64.7	69.9	72.1	72.0	64.1	64.2	63.8	41.2	49.8	<40	49.3	52.3	52.8	<40	50.1	52.1	53.3	<40	52.7	54.5	56.4	57.3	58.0
9	73.7	73.7	65.4	72.6	64.7	70.0	72.1	72.0	64.0	64.2	63.8	40.8	49.7	<40	49.2	51.9	52.3	<40	49.6	51.7	53.0	<40	52.4	54.1	56.1	57.2	58.0
8	73.8	73.8	65.4	72.6	64.7	70.0	72.2	72.0	64.0	64.1	63.8	40.5	49.7	<40	49.1	51.4	51.7	<40	48.4	51.0	52.6	<40	52.1	53.7	55.8	56.9	57.7
7	73.8	73.8	65.5	72.6	64.7	70.0	72.2	72.0	64.0	64.1	63.7	40.2	49.7	<40	49.0	50.1	50.5	<40	46.8	50.1	52.1	<40	51.6	52.8	55.1	56.3	57.1
6	73.9	73.8	65.5	72.6	64.6	70.1	72.1	71.9	63.9	64.0	63.6	<40	49.6	<40	48.9	49.1	49.6	<40	45.5	49.2	51.5	<40	50.8	51.6	53.8	55.4	56.4
5	73.9	73.8	65.4	72.4	64.6	70.0	71.6	71.4	63.8	63.9	63.4	<40	49.3	<40	48.4	48.3	48.9	<40	44.5	48.3	50.1	<40	49.0	50.3	51.9	54.4	55.8
4	73.8	73.5	64.4	70.8	63.3	68.4	70.3	70.2	62.6	62.5	61.4	<40	47.7	<40	45.5	47.5	47.9	<40	43.2	46.6	47.4	<40	46.5	47.8	49.7	51.8	54.7
Max	73.9	73.8	65.5	72.6	64.7	70.1	72.2	72.0	64.5	64.5	64.7	52.2	56.3	44.8	54.4	58.8	58.9	<40	54.1	57.8	58.0	<40	57.5	58.0	58.8	59.2	59.3
Min	71.6	71.6	64.3	70.8	63.3	68.0	70.3	70.2	62.6	62.5	61.4	<40	47.7	<40	45.5	47.5	47.9	<40	43.2	46.6	47.4	<40	46.5	47.8	49.7	51.8	54.7

# Total Flats	1927	Noise sensitive receivers with exceedance (≥70.5 dB(A))
Exceedance	749	Remark: R111a, R113a, R115a, R214a, R216a, R218a are not used.
Compliance Rate	61.1%	

Floor	R109a	R109b	R109c	R110a	R110b	R111b	R111c	R112a	R112b	R113b	R113c	R114a	R114b	R115b	R115c	R116a	R116b	R116c	R117a	R117b	R118a	R118b	R119a	R119b	R120a	R120b	R120c
45	57.6	59.8	59.9	70.2	70.3	70.4	70.4	70.8	70.9	71.0	71.1	71.2	71.3	71.8	72.4	72.1	72.1	65.0	69.1	71.3	71.0	63.8	69.5	70.6	70.8	71.1	68.7
44	57.6	59.8	59.9	70.3	70.3	70.4	70.4	70.8	70.9	71.1	71.1	71.3	71.4	71.8	72.5	72.1	72.1	65.1	69.2	71.3	71.1	63.9	69.6	70.6	70.9	71.2	68.7
43	57.6	59.8	59.9	70.3	70.3	70.4	70.5	70.9	71.0	71.1	71.2	71.4	71.5	71.9	72.5	72.2	72.2	65.2	69.2	71.4	71.1	63.9	69.7	70.7	70.9	71.2	68.8
42	57.7	59.8	59.9	70.3	70.4	70.5	70.5	70.9	71.0	71.2	71.3	71.4	71.5	71.9	72.6	72.3	72.3	65.2	69.3	71.5	71.2	64.0	69.7	70.7	71.0	71.3	68.9
41	57.7	59.8	60.0	70.4	70.4	70.5	70.6	71.0	71.1	71.2	71.3	71.5	71.6	72.0	72.6	72.3	72.3	65.3	69.3	71.5	71.3	64.0	69.8	70.8	71.0	71.4	69.0
40	57.7	59.9	60.0	70.4	70.5	70.6	70.6	71.1	71.1	71.3	71.4	71.5	71.6	72.0	72.7	72.4	72.4	65.3	69.4	71.6	71.3	64.1	69.9	70.9	71.1	71.4	69.0
39	57.7	59.9	60.0	70.5	70.5	70.6	70.7	71.1	71.2	71.4	71.4	71.6	71.7	72.1	72.8	72.5	72.5	65.4	69.5	71.7	71.4	64.2	69.9	71.0	71.2	71.5	69.1
38	57.7	59.9	60.0	70.5	70.6	70.7	70.7	71.2	71.3	71.4	71.5	71.7	71.8	72.2	72.9	72.6	72.6	65.5	69.6	71.8	71.5	64.2	70.0	71.0	71.2	71.6	69.1
37	57.7	59.9	60.0	70.6	70.6	70.7	70.8	71.2	71.3	71.5	71.6	71.7	71.8	72.2	73.0	72.7	72.6	65.5	69.6	71.8	71.6	64.3	70.0	71.1	71.3	71.6	69.2
36	57.8	59.9	60.0	70.6	70.7	70.8	70.8	71.3	71.4	71.6	71.7	71.8	71.9	72.3	73.0	72.7	72.7	65.6	69.7	71.9	71.6	64.3	70.1	71.1	71.4	71.7	69.3
35	57.8	59.9	60.0	70.6	70.7	70.8	70.9	71.4	71.5	71.6	71.7	71.9	72.0	72.4	73.1	72.8	72.8	65.6	69.8	72.0	71.7	64.4	70.2	71.2	71.4	71.8	69.3
34	57.8	59.9	60.0	70.7	70.8	70.9	70.9	71.4	71.5	71.7	71.8	72.0	72.0	72.5	73.2	72.9	72.9	65.7	69.8	72.0	71.7	64.5	70.2	71.3	71.5	71.8	69.4
33	57.8	59.9	60.0	70.7	70.8	70.9	71.0	71.5	71.6	71.8	71.9	72.0	72.1	72.6	73.3	73.0	73.0	65.8	69.9	72.1	71.8	64.5	70.3	71.3	71.6	71.9	69.5
32	57.8	59.9	60.1	70.8	70.9	71.0	71.1	71.6	71.7	71.8	72.0	72.1	72.2	72.7	73.4	73.1	73.0	65.8	70.0	72.2	71.9	64.6	70.4	71.4	71.6	72.0	69.5
31	57.8	59.9	60.1	70.8	70.9	71.1	71.1	71.6	71.7	71.9	72.0	72.2	72.3	72.7	73.5	73.2	73.1	65.9	70.1	72.3	72.0	64.6	70.4	71.5	71.7	72.1	69.6
30	57.9	59.9	60.1	70.9	70.9	71.1	71.1	71.7	71.8	72.0	72.1	72.2	72.4	72.8	73.5	73.2	73.2	66.0	70.1	72.4	72.1	64.7	70.5	71.6	71.8	72.1	69.7
29	57.9	59.9	60.0	70.9	71.0	71.1	71.2	71.8	71.9	72.1	72.2	72.3	72.4	72.9	73.6	73.3	73.3	66.0	70.2	72.5	72.2	64.8	70.6	71.6	71.8	72.2	69.8
28	57.9	59.9	60.1	71.0	71.0	71.2	71.2	71.8	71.9	72.1	72.2	72.4	72.5	73.0	73.7	73.4	73.4	66.1	70.3	72.5	72.2	64.8	70.6	71.7	71.9	72.3	69.8
27	57.9	59.8	60.0	71.0	71.1	71.2	71.3	71.9	72.0	72.2	72.3	72.5	72.6	73.1	73.8	73.5	73.5	66.2	70.4	72.6	72.3	64.9	70.7	71.8	72.0	72.3	69.9
26	58.0	59.8	60.1	71.1	71.1	71.3	71.3	71.9	72.0	72.3	72.4	72.6	72.7	73.2	73.9	73.6	73.6	66.3	70.5	72.7	72.4	65.0	70.8	71.8	72.1	72.4	70.0
25	58.0	59.8	60.0	71.1	71.2	71.3	71.4	72.0	72.1	72.3	72.5	72.6	72.8	73.2	74.0	73.7	73.7	66.3	70.5	72.8	72.5	65.1	70.9	71.9	72.1	72.5	70.1
24	58.0	59.8	60.0	71.2	71.2	71.4	71.5	72.1	72.2	72.4	72.6	72.7	72.9	73.4	74.1	73.8	73.8	66.4	70.6	72.9	72.5	65.1	70.9	72.0	72.2	72.6	70.1
23	58.1	59.7	60.0	71.2	71.3	71.4	71.5	72.1	72.3	72.5	72.6	72.8	72.9	73.5	74.2	73.9	73.9	66.5	70.7	73.0	72.6	65.2	71.0	72.1	72.3	72.6	70.2
22																											
21	58.2	59.6	59.9	71.4	71.4	71.6	71.7	72.3	72.4	72.7	72.8	73.0	73.2	73.7	74.4	74.2	74.1	66.7	70.9	73.2	72.8	65.3	71.2	72.3	72.5	72.8	70.4
20	58.2	59.6	59.9	71.4	71.5	71.7	71.7	72.4	72.5	72.8	72.9	73.1	73.3	73.8	74.6	74.3	74.2	66.8	71.0	73.3	72.9	65.4	71.3	72.3	72.6	72.9	70.5
19	58.2	59.5	59.9	71.5	71.5	71.7	71.8	72.5	72.6	72.9	73.0	73.2	73.4	73.9	74.7	74.4	74.3	66.8	71.1	73.4	73.0	65.5	71.3	72.4	72.6	73.0	70.6
18	58.2	59.5	59.9	71.5	71.6	71.8	71.8	72.6	72.7	72.9	73.1	73.3	73.4	74.0	74.8	74.5	74.4	66.9	71.2	73.5	73.1	65.5	71.4	72.5	72.7	73.1	70.7
17	58.2	59.4	59.9	71.6	71.7	71.8	71.9	72.6	72.8	73.0	73.2	73.4	73.5	74.1	74.9	74.6	74.5	67.0	71.3	73.5	73.1	65.6	71.5	72.5	72.7	73.1	70.7
16	58.2	59.4	59.9	71.6	71.7	71.9	71.9	72.7	72.8	73.1	73.2	73.4	73.6	74.2	75.0	74.7	74.6	67.1	71.3	73.6	73.2	65.7	71.5	72.6	72.8	73.2	70.8
15	58.3	59.3	59.8	71.7	71.8	71.9	72.0	72.7	72.9	73.2	73.3	73.5	73.7	74.3	75.1	74.8	74.8	67.1	71.4	73.7	73.3	65.7	71.6	72.7	72.9	73.2	70.8
14	58.2	59.4	59.7	71.7	71.8	72.0	72.0	72.8	72.9	73.2	73.4	73.6	73.8	74.4	75.2	74.9	74.9	67.2	71.5	73.8	73.4	65.8	71.7	72.7	73.0	73.3	70.9
13	58.2	59.3	59.8	71.7	71.8	72.0	72.1	72.9	73.0	73.3	73.5	73.7	73.8	74.5	75.3	75.1	75.0	67.3	71.6	73.9	73.5	65.8	71.7	72.8	73.0	73.4	71.0
12	58.2	59.2	59.7	71.7	71.8	72.0	72.1	72.9	73.0	73.4	73.5	73.7	73.9	74.5	75.4	75.2	75.1	67.4	71.7	74.0	73.5	65.9	71.8	72.9	73.1	73.4	71.0
11	58.1	59.1	59.6	71.6	71.7	71.9	72.0	72.9	73.0	73.4	73.6	73.8	74.0	74.6	75.5	75.3	75.2	67.4	71.8	74.1	73.6	65.9	71.9	72.9	73.1	73.5	71.1
10	58.0	59.0	59.5	71.5	71.6	71.8	71.9	72.8	73.0	73.3	73.6	73.8	74.0	74.7	75.5	75.4	75.3	67.5	71.9	74.2	73.7	66.0	71.9	73.0	73.2	73.6	71.2
9	57.8	58.9	59.4	71.3	71.4	71.6	71.7	72.7	72.9	73.3	73.5	73.8	74.0	74.7	75.6	75.5	75.4	67.6	71.9	74.3	73.8	66.1	72.0	73.0	73.2	73.6	71.2
8	57.6	58.7	59.2	71.1	71.2	71.3	71.5	72.6	72.8	73.3	73.5	73.7	74.0	74.7	75.6	75.6	75.5	67.6	72.0	74.3	73.9	66.1	72.0	73.0	73.2	73.6	71.2
7	57.1	58.2	58.8	70.7	70.9	71.1	71.2	72.4	72.6	73.1	73.4	73.7	73.9	74.7	75.6	75.7	75.6	67.7	72.1	74.4	73.9	66.1	72.0	72.9	73.0	73.4	71.2
6	56.4	57.8	58.4	70.4	70.5	70.7	70.9	72.1	72.3	72.9	73.2	73.6	73.9	74.7	75.6	75.8	75.7	67.7	72.2	74.4	73.7	66.1	72.1	72.7	72.9	73.3	71.1
5	55.8	57.4	57.9	69.8	70.0	70.4	70.5	71.7	71.8	72.4	72.7	73.2	73.6	74.7	75.7	75.9	75.8	67.8	72.1	74.1	73.3	66.1	72.0	72.7	72.9	73.3	71.1
4	54.6	56.4	56.9	69.2	69.3	69.7	69.9	70.8	71.0	71.5	71.7	72.0	72.3	73.9	75.4	75.9	75.1	67.6	70.5	73.0	72.9	66.1	71.3	72.6	72.8	73.2	70.8
Max	58.3	59.9	60.1	71.7	71.8	72.0	72.1	72.9	73.0	73.4	73.6	73.8	74.0	74.7	75.7	75.9	75.8	67.8	72.2	74.4	73.9	66.1	72.1	73.0	73.2	73.6	71.2
Min	54.6	56.4	56.9	69.2	69.3	69.7	69.9	70.8	70.9	71.0	71.1	71.2	71.3	71.8	72.4	72.1	72.1	65.0	69.1	71.3	71.0	63.8	69.5	70.6	70.8	71.1	68.7

Noise sensitive receivers with exceedance (≥70.5 dB(A))

Remark: R111a, R113a, R115a, R214a, R216a, R218a are not used.

Floor	R121a	R121b	R121c	R122a	R122b	R122c	R123a	R123b	R123c	R201a	R201b	R201c	R201d	R201e	R201f	R202a	R202b	R203a	R203b	R204a	R204b	R204c	R204d	R204e	R204f	R205a	R205b
45	67.7	71.4	71.5	71.7	71.9	68.6	68.4	71.8	70.1	68.7	68.7	68.8	70.1	70.0	64.2	66.0	69.9	69.9	63.6	66.4	70.0	70.2	67.3	66.7	67.8	65.1	65.4
44	67.7	71.5	71.6	71.8	72.0	68.6	68.5	71.8	70.1	68.7	68.8	68.9	70.1	70.1	64.2	66.1	70.0	69.9	63.6	66.5	70.0	70.2	67.3	66.8	67.9	65.1	65.5
43	67.8	71.5	71.6	71.8	72.0	68.7	68.6	71.9	70.2	68.8	68.8	68.9	70.1	70.1	64.2	66.1	70.0	69.9	63.6	66.5	70.0	70.3	67.3	66.8	67.8	65.2	65.5
42	67.9	71.6	71.7	71.9	72.1	68.8	68.6	72.0	70.3	68.8	68.9	69.0	70.1	70.1	64.2	66.1	70.0	70.0	63.6	66.5	70.0	70.3	67.3	66.8	67.9	65.2	65.5
41	68.0	71.7	71.8	72.0	72.2	68.8	68.7	72.0	70.4	68.8	68.9	69.0	70.2	70.1	64.2	66.2	70.0	70.0	63.6	66.6	70.0	70.3	67.3	66.8	67.9	65.2	65.5
40	68.0	71.8	71.8	72.0	72.2	68.9	68.8	72.1	70.4	68.9	68.9	69.0	70.2	70.1	64.2	66.2	70.0	70.0	63.5	66.6	70.0	70.3	67.3	66.7	67.9	65.2	65.5
39	68.1	71.8	71.9	72.1	72.3	69.0	68.8	72.2	70.5	68.9	69.0	69.1	70.2	70.2	64.2	66.2	70.1	70.0	63.5	66.6	70.1	70.4	67.3	66.8	67.9	65.2	65.5
38	68.2	71.9	72.0	72.2	72.4	69.0	68.9	72.2	70.6	68.9	69.0	69.1	70.2	70.2	64.2	66.3	70.1	70.0	63.5	66.7	70.1	70.4	67.3	66.7	67.9	65.3	65.6
37	68.3	72.0	72.1	72.3	72.4	69.1	68.9	72.3	70.7	69.0	69.0	69.2	70.3	70.2	64.2	66.3	70.1	70.1	63.5	66.7	70.1	70.4	67.3	66.7	67.9	65.3	65.6
36	68.3	72.0	72.1	72.3	72.5	69.2	69.0	72.4	70.7	69.0	69.1	69.2	70.3	70.2	64.2	66.3	70.1	70.0	63.5	66.7	70.1	70.4	67.3	66.7	67.9	65.3	65.5
35	68.4	72.1	72.2	72.4	72.6	69.2	69.1	72.4	70.8	69.0	69.1	69.2	70.3	70.3	64.2	66.4	70.1	70.1	63.5	66.8	70.1	70.4	67.2	66.7	67.9	65.3	65.6
34	68.5	72.2	72.3	72.5	72.7	69.3	69.2	72.5	70.9	69.1	69.2	69.3	70.3	70.3	64.2	66.4	70.2	70.1	63.4	66.8	70.1	70.4	67.3	66.7	67.9	65.3	65.5
33	68.5	72.2	72.3	72.5	72.7	69.4	69.2	72.6	70.9	69.1	69.2	69.3	70.4	70.3	64.2	66.4	70.2	70.1	63.4	66.8	70.2	70.4	67.2	66.7	67.9	65.4	65.6
32	68.6	72.3	72.4	72.6	72.8	69.5	69.3	72.7	71.0	69.2	69.3	69.4	70.4	70.3	64.2	66.5	70.2	70.1	63.4	66.9	70.2	70.5	67.3	66.7	67.9	65.4	65.6
31	68.7	72.4	72.5	72.7	72.9	69.5	69.4	72.8	71.1	69.2	69.3	69.4	70.4	70.4	64.2	66.5	70.2	70.2	63.4	66.9	70.2	70.5	67.2	66.7	67.9	65.4	65.6
30	68.7	72.5	72.5	72.8	73.0	69.6	69.5	72.8	71.1	69.2	69.3	69.4	70.4	70.4	64.2	66.5	70.2	70.2	63.3	67.0	70.2	70.5	67.2	66.6	67.9	65.4	65.6
29	68.8	72.5	72.6	72.8	73.0	69.7	69.6	72.9	71.2	69.3	69.4	69.5	70.5	70.4	64.2	66.6	70.3	70.2	63.3	67.0	70.2	70.5	67.2	66.6	67.9	65.4	65.6
28	68.9	72.6	72.7	72.9	73.1	69.8	69.6	72.9	71.3	69.3	69.4	69.5	70.5	70.4	64.1	66.6	70.3	70.2	63.3	67.0	70.2	70.5	67.2	66.6	67.9	65.4	65.6
27	69.0	72.7	72.8	73.0	73.2	69.8	69.7	73.0	71.4	69.3	69.5	69.6	70.5	70.4	64.1	66.7	70.3	70.2	63.2	67.1	70.2	70.5	67.1	66.5	67.9	65.4	65.6
26	69.0	72.7	72.8	73.1	73.3	69.9	69.8	73.1	71.5	69.4	69.5	69.6	70.5	70.5	64.1	66.7	70.3	70.2	63.2	67.1	70.3	70.5	67.1	66.5	67.9	65.4	65.6
25	69.1	72.8	72.9	73.1	73.3	70.0	69.9	73.2	71.5	69.4	69.5	69.6	70.5	70.5	64.0	66.7	70.3	70.2	63.1	67.1	70.3	70.5	67.0	66.4	67.8	65.4	65.6
24	69.2	72.9	73.0	73.2	73.4	70.0	69.9	73.3	71.6	69.4	69.6	69.7	70.5	70.5	63.9	66.8	70.3	70.2	63.0	67.1	70.3	70.5	67.0	66.3	67.8	65.4	65.6
23	69.3	73.0	73.0	73.3	73.5	70.1	70.0	73.4	71.7	69.4	69.6	69.7	70.5	70.5	63.9	66.8	70.3	70.2	63.0	67.2	70.3	70.5	66.9	66.2	67.7	65.3	65.5
22																											
21	69.5	73.1	73.2	73.5	73.7	70.3	70.2	73.5	71.9	69.5	69.7	69.8	70.6	70.5	63.7	66.9	70.3	70.2	62.8	67.2	70.2	70.4	66.5	65.8	67.5	65.3	65.5
20	69.6	73.2	73.3	73.5	73.7	70.3	70.3	73.6	72.0	69.5	69.7	69.8	70.6	70.5	63.6	66.9	70.3	70.2	62.7	67.2	70.2	70.3	66.4	65.6	67.3	65.3	65.5
19	69.7	73.3	73.4	73.6	73.8	70.4	70.4	73.7	72.0	69.6	69.7	69.8	70.6	70.5	63.5	66.9	70.3	70.2	62.6	67.3	70.1	70.3	66.3	65.4	67.3	65.3	65.5
18	69.8	73.4	73.4	73.7	73.9	70.5	70.5	73.8	72.1	69.6	69.8	69.9	70.6	70.5	63.4	67.0	70.3	70.1	62.5	67.3	70.1	70.2	66.1	65.2	67.2	65.3	65.6
17	69.8	73.5	73.5	73.7	73.9	70.5	70.5	73.8	72.2	69.6	69.8	69.9	70.6	70.5	63.3	67.0	70.3	70.1	62.3	67.3	70.1	70.2	65.9	65.0	67.1	65.3	65.6
16	69.9	73.5	73.6	73.8	74.0	70.6	70.6	73.9	72.3	69.6	69.8	69.9	70.5	70.5	63.1	67.0	70.3	70.1	62.2	67.3	70.0	70.1	65.8	64.8	67.0	65.3	65.7
15	70.0	73.6	73.7	73.9	74.1	70.7	70.7	74.0	72.4	69.6	69.8	69.9	70.5	70.4	63.0	67.0	70.2	70.1	62.0	67.3	70.0	70.1	65.6	64.7	67.0	65.4	65.7
14	70.0	73.6	73.7	73.9	74.2	70.7	70.7	74.0	72.4	69.7	69.8	70.0	70.5	70.4	62.7	67.0	70.2	70.0	61.7	67.3	69.9	70.1	65.5	64.5	66.9	65.4	65.7
13	70.1	73.7	73.8	74.0	74.2	70.8	70.8	74.1	72.5	69.7	69.9	70.0	70.5	70.4	62.6	67.0	70.1	70.0	61.4	67.3	69.9	70.0	65.3	64.3	66.8	65.5	65.8
12	70.2	73.8	73.8	74.1	74.3	70.9	70.9	74.2	72.6	69.7	69.9	70.0	70.5	70.4	62.5	67.1	70.1	69.9	61.1	67.3	69.8	69.9	65.1	64.0	66.8	65.5	65.8
11	70.2	73.9	73.9	74.1	74.3	70.9	70.9	74.2	72.6	69.7	69.9	70.0	70.4	70.3	62.4	67.0	70.0	69.8	61.0	67.3	69.7	69.8	64.8	63.6	66.7	65.4	65.8
10	70.3	73.9	74.0	74.2	74.4	71.0	71.0	74.3	72.7	69.7	69.9	70.0	70.4	70.3	62.2	67.0	70.0	69.7	60.6	67.3	69.6	69.6	64.5	63.3	66.6	65.4	65.8
9	70.3	74.0	74.0	74.3	74.5	71.0	71.1	74.3	72.7	69.7	69.9	70.0	70.3	70.2	62.1	67.0	69.9	69.6	60.3	67.2	69.5	69.5	64.1	62.8	66.4	65.3	65.7
8	70.2	74.0	74.0	74.3	74.5	71.1	71.1	74.4	72.7	69.6	69.8	69.9	70.2	70.1	61.9	67.0	69.8	69.5	59.9	67.2	69.3	69.4	63.6	62.2	66.3	65.3	65.6
7	69.9	73.9	73.9	74.2	74.5	71.1	71.1	74.4	72.7	69.5	69.6	69.7	70.1	70.0	61.8	67.0	69.7	69.4	59.6	67.1	69.2	69.2	63.1	61.5	66.1	65.1	65.5
6	69.7	73.8	73.9	74.1	74.4	71.2	71.2	74.3	72.6	69.2	69.4	69.5	69.9	69.8	61.6	67.0	69.6	69.4	59.4	67.1	69.1	69.1	62.3	60.5	65.9	64.9	65.4
5	69.7	73.7	73.8	74.1	74.4	71.2	71.2	74.3	72.7	68.8	69.2	69.3	69.8	69.8	61.3	66.8	69.4	69.1	58.9	67.0	68.8	68.7	61.5	59.4	65.8	64.7	64.8
4	69.3	73.7	73.8	74.0	74.3	71.0	71.0	74.1	72.3	68.4	68.6	68.8	69.3	68.9	59.4	65.2	68.0	67.6	57.1	65.3	67.5	67.5	60.8	58.4	65.7	63.9	62.9
Max	70.3	74.0	74.0	74.3	74.5	71.2	71.2	74.4	72.7	69.7	69.9	70.0	70.6	70.5	64.2	67.1	70.3	70.2	63.6	67.3	70.3	70.5	67.3	66.8	67.9	65.5	65.8
Min	67.7	71.4	71.5	71.7	71.9	68.6	68.4	71.8	70.1	68.4	68.6	68.8	69.3	68.9	59.4	65.2	68.0	67.6	57.1	65.3	67.5	67.5	60.8	58.4	65.7	63.9	62.9

Noise sensitive receivers with exceedance (≥70.5 dB(A))

Remark: R111a, R113a, R115a, R214a, R216a, R218a are not used.

Floor	R206a	R206b	R206c	R206d	R207a	R207b	R207c	R207d	R208a	R208b	R209a	R209b	R210a	R210b	R211a	R211b	R211c	R212a	R212b	R212c	R212d	R213a	R213b	R214b	R214c	R215a	R215b
45	63.6	66.2	66.3	64.6	63.9	66.1	65.9	63.5	65.1	65.2	65.1	64.8	62.5	65.7	66.1	66.3	62.2	61.7	66.7	67.4	67.5	69.6	69.2	69.0	69.0	69.0	69.0
44	63.6	66.2	66.3	64.7	63.9	66.1	65.9	63.5	65.1	65.2	65.1	64.8	62.5	65.7	66.1	66.3	62.2	61.7	66.8	67.4	67.5	69.6	69.2	69.0	69.0	69.0	69.0
43	63.6	66.2	66.3	64.7	63.9	66.1	66.0	63.5	65.1	65.2	65.1	64.8	62.5	65.7	66.2	66.3	62.2	61.8	66.8	67.4	67.6	69.6	69.2	69.0	69.0	69.0	69.0
42	63.7	66.2	66.4	64.7	63.9	66.1	66.0	63.6	65.2	65.2	65.1	64.8	62.5	65.7	66.1	66.3	62.2	61.7	66.8	67.4	67.6	69.6	69.2	69.1	69.0	69.1	69.0
41	63.6	66.2	66.3	64.7	63.9	66.1	66.0	63.6	65.1	65.2	65.1	64.9	62.5	65.7	66.2	66.3	62.2	61.8	66.8	67.5	67.7	69.7	69.3	69.1	69.1	69.1	69.1
40	63.7	66.3	66.4	64.8	63.9	66.2	66.0	63.7	65.2	65.2	65.2	64.9	62.5	65.8	66.2	66.4	62.3	61.8	66.8	67.5	67.7	69.7	69.3	69.1	69.1	69.1	69.1
39	63.6	66.3	66.4	64.8	63.9	66.2	66.0	63.7	65.2	65.2	65.1	64.9	62.5	65.8	66.2	66.4	62.3	61.8	66.9	67.5	67.7	69.7	69.3	69.2	69.2	69.2	69.1
38	63.7	66.3	66.4	64.8	63.9	66.2	66.0	63.7	65.2	65.3	65.1	64.9	62.5	65.8	66.2	66.4	62.3	61.8	66.9	67.5	67.7	69.8	69.4	69.2	69.2	69.2	69.2
37	63.6	66.3	66.4	64.8	63.9	66.2	66.1	63.7	65.2	65.2	65.1	64.8	62.5	65.8	66.3	66.4	62.3	61.8	66.9	67.5	67.7	69.8	69.4	69.2	69.2	69.2	69.2
36	63.6	66.3	66.4	64.9	63.9	66.2	66.1	63.7	65.2	65.2	65.1	64.8	62.5	65.8	66.3	66.4	62.3	61.8	66.9	67.6	67.8	69.8	69.4	69.3	69.3	69.3	69.3
35	63.6	66.3	66.4	64.9	63.8	66.2	66.1	63.7	65.1	65.2	65.1	64.8	62.5	65.8	66.3	66.4	62.2	61.8	66.9	67.6	67.8	69.9	69.5	69.3	69.3	69.3	69.3
34	63.6	66.3	66.4	64.9	63.8	66.2	66.0	63.7	65.1	65.2	65.0	64.8	62.5	65.8	66.3	66.5	62.2	61.7	66.9	67.6	67.8	69.9	69.5	69.4	69.3	69.4	69.3
33	63.6	66.3	66.4	64.9	63.8	66.2	66.0	63.6	65.1	65.2	65.0	64.7	62.4	65.8	66.3	66.5	62.2	61.7	67.0	67.6	67.8	69.9	69.6	69.4	69.4	69.4	69.4
32	63.6	66.3	66.4	64.9	63.8	66.2	66.0	63.7	65.1	65.1	64.9	64.7	62.4	65.7	66.3	66.4	62.1	61.7	67.0	67.7	67.9	70.0	69.6	69.5	69.4	69.4	69.4
31	63.6	66.4	66.5	64.9	63.7	66.2	66.0	63.7	65.0	65.1	64.9	64.6	62.3	65.7	66.2	66.5	62.1	61.6	67.0	67.7	67.9	70.0	69.7	69.5	69.5	69.5	69.4
30	63.5	66.3	66.4	64.9	63.7	66.1	66.0	63.6	64.9	65.0	64.9	64.6	62.3	65.7	66.2	66.4	62.1	61.6	67.0	67.6	67.9	70.1	69.7	69.5	69.5	69.5	69.5
29	63.5	66.3	66.4	64.9	63.7	66.1	65.9	63.6	64.8	64.9	64.8	64.5	62.2	65.6	66.2	66.4	61.9	61.5	66.9	67.7	67.9	70.1	69.7	69.6	69.6	69.6	69.6
28	63.4	66.3	66.4	64.9	63.7	66.1	65.9	63.6	64.8	64.9	64.7	64.4	62.2	65.6	66.2	66.4	61.9	61.4	66.9	67.6	67.9	70.1	69.8	69.6	69.6	69.6	69.6
27	63.4	66.3	66.4	64.9	63.6	66.0	65.8	63.5	64.7	64.7	64.6	64.3	62.1	65.5	66.1	66.4	61.8	61.3	66.9	67.7	67.9	70.2	69.8	69.7	69.6	69.6	69.6
26	63.4	66.3	66.4	64.9	63.6	66.0	65.8	63.5	64.6	64.6	64.5	64.2	62.1	65.5	66.1	66.3	61.8	61.3	66.9	67.7	67.9	70.2	69.9	69.7	69.7	69.7	69.7
25	63.3	66.2	66.4	64.9	63.5	65.9	65.7	63.4	64.5	64.6	64.4	64.2	62.0	65.4	66.0	66.3	61.8	61.2	66.9	67.7	68.0	70.2	69.9	69.7	69.7	69.7	69.7
24	63.3	66.2	66.3	64.8	63.5	65.9	65.6	63.4	64.5	64.5	64.3	64.1	61.9	65.3	66.0	66.2	61.7	61.2	66.9	67.7	68.0	70.3	69.9	69.8	69.7	69.8	69.7
23	63.2	66.1	66.3	64.8	63.5	65.8	65.6	63.4	64.4	64.4	64.3	64.0	62.0	65.3	66.0	66.2	61.7	61.1	66.9	67.7	68.0	70.3	70.0	69.8	69.8	69.8	69.8
22																											
21	63.1	66.2	66.2	64.8	63.5	65.8	65.5	63.3	64.3	64.4	64.2	64.0	61.9	65.2	65.9	66.1	61.7	61.1	66.8	67.6	68.0	70.3	70.0	69.9	69.8	69.9	69.9
20	63.2	66.2	66.2	64.8	63.5	65.8	65.5	63.3	64.3	64.3	64.1	63.9	61.9	65.2	65.9	66.1	61.7	61.0	66.8	67.7	68.0	70.3	70.1	69.9	69.9	69.9	69.9
19	63.1	66.2	66.3	64.8	63.5	65.8	65.6	63.3	64.3	64.3	64.2	63.9	62.0	65.2	65.8	66.1	61.7	61.0	66.8	67.7	68.1	70.3	70.1	69.9	69.9	69.9	69.9
18	63.1	66.2	66.3	64.9	63.6	65.8	65.6	63.3	64.4	64.3	64.1	63.9	61.9	65.2	65.8	66.1	61.8	61.0	66.8	67.7	68.1	70.3	70.1	70.0	69.9	70.0	69.9
17	63.1	66.3	66.3	64.9	63.6	65.9	65.6	63.3	64.4	64.3	64.2	63.9	61.9	65.1	65.8	66.1	61.7	61.0	66.8	67.7	68.1	70.3	70.1	70.0	69.9	70.0	69.9
16	63.2	66.3	66.4	64.9	63.6	65.9	65.6	63.3	64.4	64.3	64.1	63.9	61.9	65.1	65.8	66.1	61.8	61.0	66.8	67.7	68.1	70.3	70.1	70.0	69.9	70.0	70.0
15	63.2	66.4	66.4	65.0	63.7	66.0	65.7	63.3	64.5	64.4	64.2	63.9	61.9	65.1	65.8	66.0	61.8	60.9	66.8	67.8	68.2	70.2	70.1	70.0	70.0	70.0	70.0
14	63.2	66.4	66.5	65.0	63.8	66.0	65.7	63.3	64.4	64.4	64.2	63.9	61.9	65.1	65.8	66.1	61.8	60.9	66.9	67.8	68.2	70.2	70.0	69.9	69.9	70.0	69.9
13	63.3	66.5	66.5	65.0	63.8	66.1	65.8	63.3	64.5	64.4	64.2	63.9	62.0	65.1	65.8	66.0	61.9	60.9	66.9	67.8	68.2	70.0	69.9	69.9	69.8	69.9	69.8
12	63.3	66.5	66.6	65.0	63.8	66.1	65.8	63.3	64.5	64.4	64.1	63.8	62.0	65.1	65.8	66.1	61.9	61.1	66.9	67.8	68.3	69.9	69.8	69.8	69.7	69.8	69.8
11	63.2	66.5	66.6	65.0	63.8	66.1	65.8	63.2	64.5	64.3	64.1	63.7	62.1	65.1	65.8	66.0	62.1	61.1	66.9	67.8	68.2	69.7	69.7	69.7	69.7	69.7	69.7
10	63.2	66.5	66.6	64.9	63.7	66.0	65.8	63.1	64.5	64.3	64.1	63.7	62.2	65.1	65.8	66.0	62.1	61.2	66.8	67.9	68.3	69.6	69.6	69.6	69.5	69.6	69.6
9	63.0	66.5	66.6	64.9	63.6	66.1	65.8	63.0	64.4	64.3	64.1	63.7	62.3	65.1	65.8	66.0	62.3	61.2	66.7	67.9	68.2	69.4	69.4	69.4	69.4	69.4	69.5
8	62.9	66.5	66.6	64.8	63.5	66.1	65.8	62.8	64.4	64.2	64.0	63.7	62.4	65.2	65.8	66.0	62.2	61.3	66.6	67.8	68.0	69.2	69.2	69.2	69.2	69.3	69.2
7	62.7	66.5	66.5	64.7	63.5	66.1	65.8	62.8	64.4	64.3	64.0	63.8	62.7	65.1	65.8	65.9	62.1	61.2	66.4	67.6	67.7	69.0	69.0	68.9	68.9	68.9	68.9
6	62.1	66.5	66.6	64.4	62.8	66.0	65.7	62.6	64.3	64.2	64.0	63.7	62.6	65.2	65.8	65.9	61.2	60.6	66.2	67.1	67.2	68.6	68.6	68.5	68.4	68.4	68.2
5	59.6	66.5	66.5	63.4	59.6	66.1	65.8	62.3	64.2	64.3	63.9	61.6	61.5	64.9	65.4	65.2	57.7	57.5	65.3	66.0	66.2	68.0	67.9	67.7	67.6	67.5	67.3
4	55.1	66.1	66.2	60.7	54.8	65.9	65.6	59.0	61.7	64.2	60.9	56.2	56.2	61.3	61.8	61.6	53.4	53.2	61.7	63.5	64.7	67.3	67.2	66.8	66.6	66.6	66.5
Max	63.7	66.5	66.6	65.0	63.9	66.2	66.1	63.7	65.2	65.3	65.2	64.9	62.7	65.8	66.3	66.5	62.3	61.8	67.0	67.9	68.3	70.3	70.1	70.0	70.0	70.0	70.0
Min	55.1	66.1	66.2	60.7	54.8	65.8	65.5	59.0	61.7	64.2	60.9	56.2	56.2	61.3	61.8	61.6	53.4	53.2	61.7	63.5	64.7	67.3	67.2	66.8	66.6	66.6	66.5

Noise sensitive receivers with exceedance (≥ 70.5 dB(A))

Remark: R111a, R113a, R115a, R214a, R216a, R218a are not used.

Floor	R216b	R216c	R217a	R217b	R218b	R218c	R219a	R219b	R219c	R220a	R220b	R220c	R221a	R221b	R222a	R222b	R222c	R222d	R223a	R223b	R223c	R223d	R224a	R224b
45	69.0	68.9	69.6	69.7	69.8	69.9	62.6	62.7	58.4	62.4	62.8	62.8	63.0	63.1	<40	63.7	64.0	63.6	60.9	64.7	64.7	62.2	60.6	58.6
44	69.0	69.0	69.7	69.8	69.8	69.9	62.6	62.7	58.4	62.4	62.8	62.8	63.0	63.2	<40	63.7	64.0	63.7	60.9	64.7	64.7	62.2	60.7	58.6
43	69.1	69.0	69.7	69.8	69.9	69.9	62.6	62.8	58.4	62.5	62.8	62.8	63.1	63.2	<40	63.8	64.0	63.7	61.0	64.8	64.7	62.3	60.7	58.6
42	69.1	69.0	69.7	69.8	69.9	70.0	62.7	62.8	58.5	62.5	62.9	62.9	63.1	63.2	<40	63.8	64.1	63.7	61.0	64.8	64.8	62.3	60.7	58.7
41	69.1	69.0	69.8	69.9	70.0	70.0	62.7	62.9	58.5	62.5	62.9	62.9	63.1	63.3	<40	63.9	64.1	63.8	61.1	64.8	64.8	62.3	60.8	58.7
40	69.2	69.1	69.8	69.9	70.0	70.0	62.8	62.9	58.5	62.6	63.0	63.0	63.2	63.3	<40	63.9	64.2	63.8	61.1	64.9	64.9	62.4	60.8	58.7
39	69.2	69.1	69.8	69.9	70.0	70.1	62.8	62.9	58.6	62.6	63.0	63.0	63.2	63.4	<40	64.0	64.2	63.9	61.1	64.9	64.9	62.4	60.9	58.7
38	69.2	69.2	69.9	70.0	70.1	70.1	62.8	63.0	58.6	62.7	63.1	63.0	63.3	63.4	<40	64.0	64.2	63.9	61.2	65.0	65.0	62.5	60.8	58.7
37	69.3	69.2	69.9	70.0	70.1	70.2	62.9	63.0	58.7	62.7	63.1	63.1	63.3	63.5	<40	64.0	64.3	64.0	61.2	65.0	65.0	62.5	60.9	58.8
36	69.3	69.2	69.9	70.0	70.1	70.2	62.9	63.0	58.7	62.7	63.1	63.1	63.4	63.5	<40	64.1	64.3	64.0	61.3	65.1	65.0	62.5	60.9	58.8
35	69.3	69.3	70.0	70.1	70.2	70.2	63.0	63.1	58.8	62.8	63.2	63.2	63.4	63.5	<40	64.1	64.4	64.0	61.3	65.1	65.1	62.6	60.9	58.8
34	69.4	69.3	70.0	70.1	70.2	70.3	63.0	63.1	58.8	62.8	63.2	63.2	63.4	63.6	<40	64.2	64.4	64.1	61.3	65.2	65.1	62.6	61.0	58.9
33	69.4	69.4	70.0	70.1	70.2	70.3	63.0	63.2	58.8	62.9	63.3	63.2	63.5	63.6	<40	64.2	64.5	64.1	61.4	65.2	65.2	62.7	61.0	58.9
32	69.5	69.4	70.1	70.2	70.3	70.3	63.1	63.2	58.9	62.9	63.3	63.3	63.5	63.7	<40	64.3	64.5	64.2	61.4	65.3	65.2	62.7	61.0	58.9
31	69.5	69.4	70.1	70.2	70.3	70.4	63.1	63.2	58.9	63.0	63.3	63.3	63.6	63.7	<40	64.3	64.6	64.2	61.5	65.3	65.2	62.7	61.0	58.9
30	69.6	69.5	70.1	70.3	70.3	70.4	63.1	63.3	58.9	63.0	63.4	63.4	63.6	63.8	<40	64.4	64.6	64.3	61.5	65.3	65.3	62.8	61.0	58.9
29	69.6	69.5	70.2	70.3	70.4	70.4	63.2	63.3	59.0	63.0	63.4	63.4	63.7	63.8	<40	64.4	64.6	64.3	61.6	65.4	65.3	62.8	61.0	58.9
28	69.7	69.6	70.2	70.3	70.4	70.5	63.2	63.4	59.0	63.1	63.5	63.4	63.7	63.8	<40	64.4	64.7	64.3	61.6	65.4	65.4	62.9	61.0	58.8
27	69.7	69.6	70.3	70.4	70.5	70.5	63.3	63.4	59.1	63.1	63.5	63.5	63.7	63.9	<40	64.5	64.7	64.4	61.6	65.4	65.4	62.9	61.0	58.8
26	69.7	69.7	70.3	70.4	70.5	70.6	63.3	63.4	59.0	63.1	63.5	63.5	63.8	63.9	<40	64.5	64.8	64.4	61.7	65.5	65.4	62.9	61.0	58.8
25	69.8	69.7	70.3	70.5	70.5	70.6	63.3	63.5	59.1	63.2	63.6	63.5	63.8	63.9	<40	64.5	64.8	64.5	61.7	65.5	65.4	62.9	61.0	58.8
24	69.8	69.7	70.4	70.5	70.6	70.6	63.4	63.5	59.1	63.2	63.6	63.6	63.8	64.0	<40	64.6	64.8	64.5	61.8	65.6	65.5	62.9	61.1	58.8
23	69.8	69.8	70.4	70.5	70.6	70.7	63.4	63.5	59.2	63.2	63.6	63.6	63.9	64.0	<40	64.6	64.9	64.5	61.8	65.6	65.5	63.0	61.0	58.7
22																								
21	69.9	69.9	70.5	70.6	70.7	70.8	63.5	63.6	59.2	63.3	63.7	63.7	63.9	64.1	<40	64.7	65.0	64.6	61.8	65.7	65.6	63.0	61.1	58.7
20	70.0	69.9	70.5	70.6	70.8	70.8	63.4	63.6	59.3	63.3	63.7	63.7	64.0	64.1	<40	64.7	65.0	64.6	61.9	65.7	65.6	63.1	61.1	58.7
19	70.0	69.9	70.6	70.7	70.8	70.9	63.5	63.6	59.3	63.3	63.8	63.7	64.0	64.1	<40	64.7	65.0	64.7	61.9	65.7	65.6	63.1	61.1	58.7
18	70.0	70.0	70.6	70.7	70.8	70.9	63.5	63.6	59.3	63.4	63.8	63.7	64.0	64.1	<40	64.8	65.1	64.7	61.9	65.7	65.6	63.1	61.1	58.7
17	70.0	70.0	70.6	70.7	70.9	70.9	63.5	63.7	59.3	63.4	63.8	63.8	64.0	64.2	<40	64.8	65.1	64.7	62.0	65.8	65.6	63.1	61.1	58.6
16	70.0	70.0	70.6	70.7	70.9	71.0	63.5	63.7	59.4	63.4	63.8	63.8	64.1	64.2	<40	64.8	65.1	64.7	62.0	65.8	65.6	63.1	61.1	58.7
15	70.0	70.0	70.6	70.8	70.9	71.0	63.6	63.7	59.4	63.5	63.9	63.8	64.1	64.2	<40	64.9	65.1	64.7	62.0	65.8	65.7	63.1	61.1	58.7
14	70.0	70.0	70.6	70.8	70.9	71.0	63.6	63.8	59.4	63.5	63.9	63.9	64.1	64.3	<40	64.9	65.1	64.8	62.0	65.8	65.7	63.1	61.1	58.7
13	70.0	70.0	70.6	70.8	70.9	71.0	63.6	63.8	59.5	63.5	63.9	63.9	64.1	64.3	<40	64.9	65.2	64.8	62.0	65.8	65.7	63.2	61.1	58.6
12	69.9	69.9	70.6	70.8	70.9	71.0	63.6	63.8	59.5	63.5	63.9	63.9	64.2	64.3	<40	64.9	65.2	64.8	62.0	65.9	65.7	63.2	61.1	58.6
11	69.9	69.9	70.6	70.7	70.9	71.0	63.6	63.8	59.5	63.5	64.0	63.9	64.2	64.3	<40	65.0	65.2	64.9	62.0	65.9	65.7	63.2	61.0	58.5
10	69.7	69.8	70.5	70.6	70.8	70.8	63.6	63.8	59.5	63.5	64.0	63.9	64.2	64.3	<40	64.9	65.2	64.8	62.0	65.8	65.7	63.1	60.9	58.5
9	69.6	69.6	70.4	70.5	70.6	70.7	63.5	63.8	59.5	63.5	63.9	63.9	64.1	64.3	<40	64.9	65.2	64.8	61.8	65.8	65.6	63.0	60.7	58.4
8	69.4	69.4	70.1	70.3	70.4	70.5	63.4	63.6	59.5	63.3	63.7	63.7	64.0	64.1	<40	64.8	65.1	64.6	61.3	65.6	65.4	62.5	60.0	58.3
7	68.9	68.9	69.6	69.8	69.9	70.0	63.2	63.3	59.4	63.0	63.4	63.3	63.6	63.8	<40	64.4	64.7	64.1	60.1	65.3	65.0	61.4	58.8	58.2
6	68.1	68.1	68.9	69.1	69.3	69.3	62.8	62.8	59.0	62.4	62.8	62.7	63.1	63.3	<40	64.0	64.2	63.5	57.7	64.6	64.3	60.5	57.6	57.8
5	67.4	67.4	68.2	68.4	68.6	68.7	61.8	62.0	58.5	61.6	62.2	62.2	62.6	62.8	<40	63.5	63.8	62.8	54.1	63.8	63.6	59.6	56.5	57.2
4	66.6	66.7	67.5	67.7	67.9	68.0	60.6	61.0	57.2	60.7	61.4	61.5	61.7	61.6	<40	62.6	62.6	60.7	51.4	61.5	61.4	56.9	55.0	56.1
Max	70.0	70.0	70.6	70.8	70.9	71.0	63.6	63.8	59.5	63.5	64.0	63.9	64.2	64.3	<40	65.0	65.2	64.9	62.0	65.9	65.7	63.2	61.1	58.9
Min	66.6	66.7	67.5	67.7	67.9	68.0	60.6	61.0	57.2	60.7	61.4	61.5	61.7	61.6	<40	62.6	62.6	60.7	51.4	61.5	61.4	56.9	55.0	56.1

Noise sensitive receivers with exceedance (≥70.5 dB(A))

Remark: R111a, R113a, R115a, R214a, R216a, R218a are not used.

Floor	R101m ax	R102m ax	R103m ax	R104m ax	R105m ax	R106m ax	R107m ax	R108m ax	R109m ax	R110m ax	R111m ax	R112m ax	R113m ax	R114m ax	R115m ax	R116m ax	R117m ax	R118m ax	R119m ax	R120m ax	R121m ax	R122m ax	R123m ax	R201m ax	R202m ax	R203m ax	R204m ax	R205m ax
45	71.6	70.9	70.7	56.3	58.9	58.0	57.9	59.2	59.9	70.3	70.4	70.9	71.1	71.3	72.4	72.1	71.3	71.0	70.6	71.1	71.5	71.9	71.8	70.1	69.9	69.9	70.2	65.4
44	71.7	70.9	70.7	56.3	58.9	57.8	57.9	59.2	59.9	70.3	70.4	70.9	71.1	71.4	72.5	72.1	71.3	71.1	70.6	71.2	71.6	72.0	71.8	70.1	70.0	69.9	70.2	65.5
43	71.8	71.0	70.8	56.3	58.9	57.8	57.9	59.3	59.9	70.3	70.5	71.0	71.2	71.5	72.5	72.2	71.4	71.1	70.7	71.2	71.6	72.0	71.9	70.1	70.0	69.9	70.3	65.5
42	71.8	71.0	70.8	56.2	58.9	57.9	57.9	59.2	59.9	70.4	70.5	71.0	71.3	71.5	72.6	72.3	71.5	71.2	70.7	71.3	71.7	72.1	72.0	70.1	70.0	70.0	70.3	65.5
41	71.9	71.0	70.9	56.1	58.8	57.8	57.9	59.3	60.0	70.4	70.6	71.1	71.3	71.6	72.6	72.3	71.5	71.3	70.8	71.4	71.8	72.2	72.0	70.2	70.0	70.0	70.3	65.5
40	71.9	71.1	70.9	56.1	58.8	57.8	57.9	59.3	60.0	70.5	70.6	71.1	71.4	71.6	72.7	72.4	71.6	71.3	70.9	71.4	71.8	72.2	72.1	70.2	70.0	70.0	70.3	65.5
39	72.0	71.1	70.9	56.0	58.8	57.8	58.0	59.3	60.0	70.5	70.7	71.2	71.4	71.7	72.8	72.5	71.7	71.4	71.0	71.5	71.9	72.3	72.2	70.2	70.1	70.0	70.4	65.5
38	72.0	71.2	71.0	55.9	58.7	57.8	57.9	59.3	60.0	70.6	70.7	71.3	71.5	71.8	72.9	72.6	71.8	71.5	71.0	71.6	72.0	72.4	72.2	70.2	70.1	70.0	70.4	65.6
37	72.1	71.3	71.0	55.7	58.6	57.7	58.0	59.3	60.0	70.6	70.8	71.3	71.6	71.8	73.0	72.7	71.8	71.6	71.1	71.6	72.1	72.4	72.3	70.3	70.1	70.1	70.4	65.6
36	72.1	71.3	71.1	55.6	58.6	57.6	57.9	59.3	60.0	70.7	70.8	71.4	71.7	71.9	73.0	72.7	71.9	71.6	71.1	71.7	72.1	72.5	72.4	70.3	70.1	70.0	70.4	65.5
35	72.2	71.4	71.2	55.4	58.5	57.6	57.9	59.3	60.0	70.7	70.9	71.5	71.7	72.0	73.1	72.8	72.0	71.7	71.2	71.8	72.2	72.6	72.4	70.3	70.1	70.1	70.4	65.6
34	72.3	71.4	71.2	55.2	58.5	57.5	57.8	59.3	60.0	70.8	70.9	71.5	71.8	72.0	73.2	72.9	72.0	71.7	71.3	71.8	72.3	72.7	72.5	70.3	70.2	70.1	70.4	65.5
33	72.3	71.4	71.2	55.0	58.4	57.5	57.8	59.3	60.0	70.8	71.0	71.6	71.9	72.1	73.3	73.0	72.1	71.8	71.3	71.9	72.3	72.7	72.6	70.4	70.2	70.1	70.4	65.6
32	72.4	71.5	71.3	54.9	58.3	57.5	57.8	59.2	60.1	70.9	71.1	71.7	72.0	72.2	73.4	73.1	72.2	71.9	71.4	72.0	72.4	72.8	72.7	70.4	70.2	70.1	70.5	65.6
31	72.4	71.6	71.3	54.8	58.3	57.4	57.7	59.3	60.1	70.9	71.1	71.7	72.0	72.3	73.5	73.2	72.3	72.0	71.5	72.1	72.5	72.9	72.8	70.4	70.2	70.2	70.5	65.6
30	72.5	71.6	71.4	54.5	58.2	57.3	57.7	59.2	60.1	70.9	71.1	71.8	72.1	72.4	73.5	73.2	72.4	72.1	71.6	72.1	72.5	73.0	72.8	70.4	70.2	70.2	70.5	65.6
29	72.6	71.7	71.4	54.4	58.1	57.2	57.6	59.2	60.0	71.0	71.2	71.9	72.2	72.4	73.6	73.3	72.5	72.2	71.6	72.2	72.6	73.0	72.9	70.5	70.3	70.2	70.5	65.6
28	72.6	71.7	71.5	54.2	58.0	57.1	57.4	59.2	60.1	71.0	71.2	71.9	72.2	72.5	73.7	73.4	72.5	72.2	71.7	72.3	72.7	73.1	72.9	70.5	70.3	70.2	70.5	65.6
27	72.7	71.8	71.5	54.1	57.9	57.0	57.4	59.1	60.0	71.1	71.3	72.0	72.3	72.6	73.8	73.5	72.6	72.3	71.8	72.3	72.8	73.2	73.0	70.5	70.3	70.2	70.5	65.6
26	72.7	71.8	71.5	54.0	57.7	56.9	57.2	59.1	60.1	71.1	71.3	72.0	72.4	72.7	73.9	73.6	72.7	72.4	71.8	72.4	72.8	73.3	73.1	70.5	70.3	70.2	70.5	65.6
25	72.8	71.9	71.6	53.8	57.6	56.6	57.0	59.0	60.0	71.2	71.4	72.1	72.5	72.8	74.0	73.7	72.8	72.5	71.9	72.5	72.9	73.3	73.2	70.5	70.3	70.2	70.5	65.6
24	72.9	71.9	71.6	53.6	57.4	56.4	56.9	58.9	60.0	71.2	71.5	72.2	72.6	72.9	74.1	73.8	72.9	72.5	72.0	72.6	73.0	73.4	73.3	70.5	70.3	70.2	70.5	65.6
23	72.9	71.9	71.7	53.4	57.1	56.1	56.6	58.9	60.0	71.3	71.5	72.3	72.6	72.9	74.2	73.9	73.0	72.6	72.1	72.6	73.0	73.5	73.4	70.5	70.3	70.2	70.5	65.5
22																												
21	73.1	72.1	71.8	52.6	56.3	55.5	56.3	58.8	59.9	71.4	71.7	72.4	72.8	73.2	74.4	74.2	73.2	72.8	72.3	72.8	73.2	73.7	73.5	70.6	70.3	70.2	70.4	65.5
20	73.1	72.1	71.8	52.1	56.0	55.4	56.2	58.7	59.9	71.5	71.7	72.5	72.9	73.3	74.6	74.3	73.3	72.9	72.3	72.9	73.3	73.7	73.6	70.6	70.3	70.2	70.3	65.5
19	73.2	72.2	71.8	51.7	55.8	55.1	55.9	58.7	59.9	71.5	71.8	72.6	73.0	73.4	74.7	74.4	73.4	73.0	72.4	73.0	73.4	73.8	73.7	70.6	70.3	70.2	70.3	65.5
18	73.2	72.2	71.9	51.5	55.4	54.8	55.8	58.7	59.9	71.6	71.8	72.7	73.1	73.4	74.8	74.5	73.5	73.1	72.5	73.1	73.4	73.9	73.8	70.6	70.3	70.1	70.2	65.6
17	73.3	72.2	71.9	50.9	54.9	54.6	55.7	58.5	59.9	71.7	71.9	72.8	73.2	73.5	74.9	74.6	73.5	73.1	72.5	73.1	73.5	73.9	73.8	70.6	70.3	70.1	70.2	65.6
16	73.4	72.3	71.9	50.7	54.5	54.4	55.4	58.5	59.9	71.7	71.9	72.8	73.2	73.6	75.0	74.7	73.6	73.2	72.6	73.2	73.6	74.0	73.9	70.5	70.3	70.1	70.1	65.7
15	73.4	72.3	72.0	50.5	54.2	54.1	55.4	58.5	59.8	71.8	72.0	72.9	73.3	73.7	75.1	74.8	73.7	73.3	72.7	73.2	73.7	74.1	74.0	70.5	70.2	70.1	70.1	65.7
14	73.5	72.4	72.0	50.2	53.8	54.0	55.2	58.4	59.7	71.8	72.0	72.9	73.4	73.8	75.2	74.9	73.8	73.4	72.7	73.3	73.7	74.2	74.0	70.5	70.2	70.0	70.1	65.7
13	73.5	72.4	72.0	50.1	53.5	53.9	55.1	58.4	59.8	71.8	72.1	73.0	73.5	73.8	75.3	75.1	73.9	73.5	72.8	73.4	73.8	74.2	74.1	70.5	70.1	70.0	70.0	65.8
12	73.6	72.4	72.1	50.0	53.3	53.7	54.9	58.3	59.7	71.8	72.1	73.0	73.5	73.9	75.4	75.2	74.0	73.5	72.9	73.4	73.8	74.3	74.2	70.5	70.1	69.9	69.9	65.8
11	73.6	72.5	72.1	49.9	53.0	53.5	54.7	58.2	59.6	71.7	72.0	73.0	73.6	74.0	75.5	75.3	74.1	73.6	72.9	73.5	73.9	74.3	74.2	70.4	70.0	69.8	69.8	65.8
10	73.7	72.5	72.1	49.8	52.8	53.3	54.5	58.0	59.5	71.6	71.9	73.0	73.6	74.0	75.5	75.4	74.2	73.7	73.0	73.6	74.0	74.4	74.3	70.4	70.0	69.7	69.6	65.8
9	73.7	72.6	72.1	49.7	52.3	53.0	54.1	58.0	59.4	71.4	71.7	72.9	73.5	74.0	75.6	75.5	74.3	73.8	73.0	73.6	74.0	74.5	74.3	70.3	69.9	69.6	69.5	65.7
8	73.8	72.6	72.2	49.7	51.7	52.6	53.7	57.7	59.2	71.2	71.5	72.8	73.5	74.0	75.6	75.6	74.3	73.9	73.0	73.6	74.0	74.5	74.4	70.2	69.8	69.5	69.4	65.6
7	73.8	72.6	72.2	49.7	50.5	52.1	52.8	57.1	58.8	70.9	71.2	72.6	73.4	73.9	75.6	75.7	74.4	73.9	72.9	73.4	73.9	74.5	74.4	70.1	69.7	69.4	69.2	65.5
6	73.9	72.6	72.1	49.6	49.6	51.5	51.6	56.4	58.4	70.5	70.9	72.3	73.2	73.9	75.6	75.8	74.4	73.7	72.7	73.3	73.9	74.4	74.3	69.9	69.6	69.4	69.1	65.4
5	73.9	72.4	71.6	49.3	48.9	50.1	50.3	55.8	57.9	70.0	70.5	71.8	72.7	73.6	75.7	75.9	74.1	73.3	72.7	73.3	73.8	74.4	74.3	69.8	69.4	69.1	68.8	64.8
4	73.8	70.8	70.3	47.7	47.9	47.4	47.8	54.7	56.9	69.3	69.9	71.0	71.7	72.3	75.4	75.9	73.0	72.9	72.6	73.2	73.8	74.3	74.1	69.3	68.0	67.6	67.5	63.9
Max	73.9	72.6	72.2	56.3	58.9	58.0	58.0	59.3	60.1	71.8	72.1	73.0	73.6	74.0	75.7	75.9	74.4	73.9	73.0	73.6	74.0	74.5	74.4	70.6	70.3	70.2	70.5	65.8
Min	71.6	70.8	70.3	47.7	47.9	47.4	47.8	54.7	56.9	69.3	69.9	70.9	71.1	71.3	72.4	72.1	71.3	71.0	70.6	71.1	71.5	71.9	71.8	69.3	68.0	67.6	67.5	63.9

# Total Flats	1927
Exceedance	749
Compliance Rate	61.1%

Noise sensitive receivers with exceedance (≥70.5 dB(A))

Remark: R111a, R113a, R115a, R214a, R216a, R218a are not used.

Floor	R206m ax	R207m ax	R208m ax	R209m ax	R210m ax	R211m ax	R212m ax	R213m ax	R214m ax	R215m ax	R216m ax	R217m ax	R218m ax	R219m ax	R220m ax	R221m ax	R222m ax	R223m ax	R224m ax
45	66.3	66.1	65.2	65.1	65.7	66.3	67.5	69.6	69.0	69.0	69.0	69.7	69.9	62.7	62.8	63.1	64.0	64.7	60.6
44	66.3	66.1	65.2	65.1	65.7	66.3	67.5	69.6	69.0	69.0	69.0	69.8	69.9	62.7	62.8	63.2	64.0	64.7	60.7
43	66.3	66.1	65.2	65.1	65.7	66.3	67.6	69.6	69.0	69.0	69.1	69.8	69.9	62.8	62.8	63.2	64.0	64.8	60.7
42	66.4	66.1	65.2	65.1	65.7	66.3	67.6	69.6	69.1	69.1	69.1	69.8	70.0	62.8	62.9	63.2	64.1	64.8	60.7
41	66.3	66.1	65.2	65.1	65.7	66.3	67.7	69.7	69.1	69.1	69.1	69.9	70.0	62.9	62.9	63.3	64.1	64.8	60.8
40	66.4	66.2	65.2	65.2	65.8	66.4	67.7	69.7	69.1	69.1	69.2	69.9	70.0	62.9	63.0	63.3	64.2	64.9	60.8
39	66.4	66.2	65.2	65.1	65.8	66.4	67.7	69.7	69.2	69.2	69.2	69.9	70.1	62.9	63.0	63.4	64.2	64.9	60.9
38	66.4	66.2	65.3	65.1	65.8	66.4	67.7	69.8	69.2	69.2	69.2	70.0	70.1	63.0	63.1	63.4	64.2	65.0	60.8
37	66.4	66.2	65.2	65.1	65.8	66.4	67.7	69.8	69.2	69.2	69.3	70.0	70.2	63.0	63.1	63.5	64.3	65.0	60.9
36	66.4	66.2	65.2	65.1	65.8	66.4	67.8	69.8	69.3	69.3	69.3	70.0	70.2	63.0	63.1	63.5	64.3	65.1	60.9
35	66.4	66.2	65.2	65.1	65.8	66.4	67.8	69.9	69.3	69.3	69.3	70.1	70.2	63.1	63.2	63.5	64.4	65.1	60.9
34	66.4	66.2	65.2	65.0	65.8	66.5	67.8	69.9	69.4	69.4	69.4	70.1	70.3	63.1	63.2	63.6	64.4	65.2	61.0
33	66.4	66.2	65.2	65.0	65.8	66.5	67.8	69.9	69.4	69.4	69.4	70.1	70.3	63.2	63.3	63.6	64.5	65.2	61.0
32	66.4	66.2	65.1	64.9	65.7	66.4	67.9	70.0	69.5	69.4	69.5	70.2	70.3	63.2	63.3	63.7	64.5	65.3	61.0
31	66.5	66.2	65.1	64.9	65.7	66.5	67.9	70.0	69.5	69.5	69.5	70.2	70.4	63.2	63.3	63.7	64.6	65.3	61.0
30	66.4	66.1	65.0	64.9	65.7	66.4	67.9	70.1	69.5	69.5	69.6	70.3	70.4	63.3	63.4	63.8	64.6	65.3	61.0
29	66.4	66.1	64.9	64.8	65.6	66.4	67.9	70.1	69.6	69.6	69.6	70.3	70.4	63.3	63.4	63.8	64.6	65.4	61.0
28	66.4	66.1	64.9	64.7	65.6	66.4	67.9	70.1	69.6	69.6	69.7	70.3	70.5	63.4	63.5	63.8	64.7	65.4	61.0
27	66.4	66.0	64.7	64.6	65.5	66.4	67.9	70.2	69.7	69.6	69.7	70.4	70.5	63.4	63.5	63.9	64.7	65.4	61.0
26	66.4	66.0	64.6	64.5	65.5	66.3	67.9	70.2	69.7	69.7	69.7	70.4	70.6	63.4	63.5	63.9	64.8	65.5	61.0
25	66.4	65.9	64.6	64.4	65.4	66.3	68.0	70.2	69.7	69.7	69.8	70.5	70.6	63.5	63.6	63.9	64.8	65.5	61.0
24	66.3	65.9	64.5	64.3	65.3	66.2	68.0	70.3	69.8	69.8	69.8	70.5	70.6	63.5	63.6	64.0	64.8	65.6	61.1
23	66.3	65.8	64.4	64.3	65.3	66.2	68.0	70.3	69.8	69.8	69.8	70.5	70.7	63.5	63.6	64.0	64.9	65.6	61.0
22																			
21	66.2	65.8	64.4	64.2	65.2	66.1	68.0	70.3	69.9	69.9	69.9	70.6	70.8	63.6	63.7	64.1	65.0	65.7	61.1
20	66.2	65.8	64.3	64.1	65.2	66.1	68.0	70.3	69.9	69.9	70.0	70.6	70.8	63.6	63.7	64.1	65.0	65.7	61.1
19	66.3	65.8	64.3	64.2	65.2	66.1	68.1	70.3	69.9	69.9	70.0	70.7	70.9	63.6	63.8	64.1	65.0	65.7	61.1
18	66.3	65.8	64.4	64.1	65.2	66.1	68.1	70.3	70.0	70.0	70.0	70.7	70.9	63.6	63.8	64.1	65.1	65.7	61.1
17	66.3	65.9	64.4	64.2	65.1	66.1	68.1	70.3	70.0	70.0	70.0	70.7	70.9	63.7	63.8	64.2	65.1	65.8	61.1
16	66.4	65.9	64.4	64.1	65.1	66.1	68.1	70.3	70.0	70.0	70.0	70.7	71.0	63.7	63.8	64.2	65.1	65.8	61.1
15	66.4	66.0	64.5	64.2	65.1	66.0	68.2	70.2	70.0	70.0	70.0	70.8	71.0	63.7	63.9	64.2	65.1	65.8	61.1
14	66.5	66.0	64.4	64.2	65.1	66.1	68.2	70.2	69.9	70.0	70.0	70.8	71.0	63.8	63.9	64.3	65.1	65.8	61.1
13	66.5	66.1	64.5	64.2	65.1	66.0	68.2	70.0	69.9	69.9	70.0	70.8	71.0	63.8	63.9	64.3	65.2	65.8	61.1
12	66.6	66.1	64.5	64.1	65.1	66.1	68.3	69.9	69.8	69.8	69.9	70.8	71.0	63.8	63.9	64.3	65.2	65.9	61.1
11	66.6	66.1	64.5	64.1	65.1	66.0	68.2	69.7	69.7	69.7	69.9	70.7	71.0	63.8	64.0	64.3	65.2	65.9	61.0
10	66.6	66.0	64.5	64.1	65.1	66.0	68.3	69.6	69.6	69.6	69.8	70.6	70.8	63.8	64.0	64.3	65.2	65.8	60.9
9	66.6	66.1	64.4	64.1	65.1	66.0	68.2	69.4	69.4	69.5	69.6	70.5	70.7	63.8	63.9	64.3	65.2	65.8	60.7
8	66.6	66.1	64.4	64.0	65.2	66.0	68.0	69.2	69.2	69.3	69.4	70.3	70.5	63.6	63.7	64.1	65.1	65.6	60.0
7	66.5	66.1	64.4	64.0	65.1	65.9	67.7	69.0	68.9	68.9	68.9	69.8	70.0	63.3	63.4	63.8	64.7	65.3	58.8
6	66.6	66.0	64.3	64.0	65.2	65.9	67.2	68.6	68.5	68.4	68.1	69.1	69.3	62.8	62.8	63.3	64.2	64.6	57.8
5	66.5	66.1	64.3	63.9	64.9	65.4	66.2	68.0	67.7	67.5	67.4	68.4	68.7	62.0	62.2	62.8	63.8	63.8	57.2
4	66.2	65.9	64.2	60.9	61.3	61.8	64.7	67.3	66.8	66.6	66.7	67.7	68.0	61.0	61.5	61.7	62.6	61.5	56.1
Max	66.6	66.2	65.3	65.2	65.8	66.5	68.3	70.3	70.0	70.0	70.0	70.8	71.0	63.8	64.0	64.3	65.2	65.9	61.1
Min	66.2	65.8	64.2	60.9	61.3	61.8	64.7	67.3	66.8	66.6	66.7	67.7	68.0	61.0	61.5	61.7	62.6	61.5	56.1

Noise sensitive receivers with exceedance (≥70.5 dB(A))

Remark: R111a, R113a, R115a, R214a, R216a, R218a are not used.

Appendix 4.4

Predicted Traffic Noise Levels for Residential Blocks (Basecase Scenario B)

Floor	R101a	R101b	R101c	R102a	R102b	R103a	R103b	R103c	R103d	R103e	R103f	R104a	R104b	R104c	R105a	R105b	R105c	R105d	R106a	R106b	R106c	R106d	R107a	R107b	R108a	R108b	R108c
45	72.6	72.7	64.3	71.9	63.7	68.8	71.7	71.6	64.2	64.3	64.3	52.5	56.4	43.4	54.3	59.0	59.2	<40	54.2	58.0	58.1	<40	57.6	58.0	58.6	58.9	58.8
44	72.7	72.7	64.3	72.0	63.7	68.9	71.7	71.7	64.1	64.2	64.3	52.5	56.3	43.3	54.2	59.0	59.2	<40	54.1	58.0	57.9	<40	57.6	58.0	58.6	59.0	58.9
43	72.7	72.7	64.4	72.0	63.8	69.0	71.8	71.7	64.1	64.3	64.3	52.5	56.3	43.1	54.2	59.0	59.1	<40	54.0	57.9	57.9	<40	57.6	58.0	58.6	59.0	58.9
42	72.8	72.8	64.4	72.1	63.8	69.0	71.8	71.8	64.1	64.3	64.3	52.5	56.3	43.0	54.1	58.9	59.1	<40	54.0	57.9	58.0	<40	57.6	58.0	58.6	58.9	58.9
41	72.9	72.9	64.5	72.1	63.9	69.1	71.9	71.8	64.1	64.3	64.3	52.5	56.2	42.9	54.0	58.9	59.1	<40	53.8	57.8	57.9	<40	57.5	58.0	58.6	59.0	58.9
40	72.9	72.9	64.5	72.2	63.9	69.1	71.9	71.9	64.1	64.3	64.3	52.5	56.2	42.7	53.9	59.0	59.0	<40	53.7	57.9	57.9	<40	57.5	58.0	58.6	59.0	58.9
39	73.0	73.0	64.5	72.2	63.9	69.2	72.0	71.9	64.1	64.3	64.4	52.5	56.1	42.5	53.7	58.9	59.1	<40	53.6	57.8	57.9	<40	57.5	58.0	58.7	59.0	58.9
38	73.0	73.0	64.5	72.3	64.0	69.3	72.0	71.9	64.1	64.3	64.4	52.4	56.0	42.4	53.5	58.8	59.0	<40	53.5	57.7	57.9	<40	57.4	57.9	58.6	59.0	58.9
37	73.1	73.1	64.6	72.3	64.0	69.3	72.1	72.0	64.1	64.3	64.3	52.4	55.9	42.1	53.3	58.7	58.9	<40	53.3	57.8	57.8	<40	57.5	58.0	58.6	59.0	58.9
36	73.2	73.2	64.6	72.4	64.0	69.4	72.1	72.0	64.1	64.3	64.4	52.3	55.7	41.9	53.0	58.6	58.9	<40	53.1	57.7	57.8	<40	57.4	57.9	58.6	58.9	58.9
35	73.2	73.2	64.7	72.4	64.0	69.4	72.2	72.1	64.1	64.3	64.3	52.3	55.5	41.5	52.7	58.5	58.8	<40	53.0	57.6	57.7	<40	57.3	57.9	58.6	59.0	58.9
34	73.3	73.3	64.7	72.5	64.1	69.5	72.2	72.1	64.1	64.3	64.4	52.3	55.3	41.2	52.4	58.4	58.8	<40	52.8	57.6	57.7	<40	57.3	57.8	58.6	59.0	58.9
33	73.4	73.4	64.7	72.5	64.1	69.6	72.3	72.2	64.1	64.3	64.3	52.2	55.2	40.8	52.3	58.4	58.7	<40	52.7	57.5	57.6	<40	57.3	57.8	58.5	58.9	58.9
32	73.4	73.4	64.8	72.6	64.1	69.6	72.3	72.2	64.1	64.3	64.3	52.2	55.1	40.7	52.1	58.4	58.6	<40	52.5	57.5	57.6	<40	57.2	57.8	58.5	58.9	58.8
31	73.5	73.5	64.8	72.7	64.2	69.7	72.4	72.3	64.1	64.2	64.3	52.1	55.0	40.2	51.8	58.2	58.6	<40	52.4	57.4	57.5	<40	57.2	57.7	58.5	58.9	58.9
30	73.6	73.5	64.8	72.7	64.2	69.8	72.4	72.3	64.0	64.2	64.2	51.9	54.8	<40	51.5	58.1	58.5	<40	52.3	57.3	57.5	<40	57.0	57.7	58.4	58.8	58.8
29	73.6	73.6	64.8	72.8	64.2	69.8	72.5	72.4	64.1	64.2	64.2	51.8	54.6	<40	51.3	58.1	58.4	<40	52.3	57.2	57.3	<40	56.9	57.6	58.3	58.8	58.8
28	73.7	73.7	64.9	72.8	64.2	69.9	72.5	72.4	64.0	64.2	64.2	51.8	54.5	<40	51.1	57.9	58.3	<40	52.1	57.1	57.2	<40	56.8	57.4	58.3	58.7	58.7
27	73.8	73.7	64.9	72.9	64.2	69.9	72.6	72.5	64.0	64.2	64.2	51.7	54.4	<40	51.0	57.8	58.2	<40	52.1	56.9	57.1	<40	56.6	57.3	58.2	58.6	58.6
26	73.8	73.8	64.9	73.0	64.2	70.0	72.6	72.5	64.0	64.2	64.1	51.6	54.3	<40	50.8	57.7	58.0	<40	51.9	56.7	57.0	<40	56.4	57.2	58.1	58.5	58.6
25	73.9	73.9	64.9	73.0	64.2	70.1	72.7	72.6	63.9	64.2	64.1	51.5	54.2	<40	50.7	57.5	58.0	<40	51.9	56.6	56.7	<40	56.2	57.0	57.9	58.4	58.5
24	74.0	73.9	64.9	73.1	64.3	70.1	72.7	72.6	63.9	64.2	64.1	51.2	54.0	<40	50.5	57.3	57.8	40.1	51.9	56.3	56.5	<40	55.9	56.8	57.7	58.2	58.4
23	74.0	74.0	65.0	73.1	64.2	70.2	72.8	72.7	63.9	64.1	64.0	50.9	53.8	<40	50.4	57.1	57.5	40.2	51.8	55.9	56.2	<40	55.6	56.5	57.5	58.1	58.3
22																											
21	74.2	74.2	65.0	73.3	64.2	70.4	72.9	72.8	63.8	64.0	63.8	49.5	53.0	<40	50.1	56.2	56.7	40.1	51.6	55.2	55.6	<40	55.1	56.1	57.3	57.9	58.2
20	74.3	74.2	65.0	73.3	64.2	70.4	72.9	72.8	63.7	64.0	63.7	48.3	52.5	<40	50.1	55.9	56.5	<40	51.6	55.0	55.4	<40	54.9	56.0	57.2	57.8	58.1
19	74.4	74.3	65.1	73.4	64.2	70.5	73.0	72.9	63.6	63.9	63.6	47.8	52.0	<40	50.0	55.6	56.3	<40	51.5	54.8	55.2	<40	54.5	55.7	57.0	57.6	58.1
18	74.4	74.4	65.1	73.4	64.3	70.5	73.0	72.9	63.6	63.9	63.6	46.5	51.8	<40	49.8	55.1	55.9	<40	51.5	54.4	54.8	<40	54.2	55.5	56.9	57.6	58.0
17	74.5	74.4	65.1	73.5	64.3	70.6	73.1	73.0	63.6	63.9	63.5	45.6	51.2	<40	49.8	54.7	55.4	<40	51.5	54.1	54.6	<40	54.0	55.4	56.8	57.4	57.9
16	74.6	74.5	65.2	73.5	64.3	70.6	73.1	73.0	63.6	63.9	63.5	44.8	51.0	<40	49.8	54.3	55.0	<40	51.4	53.8	54.4	<40	53.7	55.2	56.6	57.4	57.9
15	74.6	74.6	65.2	73.6	64.3	70.7	73.2	73.0	63.6	63.8	63.5	44.2	50.8	<40	49.7	54.0	54.7	<40	51.3	53.5	54.1	<40	53.5	55.1	56.5	57.3	57.8
14	74.7	74.6	65.2	73.6	64.3	70.7	73.2	73.1	63.6	63.9	63.4	43.5	50.5	<40	49.6	53.7	54.3	<40	51.3	53.4	54.0	<40	53.4	54.9	56.4	57.2	57.7
13	74.8	74.7	65.3	73.7	64.3	70.8	73.3	73.1	63.5	63.8	63.4	42.9	50.4	<40	49.6	53.5	54.0	<40	51.3	53.2	53.9	<40	53.2	54.8	56.3	57.1	57.7
12	74.8	74.8	65.3	73.7	64.3	70.9	73.3	73.2	63.6	63.8	63.3	42.4	50.4	<40	49.6	53.3	53.8	<40	51.3	52.9	53.7	<40	53.0	54.6	56.2	57.0	57.6
11	74.9	74.8	65.3	73.8	64.4	70.9	73.3	73.2	63.5	63.8	63.4	41.9	50.3	<40	49.6	53.1	53.6	<40	51.1	52.7	53.5	<40	52.8	54.3	56.0	56.8	57.5
10	75.0	74.9	65.4	73.8	64.4	70.9	73.4	73.2	63.5	63.8	63.3	41.5	50.1	<40	49.6	52.8	53.3	<40	50.9	52.4	53.3	<40	52.6	54.2	55.8	56.7	57.3
9	75.0	74.9	65.4	73.9	64.4	71.0	73.4	73.2	63.5	63.8	63.3	41.0	50.0	<40	49.5	52.5	52.9	<40	50.4	52.1	53.0	<40	52.3	53.8	55.6	56.5	57.3
8	75.1	75.0	65.4	73.9	64.4	71.0	73.4	73.3	63.5	63.8	63.3	40.7	50.0	<40	49.4	52.0	52.3	<40	49.2	51.3	52.6	<40	52.0	53.4	55.3	56.3	57.0
7	75.1	75.0	65.4	73.9	64.4	71.1	73.4	73.2	63.5	63.7	63.2	40.3	50.0	<40	49.3	50.8	51.1	<40	47.9	50.5	52.1	<40	51.5	52.5	54.6	55.7	56.4
6	75.2	75.0	65.4	73.9	64.3	71.1	73.3	73.0	63.4	63.7	63.1	<40	49.9	<40	49.2	49.8	50.3	<40	46.6	49.4	51.4	<40	50.6	51.4	53.3	54.7	55.7
5	75.2	75.1	65.4	73.7	64.3	71.0	72.7	72.4	63.3	63.5	62.9	<40	49.6	<40	48.7	49.1	49.6	<40	45.6	48.4	49.9	<40	48.9	50.1	51.5	53.8	55.1
4	75.1	74.7	64.6	71.9	63.2	69.4	71.2	71.1	62.1	62.2	61.1	<40	48.0	<40	45.7	48.2	48.6	<40	44.2	46.9	47.3	<40	46.5	47.7	49.3	51.3	54.0
Max	75.2	75.1	65.4	73.9	64.4	71.1	73.4	73.3	64.2	64.3	64.4	52.5	56.4	43.4	54.3	59.0	59.2	40.2	54.2	58.0	58.1	<40	57.6	58.0	58.7	59.0	58.9
Min	72.6	72.7	64.3	71.9	63.2	68.8	71.2	71.1	62.1	62.2	61.1	<40	48.0	<40	45.7	48.2	48.6	<40	44.2	46.9	47.3	<40	46.5	47.7	49.3	51.3	54.0

# Total Flats	1927
Exceedance	869
Compliance Rate	54.9%

Noise sensitive receivers with exceedance (≥70.5 dB(A))

Remark: R111a, R113a, R115a, R214a, R216a, R218a are not used.

Floor	R109a	R109b	R109c	R110a	R110b	R111b	R111c	R112a	R112b	R113b	R113c	R114a	R114b	R115b	R115c	R116a	R116b	R116c	R117a	R117b	R118a	R118b	R119a	R119b	R120a	R120b	R120c
45	56.9	59.4	59.4	70.0	70.1	70.2	70.3	70.7	70.8	71.0	71.1	71.3	71.4	71.9	72.6	72.9	72.9	65.8	70.3	72.1	71.9	64.9	70.6	71.5	71.7	72.0	69.4
44	57.0	59.4	59.4	70.1	70.2	70.3	70.3	70.8	70.8	71.1	71.2	71.3	71.4	71.9	72.7	73.0	73.0	65.8	70.4	72.2	71.9	64.9	70.7	71.6	71.8	72.1	69.5
43	57.0	59.4	59.4	70.1	70.2	70.3	70.4	70.8	70.9	71.1	71.3	71.4	71.5	72.0	72.7	73.0	73.0	65.9	70.4	72.3	72.0	65.0	70.7	71.6	71.8	72.2	69.5
42	57.0	59.4	59.4	70.2	70.3	70.4	70.4	70.9	71.0	71.2	71.3	71.5	71.6	72.1	72.8	73.1	73.1	65.9	70.5	72.3	72.1	65.1	70.8	71.7	71.9	72.2	69.5
41	57.0	59.4	59.5	70.2	70.3	70.4	70.5	71.0	71.0	71.3	71.4	71.5	71.6	72.1	72.9	73.2	73.1	66.0	70.6	72.4	72.2	65.1	70.9	71.8	71.9	72.3	69.6
40	57.0	59.5	59.5	70.3	70.4	70.5	70.6	71.0	71.1	71.4	71.4	71.6	71.7	72.2	72.9	73.3	73.2	66.1	70.7	72.4	72.2	65.2	70.9	71.8	72.0	72.3	69.7
39	57.0	59.4	59.5	70.3	70.4	70.6	70.6	71.1	71.2	71.4	71.5	71.6	71.8	72.3	73.0	73.3	73.2	66.1	70.7	72.5	72.3	65.2	71.0	71.9	72.1	72.4	69.7
38	57.0	59.4	59.5	70.4	70.5	70.6	70.7	71.1	71.2	71.5	71.6	71.7	71.9	72.3	73.1	73.3	73.3	66.2	70.8	72.6	72.3	65.3	71.0	72.0	72.2	72.5	69.8
37	57.1	59.4	59.5	70.5	70.5	70.7	70.7	71.2	71.3	71.6	71.7	71.8	71.9	72.4	73.1	73.4	73.4	66.3	70.9	72.7	72.4	65.4	71.1	72.0	72.2	72.6	69.9
36	57.1	59.4	59.5	70.5	70.6	70.7	70.8	71.3	71.4	71.6	71.7	71.9	72.0	72.5	73.2	73.5	73.4	66.3	70.9	72.7	72.5	65.4	71.2	72.1	72.3	72.6	70.0
35	57.1	59.4	59.5	70.6	70.6	70.8	70.8	71.4	71.5	71.7	71.8	72.0	72.1	72.6	73.3	73.5	73.5	66.4	71.0	72.8	72.6	65.5	71.3	72.1	72.4	72.7	70.0
34	57.1	59.4	59.5	70.6	70.7	70.8	70.9	71.4	71.5	71.8	71.9	72.1	72.2	72.7	73.4	73.6	73.6	66.5	71.1	72.9	72.7	65.6	71.3	72.2	72.4	72.8	70.1
33	57.1	59.4	59.5	70.7	70.8	70.9	71.0	71.5	71.6	71.9	72.0	72.2	72.3	72.8	73.5	73.7	73.7	66.6	71.2	73.0	72.7	65.7	71.4	72.3	72.5	72.8	70.1
32	57.1	59.4	59.5	70.7	70.8	71.0	71.0	71.6	71.7	72.0	72.0	72.2	72.4	72.9	73.5	73.8	73.8	66.6	71.3	73.1	72.8	65.7	71.5	72.4	72.6	72.9	70.2
31	57.1	59.5	59.5	70.8	70.9	71.0	71.1	71.6	71.7	72.0	72.1	72.3	72.4	72.9	73.6	73.8	73.8	66.7	71.3	73.1	72.9	65.8	71.5	72.5	72.6	73.0	70.3
30	57.1	59.4	59.5	70.8	70.9	71.1	71.2	71.7	71.8	72.1	72.2	72.4	72.5	73.0	73.7	73.9	73.9	66.8	71.4	73.2	72.9	65.9	71.6	72.5	72.7	73.0	70.4
29	57.1	59.4	59.5	70.9	71.0	71.2	71.2	71.8	71.9	72.2	72.3	72.5	72.6	73.1	73.8	74.1	74.0	66.9	71.5	73.3	73.0	66.0	71.7	72.6	72.8	73.1	70.5
28	57.2	59.4	59.5	71.0	71.1	71.2	71.3	71.9	72.0	72.3	72.4	72.6	72.7	73.2	73.9	74.1	74.1	66.9	71.6	73.4	73.1	66.0	71.8	72.7	72.9	73.2	70.5
27	57.2	59.3	59.5	71.0	71.1	71.3	71.4	72.0	72.1	72.4	72.5	72.6	72.8	73.3	74.0	74.2	74.2	67.0	71.7	73.5	73.2	66.1	71.8	72.7	72.9	73.3	70.6
26	57.3	59.3	59.5	71.1	71.2	71.4	71.4	72.0	72.1	72.4	72.5	72.7	72.9	73.4	74.1	74.3	74.2	67.1	71.7	73.6	73.3	66.2	71.9	72.8	73.0	73.3	70.7
25	57.3	59.2	59.4	71.2	71.2	71.4	71.5	72.1	72.2	72.5	72.6	72.8	73.0	73.5	74.2	74.4	74.4	67.2	71.8	73.6	73.3	66.3	72.0	72.9	73.1	73.4	70.8
24	57.3	59.2	59.4	71.2	71.3	71.5	71.6	72.2	72.3	72.6	72.7	72.9	73.1	73.6	74.3	74.5	74.5	67.3	71.9	73.7	73.4	66.3	72.0	73.0	73.1	73.5	70.8
23	57.4	59.1	59.4	71.3	71.4	71.6	71.6	72.3	72.4	72.7	72.8	73.0	73.2	73.7	74.4	74.6	74.6	67.4	72.0	73.8	73.5	66.4	72.1	73.1	73.2	73.6	70.9
22																											
21	57.4	59.0	59.3	71.4	71.5	71.7	71.8	72.5	72.6	72.9	73.1	73.3	73.4	74.0	74.7	74.9	74.8	67.6	72.3	74.1	73.8	66.6	72.3	73.2	73.4	73.8	71.1
20	57.4	58.9	59.3	71.5	71.6	71.8	71.9	72.6	72.7	73.0	73.2	73.4	73.5	74.1	74.8	75.0	74.9	67.7	72.4	74.1	73.8	66.7	72.4	73.3	73.5	73.8	71.2
19	57.4	58.9	59.3	71.6	71.7	71.9	72.0	72.7	72.8	73.1	73.3	73.5	73.6	74.2	74.9	75.1	75.1	67.8	72.4	74.2	73.9	66.8	72.5	73.4	73.6	73.9	71.3
18	57.5	58.8	59.2	71.7	71.7	71.9	72.0	72.7	72.9	73.2	73.3	73.6	73.7	74.3	75.1	75.2	75.1	67.9	72.5	74.4	74.0	66.8	72.6	73.5	73.7	74.0	71.4
17	57.5	58.8	59.2	71.7	71.8	72.0	72.1	72.8	72.9	73.3	73.5	73.7	73.8	74.4	75.2	75.3	75.3	68.0	72.6	74.5	74.1	66.9	72.6	73.6	73.7	74.1	71.5
16	57.4	58.7	59.2	71.8	71.9	72.1	72.1	72.9	73.0	73.4	73.5	73.8	73.9	74.6	75.3	75.5	75.4	68.0	72.7	74.5	74.2	67.0	72.7	73.6	73.8	74.2	71.5
15	57.5	58.6	59.1	71.8	71.9	72.1	72.2	73.0	73.1	73.5	73.6	73.9	74.1	74.6	75.4	75.5	75.5	68.1	72.8	74.6	74.3	67.1	72.8	73.7	73.9	74.2	71.6
14	57.5	58.7	59.0	71.8	72.0	72.2	72.3	73.1	73.2	73.5	73.7	74.0	74.1	74.7	75.5	75.7	75.6	68.2	72.9	74.7	74.4	67.1	72.9	73.8	74.0	74.3	71.6
13	57.4	58.6	59.0	71.9	72.0	72.2	72.3	73.1	73.2	73.6	73.8	74.0	74.2	74.9	75.7	75.8	75.7	68.3	73.0	74.8	74.5	67.2	72.9	73.9	74.0	74.4	71.7
12	57.4	58.5	59.0	71.8	71.9	72.2	72.3	73.2	73.3	73.7	73.9	74.1	74.3	75.0	75.7	75.9	75.8	68.4	73.1	75.0	74.6	67.3	73.0	73.9	74.1	74.4	71.8
11	57.3	58.4	58.9	71.8	71.9	72.1	72.2	73.2	73.3	73.7	73.9	74.2	74.4	75.1	75.9	76.1	76.0	68.5	73.2	75.0	74.6	67.4	73.1	74.0	74.2	74.5	71.9
10	57.2	58.3	58.8	71.7	71.8	72.0	72.1	73.1	73.3	73.7	73.9	74.2	74.5	75.2	76.0	76.2	76.1	68.6	73.3	75.1	74.7	67.4	73.1	74.1	74.2	74.6	71.9
9	57.0	58.2	58.7	71.5	71.6	71.8	71.9	73.0	73.1	73.7	73.9	74.2	74.5	75.2	76.0	76.3	76.2	68.7	73.4	75.2	74.8	67.5	73.2	74.1	74.2	74.6	72.0
8	56.9	57.9	58.5	71.3	71.3	71.5	71.6	72.8	73.0	73.6	73.9	74.1	74.4	75.2	76.1	76.5	76.3	68.8	73.5	75.3	74.9	67.6	73.3	74.0	74.2	74.5	71.9
7	56.3	57.5	58.1	70.9	71.0	71.3	71.4	72.6	72.8	73.5	73.7	74.1	74.4	75.2	76.1	76.6	76.4	68.9	73.6	75.4	74.9	67.6	73.3	73.9	74.1	74.4	71.9
6	55.7	57.1	57.6	70.4	70.6	70.9	71.1	72.3	72.5	73.2	73.5	74.0	74.3	75.2	76.1	76.7	76.5	69.0	73.7	75.4	74.7	67.7	73.3	73.9	74.0	74.4	71.9
5	55.1	56.7	57.2	69.8	70.0	70.4	70.7	71.9	72.0	72.6	73.0	73.5	74.0	75.2	76.2	76.8	76.6	69.0	73.5	74.9	74.4	67.7	73.2	73.8	74.0	74.3	71.9
4	53.9	55.7	56.2	69.0	69.2	69.6	69.8	70.8	71.0	71.6	71.8	72.1	72.5	74.1	75.8	76.7	75.8	68.8	71.8	74.1	74.0	67.7	72.6	73.8	73.9	74.4	71.6
Max	57.5	59.5	59.5	71.9	72.0	72.2	72.3	73.2	73.3	73.7	73.9	74.2	74.5	75.2	76.2	76.8	76.6	69.0	73.7	75.4	74.9	67.7	73.3	74.1	74.2	74.6	72.0
Min	53.9	55.7	56.2	69.0	69.2	69.6	69.8	70.7	70.8	71.0	71.1	71.3	71.4	71.9	72.6	72.9	72.9	65.8	70.3	72.1	71.9	64.9	70.6	71.5	71.7	72.0	69.4

Noise sensitive receivers with exceedance (≥70.5 dB(A))

Remark: R111a, R113a, R115a, R214a, R216a, R218a are not used.

Floor	R121a	R121b	R121c	R122a	R122b	R122c	R123a	R123b	R123c	R201a	R201b	R201c	R201d	R201e	R201f	R202a	R202b	R203a	R203b	R204a	R204b	R204c	R204d	R204e	R204f	R205a	R205b
45	67.9	72.4	72.4	72.7	72.9	69.7	68.9	72.8	71.0	69.4	69.8	69.9	70.9	70.9	64.1	66.7	70.8	70.7	63.6	67.2	70.7	70.9	67.1	66.6	67.7	64.8	65.1
44	68.0	72.4	72.5	72.8	73.0	69.7	68.9	72.9	71.1	69.5	69.8	69.9	71.0	70.9	64.1	66.8	70.8	70.7	63.6	67.2	70.7	70.9	67.1	66.6	67.7	64.9	65.2
43	68.0	72.5	72.6	72.8	73.1	69.8	69.0	72.9	71.1	69.5	69.8	70.0	71.0	70.9	64.1	66.8	70.8	70.8	63.5	67.3	70.8	71.0	67.1	66.6	67.7	64.9	65.2
42	68.1	72.6	72.6	72.9	73.1	69.9	69.1	73.0	71.2	69.5	69.9	70.0	71.0	71.0	64.1	66.8	70.8	70.8	63.5	67.3	70.8	71.0	67.1	66.6	67.7	65.0	65.3
41	68.2	72.6	72.7	73.0	73.2	69.9	69.2	73.0	71.3	69.6	69.9	70.0	71.0	71.0	64.1	66.9	70.9	70.8	63.5	67.3	70.8	71.0	67.1	66.6	67.7	65.0	65.3
40	68.2	72.7	72.8	73.0	73.3	69.9	69.2	73.1	71.4	69.6	70.0	70.1	71.1	71.0	64.0	66.9	70.9	70.8	63.5	67.4	70.8	71.0	67.1	66.6	67.7	65.0	65.3
39	68.2	72.8	72.8	73.1	73.3	70.0	69.3	73.2	71.4	69.6	70.0	70.1	71.1	71.0	64.1	66.9	70.9	70.8	63.4	67.4	70.9	71.1	67.1	66.6	67.8	65.0	65.3
38	68.3	72.9	72.9	73.1	73.4	70.1	69.3	73.2	71.5	69.7	70.0	70.2	71.1	71.1	64.0	67.0	71.0	70.9	63.4	67.4	70.9	71.1	67.1	66.6	67.8	65.1	65.3
37	68.4	72.9	73.0	73.2	73.4	70.2	69.4	73.3	71.5	69.7	70.1	70.2	71.1	71.1	64.0	67.0	71.0	70.9	63.4	67.5	70.9	71.1	67.1	66.6	67.8	65.1	65.3
36	68.5	73.0	73.0	73.3	73.5	70.2	69.4	73.4	71.6	69.8	70.1	70.2	71.2	71.1	64.0	67.0	71.0	70.9	63.4	67.5	70.9	71.1	67.1	66.6	67.8	65.1	65.3
35	68.6	73.0	73.1	73.4	73.6	70.3	69.5	73.5	71.7	69.8	70.2	70.3	71.2	71.2	64.0	67.1	71.0	70.9	63.4	67.6	70.9	71.1	67.1	66.5	67.8	65.1	65.3
34	68.6	73.1	73.2	73.4	73.7	70.4	69.6	73.6	71.7	69.9	70.2	70.3	71.2	71.2	64.0	67.1	71.0	71.0	63.3	67.6	70.9	71.2	67.1	66.5	67.8	65.2	65.3
33	68.7	73.2	73.2	73.5	73.7	70.5	69.7	73.6	71.8	69.9	70.2	70.4	71.3	71.2	64.0	67.2	71.1	71.0	63.3	67.6	71.0	71.2	67.1	66.5	67.8	65.2	65.4
32	68.8	73.3	73.3	73.6	73.8	70.5	69.8	73.7	71.9	69.9	70.3	70.4	71.3	71.2	64.0	67.2	71.1	71.0	63.3	67.6	71.0	71.2	67.1	66.5	67.8	65.2	65.4
31	68.9	73.3	73.4	73.7	73.9	70.6	69.8	73.8	72.0	70.0	70.3	70.5	71.3	71.3	64.0	67.2	71.1	71.0	63.3	67.7	71.0	71.2	67.0	66.5	67.8	65.2	65.4
30	68.9	73.4	73.5	73.7	74.0	70.6	69.9	73.8	72.1	70.0	70.4	70.5	71.4	71.3	64.0	67.2	71.2	71.1	63.2	67.7	71.0	71.2	67.0	66.5	67.8	65.2	65.4
29	69.0	73.5	73.6	73.8	74.0	70.7	70.0	73.9	72.1	70.1	70.4	70.6	71.4	71.3	64.0	67.3	71.2	71.1	63.2	67.8	71.1	71.3	67.0	66.5	67.8	65.3	65.4
28	69.0	73.6	73.6	73.9	74.1	70.8	70.1	74.0	72.2	70.1	70.5	70.6	71.4	71.3	63.9	67.3	71.2	71.1	63.2	67.8	71.1	71.3	67.0	66.4	67.8	65.3	65.4
27	69.1	73.6	73.7	73.9	74.2	70.9	70.1	74.1	72.3	70.1	70.5	70.6	71.4	71.4	63.9	67.4	71.2	71.1	63.1	67.8	71.1	71.3	66.9	66.4	67.8	65.3	65.4
26	69.2	73.7	73.7	74.0	74.3	71.0	70.2	74.1	72.4	70.2	70.5	70.7	71.5	71.4	63.8	67.4	71.3	71.1	63.1	67.9	71.1	71.3	66.9	66.3	67.8	65.3	65.4
25	69.3	73.8	73.8	74.1	74.3	71.0	70.3	74.2	72.4	70.2	70.6	70.7	71.5	71.4	63.8	67.4	71.3	71.1	63.0	67.9	71.1	71.3	66.9	66.3	67.7	65.3	65.4
24	69.4	73.9	73.9	74.2	74.4	71.1	70.3	74.3	72.5	70.2	70.6	70.7	71.5	71.4	63.7	67.5	71.3	71.1	62.9	67.9	71.1	71.3	66.8	66.2	67.7	65.3	65.4
23	69.5	73.9	74.0	74.3	74.5	71.2	70.4	74.4	72.6	70.3	70.7	70.8	71.5	71.5	63.6	67.5	71.3	71.2	62.8	67.9	71.1	71.3	66.7	66.1	67.6	65.2	65.3
22																											
21	69.7	74.1	74.2	74.4	74.7	71.4	70.7	74.6	72.8	70.3	70.7	70.9	71.6	71.5	63.4	67.6	71.3	71.2	62.7	68.0	71.1	71.2	66.4	65.6	67.4	65.2	65.3
20	69.8	74.2	74.3	74.5	74.8	71.4	70.7	74.7	72.9	70.4	70.8	70.9	71.6	71.5	63.3	67.6	71.3	71.2	62.5	68.0	71.1	71.2	66.2	65.4	67.2	65.1	65.4
19	69.9	74.3	74.3	74.6	74.8	71.5	70.8	74.7	73.0	70.4	70.8	70.9	71.6	71.5	63.2	67.6	71.3	71.1	62.5	68.0	71.0	71.1	66.0	65.2	67.2	65.1	65.4
18	70.0	74.4	74.4	74.7	74.9	71.6	70.9	74.8	73.1	70.4	70.9	71.0	71.6	71.5	63.1	67.7	71.3	71.1	62.3	68.0	71.0	71.1	65.9	65.0	67.1	65.2	65.4
17	70.1	74.5	74.5	74.8	75.0	71.6	71.0	74.9	73.1	70.5	70.9	71.0	71.6	71.5	62.9	67.7	71.3	71.1	62.1	68.1	71.0	71.1	65.7	64.9	67.0	65.2	65.4
16	70.1	74.5	74.6	74.8	75.1	71.7	71.1	75.0	73.2	70.5	70.9	71.0	71.6	71.5	62.8	67.7	71.3	71.1	62.0	68.1	71.0	71.0	65.5	64.7	66.9	65.2	65.5
15	70.1	74.6	74.7	74.9	75.2	71.8	71.2	75.1	73.3	70.5	70.9	71.0	71.6	71.5	62.6	67.7	71.2	71.1	61.8	68.1	71.0	71.0	65.4	64.5	66.9	65.2	65.5
14	70.2	74.7	74.7	75.0	75.2	71.9	71.3	75.1	73.3	70.5	70.9	71.1	71.6	71.5	62.3	67.7	71.2	71.1	61.5	68.1	70.9	70.9	65.2	64.3	66.8	65.3	65.6
13	70.3	74.7	74.8	75.1	75.3	71.9	71.3	75.2	73.4	70.6	71.0	71.1	71.6	71.5	62.2	67.8	71.2	71.0	61.1	68.1	70.8	70.9	65.0	64.0	66.7	65.3	65.6
12	70.4	74.8	74.8	75.1	75.4	72.0	71.4	75.3	73.5	70.6	71.0	71.1	71.6	71.4	62.1	67.8	71.1	70.9	60.8	68.1	70.7	70.8	64.8	63.7	66.7	65.3	65.6
11	70.5	74.9	74.9	75.2	75.4	72.1	71.4	75.3	73.6	70.6	71.0	71.1	71.5	71.4	61.9	67.7	71.1	70.9	60.6	68.1	70.7	70.7	64.5	63.4	66.5	65.3	65.7
10	70.5	74.9	75.0	75.3	75.5	72.1	71.5	75.4	73.6	70.6	70.9	71.1	71.4	71.3	61.7	67.7	71.0	70.7	60.2	68.1	70.6	70.6	64.1	63.0	66.5	65.2	65.6
9	70.5	75.0	75.0	75.3	75.6	72.2	71.6	75.5	73.7	70.6	70.9	71.0	71.3	71.2	61.5	67.8	70.9	70.6	59.9	68.1	70.4	70.5	63.7	62.5	66.3	65.1	65.6
8	70.3	75.0	75.0	75.3	75.6	72.2	71.5	75.5	73.6	70.5	70.8	70.9	71.3	71.1	61.4	67.7	70.8	70.5	59.5	68.0	70.3	70.4	63.2	61.9	66.2	65.1	65.4
7	70.0	74.9	74.9	75.3	75.5	72.2	71.6	75.4	73.6	70.3	70.6	70.7	71.1	71.0	61.2	67.7	70.7	70.4	59.1	68.0	70.2	70.2	62.6	61.2	66.0	64.9	65.3
6	69.9	74.8	74.9	75.2	75.5	72.3	71.6	75.4	73.5	70.0	70.3	70.5	70.9	70.8	61.1	67.7	70.6	70.4	58.9	67.9	70.1	70.0	61.8	60.1	65.8	64.7	65.1
5	69.9	74.8	74.8	75.2	75.5	72.3	71.6	75.4	73.5	69.6	70.1	70.3	70.8	70.7	60.7	67.6	70.4	70.0	58.4	67.8	69.7	69.6	60.9	59.0	65.6	64.5	64.5
4	69.5	74.8	74.8	75.1	75.4	72.0	71.5	75.1	73.0	69.3	69.7	69.9	70.3	70.0	58.8	66.2	68.9	68.5	56.7	66.3	68.4	68.4	60.2	58.0	65.6	63.6	62.5
Max	70.5	75.0	75.0	75.3	75.6	72.3	71.6	75.5	73.7	70.6	71.0	71.1	71.6	71.5	64.1	67.8	71.3	71.2	63.6	68.1	71.1	71.3	67.1	66.6	67.8	65.3	65.7
Min	67.9	72.4	72.4	72.7	72.9	69.7	68.9	72.8	71.0	69.3	69.7	69.9	70.3	70.0	58.8	66.2	68.9	68.5	56.7	66.3	68.4	68.4	60.2	58.0	65.6	63.6	62.5

Noise sensitive receivers with exceedance (≥70.5 dB(A))

Remark: R111a, R113a, R115a, R214a, R216a, R218a are not used.

Floor	R206a	R206b	R206c	R206d	R207a	R207b	R207c	R207d	R208a	R208b	R209a	R209b	R210a	R210b	R211a	R211b	R211c	R212a	R212b	R212c	R212d	R213a	R213b	R214b	R214c	R215a	R215b
45	63.4	65.9	66.0	64.3	63.7	65.9	65.8	63.2	64.9	65.0	65.0	64.7	62.6	65.6	66.0	66.1	62.1	61.7	66.6	67.2	67.3	69.5	69.1	69.0	69.0	69.0	69.0
44	63.4	66.0	66.1	64.4	63.7	65.9	65.8	63.3	65.0	65.1	65.0	64.7	62.5	65.6	66.0	66.1	62.1	61.7	66.6	67.2	67.4	69.5	69.1	69.0	69.0	69.0	69.0
43	63.4	66.0	66.1	64.4	63.7	65.9	65.8	63.3	65.0	65.1	65.0	64.8	62.5	65.6	66.0	66.2	62.2	61.7	66.6	67.2	67.4	69.6	69.2	69.0	69.0	69.0	69.0
42	63.4	66.0	66.1	64.4	63.7	66.0	65.8	63.3	65.0	65.1	65.0	64.8	62.5	65.7	66.0	66.2	62.2	61.7	66.7	67.2	67.4	69.6	69.2	69.1	69.1	69.1	69.1
41	63.4	66.0	66.1	64.4	63.7	66.0	65.9	63.4	65.0	65.1	65.0	64.8	62.5	65.7	66.1	66.2	62.2	61.7	66.7	67.3	67.5	69.6	69.2	69.1	69.1	69.1	69.1
40	63.4	66.1	66.2	64.5	63.7	66.0	65.9	63.4	65.1	65.1	65.1	64.8	62.6	65.7	66.1	66.3	62.2	61.8	66.7	67.3	67.5	69.6	69.3	69.2	69.1	69.1	69.2
39	63.4	66.1	66.2	64.5	63.7	66.0	65.9	63.4	65.0	65.1	65.1	64.8	62.6	65.7	66.1	66.3	62.2	61.8	66.7	67.3	67.5	69.7	69.3	69.2	69.2	69.2	69.2
38	63.4	66.1	66.2	64.6	63.7	66.0	65.9	63.5	65.1	65.2	65.1	64.8	62.6	65.7	66.1	66.3	62.3	61.8	66.7	67.3	67.6	69.7	69.4	69.3	69.2	69.2	69.2
37	63.4	66.1	66.2	64.6	63.7	66.0	65.9	63.5	65.1	65.1	65.1	64.8	62.6	65.7	66.2	66.3	62.2	61.8	66.8	67.4	67.6	69.8	69.4	69.3	69.3	69.3	69.3
36	63.4	66.1	66.2	64.6	63.7	66.0	65.9	63.5	65.1	65.1	65.0	64.8	62.6	65.7	66.2	66.3	62.2	61.8	66.8	67.4	67.6	69.8	69.4	69.3	69.3	69.3	69.3
35	63.3	66.1	66.2	64.6	63.6	66.0	65.9	63.5	65.0	65.1	65.0	64.8	62.6	65.7	66.2	66.4	62.2	61.8	66.8	67.4	67.6	69.8	69.5	69.4	69.4	69.4	69.4
34	63.4	66.1	66.2	64.6	63.6	66.0	65.9	63.5	65.0	65.1	65.0	64.8	62.6	65.7	66.2	66.4	62.2	61.8	66.8	67.5	67.7	69.9	69.5	69.4	69.4	69.4	69.4
33	63.4	66.1	66.2	64.6	63.6	66.0	65.9	63.4	65.0	65.1	64.9	64.7	62.6	65.7	66.2	66.4	62.2	61.7	66.8	67.5	67.7	69.9	69.6	69.5	69.5	69.5	69.4
32	63.4	66.1	66.3	64.7	63.6	66.0	65.9	63.5	65.0	65.1	64.9	64.7	62.5	65.7	66.2	66.4	62.1	61.7	66.9	67.5	67.7	70.0	69.6	69.5	69.5	69.5	69.5
31	63.4	66.2	66.3	64.7	63.6	66.0	65.9	63.5	64.9	65.0	64.9	64.6	62.5	65.6	66.2	66.4	62.1	61.7	66.9	67.5	67.8	70.0	69.7	69.6	69.6	69.6	69.6
30	63.3	66.2	66.3	64.7	63.6	66.0	65.9	63.5	64.9	65.0	64.8	64.6	62.4	65.6	66.2	66.4	62.1	61.6	66.9	67.5	67.8	70.1	69.7	69.6	69.6	69.6	69.6
29	63.3	66.2	66.3	64.7	63.5	66.0	65.8	63.4	64.8	64.9	64.7	64.5	62.3	65.6	66.1	66.3	61.9	61.5	66.8	67.5	67.8	70.1	69.8	69.7	69.7	69.6	69.7
28	63.3	66.1	66.3	64.7	63.6	65.9	65.8	63.4	64.7	64.8	64.7	64.4	62.3	65.6	66.1	66.3	61.9	61.4	66.8	67.5	67.8	70.1	69.8	69.7	69.7	69.7	69.7
27	63.3	66.1	66.3	64.7	63.5	65.9	65.7	63.3	64.6	64.7	64.6	64.3	62.2	65.5	66.1	66.3	61.9	61.4	66.8	67.5	67.8	70.2	69.9	69.8	69.7	69.8	69.8
26	63.2	66.1	66.2	64.6	63.5	65.8	65.6	63.3	64.6	64.6	64.4	64.2	62.2	65.4	66.0	66.3	61.9	61.3	66.8	67.6	67.8	70.2	69.9	69.8	69.8	69.8	69.8
25	63.2	66.1	66.2	64.6	63.4	65.8	65.6	63.3	64.5	64.5	64.4	64.2	62.1	65.3	66.0	66.2	61.8	61.2	66.8	67.5	67.8	70.3	69.9	69.9	69.8	69.8	69.8
24	63.1	66.0	66.1	64.6	63.4	65.7	65.5	63.3	64.4	64.5	64.3	64.1	62.1	65.3	65.9	66.2	61.7	61.2	66.8	67.6	67.9	70.3	70.0	69.9	69.9	69.9	69.9
23	63.0	66.0	66.1	64.6	63.3	65.7	65.5	63.2	64.3	64.4	64.2	64.0	62.1	65.3	65.9	66.2	61.7	61.1	66.8	67.5	67.9	70.3	70.0	70.0	69.9	69.9	69.9
22																											
21	63.0	66.0	66.1	64.6	63.4	65.6	65.4	63.2	64.2	64.3	64.2	64.0	62.0	65.1	65.8	66.1	61.7	61.1	66.7	67.5	67.9	70.4	70.1	70.0	70.0	70.0	70.0
20	63.0	66.0	66.1	64.6	63.4	65.6	65.4	63.1	64.3	64.3	64.1	63.9	62.0	65.1	65.8	66.0	61.7	61.0	66.7	67.5	67.9	70.4	70.2	70.1	70.0	70.0	70.1
19	62.9	66.0	66.1	64.6	63.4	65.6	65.4	63.1	64.3	64.3	64.1	63.9	62.1	65.1	65.8	66.0	61.7	61.0	66.7	67.6	68.0	70.4	70.2	70.1	70.1	70.1	70.1
18	63.0	66.1	66.2	64.7	63.5	65.7	65.5	63.2	64.3	64.3	64.1	63.9	62.0	65.1	65.8	66.0	61.8	61.0	66.7	67.5	67.9	70.4	70.2	70.1	70.1	70.1	70.1
17	63.0	66.1	66.2	64.7	63.5	65.7	65.4	63.1	64.3	64.3	64.1	63.9	62.0	65.0	65.8	66.0	61.7	61.0	66.7	67.6	68.0	70.4	70.2	70.2	70.2	70.1	70.1
16	63.1	66.2	66.2	64.7	63.6	65.8	65.5	63.2	64.3	64.3	64.1	63.9	62.0	65.0	65.7	66.0	61.7	60.9	66.7	67.6	68.0	70.4	70.2	70.2	70.2	70.2	70.2
15	63.1	66.2	66.3	64.8	63.6	65.8	65.6	63.2	64.4	64.3	64.1	63.8	62.0	65.0	65.7	66.0	61.7	60.9	66.7	67.7	68.0	70.3	70.2	70.2	70.2	70.1	70.2
14	63.1	66.3	66.3	64.8	63.7	65.9	65.6	63.2	64.4	64.3	64.1	63.8	62.0	65.1	65.7	66.0	61.8	60.9	66.8	67.7	68.1	70.3	70.2	70.1	70.1	70.1	70.1
13	63.2	66.3	66.4	64.9	63.7	65.9	65.7	63.2	64.4	64.3	64.2	63.8	62.0	65.1	65.7	65.9	61.8	60.9	66.8	67.7	68.1	70.1	70.1	70.1	70.1	70.1	70.1
12	63.2	66.4	66.5	64.8	63.7	66.0	65.7	63.1	64.4	64.3	64.1	63.8	62.0	65.1	65.7	66.0	61.9	61.0	66.8	67.7	68.2	70.0	69.9	69.9	70.0	70.0	70.0
11	63.2	66.4	66.5	64.8	63.7	66.0	65.7	63.1	64.4	64.3	64.1	63.7	62.1	65.1	65.7	65.9	62.0	61.0	66.8	67.7	68.1	69.8	69.8	69.9	69.9	69.9	69.9
10	63.1	66.4	66.5	64.8	63.7	65.9	65.7	63.0	64.4	64.3	64.1	63.7	62.2	65.1	65.8	65.9	62.1	61.1	66.8	67.8	68.2	69.6	69.7	69.7	69.7	69.8	69.8
9	62.9	66.4	66.5	64.7	63.6	65.9	65.7	62.9	64.4	64.2	64.0	63.7	62.3	65.1	65.8	66.0	62.3	61.2	66.7	67.8	68.1	69.5	69.5	69.6	69.6	69.6	69.7
8	62.9	66.4	66.4	64.6	63.5	65.9	65.7	62.7	64.3	64.2	64.0	63.8	62.5	65.1	65.8	66.0	62.2	61.3	66.6	67.7	67.9	69.3	69.3	69.4	69.4	69.5	69.4
7	62.6	66.3	66.4	64.5	63.4	65.9	65.7	62.7	64.4	64.2	64.0	63.8	62.7	65.1	65.8	65.9	62.1	61.1	66.4	67.5	67.6	69.0	69.0	69.1	69.1	69.1	69.1
6	62.1	66.3	66.4	64.2	62.8	65.9	65.6	62.5	64.3	64.2	64.0	63.7	62.7	65.2	65.8	65.8	61.2	60.5	66.2	67.0	67.1	68.6	68.6	68.6	68.5	68.5	68.3
5	59.5	66.3	66.3	63.1	59.6	65.9	65.7	62.2	64.2	64.3	63.9	61.6	61.6	64.9	65.4	65.2	57.7	57.5	65.3	65.9	65.9	67.9	67.8	67.7	67.6	67.5	67.3
4	55.0	65.8	66.0	60.2	54.9	65.8	65.5	58.8	61.7	64.2	60.9	56.2	56.4	61.4	61.9	61.6	53.3	53.1	61.6	63.3	64.3	67.1	67.0	66.6	66.5	66.5	66.4
Max	63.4	66.4	66.5	64.9	63.7	66.0	65.9	63.5	65.1	65.2	65.1	64.8	62.7	65.7	66.2	66.4	62.3	61.8	66.9	67.8	68.2	70.4	70.2	70.2	70.2	70.2	70.2
Min	55.0	65.8	66.0	60.2	54.9	65.6	65.4	58.8	61.7	64.2	60.9	56.2	56.4	61.4	61.9	61.6	53.3	53.1	61.6	63.3	64.3	67.1	67.0	66.6	66.5	66.5	66.4

Noise sensitive receivers with exceedance (≥70.5 dB(A))

Remark: R111a, R113a, R115a, R214a, R216a, R218a are not used.

Floor	R216b	R216c	R217a	R217b	R218b	R218c	R219a	R219b	R219c	R220a	R220b	R220c	R221a	R221b	R222a	R222b	R222c	R222d	R223a	R223b	R223c	R223d	R224a	R224b
45	69.0	68.9	69.4	69.5	69.6	69.6	63.2	63.4	58.5	63.2	63.7	63.8	64.2	64.4	<40	65.0	65.2	64.8	62.1	65.3	65.1	63.2	59.4	50.5
44	69.0	68.9	69.5	69.5	69.6	69.7	63.2	63.5	58.5	63.3	63.8	63.9	64.2	64.4	<40	65.0	65.2	64.9	62.1	65.4	65.1	63.2	59.4	50.4
43	69.1	69.0	69.5	69.6	69.7	69.7	63.3	63.5	58.6	63.3	63.8	63.9	64.2	64.5	<40	65.1	65.2	64.9	62.2	65.4	65.2	63.3	59.5	50.5
42	69.1	69.0	69.5	69.6	69.7	69.8	63.3	63.5	58.6	63.4	63.9	63.9	64.3	64.5	<40	65.1	65.3	65.0	62.2	65.5	65.2	63.3	59.5	50.5
41	69.2	69.1	69.6	69.7	69.8	69.8	63.3	63.6	58.6	63.4	63.9	64.0	64.3	64.6	<40	65.2	65.3	65.0	62.3	65.5	65.3	63.3	59.6	50.6
40	69.2	69.1	69.6	69.7	69.8	69.8	63.4	63.6	58.7	63.5	63.9	64.0	64.4	64.6	<40	65.2	65.4	65.1	62.3	65.6	65.3	63.4	59.6	50.6
39	69.2	69.2	69.7	69.8	69.8	69.9	63.4	63.7	58.7	63.5	64.0	64.1	64.4	64.6	<40	65.3	65.5	65.1	62.3	65.6	65.4	63.4	59.6	50.5
38	69.3	69.2	69.7	69.8	69.9	69.9	63.5	63.7	58.8	63.5	64.0	64.1	64.5	64.7	<40	65.3	65.5	65.1	62.4	65.6	65.4	63.5	59.7	50.6
37	69.3	69.2	69.8	69.9	69.9	70.0	63.5	63.8	58.8	63.6	64.1	64.2	64.5	64.7	<40	65.4	65.6	65.2	62.4	65.7	65.5	63.5	59.7	50.6
36	69.4	69.3	69.8	69.9	70.0	70.0	63.6	63.8	58.8	63.6	64.1	64.2	64.5	64.8	<40	65.4	65.6	65.2	62.5	65.7	65.5	63.6	59.7	50.6
35	69.4	69.3	69.8	69.9	70.0	70.1	63.6	63.8	58.9	63.7	64.2	64.2	64.6	64.8	<40	65.4	65.6	65.3	62.5	65.8	65.6	63.6	59.7	50.5
34	69.5	69.4	69.9	70.0	70.1	70.1	63.7	63.9	58.9	63.7	64.2	64.3	64.6	64.9	<40	65.5	65.7	65.3	62.6	65.8	65.6	63.7	59.8	50.6
33	69.5	69.4	69.9	70.0	70.1	70.2	63.7	63.9	59.0	63.7	64.2	64.3	64.7	64.9	<40	65.5	65.7	65.3	62.6	65.9	65.6	63.7	59.8	50.5
32	69.6	69.5	70.0	70.1	70.2	70.2	63.7	64.0	59.0	63.8	64.3	64.4	64.7	65.0	<40	65.6	65.8	65.4	62.7	65.9	65.7	63.7	59.8	50.4
31	69.6	69.5	70.0	70.1	70.2	70.2	63.8	64.0	59.0	63.8	64.3	64.4	64.7	65.0	<40	65.6	65.8	65.4	62.7	66.0	65.7	63.8	59.8	50.3
30	69.7	69.6	70.1	70.2	70.2	70.3	63.8	64.0	59.1	63.9	64.4	64.4	64.8	65.1	<40	65.7	65.8	65.5	62.8	66.0	65.8	63.8	59.9	50.2
29	69.7	69.6	70.1	70.2	70.3	70.4	63.8	64.1	59.1	63.9	64.4	64.5	64.8	65.1	<40	65.7	65.9	65.5	62.8	66.1	65.8	63.8	59.9	50.0
28	69.8	69.7	70.2	70.3	70.4	70.4	63.9	64.1	59.1	63.9	64.4	64.5	64.9	65.1	<40	65.7	65.9	65.6	62.9	66.1	65.9	63.9	59.9	49.8
27	69.8	69.7	70.2	70.3	70.4	70.5	63.9	64.1	59.2	64.0	64.5	64.6	64.9	65.2	<40	65.8	66.0	65.6	62.9	66.2	65.9	63.9	59.8	49.3
26	69.9	69.8	70.3	70.4	70.5	70.5	63.9	64.2	59.2	64.0	64.5	64.6	65.0	65.2	<40	65.8	66.0	65.7	62.9	66.2	65.9	63.9	59.9	48.8
25	69.9	69.8	70.3	70.4	70.5	70.6	64.0	64.2	59.2	64.0	64.6	64.6	65.0	65.2	<40	65.9	66.1	65.7	63.0	66.2	66.0	64.0	59.8	48.1
24	69.9	69.9	70.4	70.5	70.6	70.6	64.0	64.3	59.3	64.1	64.6	64.7	65.0	65.3	<40	65.9	66.1	65.7	63.0	66.3	66.0	64.0	59.8	47.6
23	70.0	69.9	70.4	70.5	70.6	70.7	64.1	64.3	59.3	64.1	64.6	64.7	65.1	65.3	<40	65.9	66.1	65.8	63.0	66.3	66.0	64.1	59.8	47.0
22																								
21	70.1	70.0	70.6	70.7	70.8	70.9	64.1	64.4	59.4	64.2	64.7	64.8	65.1	65.4	<40	66.0	66.2	65.9	63.1	66.4	66.1	64.1	59.9	45.3
20	70.1	70.1	70.6	70.7	70.9	70.9	64.1	64.4	59.4	64.2	64.7	64.8	65.2	65.4	<40	66.0	66.3	65.9	63.2	66.4	66.1	64.1	59.9	44.9
19	70.1	70.1	70.7	70.8	70.9	71.0	64.2	64.4	59.5	64.2	64.7	64.8	65.2	65.4	<40	66.1	66.3	65.9	63.2	66.4	66.2	64.2	59.9	44.4
18	70.2	70.2	70.7	70.8	70.9	71.0	64.2	64.4	59.5	64.3	64.8	64.8	65.2	65.5	<40	66.1	66.3	65.9	63.2	66.5	66.2	64.2	59.9	44.1
17	70.2	70.2	70.7	70.8	71.0	71.0	64.2	64.5	59.5	64.3	64.8	64.9	65.2	65.5	<40	66.1	66.4	66.0	63.2	66.5	66.2	64.2	59.9	43.8
16	70.2	70.2	70.7	70.9	71.0	71.1	64.2	64.5	59.5	64.3	64.8	64.9	65.3	65.5	<40	66.2	66.4	66.0	63.2	66.5	66.2	64.2	59.9	43.5
15	70.2	70.2	70.8	70.9	71.0	71.1	64.3	64.5	59.6	64.4	64.9	64.9	65.3	65.5	<40	66.2	66.4	66.0	63.3	66.6	66.3	64.2	59.9	43.2
14	70.2	70.2	70.8	70.9	71.1	71.1	64.3	64.6	59.6	64.4	64.9	65.0	65.3	65.6	<40	66.2	66.4	66.0	63.3	66.6	66.3	64.3	60.0	43.0
13	70.2	70.2	70.8	70.9	71.1	71.2	64.3	64.6	59.6	64.4	64.9	65.0	65.3	65.6	<40	66.2	66.5	66.1	63.3	66.6	66.3	64.3	60.0	42.8
12	70.1	70.2	70.8	70.9	71.1	71.1	64.3	64.6	59.6	64.4	65.0	65.0	65.4	65.6	<40	66.3	66.5	66.1	63.3	66.6	66.3	64.3	59.9	42.7
11	70.1	70.1	70.8	70.9	71.1	71.1	64.3	64.6	59.7	64.4	65.0	65.0	65.4	65.6	<40	66.3	66.5	66.1	63.3	66.6	66.3	64.3	59.8	42.5
10	69.9	70.0	70.7	70.9	71.0	71.1	64.3	64.6	59.7	64.4	65.0	65.1	65.4	65.7	<40	66.3	66.5	66.1	63.2	66.6	66.3	64.3	59.5	42.4
9	69.8	69.8	70.6	70.7	70.9	70.9	64.3	64.6	59.7	64.4	65.0	65.0	65.3	65.6	<40	66.3	66.5	66.0	63.0	66.5	66.2	64.0	58.9	42.3
8	69.6	69.6	70.3	70.4	70.6	70.6	64.2	64.5	59.7	64.3	64.8	64.8	65.1	65.4	<40	66.1	66.3	65.8	62.4	66.3	65.8	63.4	57.4	42.2
7	69.1	69.1	69.7	69.9	70.0	70.1	64.1	64.2	59.6	64.0	64.4	64.5	64.8	65.1	<40	65.7	65.9	65.3	61.1	65.9	65.4	62.5	54.5	42.1
6	68.2	68.2	68.9	69.1	69.2	69.3	63.6	63.7	59.3	63.4	63.9	63.9	64.3	64.6	<40	65.3	65.4	64.7	58.8	65.2	64.7	61.5	51.6	42.0
5	67.3	67.3	68.1	68.3	68.5	68.6	62.5	62.9	58.9	62.7	63.4	63.5	64.0	64.3	<40	64.9	65.1	64.1	55.4	64.6	64.1	60.6	49.4	41.9
4	66.4	66.5	67.3	67.5	67.7	67.9	61.4	62.1	58.0	62.0	62.8	63.0	63.2	63.1	<40	64.0	64.0	62.0	52.6	62.5	61.9	57.8	47.8	41.9
Max	70.2	70.2	70.8	70.9	71.1	71.2	64.3	64.6	59.7	64.4	65.0	65.1	65.4	65.7	<40	66.3	66.5	66.1	63.3	66.6	66.3	64.3	60.0	50.6
Min	66.4	66.5	67.3	67.5	67.7	67.9	61.4	62.1	58.0	62.0	62.8	63.0	63.2	63.1	<40	64.0	64.0	62.0	52.6	62.5	61.9	57.8	47.8	41.9

Noise sensitive receivers with exceedance (≥70.5 dB(A))

Remark: R111a, R113a, R115a, R214a, R216a, R218a are not used.

Floor	R101m ax	R102m ax	R103m ax	R104m ax	R105m ax	R106m ax	R107m ax	R108m ax	R109m ax	R110m ax	R111m ax	R112m ax	R113m ax	R114m ax	R115m ax	R116m ax	R117m ax	R118m ax	R119m ax	R120m ax	R121m ax	R122m ax	R123m ax	R201m ax	R202m ax	R203m ax	R204m ax	R205m ax
45	72.7	71.9	71.7	56.4	59.2	58.1	58.0	58.9	59.4	70.1	70.3	70.8	71.1	71.4	72.6	72.9	72.1	71.9	71.5	72.0	72.4	72.9	72.8	70.9	70.8	70.7	70.9	65.1
44	72.7	72.0	71.7	56.3	59.2	58.0	58.0	59.0	59.4	70.2	70.3	70.8	71.2	71.4	72.7	73.0	72.2	71.9	71.6	72.1	72.5	73.0	72.9	71.0	70.8	70.7	70.9	65.2
43	72.7	72.0	71.8	56.3	59.1	57.9	58.0	59.0	59.4	70.2	70.4	70.9	71.3	71.5	72.7	73.0	72.3	72.0	71.6	72.2	72.6	73.1	72.9	71.0	70.8	70.8	71.0	65.2
42	72.8	72.1	71.8	56.3	59.1	58.0	58.0	58.9	59.4	70.3	70.4	71.0	71.3	71.6	72.8	73.1	72.3	72.1	71.7	72.2	72.6	73.1	73.0	71.0	70.8	70.8	71.0	65.3
41	72.9	72.1	71.9	56.2	59.1	57.9	58.0	59.0	59.5	70.3	70.5	71.0	71.4	71.6	72.9	73.2	72.4	72.2	71.8	72.3	72.7	73.2	73.0	71.0	70.9	70.8	71.0	65.3
40	72.9	72.2	71.9	56.2	59.0	57.9	58.0	59.0	59.5	70.4	70.6	71.1	71.4	71.7	72.9	73.3	72.4	72.2	71.8	72.3	72.8	73.3	73.1	71.1	70.9	70.8	71.0	65.3
39	73.0	72.2	72.0	56.1	59.1	57.9	58.0	59.0	59.5	70.4	70.6	71.2	71.5	71.8	73.0	73.3	72.5	72.3	71.9	72.4	72.8	73.3	73.2	71.1	70.9	70.8	71.1	65.3
38	73.0	72.3	72.0	56.0	59.0	57.9	57.9	59.0	59.5	70.5	70.7	71.2	71.6	71.9	73.1	73.3	72.6	72.3	72.0	72.5	72.9	73.4	73.2	71.1	71.0	70.9	71.1	65.3
37	73.1	72.3	72.1	55.9	58.9	57.8	58.0	59.0	59.5	70.5	70.7	71.3	71.7	71.9	73.1	73.4	72.7	72.4	72.0	72.6	73.0	73.4	73.3	71.1	71.0	70.9	71.1	65.3
36	73.2	72.4	72.1	55.7	58.9	57.8	57.9	58.9	59.5	70.6	70.8	71.4	71.7	72.0	73.2	73.5	72.7	72.5	72.1	72.6	73.0	73.5	73.4	71.2	71.0	70.9	71.1	65.3
35	73.2	72.4	72.2	55.5	58.8	57.7	57.9	59.0	59.5	70.6	70.8	71.5	71.8	72.1	73.3	73.5	72.8	72.6	72.1	72.7	73.1	73.6	73.5	71.2	71.0	70.9	71.1	65.3
34	73.3	72.5	72.2	55.3	58.8	57.7	57.8	59.0	59.5	70.7	70.9	71.5	71.9	72.2	73.4	73.6	72.9	72.7	72.2	72.8	73.2	73.7	73.6	71.2	71.0	71.0	71.2	65.3
33	73.4	72.5	72.3	55.2	58.7	57.6	57.8	58.9	59.5	70.8	71.0	71.6	72.0	72.3	73.5	73.7	73.0	72.7	72.3	72.8	73.2	73.7	73.6	71.3	71.1	71.0	71.2	65.4
32	73.4	72.6	72.3	55.1	58.6	57.6	57.8	58.9	59.5	70.8	71.0	71.7	72.0	72.4	73.5	73.8	73.1	72.8	72.4	72.9	73.3	73.8	73.7	71.3	71.1	71.0	71.2	65.4
31	73.5	72.7	72.4	55.0	58.6	57.5	57.7	58.9	59.5	70.9	71.1	71.7	72.1	72.4	73.6	73.8	73.1	72.9	72.5	73.0	73.4	73.9	73.8	71.3	71.1	71.0	71.2	65.4
30	73.6	72.7	72.4	54.8	58.5	57.5	57.7	58.8	59.5	70.9	71.2	71.8	72.2	72.5	73.7	73.9	73.2	72.9	72.5	73.0	73.5	74.0	73.8	71.4	71.2	71.1	71.2	65.4
29	73.6	72.8	72.5	54.6	58.4	57.3	57.6	58.8	59.5	71.0	71.2	71.9	72.3	72.6	73.8	74.1	73.3	73.0	72.6	73.1	73.6	74.0	73.9	71.4	71.2	71.1	71.3	65.4
28	73.7	72.8	72.5	54.5	58.3	57.2	57.4	58.7	59.5	71.1	71.3	72.0	72.4	72.7	73.9	74.1	73.4	73.1	72.7	73.2	73.6	74.1	74.0	71.4	71.2	71.1	71.3	65.4
27	73.8	72.9	72.6	54.4	58.2	57.1	57.3	58.6	59.5	71.1	71.4	72.1	72.5	72.8	74.0	74.2	73.5	73.2	72.7	73.3	73.7	74.2	74.1	71.4	71.2	71.1	71.3	65.4
26	73.8	73.0	72.6	54.3	58.0	57.0	57.2	58.6	59.5	71.2	71.4	72.1	72.5	72.9	74.1	74.3	73.6	73.3	72.8	73.3	73.7	74.3	74.1	71.5	71.3	71.1	71.3	65.4
25	73.9	73.0	72.7	54.2	58.0	56.7	57.0	58.5	59.4	71.2	71.5	72.2	72.6	73.0	74.2	74.4	73.6	73.3	72.9	73.4	73.8	74.3	74.2	71.5	71.3	71.1	71.3	65.4
24	74.0	73.1	72.7	54.0	57.8	56.5	56.8	58.4	59.4	71.3	71.6	72.3	72.7	73.1	74.3	74.5	73.7	73.4	73.0	73.5	73.9	74.4	74.3	71.5	71.3	71.1	71.3	65.4
23	74.0	73.1	72.8	53.8	57.5	56.2	56.5	58.3	59.4	71.4	71.6	72.4	72.8	73.2	74.4	74.6	73.8	73.5	73.1	73.6	74.0	74.5	74.4	71.5	71.3	71.2	71.3	65.3
22																												
21	74.2	73.3	72.9	53.0	56.7	55.6	56.1	58.2	59.3	71.5	71.8	72.6	73.1	73.4	74.7	74.9	74.1	73.8	73.2	73.8	74.2	74.7	74.6	71.6	71.3	71.2	71.2	65.3
20	74.3	73.3	72.9	52.5	56.5	55.4	56.0	58.1	59.3	71.6	71.9	72.7	73.2	73.5	74.8	75.0	74.1	73.8	73.3	73.8	74.3	74.8	74.7	71.6	71.3	71.2	71.2	65.4
19	74.4	73.4	73.0	52.0	56.3	55.2	55.7	58.1	59.3	71.7	72.0	72.8	73.3	73.6	74.9	75.1	74.2	73.9	73.4	73.9	74.3	74.8	74.7	71.6	71.3	71.1	71.1	65.4
18	74.4	73.4	73.0	51.8	55.9	54.8	55.5	58.0	59.2	71.7	72.0	72.9	73.3	73.7	75.1	75.2	74.4	74.0	73.5	74.0	74.4	74.9	74.8	71.6	71.3	71.1	71.1	65.4
17	74.5	73.5	73.1	51.2	55.4	54.6	55.4	57.9	59.2	71.8	72.1	72.9	73.5	73.8	75.2	75.3	74.5	74.1	73.6	74.1	74.5	75.0	74.9	71.6	71.3	71.1	71.1	65.4
16	74.6	73.5	73.1	51.0	55.0	54.4	55.2	57.9	59.2	71.9	72.1	73.0	73.5	73.9	75.3	75.5	74.5	74.2	73.6	74.2	74.6	75.1	75.0	71.6	71.3	71.1	71.0	65.5
15	74.6	73.6	73.2	50.8	54.7	54.1	55.1	57.8	59.1	71.9	72.2	73.1	73.6	74.1	75.4	75.5	74.6	74.3	73.7	74.2	74.7	75.2	75.1	71.6	71.2	71.1	71.0	65.5
14	74.7	73.6	73.2	50.5	54.3	54.0	54.9	57.7	59.0	72.0	72.3	73.2	73.7	74.1	75.5	75.7	74.7	74.4	73.8	74.3	74.7	75.2	75.1	71.6	71.2	71.1	70.9	65.6
13	74.8	73.7	73.3	50.4	54.0	53.9	54.8	57.7	59.0	72.0	72.3	73.2	73.8	74.2	75.7	75.8	74.8	74.5	73.9	74.4	74.8	75.3	75.2	71.6	71.2	71.0	70.9	65.6
12	74.8	73.7	73.3	50.4	53.8	53.7	54.6	57.6	59.0	71.9	72.3	73.3	73.9	74.3	75.7	75.9	75.0	74.6	73.9	74.4	74.8	75.4	75.3	71.6	71.1	70.9	70.8	65.6
11	74.9	73.8	73.3	50.3	53.6	53.5	54.3	57.5	58.9	71.9	72.2	73.3	73.9	74.4	75.9	76.1	75.0	74.6	74.0	74.5	74.9	75.4	75.3	71.5	71.1	70.9	70.7	65.7
10	75.0	73.8	73.4	50.1	53.3	53.3	54.2	57.3	58.8	71.8	72.1	73.3	73.9	74.5	76.0	76.2	75.1	74.7	74.1	74.6	75.0	75.5	75.4	71.4	71.0	70.7	70.6	65.6
9	75.0	73.9	73.4	50.0	52.9	53.0	53.8	57.3	58.7	71.6	71.9	73.1	73.9	74.5	76.0	76.3	75.2	74.8	74.1	74.6	75.0	75.6	75.5	71.3	70.9	70.6	70.5	65.6
8	75.1	73.9	73.4	50.0	52.3	52.6	53.4	57.0	58.5	71.3	71.6	73.0	73.9	74.4	76.1	76.5	75.3	74.9	74.0	74.5	75.0	75.6	75.5	71.3	70.8	70.5	70.4	65.4
7	75.1	73.9	73.4	50.0	51.1	52.1	52.5	56.4	58.1	71.0	71.4	72.8	73.7	74.4	76.1	76.6	75.4	74.9	73.9	74.4	74.9	75.5	75.4	71.1	70.7	70.4	70.2	65.3
6	75.2	73.9	73.3	49.9	50.3	51.4	51.4	55.7	57.6	70.6	71.1	72.5	73.5	74.3	76.1	76.7	75.4	74.7	73.9	74.4	74.9	75.5	75.4	70.9	70.6	70.4	70.1	65.1
5	75.2	73.7	72.7	49.6	49.6	49.9	50.1	55.1	57.2	70.0	70.7	72.0	73.0	74.0	76.2	76.8	74.9	74.4	73.8	74.3	74.8	75.5	75.4	70.8	70.4	70.0	69.7	64.5
4	75.1	71.9	71.2	48.0	48.6	47.3	47.7	54.0	56.2	69.2	69.8	71.0	71.8	72.5	75.8	76.7	74.1	74.0	73.8	74.4	74.8	75.4	75.1	70.3	68.9	68.5	68.4	63.6
Max	75.2	73.9	73.4	56.4	59.2	58.1	58.0	59.0	59.5	72.0	72.3	73.3	73.9	74.5	76.2	76.8	75.4	74.9	74.1	74.6	75.0	75.6	75.5	71.6	71.3	71.2	71.3	65.7
Min	72.7	71.9	71.2	48.0	48.6	47.3	47.7	54.0	56.2	69.2	69.8	70.8	71.1	71.4	72.6	72.9	72.1	71.9	71.5	72.0	72.4	72.9	72.8	70.3	68.9	68.5	68.4	63.6

# Total Flats	1927
Exceedance	869
Compliance Rate	54.9%

Noise sensitive receivers with exceedance (≥70.5 dB(A))

Remark: R111a, R113a, R115a, R214a, R216a, R218a are not used.

Floor	R206m ax	R207m ax	R208m ax	R209m ax	R210m ax	R211m ax	R212m ax	R213m ax	R214m ax	R215m ax	R216m ax	R217m ax	R218m ax	R219m ax	R220m ax	R221m ax	R222m ax	R223m ax	R224m ax
45	66.0	65.9	65.0	65.0	65.6	66.1	67.3	69.5	69.0	69.0	69.0	69.5	69.6	63.4	63.8	64.4	65.2	65.3	59.4
44	66.1	65.9	65.1	65.0	65.6	66.1	67.4	69.5	69.0	69.0	69.0	69.5	69.7	63.5	63.9	64.4	65.2	65.4	59.4
43	66.1	65.9	65.1	65.0	65.6	66.2	67.4	69.6	69.0	69.0	69.1	69.6	69.7	63.5	63.9	64.5	65.2	65.4	59.5
42	66.1	66.0	65.1	65.0	65.7	66.2	67.4	69.6	69.1	69.1	69.1	69.6	69.8	63.5	63.9	64.5	65.3	65.5	59.5
41	66.1	66.0	65.1	65.0	65.7	66.2	67.5	69.6	69.1	69.1	69.2	69.7	69.8	63.6	64.0	64.6	65.3	65.5	59.6
40	66.2	66.0	65.1	65.1	65.7	66.3	67.5	69.6	69.2	69.2	69.2	69.7	69.8	63.6	64.0	64.6	65.4	65.6	59.6
39	66.2	66.0	65.1	65.1	65.7	66.3	67.5	69.7	69.2	69.2	69.2	69.8	69.9	63.7	64.1	64.6	65.5	65.6	59.6
38	66.2	66.0	65.2	65.1	65.7	66.3	67.6	69.7	69.3	69.2	69.3	69.8	69.9	63.7	64.1	64.7	65.5	65.6	59.7
37	66.2	66.0	65.1	65.1	65.7	66.3	67.6	69.8	69.3	69.3	69.3	69.9	70.0	63.8	64.2	64.7	65.6	65.7	59.7
36	66.2	66.0	65.1	65.0	65.7	66.3	67.6	69.8	69.3	69.3	69.4	69.9	70.0	63.8	64.2	64.8	65.6	65.7	59.7
35	66.2	66.0	65.1	65.0	65.7	66.4	67.6	69.8	69.4	69.4	69.4	69.9	70.1	63.8	64.2	64.8	65.6	65.8	59.7
34	66.2	66.0	65.1	65.0	65.7	66.4	67.7	69.9	69.4	69.4	69.5	70.0	70.1	63.9	64.3	64.9	65.7	65.8	59.8
33	66.2	66.0	65.1	64.9	65.7	66.4	67.7	69.9	69.5	69.5	69.5	70.0	70.2	63.9	64.3	64.9	65.7	65.9	59.8
32	66.3	66.0	65.1	64.9	65.7	66.4	67.7	70.0	69.5	69.5	69.6	70.1	70.2	64.0	64.4	65.0	65.8	65.9	59.8
31	66.3	66.0	65.0	64.9	65.6	66.4	67.8	70.0	69.6	69.6	69.6	70.1	70.2	64.0	64.4	65.0	65.8	66.0	59.8
30	66.3	66.0	65.0	64.8	65.6	66.4	67.8	70.1	69.6	69.6	69.7	70.2	70.3	64.0	64.4	65.1	65.8	66.0	59.9
29	66.3	66.0	64.9	64.7	65.6	66.3	67.8	70.1	69.7	69.7	69.7	70.2	70.4	64.1	64.5	65.1	65.9	66.1	59.9
28	66.3	65.9	64.8	64.7	65.6	66.3	67.8	70.1	69.7	69.7	69.8	70.3	70.4	64.1	64.5	65.1	65.9	66.1	59.9
27	66.3	65.9	64.7	64.6	65.5	66.3	67.8	70.2	69.8	69.8	69.8	70.3	70.5	64.1	64.6	65.2	66.0	66.2	59.8
26	66.2	65.8	64.6	64.4	65.4	66.3	67.8	70.2	69.8	69.8	69.9	70.4	70.5	64.2	64.6	65.2	66.0	66.2	59.9
25	66.2	65.8	64.5	64.4	65.3	66.2	67.8	70.3	69.9	69.8	69.9	70.4	70.6	64.2	64.6	65.2	66.1	66.2	59.8
24	66.1	65.7	64.5	64.3	65.3	66.2	67.9	70.3	69.9	69.9	69.9	70.5	70.6	64.3	64.7	65.3	66.1	66.3	59.8
23	66.1	65.7	64.4	64.2	65.3	66.2	67.9	70.3	70.0	69.9	70.0	70.5	70.7	64.3	64.7	65.3	66.1	66.3	59.8
22																			
21	66.1	65.6	64.3	64.2	65.1	66.1	67.9	70.4	70.0	70.0	70.1	70.7	70.9	64.4	64.8	65.4	66.2	66.4	59.9
20	66.1	65.6	64.3	64.1	65.1	66.0	67.9	70.4	70.1	70.1	70.1	70.7	70.9	64.4	64.8	65.4	66.3	66.4	59.9
19	66.1	65.6	64.3	64.1	65.1	66.0	68.0	70.4	70.1	70.1	70.1	70.8	71.0	64.4	64.8	65.4	66.3	66.4	59.9
18	66.2	65.7	64.3	64.1	65.1	66.0	67.9	70.4	70.1	70.1	70.2	70.8	71.0	64.4	64.8	65.5	66.3	66.5	59.9
17	66.2	65.7	64.3	64.1	65.0	66.0	68.0	70.4	70.2	70.1	70.2	70.8	71.0	64.5	64.9	65.5	66.4	66.5	59.9
16	66.2	65.8	64.3	64.1	65.0	66.0	68.0	70.4	70.2	70.2	70.2	70.9	71.1	64.5	64.9	65.5	66.4	66.5	59.9
15	66.3	65.8	64.4	64.1	65.0	66.0	68.0	70.3	70.2	70.2	70.2	70.9	71.1	64.5	64.9	65.5	66.4	66.6	59.9
14	66.3	65.9	64.4	64.1	65.1	66.0	68.1	70.3	70.1	70.1	70.2	70.9	71.1	64.6	65.0	65.6	66.4	66.6	60.0
13	66.4	65.9	64.4	64.2	65.1	65.9	68.1	70.1	70.1	70.1	70.2	70.9	71.2	64.6	65.0	65.6	66.5	66.6	60.0
12	66.5	66.0	64.4	64.1	65.1	66.0	68.2	70.0	70.0	70.0	70.2	70.9	71.1	64.6	65.0	65.6	66.5	66.6	59.9
11	66.5	66.0	64.4	64.1	65.1	65.9	68.1	69.8	69.9	69.9	70.1	70.9	71.1	64.6	65.0	65.6	66.5	66.6	59.8
10	66.5	65.9	64.4	64.1	65.1	65.9	68.2	69.7	69.7	69.8	70.0	70.9	71.1	64.6	65.1	65.7	66.5	66.6	59.5
9	66.5	65.9	64.4	64.0	65.1	66.0	68.1	69.5	69.6	69.7	69.8	70.7	70.9	64.6	65.0	65.6	66.5	66.5	58.9
8	66.4	65.9	64.3	64.0	65.1	66.0	67.9	69.3	69.4	69.5	69.6	70.4	70.6	64.5	64.8	65.4	66.3	66.3	57.4
7	66.4	65.9	64.4	64.0	65.1	65.9	67.6	69.0	69.1	69.1	69.1	69.9	70.1	64.2	64.5	65.1	65.9	65.9	54.5
6	66.4	65.9	64.3	64.0	65.2	65.8	67.1	68.6	68.6	68.5	68.2	69.1	69.3	63.7	63.9	64.6	65.4	65.2	51.6
5	66.3	65.9	64.3	63.9	64.9	65.4	65.9	67.9	67.7	67.5	67.3	68.3	68.6	62.9	63.5	64.3	65.1	64.6	49.4
4	66.0	65.8	64.2	60.9	61.4	61.9	64.3	67.1	66.6	66.5	66.5	67.5	67.9	62.1	63.0	63.2	64.0	62.5	47.8
Max	66.5	66.0	65.2	65.1	65.7	66.4	68.2	70.4	70.2	70.2	70.2	70.9	71.2	64.6	65.1	65.7	66.5	66.6	60.0
Min	66.0	65.6	64.2	60.9	61.4	61.9	64.3	67.1	66.6	66.5	66.5	67.5	67.9	62.1	63.0	63.2	64.0	62.5	47.8

Noise sensitive receivers with exceedance (≥70.5 dB(A))

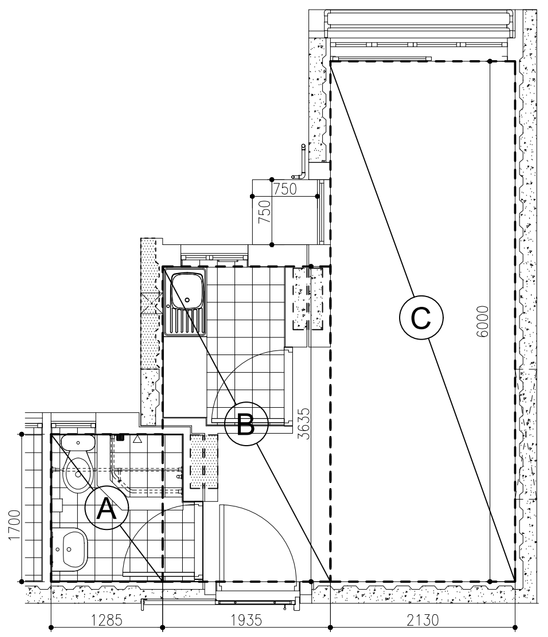
Remark: R111a, R113a, R115a, R214a, R216a, R218a are not used.

Appendix 4.5

Configurations of the proposed acoustic window

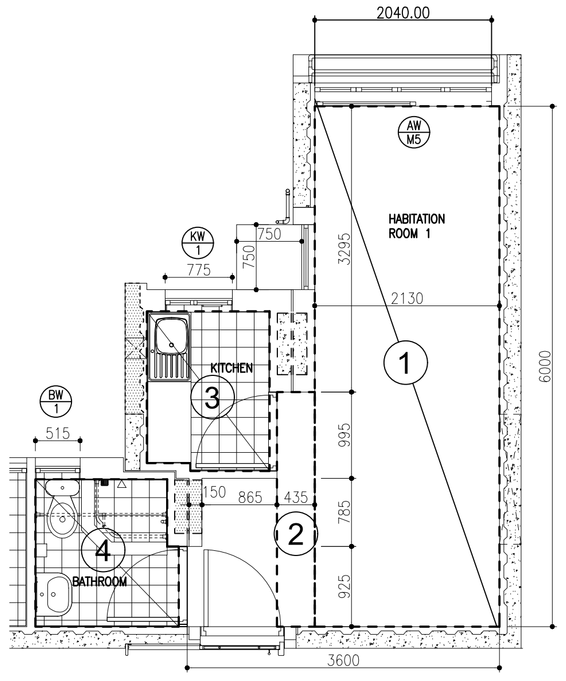
CALCULATION OF IFA

(FOR ICU REFERENCE)



	PORTION	CALCULATION (m^2)	AREA (m^2)
IFA	A	1.285 X 1.700	2.185
	B	1.935 X 3.635	7.034
	C	2.130 X 6.000	12.780
		21.999m^2	

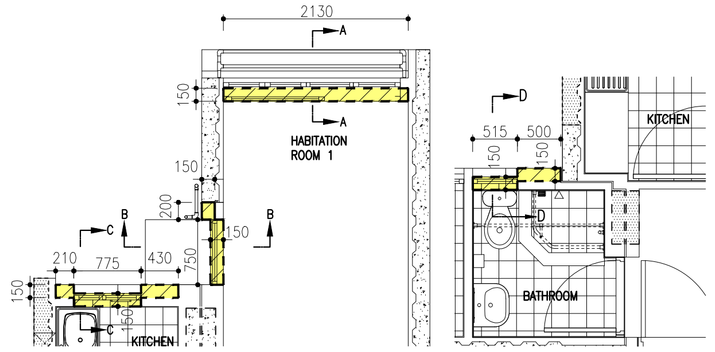
CALCULATION OF GLAZING AREA



LOCATION	PORTION	HABITATION FLOOR AREA (m^2)	AREA REQUIRED (m^2)			AREA PROVIDED (m^2)
HABITATION ROOM 1	1 & 2 (AW–M5)	13.957	GLAZING	1/10	1.396	1.827
			OPENABLE	1/16	0.872	1.005
KITCHEN	3 (KW1)	2.559	GLAZING	1/10	0.256	0.679
			OPENABLE	1/16	0.160	0.416
BATHROOM	4 (BW1)	2.706	GLAZING	1/10	0.271	0.410
			OPENABLE	1/10	0.271	0.413

CALCULATION OF NON-STRUCTURAL PREFABRICATED EXTERNAL WALL AREA

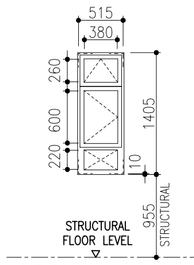
(SUBJECT TO COMPLIANCE WITH THE PRE-REQUISITES AND THE OVERALL CAP ON GFA CONCESSIONS STIPULATED IN PNAP APP-151)



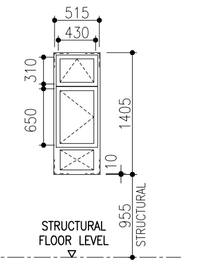
NON–STRUCTURAL PREFABRICATED EXTERNAL WALL AREA TO BE EXEMPTED FROM GFA AND SC CALCULATION	LOCATION	AREA (m^2)
	HABITATION ROOM 1	0.320+0.142=0.462
	KITCHEN	0.212
	BATHROOM	0.152
	TOTAL:	0.826m^2

* SECTION REFER TO MF/MIC/AW/MW/A/ICU906

CALCULATION OF GLAZING AREA



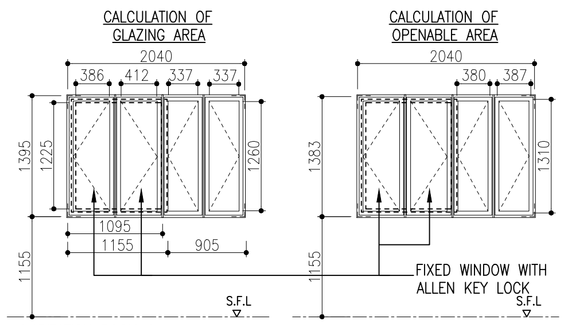
CALCULATION OF OPENABLE AREA



BATHROOM

MARK :	BW–1
GLAZING AREA :	(0.380x0.260)+(0.380x0.600)+(0.380x0.220) = 0.410m^2
OPENABLE AREA :	(0.430x0.310)+(0.430x0.650) = 0.413m^2

CALCULATION OF GLAZING AREA

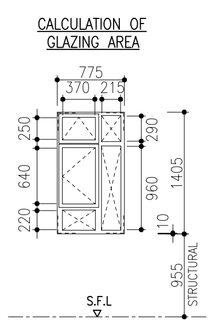


CALCULATION OF OPENABLE AREA

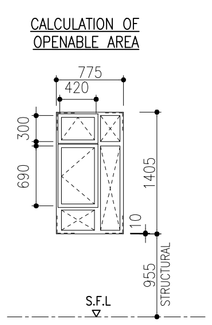
HABITATION ROOM 1

WINDOW MARK :	AW–M5
GLAZING AREA :	0.386x1.225+0.412x1.225+0.337x1.260 +0.337x1.260 = 1.827m^2
OPENABLE AREA :	0.380x1.310+0.387x1.310 = 1.005m^2

CALCULATION OF GLAZING AREA



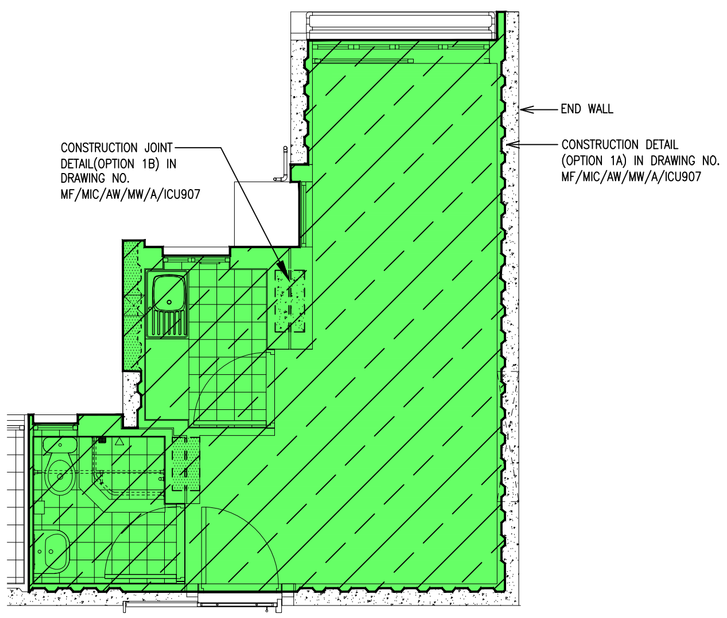
CALCULATION OF OPENABLE AREA



KITCHEN

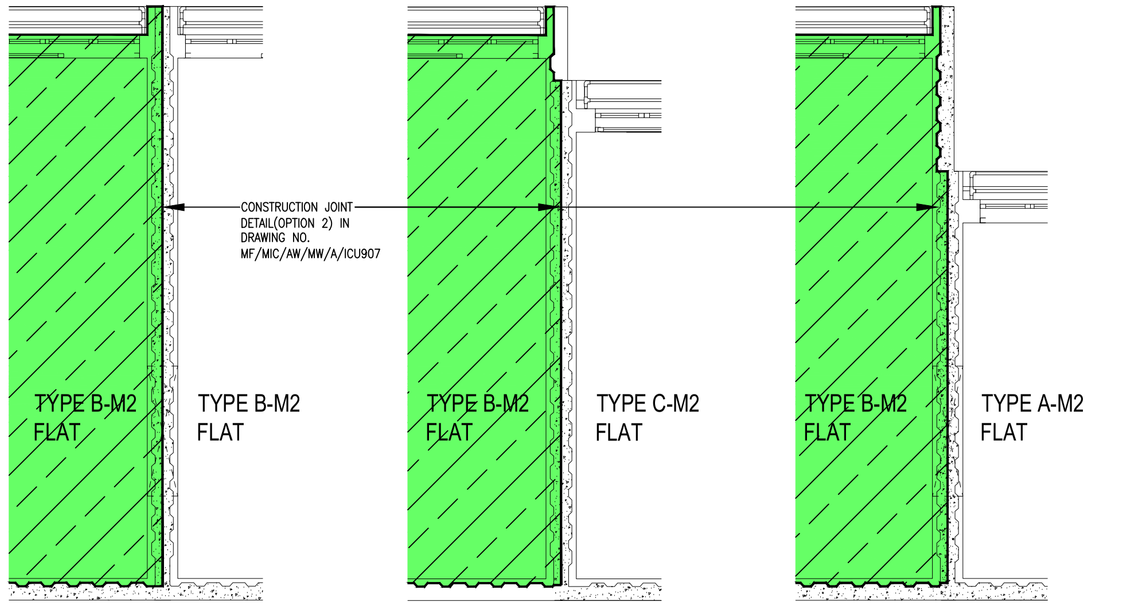
MARK :	KW–1
GLAZING AREA :	(0.370x0.250)+(0.370x0.640)+(0.370x0.220)+(0.215x0.290)+(0.215x0.960) = 0.679m^2
OPENABLE AREA :	(0.420x0.300)+(0.420x0.690) = 0.416m^2

CALCULATION OF MiC FLOOR AREA



WALL CONNECTING TO	MiC FLOOR AREA (m^2)	10% OF THE MiC FLOOR AREA TO BE DISREGARDED FROM GFA (m^2)
END WALL	24.841	24.841 X 10% = 2.484
TYPE A–M2 FLAT	25.348	25.348 X 10% = 2.534
TYPE B–M2 FLAT	25.550	25.550 X 10% = 2.555
TYPE C–M2 FLAT	25.465	25.465 X 10% = 2.546

* REFER TO NOTES NO.4–6

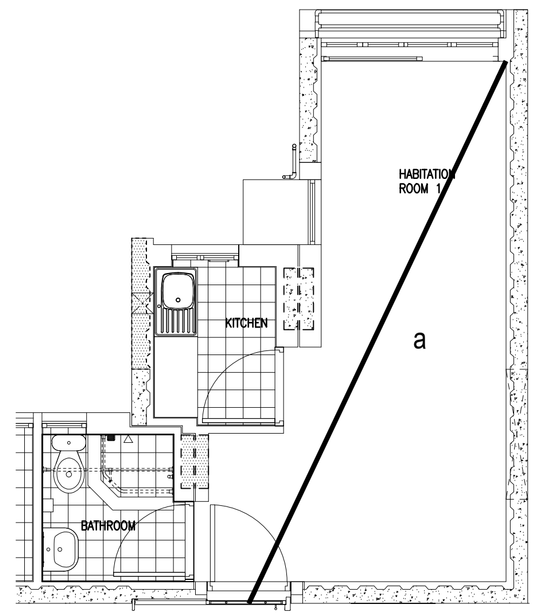


PART PLAN OF WALL CONNECTING TO ADJOINING TYPE B-M2 MIC MODULE

PART PLAN OF WALL CONNECTING TO ADJOINING TYPE C-M2 MIC MODULE

PART PLAN OF WALL CONNECTING TO ADJOINING TYPE A-M2 MIC MODULE

CALCULATION OF DEADEND TRAVEL DISTANCE



DEADEND TRAVEL DISTANCE (UNDER FS CODE 2011) FOR TYPE B-M2 FLAT AT A RANGE OF

a = 6.917 ≤ 24m (UNDER FS CODE 2011 CLAUSE B11.2 (a)(i))

PLAN OF ACOUSTIC WINDOW (AW–M5)

SCALE 1:25

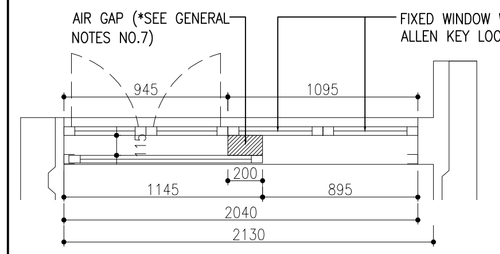
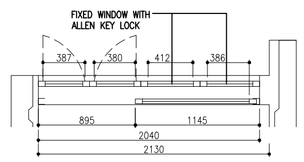


DIAGRAM OF ACOUSTIC WINDOW (AW–M5) FOR CALCULATION OF OPENABLE/GLAZING AREA

SCALE 1:40 (FOR REFERENCE ONLY)



LEGEND:

IFA - INTERNAL FLOOR AREA

FS CODE - CODE OF PRACTICE FOR FIRE SAFETY IN BUILDINGS

CONSTRUCTION JOINT/ IN-SITU CONCRETE WALL (FULL HEIGHT)

CONSTRUCTION JOINT/ IN-SITU CONCRETE WALL (BOTTOM PORTION ONLY)

MiC FLOOR AREA

NON-STRUCTURAL PREFABRICATED EXTERNAL WALL (NON-LOADING BEARING WALL COMPLIED WITH JPN-2)

GENERAL NOTES

1. THIS DRAWING SHOWS THE TRAVEL DISTANCE AND DEADEND TO STAIRCASE FOR TYPE B-M2 FLAT(S) WITH NOTIONAL PARTITION ONLY. ANY OTHER INFORMATION OF FLOOR LAYOUT PLAN SHOULD REFER TO OTHER RELEVANT ICU APPROVED GENERAL BUILDING PLAN (GBP) FOR THE PROJECT.
2. TYPE B-M2 FLAT(S) ARE FLAT NO. (*project basis information*) AT BLOCK (*project basis information*).
3. ALL ELEVATIONS OF WINDOWS ARE VIEWED FROM OUTSIDE.
4. THE GRANTING OF GFA CONCESSION REGARDING GREEN & INNOVATIVE FEATURES UNDER JPNs (i.e. MODULAR INTEGRATED CONSTRUCTION) IS SUBJECT TO COMPLIANCE WITH THE CRITERIA STIPULATED IN JPN 8 .
5. ESSENTIAL INFORMATION OF THE MIC SYSTEM AS LISTED IN PNAP ADV-36 SHALL BE SUBMITTED SEPARATELY AND THE ACCEPTANCE OF SUCH BY THE ICU SHALL BE OBTAINED BEFORE THE COMMENCEMENT OF THE MODULAR UNIT PRODUCTION WORK IN THE PREFABRICATION FACTORY.
6. A QUALITY ASSURANCE SCHEME AND AN MIC SUPERVISION PLAN SHALL BE PREPARED IN ACCORDANCE WITH PNAP ADV-36 AND SUBMITTED AT LEAST 14 DAYS BEFORE THE COMMENCEMENT OF THE MODULAR UNIT PRODUCTION WORK IN THE PREFABRICATION FACTORY.
7. ACCORDING TO PNAP APP-130, PARA. 6 OF APPENDIX A, THE WIDTH OF AIR GAP IS BETWEEN 100mm TO 175mm, THE LENGTH OF AIR GAP IS NOT LESS THAN 100mm.

ICU Pre-accepted Typical Architectural Details

Pre-accepted Memo Date: 04/11/2022

Pre-accepted Drawing No.: MF/MIC/AW/MW/A/ICU902

ICU Ref.: MFD/2022/3

The works shown on this plan are ICU pre-accepted typical architectural details in respect of which the identical details * (except the content as bounded by ----------) are reproduced herewith for approval on project basis.

* *Delete where appropriate*

ICU Ref. : HD(ICU) STD-EPS

Signature of Applicant (HD / PSP) :

ICU Submission By

ORIGINAL SIGNED

YIP SHING LAM
C/AD&S
Date : 31-10-2022

ICU Approval Signature :

PLAN PRE-ACCEPTED

ORIGINAL SIGNED

YEUNG Kwok-po, Michael
Chief Maintenance Surveyor/ICU
Independent Checking Unit
Date : 04-11-2022

Signature for Record Plan :

REVISIONS

NO	DESCRIPTION AND DATE	INITIAL AND DESIGNATION DWN	CKD	AUTH

	NAME AND DESIGNATION	INITIAL	DATE
AUTHORISED	SHERMAN S L YIP C/A D&S	ORIGINAL SIGNED	11/2022
CHECKED	JO NGAI SA/27	ORIGINAL SIGNED	11/2022
	KARIN LEUNG A/38	ORIGINAL SIGNED	11/2022
	H.M. WONG STO(A)/7	ORIGINAL SIGNED	11/2022
DRAWN	THEO TSOI TO(A)/15	ORIGINAL SIGNED	11/2022

PROJECT

MODULAR FLAT DESIGN
(MODULAR INTEGRATED CONSTRUCTION)

DRAWING TITLE

TYPE B-M2 FLAT - CALCULATION OF MiC AREA, GLAZING AREA AND DEADEND TRAVEL DISTANCE

SCALE 1:50

DRAWING NO.

MF/MIC/AW/MW/A/ICU902

SOURCE

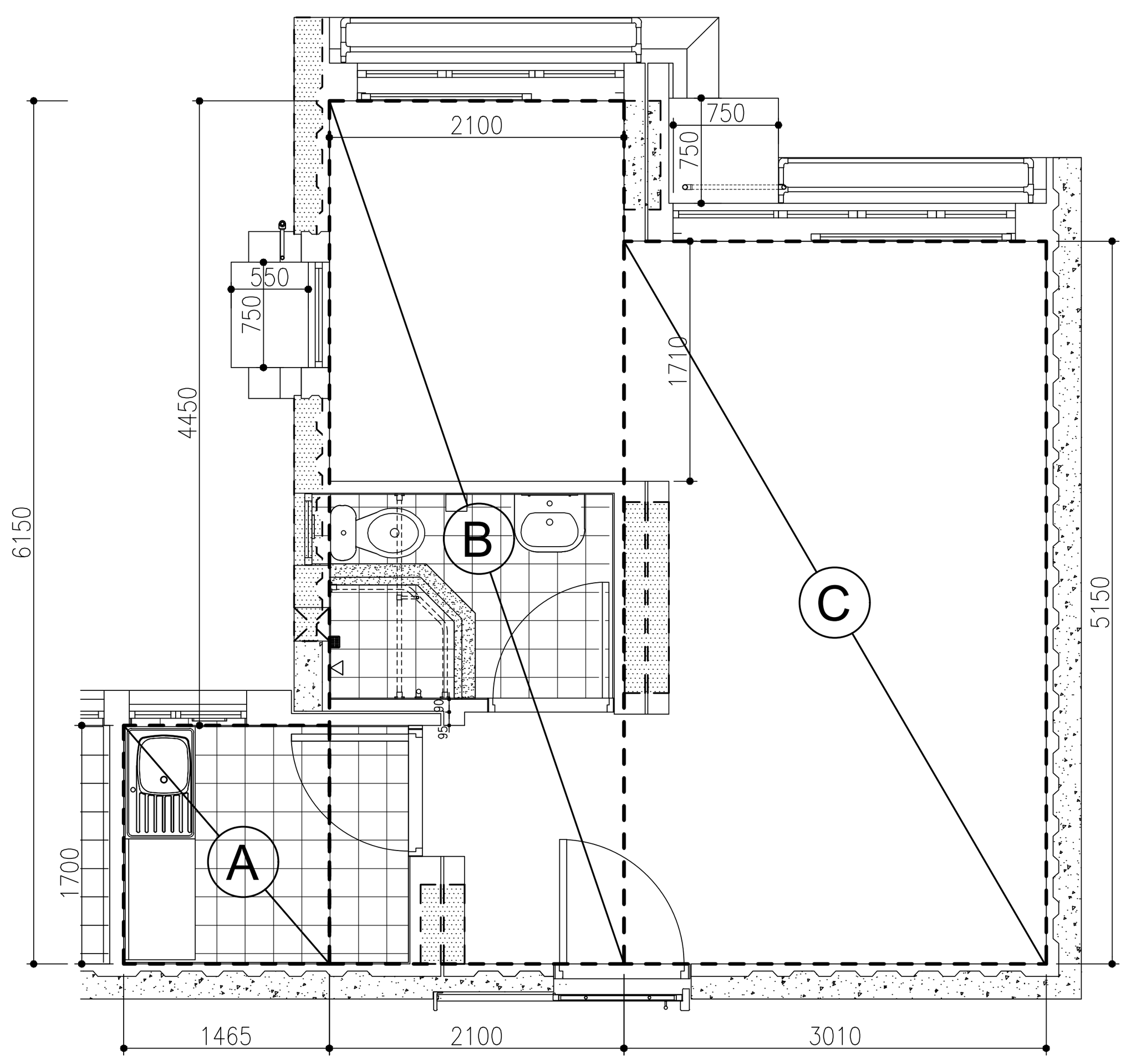
ICU NO.

AutoCAD 2000 A1 594 x 841

HOUSING DEPARTMENT

ICU Ref. : HD(ICU) STD-EPS

CALCULATION OF IFA
(FOR ICU REFERENCE)



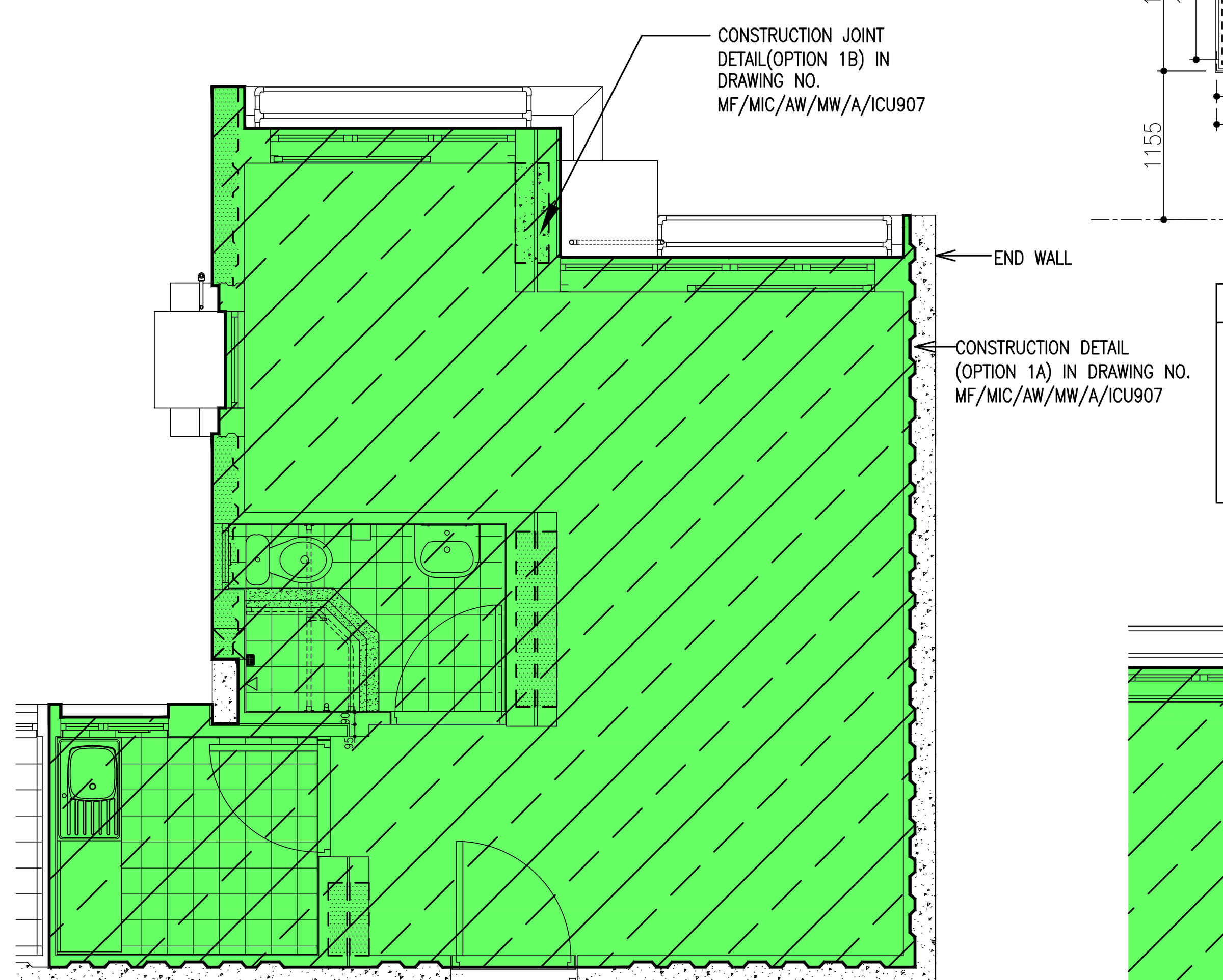
IFA	PORTION	CALCULATION (m^2)	AREA (m^2)
	A	1.465 X 1.700	2.491
	B	2.100 X 6.150	12.915
	C	3.010 X 5.150	15.502
		30.908m^2	

CALCULATION OF NOTIONAL PARTITION

IFA (m^2) (A)	THE MAXIMUM AGGREGATE LENGTH OF THE ADDITIONAL BLOCK WALL (m) (A)/10 = (B)	TOTAL ADDITIONAL WALL LENGTH (EXCLUDED 1x700mm WIDTH DOOR) (m)
30.908	3.091	(1.710 − 0.700) = 1.010 < (B)

* REFER TO NOTES NO.5 & 6

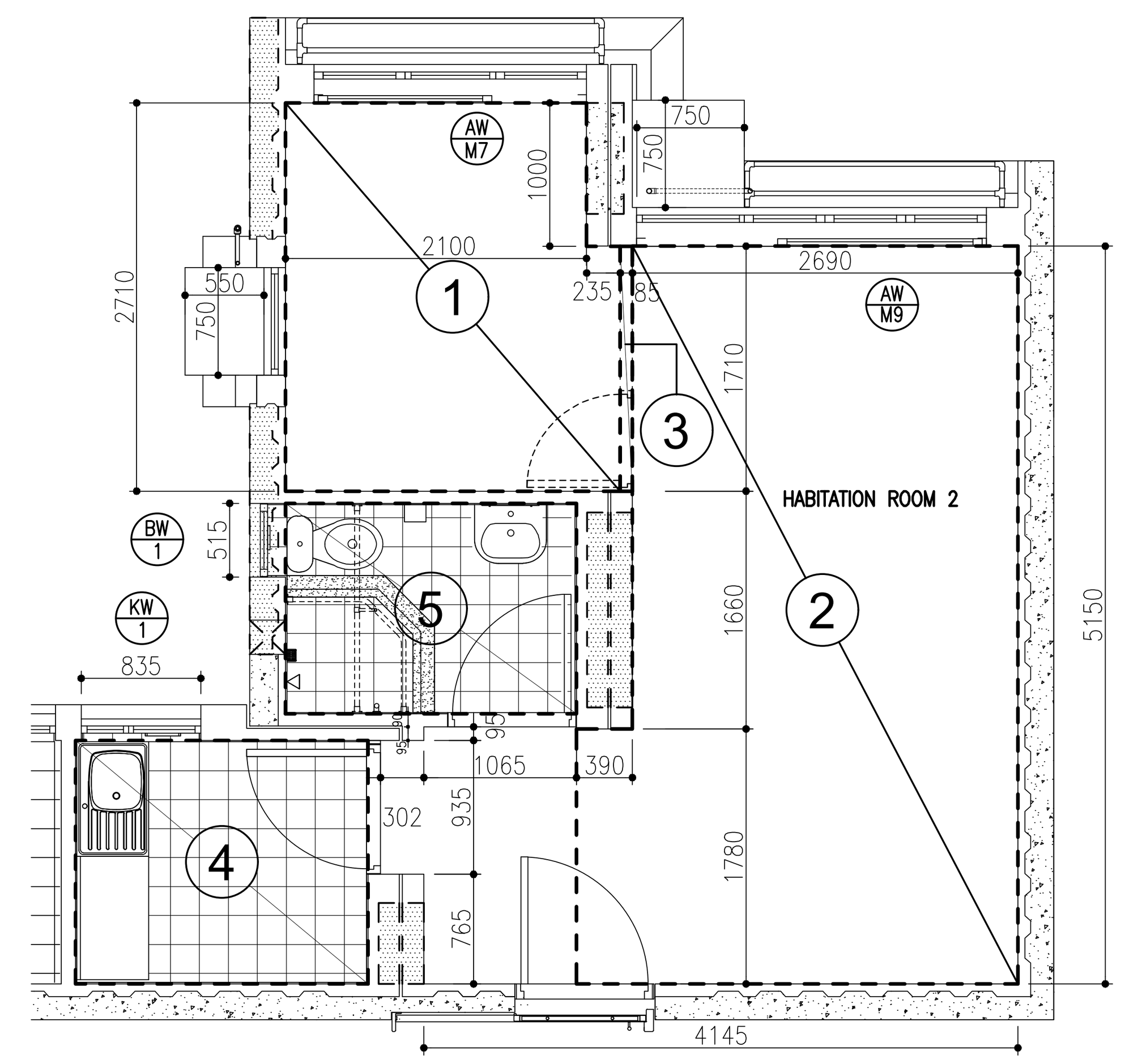
CALCULATION OF MiC FLOOR AREA



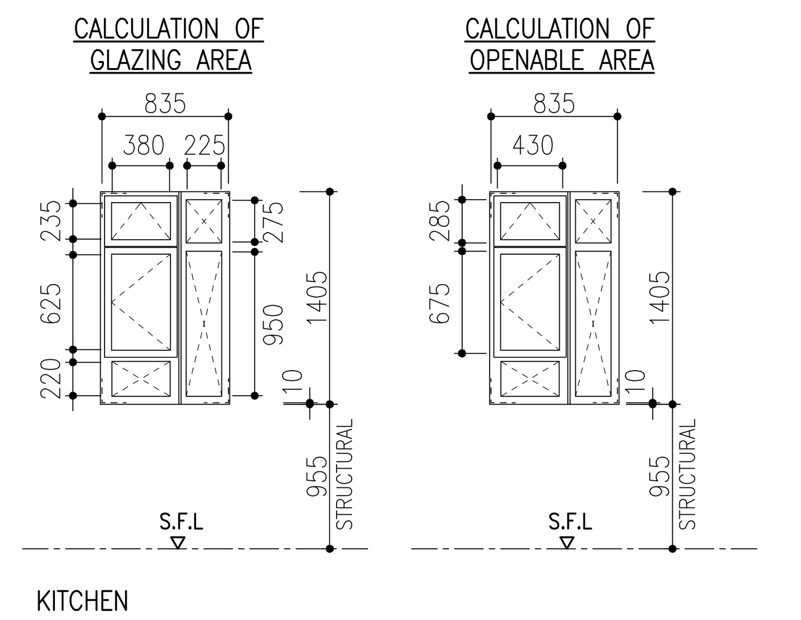
WALL CONNECTING TO	MiC FLOOR AREA (m^2)	10% OF THE MiC FLOOR AREA TO BE DISREGARDED FROM GFA (m^2)
END WALL	34.900	34.900 X 10% = 3.490
TYPE A-M2 FLAT	35.412	35.412 X 10% = 3.541
TYPE B-M2 FLAT	35.531	35.531 X 10% = 3.553
TYPE C-M3 FLAT	35.531	35.531 X 10% = 3.553

* REFER TO NOTES NO.7–9

CALCULATION OF GLAZING AREA

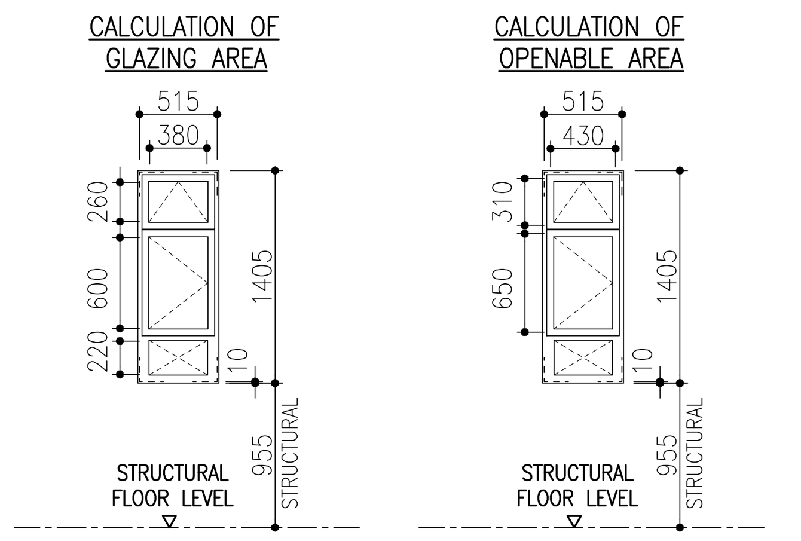


LOCATION	PORTION	HABITATION FLOOR AREA (m^2)	AREA REQUIRED (m^2)			AREA PROVIDED (m^2)
HABITATION ROOM 1	1 (AW-M7)	6.094	GLAZING	1/10	0.609	1.812
			OPENABLE	1/16	0.381	0.718
HABITATION ROOM 2	2 (AW-M9)	14.547	GLAZING	1/10	1.455	1.714
			OPENABLE	1/16	0.909	1.121
HABITATION ROOM 1&2	1, 2 & 3 (AW-M7 & AW-M9)	(6.094+14.547 +0.145) =20.786	GLAZING	1/10	2.079	(1.812+1.714) =3.526
			OPENABLE	1/16	1.299	(0.718+1.121) =1.839
KITCHEN	4 (KW1)	3.468	GLAZING	1/10	0.347	0.686
			OPENABLE	1/16	0.217	0.413
BATHROOM	5 (BW1)	2.984	GLAZING	1/10	0.298	0.410
			OPENABLE	1/10	0.298	0.413



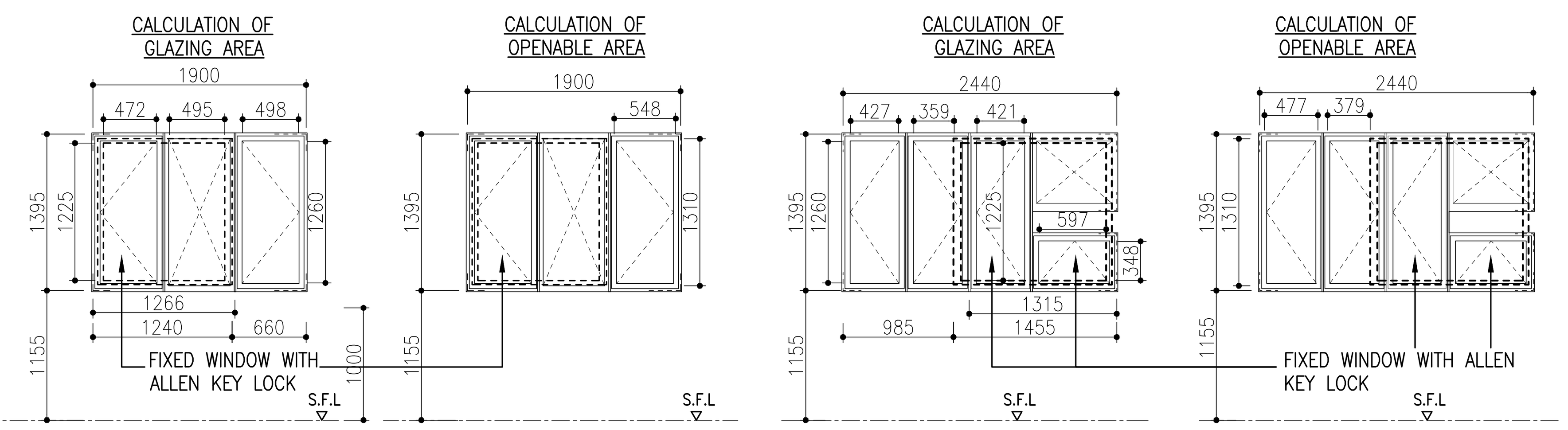
KITCHEN

MARK :	KW-1
GLAZING AREA :	(0.380x0.235)+(0.380x0.625)+(0.380x0.220)+(0.225x0.275)+(0.225x0.950) = 0.686m^2
OPENABLE AREA :	(0.430x0.285)+(0.430x0.675) = 0.413m^2



BATHROOM

MARK :	BW-1
GLAZING AREA :	(0.380x0.260)+(0.380x0.600)+(0.380x0.220) = 0.410m^2
OPENABLE AREA :	(0.430x0.310)+(0.430x0.650) = 0.413m^2

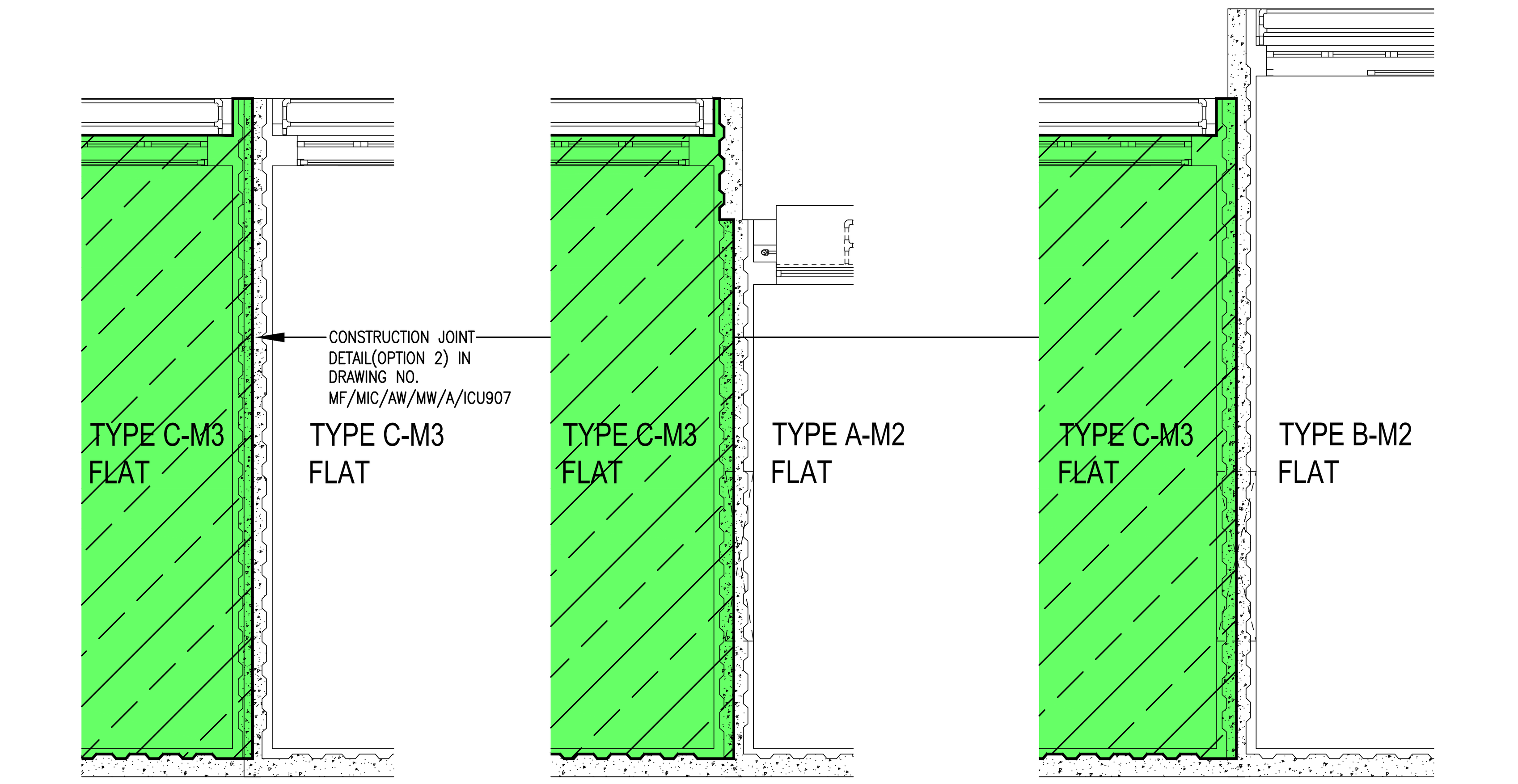


HABITATION ROOM 1

WINDOW MARK :	AW-M7
GLAZING AREA :	0.472x1.225+0.495x1.225+0.498x1.260 = 1.812m^2
OPENABLE AREA :	0.548x1.310 = 0.718m^2

HABITATION ROOM 2

WINDOW MARK :	AW-M9
GLAZING AREA :	0.427x1.260+0.359x1.260+0.421x1.225+0.597x0.348 = 1.714m^2
OPENABLE AREA :	0.477x1.310+0.379x1.310 = 1.121m^2

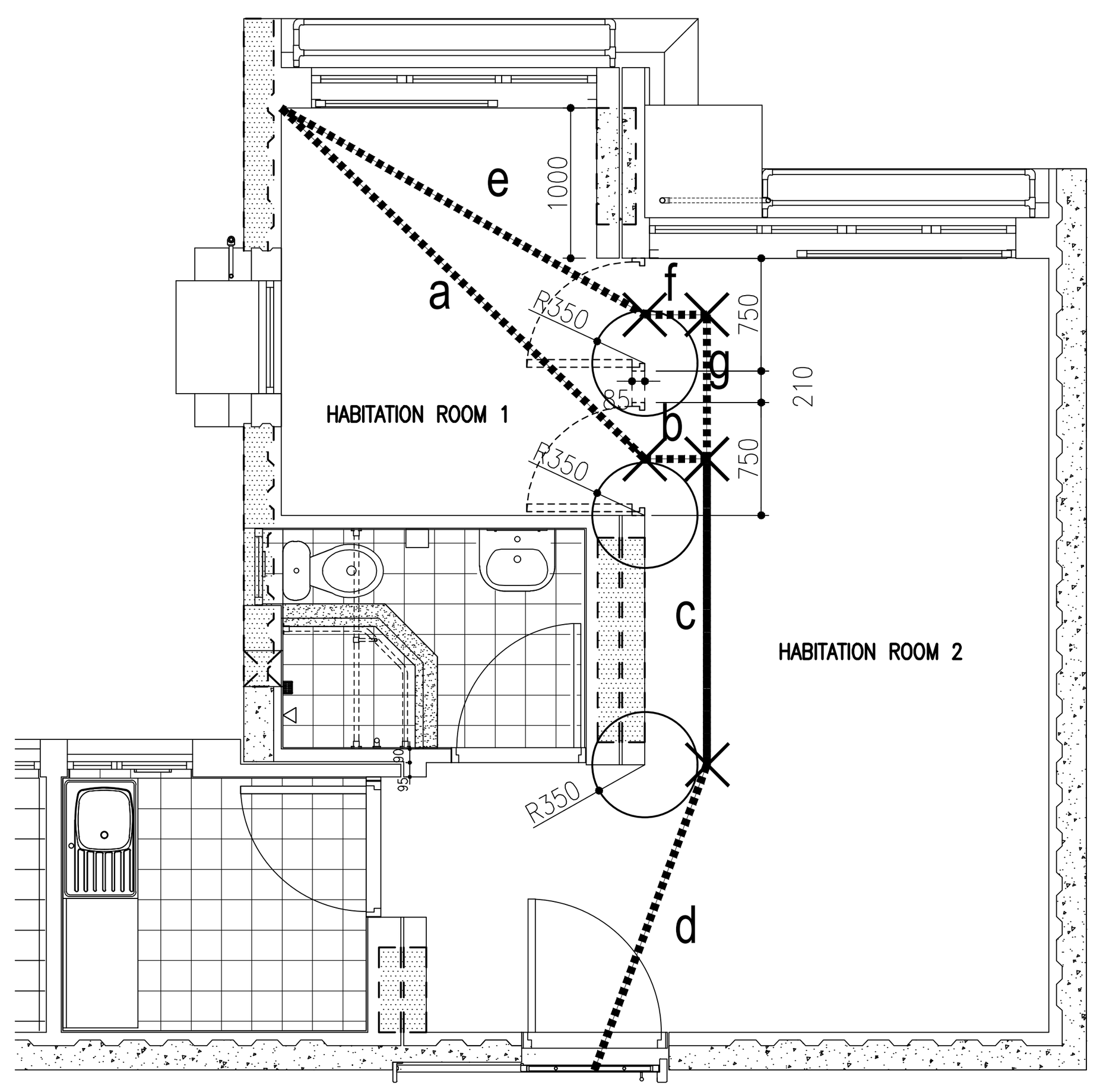


PART PLAN OF WALL CONNECTING TO ADJOINING TYPE C-M3 MIC MODULE

PART PLAN OF WALL CONNECTING TO ADJOINING TYPE A-M2 MIC MODULE

PART PLAN OF WALL CONNECTING TO ADJOINING TYPE B-M2 MIC MODULE

CALCULATION OF DEADEND TRAVEL DISTANCE



LEGEND:

- IFA - INTERNAL FLOOR AREA
- FS CODE - CODE OF PRACTICE FOR FIRE SAFETY IN BUILDINGS
- NOTIONAL PARTITIONS WITH NOTIONAL DOOR OPENINGS
- CONSTRUCTION JOINT/ IN-SITU CONCRETE WALL (FULL HEIGHT)
- CONSTRUCTION JOINT/ IN-SITU CONCRETE WALL (BOTTOM PORTION ONLY)
- MiC FLOOR AREA

ICU Pre-accepted Typical Architectural Details
Pre-accepted Memo Date: 04/11/2022
Pre-accepted Drawing No.: MF/MIC/AW/MW/A/ICU904
ICU Ref.: MFD/2022/3
The works shown on this plan are ICU pre-accepted typical architectural details in respect of which the identical details * (except the content as bounded by) are reproduced herewith for approval on project basis.
* Delete where appropriate

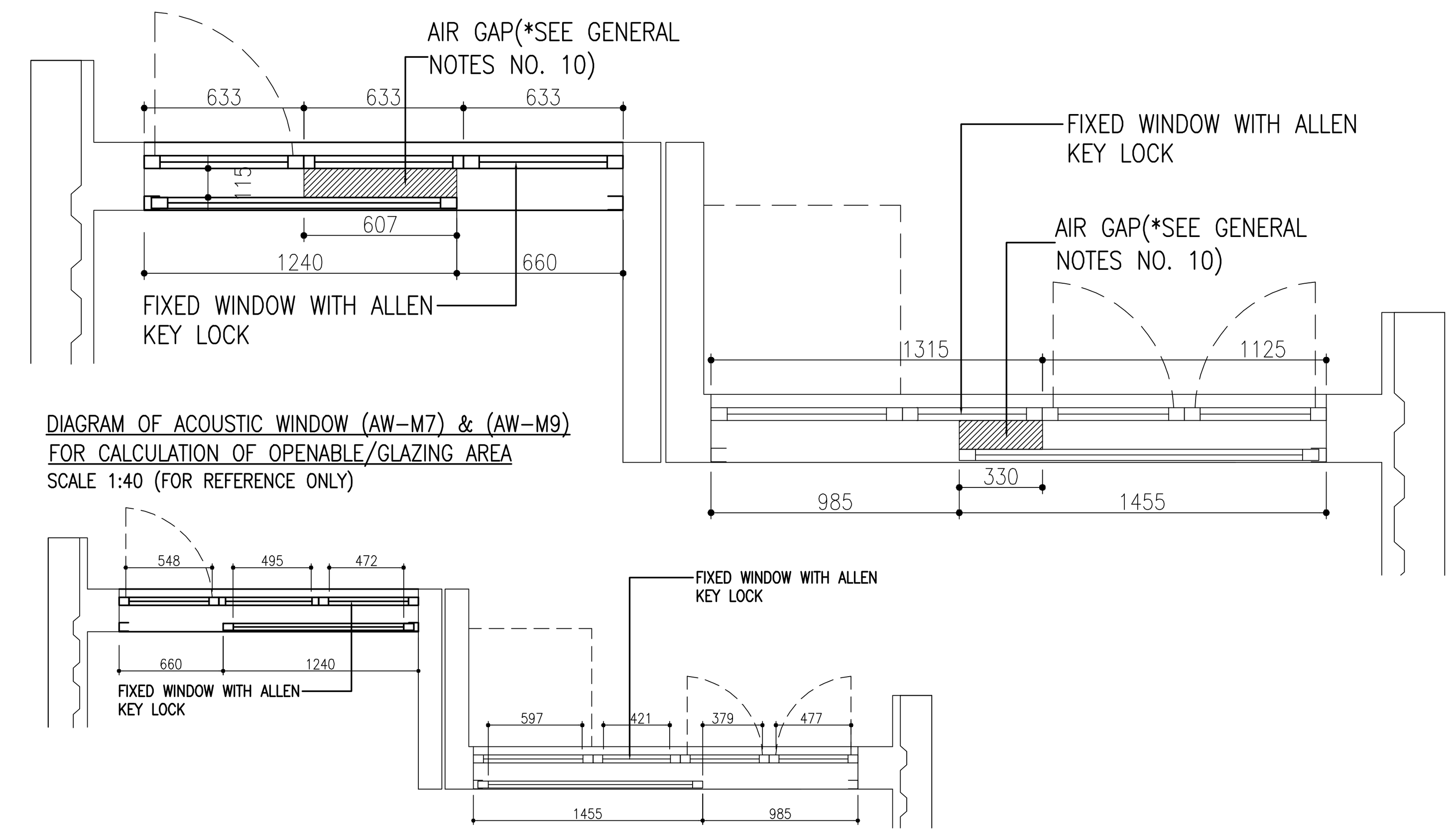
DEADEND TRAVEL DISTANCE (UNDER FS CODE 2011) FOR TYPE C-M3 FLAT AT A RANGE OF

a + b + c + d =
3.363 + 0.413 + 2.035 + 2.164 = 7.98m
OR
e + f + g + c + d =
2.783+ 0.413 + 0.960 + 2.035 + 2.164 = 8.36m

≤ 24m (UNDER FS CODE 2011 CLAUSE B11.2 (a)(i))

PLAN OF ACOUSTIC WINDOW (AW–M7) & (AW–M9)
SCALE 1:25

DIAGRAM OF ACOUSTIC WINDOW (AW–M7) & (AW–M9) FOR CALCULATION OF OPENABLE/GLAZING AREA
SCALE 1:40 (FOR REFERENCE ONLY)



GENERAL NOTES

1. THIS DRAWING SHOWS THE TRAVEL DISTANCE AND DEADEND TO STAIRCASE FOR TYPE C-M3 FLAT(S) WITH NOTIONAL PARTITION ONLY. ANY OTHER INFORMATION OF FLOOR LAYOUT PLAN SHOULD REFER TO OTHER RELEVANT ICU APPROVED GENERAL BUILDING PLAN (GBP) FOR THE PROJECT.
2. TYPE C-M3 FLAT(S) ARE FLAT NO. (*project basis information*) AT BLOCK (*project basis information*).
3. ALL ELEVATIONS OF WINDOWS ARE VIEWED FROM OUTSIDE.
4. THE STRUCTURAL DESIGN HAS ALREADY CATERED FOR ERECTION OF NON-LOAD BEARING BLOCK WALL(S) SAME AS THE NOTIONAL PARTITION(S) SHOWN IN THIS SUBMISSION.
5. ANY ALTERNATIVE NON-LOAD BEARING BLOCK WALL(S) TO BE ERECTED AFTER OCCUPATION PERMIT, OTHER THAN THOSE SAME AS THE NOTIONAL PARTITION(S) SHOWN IN THIS SUBMISSION, MAY BE SUBJECT TO ICU'S BUILDING CONTROL WITH SUBMISSIONS TO ICU AS ALTERATION & ADDITION WORKS FOR APPROVAL AND CONSENT OR AS MINOR WORKS FOR PROCESSING TO BE MADE AS REQUIRED UNDER THE BUILDINGS ORDINANCE AND RELEVANT BUILDING REGULATIONS THEREUNDER.
6. THE INTENDED CONSTRUCTION OF NOTIONAL PARTITION(S) FOR THIS SUBMISSION CONSISTS OF 85mm THICK SOLID CONCRETE BLOCK WALL(S) / LIGHTWEIGHT PARTITION(S) (DENSITY NOT MORE THAN 2060 kg/m^3) WITH 15mm THICK CEMENT SAND PLASTER (DENSITY NOT MORE THAN 2300 kg/m^3) ON BOTH FACES (WITH AGGREGATED AVERAGE DENSITY NOT MORE THAN 2125 kg/m^3).
7. THE GRANTING OF GFA CONCESSION REGARDING GREEN & INNOVATIVE FEATURES UNDER JPNs (i.e. MODULAR INTEGRATED CONSTRUCTION) IS SUBJECT TO COMPLIANCE WITH THE CRITERIA STIPULATED IN JPN 8 .
8. ESSENTIAL INFORMATION OF THE MIC SYSTEM AS LISTED IN PNAP ADV-36 SHALL BE SUBMITTED SEPARATELY AND THE ACCEPTANCE OF SUCH BY THE ICU SHALL BE OBTAINED BEFORE THE COMMENCEMENT OF THE MODULAR UNIT PRODUCTION WORK IN THE PREFABRICATION FACTORY.
9. A QUALITY ASSURANCE SCHEME AND AN MIC SUPERVISION PLAN SHALL BE PREPARED IN ACCORDANCE WITH PNAP ADV-36 AND SUBMITTED AT LEAST 14 DAYS BEFORE THE COMMENCEMENT OF THE MODULAR UNIT PRODUCTION WORK IN THE PREFABRICATION FACTORY.
10. ACCORDING TO PNAP APP-130, PARA. 6 OF APPENDIX A, THE WIDTH OF AIR GAP IS BETWEEN 100mm TO 175mm, THE LENGTH OF AIR GAP IS NOT LESS THAN 100mm.
11. PART PLAN OF CALCULATION OF NON-STRUCTURAL PREFABRICATED EXTERNAL WALL AREA REFER TO MF/MIC/AW/MW/A/ICU906.

Signature of Applicant (HD / PSP) :
ICU Submission By
ORIGINAL SIGNED
YIP SHING LAM
CA/D&S
Date : 31-10-2022

ICU Approval Signature :
PLAN PRE-ACCEPTED
ORIGINAL SIGNED
YEUNG Kwok-po, Michael
Chief Maintenance Surveyor/ICU
Independent Checking Unit
Date : 04-11-2022

Signature for Record Plan :

REVISIONS

NO	DESCRIPTION AND DATE	INITIAL AND DESIGNATION DWN	CKD	AUTH

	NAME AND DESIGNATION	INITIAL	DATE
AUTHORISED	SHERMAN S L YIP CA/D&S	ORIGINAL SIGNED	11/2022
CHECKED	JO NGAI SA/27	ORIGINAL SIGNED	11/2022
	KARIN LEUNG A/38	ORIGINAL SIGNED	11/2022
	H.M. WONG STO(A)/7	ORIGINAL SIGNED	11/2022
DRAWN	THEO TSOI TO(A)/15	ORIGINAL SIGNED	11/2022

DATE OF ISSUE :

PROJECT
MODULAR FLAT DESIGN
(MODULAR INTEGRATED CONSTRUCTION)

DRAWING TITLE
TYPE C-M3 FLAT - CALCULATION OF MiC AREA, NOTIONAL PARTITION, GLAZING AREA AND DEADEND TRAVEL DISTANCE (C8-a)

SCALE 1:50

DRAWING NO.
MF/MIC/AW/MW/A/ICU904

SOURCE

ICU NO.

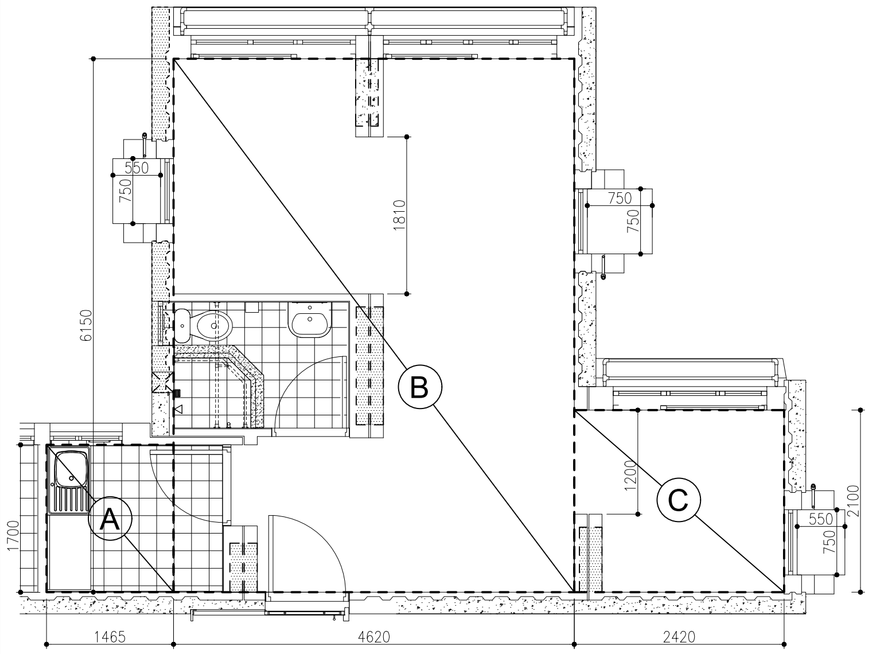
AutoCAD 2000 A1 594 x 841

HOUSING DEPARTMENT

COPY FOR: Contractor / Architect / R.E. / Q.S. / IOW/COW / FILE / OFFICE / B.S.E. / G.E. / C.E. / OTHERS:

CALCULATION OF IFA

(FOR ICU REFERENCE)



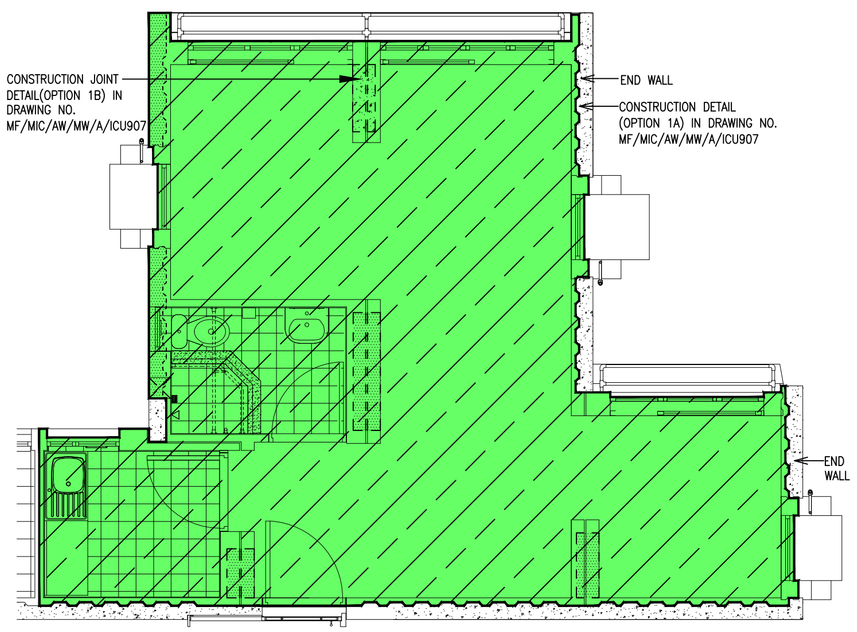
	PORTION	CALCULATION (m^2)	AREA (m^2)
IFA	A	1.465 X 1.700	2.491
	B	4.620 X 6.150	28.413
	C	2.420 X 2.100	5.082
		35.986m^2	

CALCULATION OF NOTIONAL PARTITION

IFA (m^2) (A)	THE MAXIMUM AGGREGATE LENGTH OF THE ADDITIONAL BLOCK WALL (m) (A)/10 = (B)	TOTAL ADDITIONAL WALL LENGTH (EXCLUDED 2x700mm WIDTH DOOR) (m)
35.981	3.598	(1.810 + 1.200 – 1.400) = 1.610 < (B)

* REFER TO NOTES NO.5 & 6

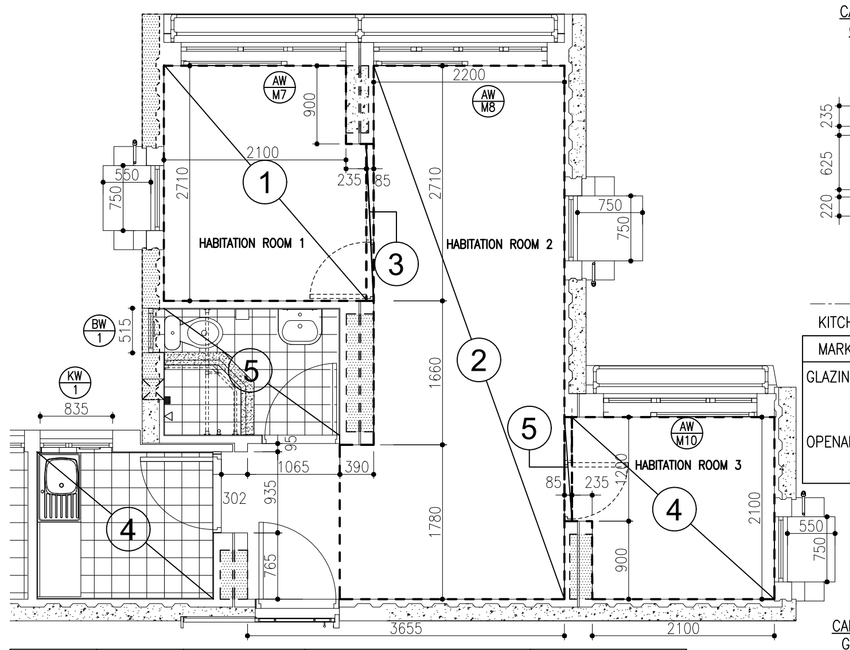
CALCULATION OF MiC FLOOR AREA



WALL CONNECTING TO	MiC FLOOR AREA (m^2)	10% OF THE MiC FLOOR AREA TO BE DISREGARDED FROM GFA (m^2)
END WALL	40.497	40.497 X 10% = 4.049

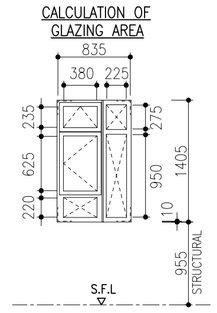
* REFER TO NOTES NO.7–9

CALCULATION OF GLAZING AREA

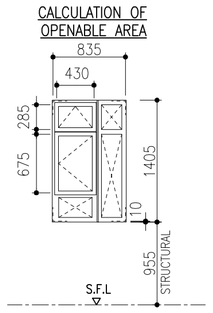


LOCATION	PORTION	HABITATION FLOOR AREA (m^2)	AREA REQUIRED (m^2)			AREA PROVIDED (m^2)
HABITATION ROOM 1	1 (AW–M7)	6.117	GLAZING	1/10	0.612	1.812
			OPENABLE	1/16	0.382	0.718
HABITATION ROOM 2	2 (AW–M8)	14.225	GLAZING	1/10	1.423	1.777
			OPENABLE	1/16	0.889	1.031
HABITATION ROOM 3	4 (AW–M10)	4.692	GLAZING	1/10	0.469	1.675
			OPENABLE	1/16	0.293	0.603
HABITATION ROOM 1, 2 & 3	1–5 (AW–M7, AW–M8 & AW–M10)	(6.117+14.225 +0.154+4.692 +0.102) =25.290	GLAZING	1/10	2.529	(1.812+1.777+1.675) =5.264
			OPENABLE	1/16	1.581	(0.718+1.031+0.603) =2.352
KITCHEN	4 (KW1)	3.468	GLAZING	1/10	0.347	0.737
			OPENABLE	1/16	0.217	0.437
BATHROOM	5 (BW1)	2.984	GLAZING	1/10	0.298	0.370
			OPENABLE	1/16	0.298	0.320

CALCULATION OF GLAZING AREA



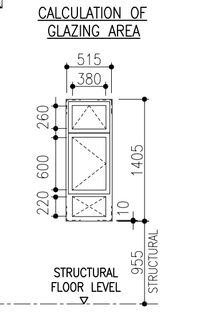
CALCULATION OF OPENABLE AREA



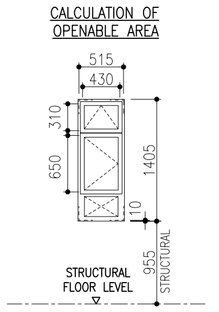
KITCHEN

MARK :	KW–1
GLAZING AREA :	(0.380x0.235)+(0.380x0.625)+ (0.380x0.220)+(0.225x0.275)+(0.225x0.950) = 0.686m^2
OPENABLE AREA :	(0.430x0.285)+(0.430x0.675) = 0.413m^2

CALCULATION OF GLAZING AREA



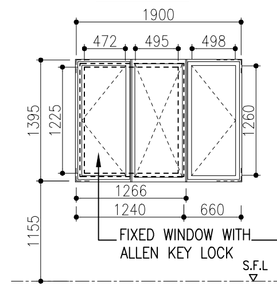
CALCULATION OF OPENABLE AREA



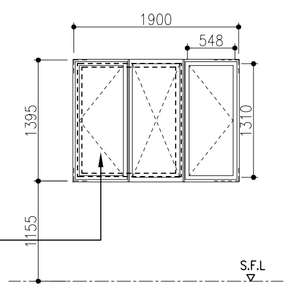
BATHROOM

MARK :	BW–1
GLAZING AREA :	(0.380x0.260)+(0.380x0.600)+ (0.380x0.220) = 0.410m^2
OPENABLE AREA :	(0.430x0.310)+(0.430x0.650) = 0.413m^2

CALCULATION OF GLAZING AREA



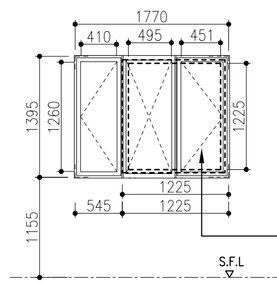
CALCULATION OF OPENABLE AREA



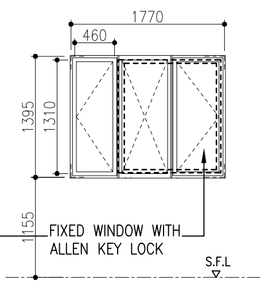
HABITATION ROOM 1

WINDOW MARK :	AW–M7
GLAZING AREA :	0.472x1.225+0.495x1.225+0.498x1.260 = 1.812m^2
OPENABLE AREA :	0.548x1.310 = 0.718m^2

CALCULATION OF GLAZING AREA



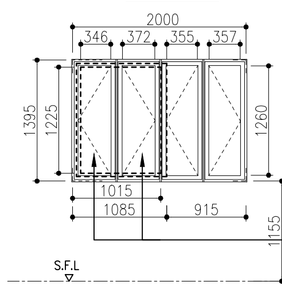
CALCULATION OF OPENABLE AREA



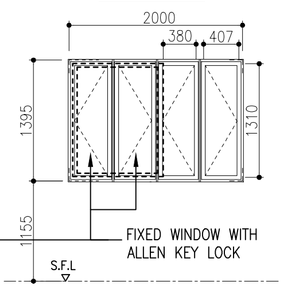
HABITATION ROOM 3

WINDOW MARK :	AW–M10
GLAZING AREA :	0.410x1.260+0.495x1.225+0.451x1.225 = 1.675m^2
OPENABLE AREA :	0.460x1.310 = 0.603m^2

CALCULATION OF GLAZING AREA



CALCULATION OF OPENABLE AREA



HABITATION ROOM 2

WINDOW MARK :	AW–M8
GLAZING AREA :	0.346x1.225+0.372x1.225+0.355x1.260 +0.357x1.260 = 1.777m^2
OPENABLE AREA :	0.380x1.310+0.407x1.310 = 1.031m^2

DIAGRAM OF ACOUSTIC WINDOW (AW–M7) & (AW–M8) FOR CALCULATION OF OPENABLE/GLAZING AREA

SCALE 1:40 (FOR REFERENCE ONLY)

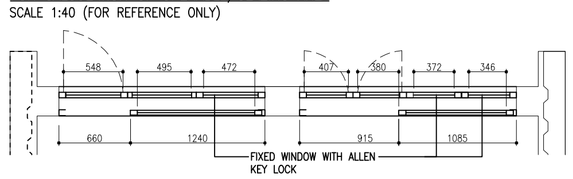
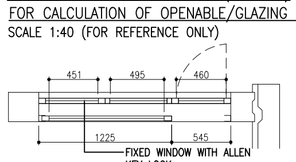
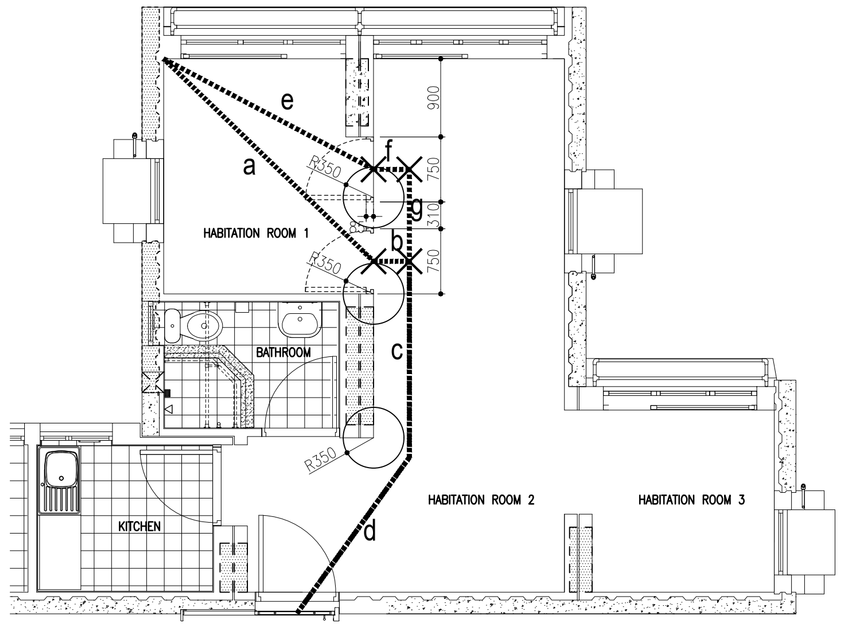


DIAGRAM OF ACOUSTIC WINDOW (AW–M10) FOR CALCULATION OF OPENABLE/GLAZING AREA

SCALE 1:40 (FOR REFERENCE ONLY)



CALCULATION OF DEADEND TRAVEL DISTANCE



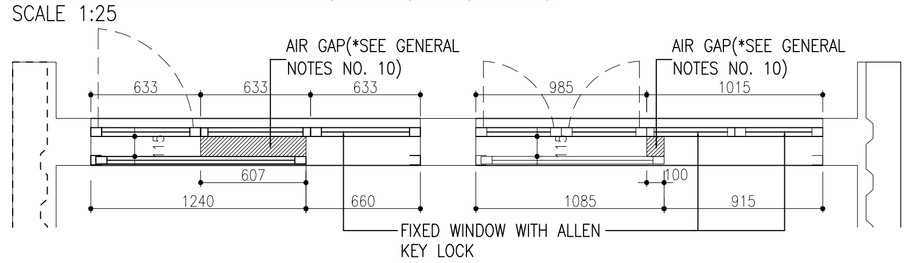
DEADEND TRAVEL DISTANCE (UNDER FS CODE 2011)
FOR TYPE D-M2 FLAT AT A RANGE OF

a + b + c + d =
3.363 + 0.413 + 2.259 + 2.213 = 8.248m
OR
e + f + g + c + d =
2.735+ 0.413 + 1.060 + 2.259 + 2.213 = 8.68m

} ≤ 24m (UNDER FS CODE 2011 CLAUSE B11.2 (a)(i))

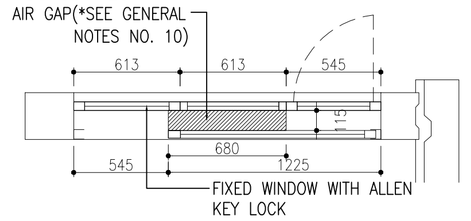
PLAN OF ACOUSTIC WINDOW (AW–M7) & (AW–M8)

SCALE 1:25



PLAN OF ACOUSTIC WINDOW (AW–M10)

SCALE 1:25



LEGEND:

IFA - INTERNAL FLOOR AREA

FS CODE - CODE OF PRACTICE FOR FIRE SAFETY IN BUILDINGS

NOTIONAL PARTITIONS WITH NOTIONAL DOOR OPENINGS

CONSTRUCTION JOINT/ IN-SITU CONCRETE WALL (FULL HEIGHT)

CONSTRUCTION JOINT/ IN-SITU CONCRETE WALL (BOTTOM PORTION ONLY)

MiC FLOOR AREA

GENERAL NOTES

1. THIS DRAWING SHOWS THE TRAVEL DISTANCE AND DEADEND TO STAIRCASE FOR TYPE D-M2 FLAT(S) WITH NOTIONAL PARTITION ONLY. ANY OTHER INFORMATION OF FLOOR LAYOUT PLAN SHOULD REFER TO OTHER RELEVANT ICU APPROVED GENERAL BUILDING PLAN (GBP) FOR THE PROJECT.
2. TYPE D-M2 FLAT(S) ARE FLAT NO. (*project basis information*) AT BLOCK (*project basis information*).
3. ALL ELEVATIONS OF WINDOWS ARE VIEWED FROM OUTSIDE.
4. THE STRUCTURAL DESIGN HAS ALREADY CATERED FOR ERECTION OF NON-LOAD BEARING BLOCK WALL(S) SAME AS THE NOTIONAL PARTITION(S) SHOWN IN THIS SUBMISSION.
5. ANY ALTERNATIVE NON-LOAD BEARING BLOCK WALL(S) TO BE ERECTED AFTER OCCUPATION PERMIT, OTHER THAN THOSE SAME AS THE NOTIONAL PARTITION(S) SHOWN IN THIS SUBMISSION, MAY BE SUBJECT TO ICU'S BUILDING CONTROL WITH SUBMISSIONS TO ICU AS ALTERATION & ADDITION WORKS FOR APPROVAL AND CONSENT OR AS MINOR WORKS FOR PROCESSING TO BE MADE AS REQUIRED UNDER THE BUILDINGS ORDINANCE AND RELEVANT BUILDING REGULATIONS THEREUNDER.
6. THE INTENDED CONSTRUCTION OF NOTIONAL PARTITION(S) FOR THIS SUBMISSION CONSISTS OF 85mm THICK SOLID CONCRETE BLOCK WALL(S) / LIGHTWEIGHT PARTITION(S) (DENSITY NOT MORE THAN 2060 kg/m^3) WITH 15mm THICK CEMENT SAND PLASTER (DENSITY NOT MORE THAN 2300 kg/m^3) ON BOTH FACES (WITH AGGREGATED AVERAGE DENSITY NOT MORE THAN 2125 kg/m^3).
7. THE GRANTING OF GFA CONCESSION REGARDING GREEN & INNOVATIVE FEATURES UNDER JPNs (i.e. MODULAR INTEGRATED CONSTRUCTION) IS SUBJECT TO COMPLIANCE WITH THE CRITERIA STIPULATED IN JPN 8 .
8. ESSENTIAL INFORMATION OF THE MIC SYSTEM AS LISTED IN PNAP ADV-36 SHALL BE SUBMITTED SEPARATELY AND THE ACCEPTANCE OF SUCH BY THE ICU SHALL BE OBTAINED BEFORE THE COMMENCEMENT OF THE MODULAR UNIT PRODUCTION WORK IN THE PREFABRICATION FACTORY.
9. A QUALITY ASSURANCE SCHEME AND AN MIC SUPERVISION PLAN SHALL BE PREPARED IN ACCORDANCE WITH PNAP ADV-36 AND SUBMITTED AT LEAST 14 DAYS BEFORE THE COMMENCEMENT OF THE MODULAR UNIT PRODUCTION WORK IN THE PREFABRICATION FACTORY.
10. ACCORDING TO PNAP APP-130, PARA. 6 OF APPENDIX A, THE WIDTH OF AIR GAP IS BETWEEN 100mm TO 175mm, THE LENGTH OF AIR GAP IS NOT LESS THAN 100mm.
11. PART PLAN OF CALCULATION OF NON-STRUCTURAL PREFABRICATED EXTERNAL WALL AREA REFER TO MF/MIC/AW/MW/A/ICU906.

ICU Ref. : HD(ICU) ____STD-EPS____

Signature of Applicant (HD / PSP) :

ICU Submission By

ORIGINAL SIGNED

YIP SHING LAM
CA/D&S
Date : 31-10-2022

ICU Pre-accepted Typical Architectural Details

Pre-accepted Memo Date: 04/11/2022
Pre-accepted Drawing No.: MF/MIC/AW/MW/A/ICU905
ICU Ref.: MFD/2022/3

The works shown on this plan are ICU pre-accepted typical architectural details in respect of which the identical details * (except the content as bounded by – · – · – · –) are reproduced herewith for approval on project basis.
* *Delete where appropriate*

ICU Approval Signature :

PLAN PRE-ACCEPTED

ORIGINAL SIGNED

YEUNG Kwok-po, Michael
Chief Maintenance Surveyor/ICU
Independent Checking Unit
Date : 04-11-2022

Signature for Record Plan :

REVISIONS

NO	DESCRIPTION AND DATE	INITIAL AND DESIGNATION DWN	CKD	AUTH

	NAME AND DESIGNATION	INITIAL	DATE
AUTHORISED	SHERMAN S L YIP CA/D&S	ORIGINAL SIGNED	11/2022
CHECKED	JO NGAI SA/27	ORIGINAL SIGNED	11/2022
	KARIN LEUNG A/38	ORIGINAL SIGNED	11/2022
	H.M. WONG STO(A)/7	ORIGINAL SIGNED	11/2022
DRAWN	THEO TSOI TO(A)/15	ORIGINAL SIGNED	11/2022

DATE OF ISSUE :

PROJECT

MODULAR FLAT DESIGN
(MODULAR INTEGRATED CONSTRUCTION)

DRAWING TITLE

TYPE D-M2 FLAT - CALCULATION OF MiC AREA, NOTIONAL PARTITION, GLAZING AREA AND DEADEND TRAVEL DISTANCE

SCALE 1:50

DRAWING NO.

MF/MIC/AW/MW/A/ICU905

SOURCE

ICU NO.

AutoCAD 2000 A1 594 x 841

HOUSING DEPARTMENT

COPY FOR ☐ Contractor ☐ Architect ☐ R.E. ☐ G.S. ☐ TOWNOW FILE / OFFICE ☐ B.S.E. ☐ S.E. ☐ C.E. ☐ OTHERS

Appendix 4.6

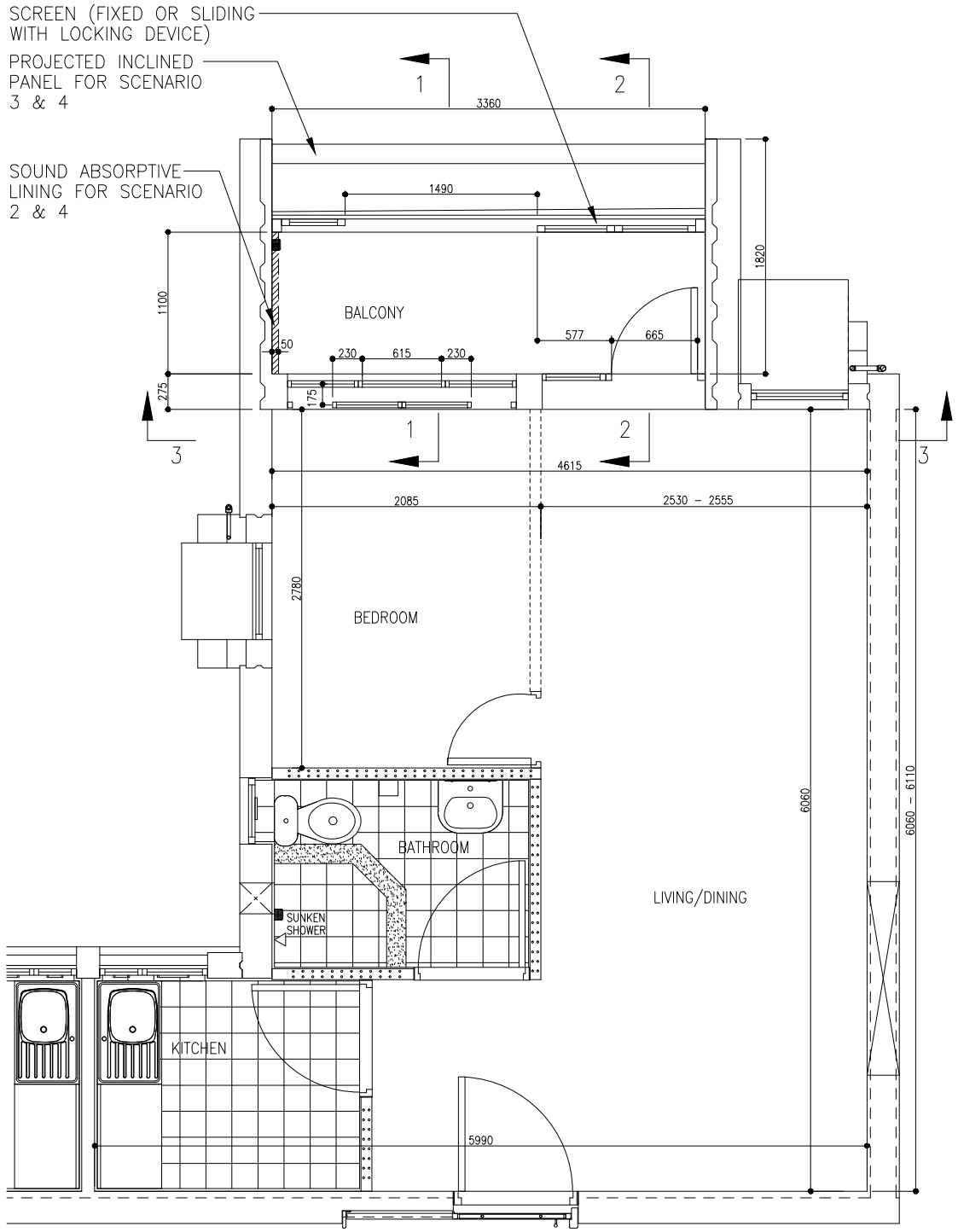
Summary of Noise Attenuation Performance for MFD-MiC with Acoustic Window

Table 8 – Summary of Noise Attenuation Performance for MFD-MiC with Acoustic Window

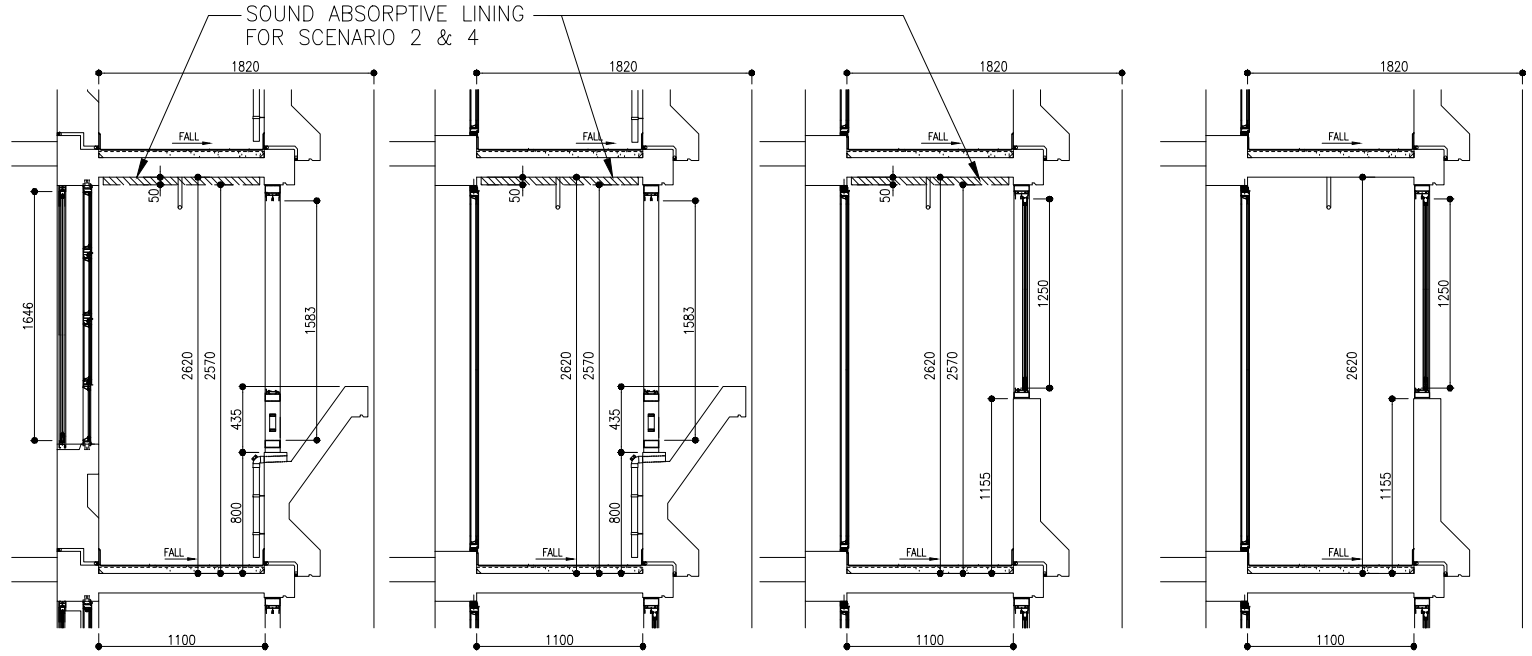
		Acoustic Window Configurations				Noise Attenuation dB(A)	
Flat Type	**Floor Size (m^2)**	**Inner Window Opening**	**Outer Window Opening**	**Window Overlapping Length**	**Gap Width between Window Panel**	**With Sound Absorptive Lining**	**Without Sound Absorptive Lining**
Type A-M2	9.357	1352mm (H) x 820mm (W)	1352mm (H) x 700mm (W)	340mm	175 mm	7.1	5.9
Type B-M2	15.592	1352mm (H) x 895mm (W)	1352mm (H) x 945mm (W)	200mm	175 mm	6.9	5.8
Type C-M2							
Living Room	16.414	1352mm (H) x 915mm (W)	1352mm (H) x 985mm (W)	100mm	175 mm	7.1	5.6
Bedroom 1	6.117	1352mm (H) x 660mm (W)	1352mm (H) x 633mm (W)	607mm	175 mm		
Type C-M3							
Living Room	16.736	1352mm (H) x 985mm (W)	1352mm (H) x 1125mm (W)	330mm	175 mm	7.1	5.6
Bedroom 1	6.094	1352mm (H) x 660mm (W)	1352mm (H) x 633mm (W)	607mm	175 mm		
Type D-M2							
Living Room	16.414	1352mm (H) x 915mm (W)	1352mm (H) x 985mm (W)	100mm	175 mm	7.1	5.6
Bedroom 1	6.117	1352mm (H) x 660mm (W)	1352mm (H) x 633mm (W)	607mm	175 mm		
Bedroom 2	4.692	1352mm (H) x 545mm (W)	1352mm (H) x 545mm (W)	680mm	175 mm	4.2	3.0

Appendix 4.7

Configuration of the proposed enhanced acoustic balcony (EAB3.0)



TYPE C4(a)(A) FLAT

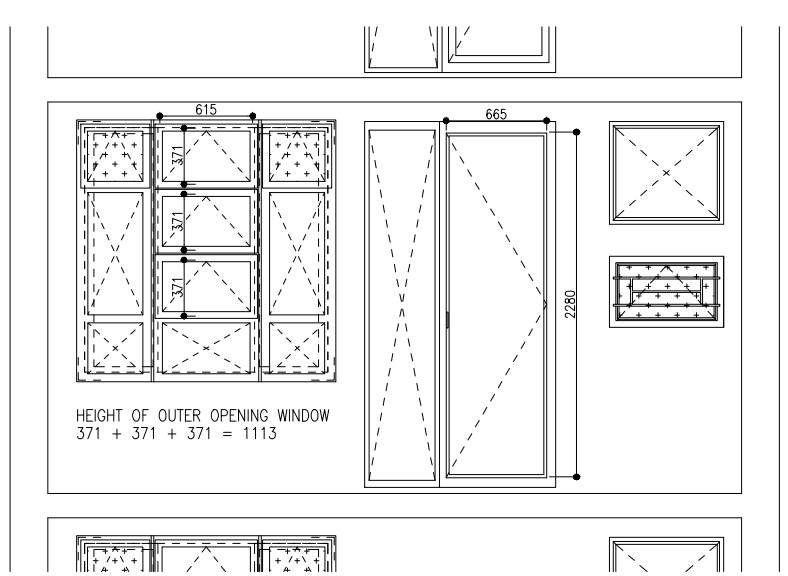


SECTION 1-1
(SCENARIO 3 & 4)

SECTION 2-2
(SCENARIO 3 & 4)

SECTION 2-2
(SCENARIO 2)

SECTION 2-2
(SCENARIO 1)



SECTION 3-3

Acoustic Balcony
Scenario 1 - Basic Shell
Scenario 2 - With Sound Absorptive Lining (Wall and Ceiling)
Scenario 3 - With Projected Inclined Panel
Scenario 4 - With Sound Absorptive Lining (Wall and Ceiling) & Projected Inclined Panel

Legend:

- Fixed Window
- Fixed Window With Allen Key Lock (For Maintenance)
- Openable Window

MODULAR FLAT WITH ACOUSTIC BALCONY
TYPE C-4A(a) SCALE 1:50 (A3)
(TYPE C-4A(a) FOR MODULAR FLAT DESIGN)

2023-10-03
(FOR EPD)

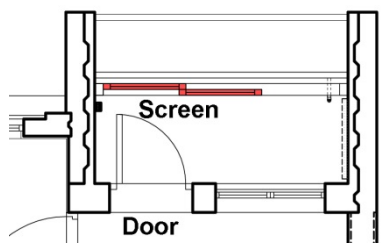
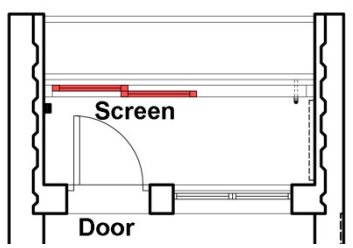
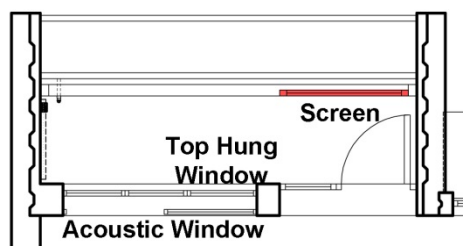
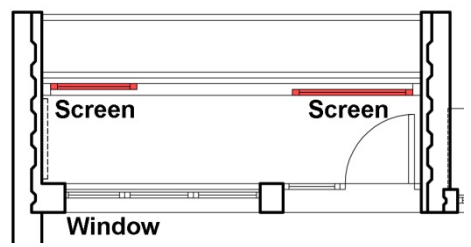
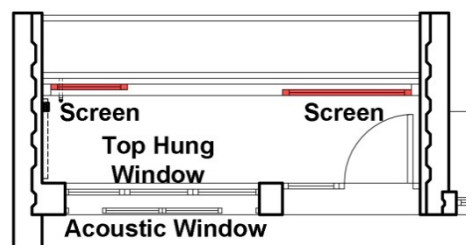
Note : 1. Location of the openable window would be adjusted based on the noise source to attain an optimum noise attenuation performance.
2. Internal layout of flat for reference only.

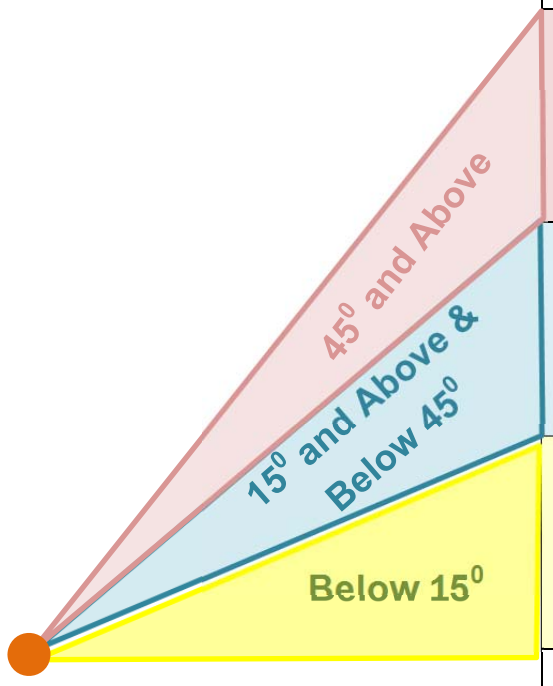
Appendix 4.8

Summary of Noise Attenuation Performance for enhanced acoustic balcony

Updated on 22 Mar 2018
Accepted by EPD on 21 Jun.2018

Figure 1: Summary of Sound Attenuation Performance for Enhanced Acoustic Balcony

Acoustic Balcony Performance, dB(A)																			
Type “A” (1/2P)				Type “B” (2/3P)				Type “C” (3/4P)											
MFD Flat Type A - 2				MFD Flat Type B - 3 & B - 4				MFD Flat Type C - 3				MFD Flat Type C - 4				MFD Flat Type C – 5			
A1	A2	A3	A4	B-11/ B-21	B-12/ B-22	B-13/ B-23	B-14/ B-24	C1A1	C1A2	C1A3	C1A4	C1B1	C1B2	C1B3	C1B4	C1C1	C1C2	C1C3	C1C4
5.0	11.0	6.5	12.5	5.0	11.0	6.5	12.5	6.0	8.0	8.5	10.0	5.5	7.0	8.0	9.0	6.0	7.5	8.5	10.0
4.0	9.0	5.5	11.0	4.0	9.0	5.5	11.0	4.5	7.0	7.0	9.0	4.0	5.5	6.5	8.0	4.0	6.0	7.5	9.0
2.0	6.5	3.0	8.5	2.0	6.5	3.0	8.5	2.5	4.5	4.5	6.5	2.0	3.0	4.0	5.5	2.0	3.5	5.0	6.5
																			



Remark:

Type ”A” (1/2P)

- A1: basic shell
- A2: basic shell with sound absorptive lining (wall and ceiling of balcony)
- A3: basic shell with projected inclined panel
- A4: basic shell with sound absorptive lining (wall and ceiling of balcony) and projected inclined panel

Type ”B” (2/3P)

- B-11/ B-21: basic shell
- B-12/ B-22: basic shell with sound absorptive lining (wall and ceiling of balcony)
- B-13/ B-23: basic shell with projected inclined panel
- B-14/ B-24: basic shell with sound absorptive lining (wall and ceiling of balcony) and projected inclined panel

Type ”C” (3/4P)

- C1A1: single acoustic window (baffle type) (175 mm gap width between glass panes) basic shell
- C1A2: single acoustic window (baffle type) (175 mm gap width between glass panes) basic shell with sound absorptive lining (wall and ceiling of balcony)
- C1A3: single acoustic window (baffle type) (175 mm gap width between glass panes) basic shell with projected inclined panel
- C1A4: single acoustic window (baffle type) (175 mm gap width between glass panes) basic shell with sound absorptive lining (wall and ceiling of balcony) and projected inclined panel

- C1B1: (side hung window) basic shell
- C1B2: (side hung window) basic shell with sound absorptive lining (wall and ceiling of balcony)
- C1B3: (side hung window) basic shell with projected inclined panel
- C1B4: (side hung window) basic shell with sound absorptive lining (wall and ceiling of balcony) and projected inclined panel

- C1C1: twin acoustic windows (baffle type) (175 mm gap width between glass panes) basic shell
- C1C2: twin acoustic windows (baffle type) (175 mm gap width between glass panes) basic shell with sound absorptive lining (wall and ceiling of balcony)
- C1C3: twin acoustic windows (baffle type) (175 mm gap width between glass panes) basic shell with projected inclined panel
- C1C4 twin acoustic windows (baffle type) (175 mm gap width between glass panes) basic shell with sound absorptive lining (wall and ceiling of balcony) and projected inclined panel

Appendix 4.9

Calculation of Noise Attenuation for Enhanced Acoustic Balcony

According to the latest findings, the enhanced acoustic balcony is proposed for 8 flat units (i.e. R110 to R115, R217 and R218). The noise attenuation depends on the setting of the enhanced acoustic balcony. Currently, the mock up model has only covered the case for facade with acoustic balcony fronting a road which is running in parallel. The intended noise attenuation (see **Appendix 4.9**) could be achieved by the enhanced acoustic balcony under this setting ("Setting 1" - Roads running parallel to the balcony). In case the road is located at one side of the flat, adjustment on the noise attenuation might need to be considered for this setting ("Setting 2" - Roads not running parallel to the balcony).

The road traffic noise levels on these 8 units are mainly influenced by Po Shek Wu Road, Po Shek Wu Slip Road and San Wan Road. The roads in Scenario A and B are grouped by their orientations relative to these flat units as shown in **Figure 1** and **Figure 2** below. Group 3 is in "Setting 1", while Group 1 and Group 2 are in "Setting 2". Group 4 are roads which are screened by building itself or surrounding buildings. The noise contributions from each group of the roads have been calculated. The noise attenuation of enhanced acoustic balcony has been applied based on their settings with respect to different groups of roads (Group 1 to Group 3 only). Considering the noise contribution from the road sections in Group 4 is very small, noise reduction by the proposed enhanced acoustic balcony was not applied to the road sections in Group 4.

According to the preliminary findings of the study, the enhanced acoustic balcony of Type "C" (with single door opening at living room and openable top hung window) could achieve an attenuation ranging from 2dB(A) to 10dB(A) depending on their design and inclination angle from the noise source to NSR (see **Appendix 4.9**). The same attenuation will be applied to the noise source in relation to enhanced acoustic balcony in "Setting 1" (i.e. road sections in Group 3).

Figure 1: Grouping of roads for determining noise attenuation of acoustic balcony (Scenario A)

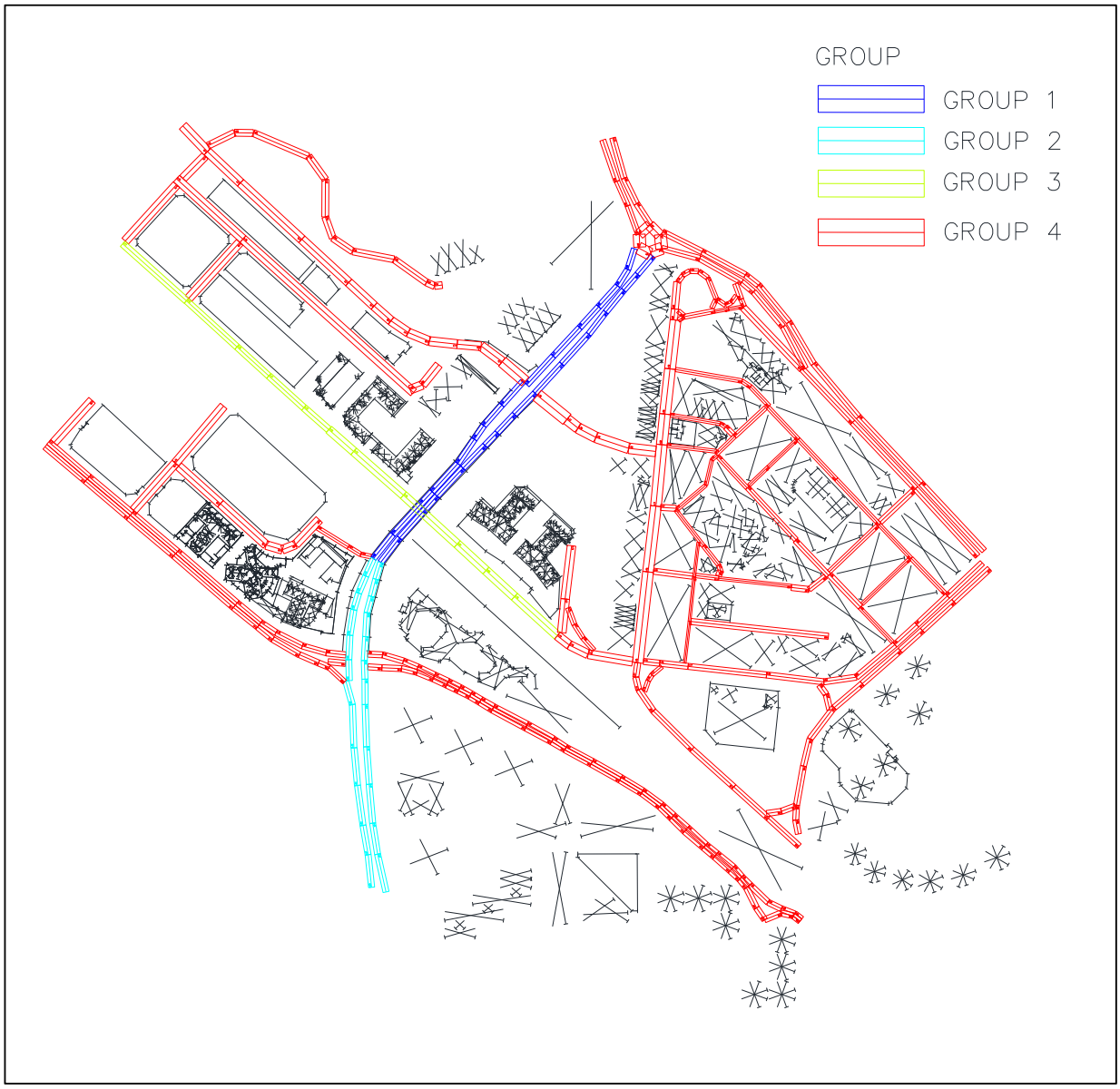
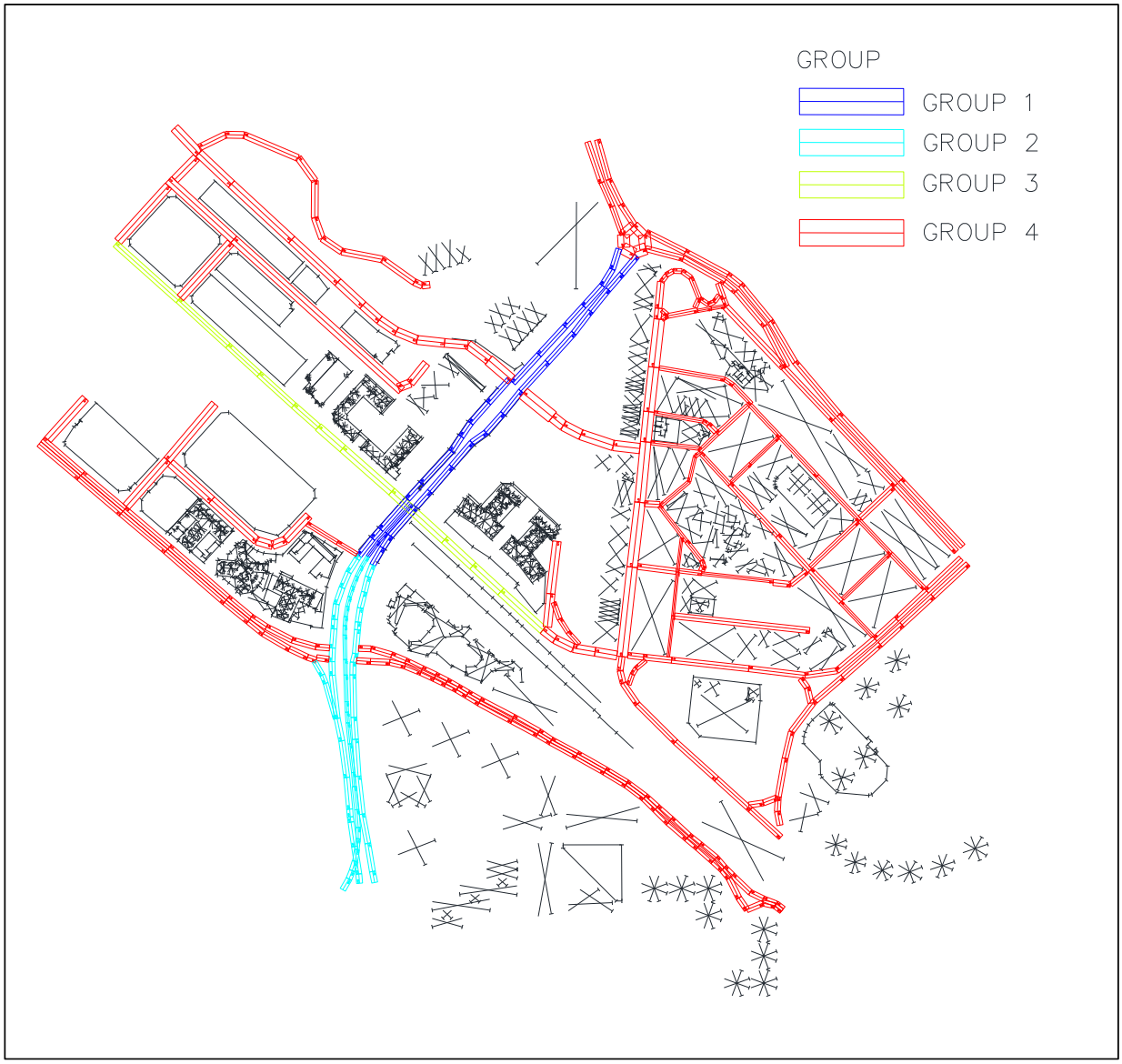


Figure 2: Grouping of roads for determining noise attenuation of acoustic balcony (Scenario B)



When the noise sources are in "Setting 2" in relation to the enhanced acoustic balcony orientation (i.e. road sections in Group 1 and Group 2), the view angle of direct path from the opening to the noise source is similar or smaller while the separation distance between the opening and the noise source is similar or larger than that of the "Setting 1" as illustrated in **Figure 3** and **Figure 4** below. With the same configuration of enhanced acoustic balcony and its openings, as well as similar or smaller view angle to the noise source, it is expected that the amount of sound energy in "Setting 2" transmitted from the source to the openings would be not be larger than that in "Setting 1" and the reverberation within the acoustic balcony is considered very much alike in the two settings. In view of these considerations, the noise attenuation of this type of acoustic balcony in "Setting 2" would be very similar to that of the "Setting 1". Nevertheless, for purpose of conservative assessment, a safety factor of 1dB(A) has been deducted from the attenuation for the noise sources in "Setting 2". The calculation of noise attenuations for the proposed acoustic balcony are detailed in this appendix.

Figure 3: Illustration of view angle of direct path in "Setting 1 - Roads running parallel to the balcony"

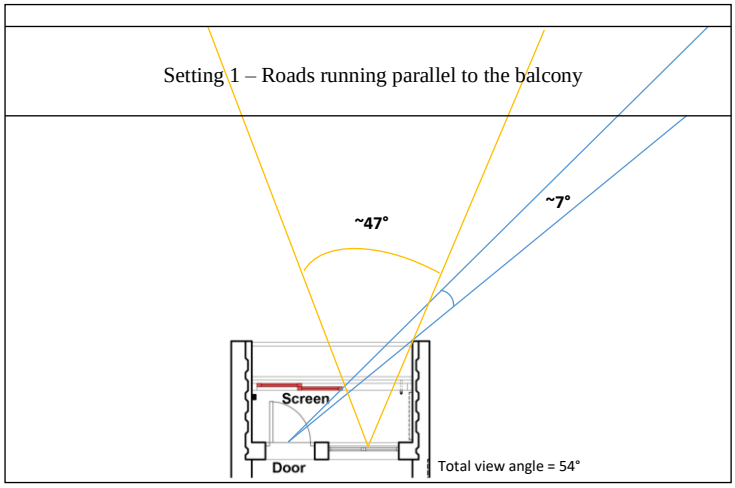
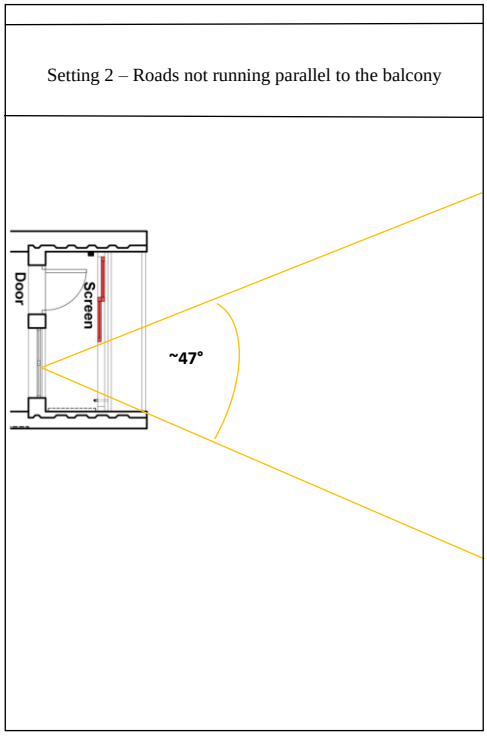
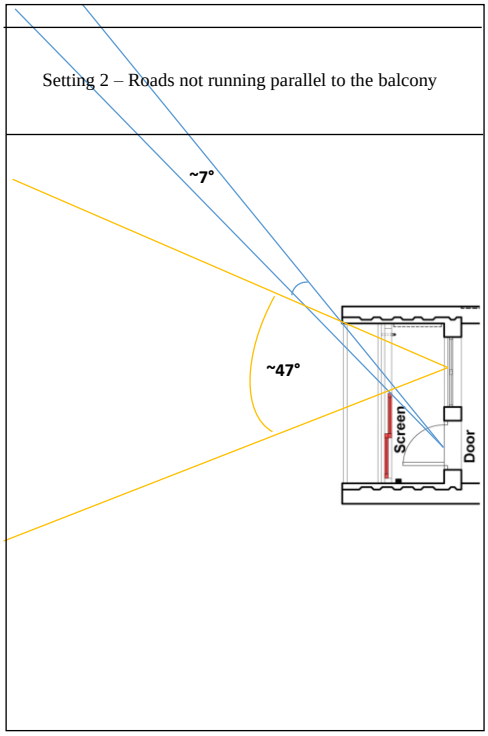


Figure 4: Illustration of view angle of direct path in "Setting 2 – Roads not running parallel to the balcony"





Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R110a	4	66.9	63.4	54.8	59.3	69.2	N/A	9.2	X	-	5.1	X	-	30.9	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	67.6	63.6	57.1	59.9	69.8	N/A	10.7	X	-	5.9	X	-	33.6	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	6	68.1	63.8	59.4	60.4	70.4	I	12.1	X	1.0	6.7	X	1.0	36.1	Y	4.0	-	-	-	67.1	62.8	55.4	60.4	69.3
	7	68.3	64.0	61.6	60.6	70.7	I	13.5	X	1.0	7.5	X	1.0	38.5	Y	4.0	-	-	-	67.3	63.0	57.6	60.6	69.6
	8	68.5	64.2	63.1	60.8	71.1	I	14.9	X	1.0	8.2	X	1.0	40.8	Y	4.0	-	-	-	67.5	63.2	59.1	60.8	69.9
	9	68.5	64.2	64.1	60.9	71.3	I	16.3	Y	3.0	9.0	X	1.0	42.9	Y	4.0	-	-	-	65.5	63.2	60.1	60.9	69.0
	10	68.6	64.3	64.7	61.0	71.5	I	17.6	Y	3.0	9.8	X	1.0	44.8	Y	4.0	-	-	-	65.6	63.3	60.7	61.0	69.1
	11	68.7	64.4	65.1	61.0	71.6	I	19.0	Y	3.0	10.5	X	1.0	46.7	Z	6.0	-	-	-	65.7	63.4	59.1	61.0	69.0
	12	68.7	64.4	65.2	61.1	71.7	I	20.3	Y	3.0	11.3	X	1.0	48.4	Z	6.0	-	-	-	65.7	63.4	59.2	61.1	69.0
	13	68.7	64.4	65.2	61.1	71.7	I	21.6	Y	3.0	12.0	X	1.0	50.0	Z	6.0	-	-	-	65.7	63.4	59.2	61.1	69.0
	14	68.7	64.4	65.1	61.2	71.7	I	22.8	Y	3.0	12.8	X	1.0	51.5	Z	6.0	-	-	-	65.7	63.4	59.1	61.2	69.0
	15	68.7	64.4	65.1	61.2	71.7	I	24.1	Y	3.0	13.5	X	1.0	53.0	Z	6.0	-	-	-	65.7	63.4	59.1	61.2	69.0
	16	68.7	64.4	64.9	61.2	71.6	I	25.3	Y	3.0	14.3	X	1.0	54.3	Z	6.0	-	-	-	65.7	63.4	58.9	61.2	69.0
	17	68.6	64.3	64.9	61.2	71.6	I	26.5	Y	3.0	15.0	Y	3.0	55.5	Z	6.0	-	-	-	65.6	61.3	58.9	61.2	68.5
	18	68.6	64.3	64.8	61.2	71.5	I	27.7	Y	3.0	15.7	Y	3.0	56.7	Z	6.0	-	-	-	65.6	61.3	58.8	61.2	68.5
	19	68.5	64.3	64.6	61.3	71.5	I	28.8	Y	3.0	16.5	Y	3.0	57.8	Z	6.0	-	-	-	65.5	61.3	58.6	61.3	68.4
	20	68.5	64.3	64.5	61.2	71.4	I	30.0	Y	3.0	17.2	Y	3.0	58.9	Z	6.0	-	-	-	65.5	61.3	58.5	61.2	68.4
	21	68.4	64.3	64.4	61.3	71.4	I	31.1	Y	3.0	17.9	Y	3.0	59.9	Z	6.0	-	-	-	65.4	61.3	58.4	61.3	68.4
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	68.3	64.2	64.0	61.3	71.2	I	33.9	Y	3.0	19.8	Y	3.0	62.2	Z	6.0	-	-	-	65.3	61.2	58.0	61.3	68.3
	24	68.2	64.2	63.9	61.3	71.2	I	34.9	Y	3.0	20.5	Y	3.0	63.0	Z	6.0	-	-	-	65.2	61.2	57.9	61.3	68.2
	25	68.2	64.2	63.8	61.4	71.1	I	35.9	Y	3.0	21.1	Y	3.0	63.8	Z	6.0	-	-	-	65.2	61.2	57.8	61.4	68.2
	26	68.1	64.1	63.7	61.4	71.1	I	36.8	Y	3.0	21.8	Y	3.0	64.5	Z	6.0	-	-	-	65.1	61.1	57.7	61.4	68.1
	27	68.0	64.1	63.6	61.4	71.0	I	37.8	Y	3.0	22.5	Y	3.0	65.2	Z	6.0	-	-	-	65.0	61.1	57.6	61.4	68.1
	28	68.0	64.1	63.5	61.4	71.0	I	38.7	Y	3.0	23.2	Y	3.0	65.8	Z	6.0	-	-	-	65.0	61.1	57.5	61.4	68.1
	29	67.9	64.1	63.3	61.4	70.9	I	39.6	Y	3.0	23.8	Y	3.0	66.4	Z	6.0	-	-	-	64.9	61.1	57.3	61.4	68.0
	30	67.9	64.2	63.2	61.5	70.9	I	40.4	Y	3.0	24.5	Y	3.0	67.0	Z	6.0	-	-	-	64.9	61.2	57.2	61.5	68.0
	31	67.8	64.2	63.1	61.5	70.8	I	41.3	Y	3.0	25.1	Y	3.0	67.6	Z	6.0	-	-	-	64.8	61.2	57.1	61.5	68.0
	32	67.8	64.2	63.0	61.5	70.8	I	42.1	Y	3.0	25.8	Y	3.0	68.1	Z	6.0	-	-	-	64.8	61.2	57.0	61.5	68.0
	33	67.7	64.2	62.9	61.5	70.7	I	42.9	Y	3.0	26.4	Y	3.0	68.6	Z	6.0	-	-	-	64.7	61.2	56.9	61.5	67.9
	34	67.6	64.2	62.8	61.5	70.7	I	43.7	Y	3.0	27.0	Y	3.0	69.1	Z	6.0	-	-	-	64.6	61.2	56.8	61.5	67.8
	35	67.6	64.2	62.7	61.5	70.6	I	44.5	Y	3.0	27.7	Y	3.0	69.6	Z	6.0	-	-	-	64.6	61.2	56.7	61.5	67.8
	36	67.5	64.1	62.6	61.5	70.6	I	45.2	Z	5.0	28.3	Y	3.0	70.1	Z	6.0	-	-	-	62.5	61.1	56.6	61.5	66.9
	37	67.5	64.1	62.6	61.5	70.6	I	45.9	Z	5.0	28.9	Y	3.0	70.5	Z	6.0	-	-	-	62.5	61.1	56.6	61.5	66.9
	38	67.4	64.1	62.5	61.6	70.5	I	46.7	Z	5.0	29.5	Y	3.0	70.9	Z	6.0	-	-	-	62.4	61.1	56.5	61.6	66.9
	39	67.3	64.1	62.4	61.6	70.5	I	47.3	Z	5.0	30.1	Y	3.0	71.3	Z	6.0	-	-	-	62.3	61.1	56.4	61.6	66.9
	40	67.3	64.0	62.3	61.6	70.4	I	48.0	Z	5.0	30.6	Y	3.0	71.7	Z	6.0	-	-	-	62.3	61.0	56.3	61.6	66.8
	41	67.2	64.0	62.2	61.7	70.4	N/A	48.7	Z	-	31.2	Y	-	72.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	42	67.2	64.0	62.1	61.7	70.3	N/A	49.3	Z	-	31.8	Y	-	72.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	43	67.1	63.9	62.0	61.7	70.3	N/A	49.9	Z	-	32.4	Y	-	72.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	44	67.1	63.9	62.0	61.7	70.3	N/A	50.5	Z	-	32.9	Y	-	73.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	67.0	64.0	61.9	61.8	70.2	N/A	51.1	Z	-	33.5	Y	-	73.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than “Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R110b	4	67.0	63.5	54.8	59.3	69.3	N/A	9.4	X	-	5.2	X	-	30.9	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	67.9	63.8	57.1	59.9	70.0	N/A	10.9	X	-	6.0	X	-	33.6	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	6	68.3	63.9	59.2	60.4	70.5	I	12.3	X	1.0	6.7	X	1.0	36.1	Y	4.0	-	-	-	67.3	62.9	55.2	60.4	69.4
	7	68.5	64.1	61.4	60.6	70.9	I	13.8	X	1.0	7.5	X	1.0	38.5	Y	4.0	-	-	-	67.5	63.1	57.4	60.6	69.7
	8	68.6	64.3	63.0	60.8	71.2	I	15.2	Y	3.0	8.3	X	1.0	40.8	Y	4.0	-	-	-	65.6	63.3	59.0	60.8	68.9
	9	68.7	64.3	64.0	60.9	71.4	I	16.6	Y	3.0	9.1	X	1.0	42.9	Y	4.0	-	-	-	65.7	63.3	60.0	60.9	69.1
	10	68.8	64.4	64.7	61.0	71.6	I	18.0	Y	3.0	9.9	X	1.0	44.9	Y	4.0	-	-	-	65.8	63.4	60.7	61.0	69.3
	11	68.8	64.5	65.1	61.0	71.7	I	19.4	Y	3.0	10.6	X	1.0	46.7	Z	6.0	-	-	-	65.8	63.5	59.1	61.0	69.1
	12	68.9	64.5	65.1	61.1	71.8	I	20.7	Y	3.0	11.4	X	1.0	48.4	Z	6.0	-	-	-	65.9	63.5	59.1	61.1	69.2
	13	68.9	64.5	65.2	61.1	71.8	I	22.0	Y	3.0	12.1	X	1.0	50.0	Z	6.0	-	-	-	65.9	63.5	59.2	61.1	69.2
	14	68.9	64.5	65.2	61.1	71.8	I	23.3	Y	3.0	12.9	X	1.0	51.6	Z	6.0	-	-	-	65.9	63.5	59.2	61.1	69.2
	15	68.8	64.5	65.1	61.2	71.8	I	24.6	Y	3.0	13.6	X	1.0	53.0	Z	6.0	-	-	-	65.8	63.5	59.1	61.2	69.1
	16	68.8	64.5	65.0	61.2	71.7	I	25.8	Y	3.0	14.4	X	1.0	54.3	Z	6.0	-	-	-	65.8	63.5	59.0	61.2	69.1
	17	68.7	64.4	64.9	61.2	71.7	I	27.0	Y	3.0	15.1	Y	3.0	55.6	Z	6.0	-	-	-	65.7	61.4	58.9	61.2	68.6
	18	68.7	64.4	64.8	61.2	71.6	I	28.2	Y	3.0	15.9	Y	3.0	56.7	Z	6.0	-	-	-	65.7	61.4	58.8	61.2	68.6
	19	68.6	64.4	64.6	61.2	71.5	I	29.4	Y	3.0	16.6	Y	3.0	57.8	Z	6.0	-	-	-	65.6	61.4	58.6	61.2	68.5
	20	68.6	64.4	64.5	61.3	71.5	I	30.5	Y	3.0	17.3	Y	3.0	58.9	Z	6.0	-	-	-	65.6	61.4	58.5	61.3	68.5
	21	68.5	64.4	64.4	61.3	71.4	I	31.6	Y	3.0	18.0	Y	3.0	59.9	Z	6.0	-	-	-	65.5	61.4	58.4	61.3	68.4
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	68.3	64.3	64.0	61.3	71.3	I	34.4	Y	3.0	19.9	Y	3.0	62.2	Z	6.0	-	-	-	65.3	61.3	58.0	61.3	68.3
	24	68.3	64.3	63.9	61.3	71.2	I	35.5	Y	3.0	20.6	Y	3.0	63.0	Z	6.0	-	-	-	65.3	61.3	57.9	61.3	68.3
	25	68.2	64.3	63.8	61.4	71.2	I	36.5	Y	3.0	21.3	Y	3.0	63.8	Z	6.0	-	-	-	65.2	61.3	57.8	61.4	68.2
	26	68.2	64.2	63.7	61.4	71.1	I	37.4	Y	3.0	22.0	Y	3.0	64.5	Z	6.0	-	-	-	65.2	61.2	57.7	61.4	68.2
	27	68.1	64.2	63.6	61.4	71.1	I	38.4	Y	3.0	22.7	Y	3.0	65.2	Z	6.0	-	-	-	65.1	61.2	57.6	61.4	68.1
	28	68.1	64.2	63.5	61.4	71.0	I	39.3	Y	3.0	23.3	Y	3.0	65.8	Z	6.0	-	-	-	65.1	61.2	57.5	61.4	68.1
	29	68.0	64.3	63.4	61.4	71.0	I	40.2	Y	3.0	24.0	Y	3.0	66.4	Z	6.0	-	-	-	65.0	61.3	57.4	61.4	68.1
	30	68.0	64.3	63.2	61.4	70.9	I	41.1	Y	3.0	24.7	Y	3.0	67.0	Z	6.0	-	-	-	65.0	61.3	57.2	61.4	68.1
	31	67.9	64.3	63.1	61.4	70.9	I	41.9	Y	3.0	25.3	Y	3.0	67.6	Z	6.0	-	-	-	64.9	61.3	57.1	61.4	68.0
	32	67.8	64.3	63.0	61.5	70.9	I	42.7	Y	3.0	25.9	Y	3.0	68.1	Z	6.0	-	-	-	64.8	61.3	57.0	61.5	68.0
	33	67.8	64.3	62.9	61.4	70.8	I	43.5	Y	3.0	26.6	Y	3.0	68.7	Z	6.0	-	-	-	64.8	61.3	56.9	61.4	68.0
	34	67.7	64.3	62.8	61.5	70.8	I	44.3	Y	3.0	27.2	Y	3.0	69.1	Z	6.0	-	-	-	64.7	61.3	56.8	61.5	67.9
	35	67.7	64.3	62.7	61.5	70.7	I	45.1	Z	5.0	27.8	Y	3.0	69.6	Z	6.0	-	-	-	62.7	61.3	56.7	61.5	67.1
	36	67.6	64.2	62.7	61.5	70.7	I	45.8	Z	5.0	28.5	Y	3.0	70.1	Z	6.0	-	-	-	62.6	61.2	56.7	61.5	67.0
	37	67.5	64.2	62.6	61.5	70.6	I	46.6	Z	5.0	29.1	Y	3.0	70.5	Z	6.0	-	-	-	62.5	61.2	56.6	61.5	67.0
	38	67.5	64.2	62.5	61.5	70.6	I	47.3	Z	5.0	29.7	Y	3.0	70.9	Z	6.0	-	-	-	62.5	61.2	56.5	61.5	67.0
	39	67.4	64.1	62.4	61.6	70.5	I	48.0	Z	5.0	30.3	Y	3.0	71.3	Z	6.0	-	-	-	62.4	61.1	56.4	61.6	66.9
	40	67.4	64.1	62.3	61.6	70.5	I	48.6	Z	5.0	30.8	Y	3.0	71.7	Z	6.0	-	-	-	62.4	61.1	56.3	61.6	66.9
	41	67.3	64.1	62.2	61.6	70.4	N/A	49.3	Z	-	31.4	Y	-	72.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	42	67.2	64.0	62.1	61.7	70.4	N/A	49.9	Z	-	32.0	Y	-	72.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	43	67.2	64.0	62.0	61.7	70.3	N/A	50.6	Z	-	32.6	Y	-	72.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	44	67.1	64.0	62.0	61.7	70.3	N/A	51.2	Z	-	33.1	Y	-	73.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	67.1	64.0	61.9	61.7	70.3	N/A	51.7	Z	-	33.7	Y	-	73.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than “Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R111b	4	67.6	63.8	55.0	59.4	69.7	N/A	9.9	X	-	5.3	X	-	30.9	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	68.4	64.0	57.0	59.8	70.4	I	11.4	X	1.0	6.1	X	1.0	33.6	Y	4.0	-	-	-	67.4	63.0	53.0	59.8	69.4
	6	68.7	64.2	59.0	60.1	70.7	I	13.0	X	1.0	6.9	X	1.0	36.1	Y	4.0	-	-	-	67.7	63.2	55.0	60.1	69.7
	7	68.9	64.4	61.1	60.3	71.1	I	14.5	X	1.0	7.7	X	1.0	38.5	Y	4.0	-	-	-	67.9	63.4	57.1	60.3	70.0
	8	68.9	64.5	62.8	60.5	71.3	I	16.0	Y	3.0	8.4	X	1.0	40.8	Y	4.0	-	-	-	65.9	63.5	58.8	60.5	69.0
	9	69.0	64.6	63.8	60.6	71.6	I	17.4	Y	3.0	9.2	X	1.0	42.9	Y	4.0	-	-	-	66.0	63.6	59.8	60.6	69.2
	10	69.2	64.7	64.5	60.7	71.8	I	18.9	Y	3.0	10.0	X	1.0	44.8	Y	4.0	-	-	-	66.2	63.7	60.5	60.7	69.4
	11	69.2	64.7	65.0	60.8	71.9	I	20.3	Y	3.0	10.8	X	1.0	46.7	Z	6.0	-	-	-	66.2	63.7	59.0	60.8	69.3
	12	69.2	64.7	65.2	60.8	72.0	I	21.7	Y	3.0	11.6	X	1.0	48.4	Z	6.0	-	-	-	66.2	63.7	59.2	60.8	69.3
	13	69.2	64.7	65.2	60.9	72.0	I	23.0	Y	3.0	12.3	X	1.0	50.0	Z	6.0	-	-	-	66.2	63.7	59.2	60.9	69.3
	14	69.2	64.7	65.2	60.9	72.0	I	24.4	Y	3.0	13.1	X	1.0	51.5	Z	6.0	-	-	-	66.2	63.7	59.2	60.9	69.3
	15	69.1	64.7	65.1	60.9	71.9	I	25.7	Y	3.0	13.9	X	1.0	53.0	Z	6.0	-	-	-	66.1	63.7	59.1	60.9	69.3
	16	69.1	64.7	65.0	61.0	71.9	I	27.0	Y	3.0	14.6	X	1.0	54.3	Z	6.0	-	-	-	66.1	63.7	59.0	61.0	69.3
	17	69.0	64.7	64.9	61.0	71.8	I	28.2	Y	3.0	15.4	Y	3.0	55.5	Z	6.0	-	-	-	66.0	61.7	58.9	61.0	68.7
	18	69.0	64.7	64.8	61.0	71.8	I	29.4	Y	3.0	16.1	Y	3.0	56.7	Z	6.0	-	-	-	66.0	61.7	58.8	61.0	68.7
	19	68.9	64.6	64.6	61.0	71.7	I	30.6	Y	3.0	16.9	Y	3.0	57.8	Z	6.0	-	-	-	65.9	61.6	58.6	61.0	68.6
	20	68.9	64.6	64.5	61.1	71.7	I	31.8	Y	3.0	17.6	Y	3.0	58.9	Z	6.0	-	-	-	65.9	61.6	58.5	61.1	68.7
	21	68.8	64.6	64.4	61.1	71.6	I	32.9	Y	3.0	18.3	Y	3.0	59.8	Z	6.0	-	-	-	65.8	61.6	58.4	61.1	68.6
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	68.6	64.5	64.0	61.1	71.4	I	35.8	Y	3.0	20.2	Y	3.0	62.2	Z	6.0	-	-	-	65.6	61.5	58.0	61.1	68.4
	24	68.6	64.5	63.9	61.2	71.4	I	36.8	Y	3.0	20.9	Y	3.0	63.0	Z	6.0	-	-	-	65.6	61.5	57.9	61.2	68.4
	25	68.5	64.5	63.8	61.2	71.3	I	37.8	Y	3.0	21.6	Y	3.0	63.7	Z	6.0	-	-	-	65.5	61.5	57.8	61.2	68.4
	26	68.5	64.4	63.7	61.2	71.3	I	38.8	Y	3.0	22.3	Y	3.0	64.5	Z	6.0	-	-	-	65.5	61.4	57.7	61.2	68.3
	27	68.4	64.5	63.6	61.2	71.2	I	39.8	Y	3.0	23.0	Y	3.0	65.2	Z	6.0	-	-	-	65.4	61.5	57.6	61.2	68.3
	28	68.3	64.5	63.5	61.2	71.2	I	40.7	Y	3.0	23.7	Y	3.0	65.8	Z	6.0	-	-	-	65.3	61.5	57.5	61.2	68.2
	29	68.3	64.5	63.4	61.3	71.1	I	41.6	Y	3.0	24.4	Y	3.0	66.4	Z	6.0	-	-	-	65.3	61.5	57.4	61.3	68.3
	30	68.2	64.5	63.2	61.3	71.1	I	42.5	Y	3.0	25.0	Y	3.0	67.0	Z	6.0	-	-	-	65.2	61.5	57.2	61.3	68.2
	31	68.1	64.5	63.1	61.3	71.1	I	43.4	Y	3.0	25.7	Y	3.0	67.6	Z	6.0	-	-	-	65.1	61.5	57.1	61.3	68.1
	32	68.1	64.5	63.0	61.3	71.0	I	44.2	Y	3.0	26.3	Y	3.0	68.1	Z	6.0	-	-	-	65.1	61.5	57.0	61.3	68.1
	33	68.0	64.5	62.9	61.3	70.9	I	45.0	Y	3.0	27.0	Y	3.0	68.6	Z	6.0	-	-	-	65.0	61.5	56.9	61.3	68.1
	34	67.9	64.5	62.8	61.3	70.9	I	45.8	Z	5.0	27.6	Y	3.0	69.1	Z	6.0	-	-	-	62.9	61.5	56.8	61.3	67.2
	35	67.9	64.5	62.7	61.3	70.8	I	46.6	Z	5.0	28.3	Y	3.0	69.6	Z	6.0	-	-	-	62.9	61.5	56.7	61.3	67.1
	36	67.8	64.4	62.7	61.3	70.8	I	47.3	Z	5.0	28.9	Y	3.0	70.0	Z	6.0	-	-	-	62.8	61.4	56.7	61.3	67.1
	37	67.7	64.4	62.6	61.3	70.7	I	48.0	Z	5.0	29.5	Y	3.0	70.5	Z	6.0	-	-	-	62.7	61.4	56.6	61.3	67.0
	38	67.7	64.4	62.5	61.4	70.7	I	48.7	Z	5.0	30.1	Y	3.0	70.9	Z	6.0	-	-	-	62.7	61.4	56.5	61.4	67.0
	39	67.6	64.3	62.4	61.4	70.6	I	49.4	Z	5.0	30.7	Y	3.0	71.3	Z	6.0	-	-	-	62.6	61.3	56.4	61.4	67.0
	40	67.5	64.3	62.3	61.4	70.6	I	50.1	Z	5.0	31.3	Y	3.0	71.7	Z	6.0	-	-	-	62.5	61.3	56.3	61.4	66.9
	41	67.5	64.2	62.2	61.5	70.5	I	50.7	Z	5.0	31.9	Y	3.0	72.0	Z	6.0	-	-	-	62.5	61.2	56.2	61.5	66.9
	42	67.4	64.2	62.1	61.5	70.5	I	51.4	Z	5.0	32.5	Y	3.0	72.4	Z	6.0	-	-	-	62.4	61.2	56.1	61.5	66.9
	43	67.4	64.2	62.0	61.5	70.4	I	52.0	Z	5.0	33.0	Y	3.0	72.7	Z	6.0	-	-	-	62.4	61.2	56.0	61.5	66.9
	44	67.3	64.2	62.0	61.6	70.4	N/A	52.6	Z	-	33.6	Y	-	73.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	67.2	64.2	61.9	61.6	70.4	N/A	53.1	Z	-	34.1	Y	-	73.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than “Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R111c	4	67.8	64.0	55.1	59.4	69.9	N/A	10.1	X	-	5.3	X	-	30.8	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	68.6	64.1	57.1	59.9	70.5	I	11.7	X	1.0	6.1	X	1.0	33.5	Y	4.0	-	-	-	67.6	63.1	53.1	59.9	69.5
	6	68.8	64.3	59.0	60.1	70.9	I	13.3	X	1.0	6.9	X	1.0	36.1	Y	4.0	-	-	-	67.8	63.3	55.0	60.1	69.8
	7	69.0	64.5	61.0	60.3	71.2	I	14.8	X	1.0	7.7	X	1.0	38.5	Y	4.0	-	-	-	68.0	63.5	57.0	60.3	70.1
	8	69.1	64.6	62.6	60.5	71.5	I	16.3	Y	3.0	8.5	X	1.0	40.7	Y	4.0	-	-	-	66.1	63.6	58.6	60.5	69.1
	9	69.2	64.7	63.7	60.6	71.7	I	17.8	Y	3.0	9.3	X	1.0	42.8	Y	4.0	-	-	-	66.2	63.7	59.7	60.6	69.3
	10	69.3	64.8	64.5	60.7	71.9	I	19.3	Y	3.0	10.1	X	1.0	44.8	Y	4.0	-	-	-	66.3	63.8	60.5	60.7	69.5
	11	69.3	64.8	65.0	60.8	72.0	I	20.7	Y	3.0	10.9	X	1.0	46.6	Z	6.0	-	-	-	66.3	63.8	59.0	60.8	69.4
	12	69.4	64.8	65.1	60.8	72.1	I	22.2	Y	3.0	11.7	X	1.0	48.4	Z	6.0	-	-	-	66.4	63.8	59.1	60.8	69.4
	13	69.3	64.8	65.2	60.9	72.1	I	23.5	Y	3.0	12.4	X	1.0	50.0	Z	6.0	-	-	-	66.3	63.8	59.2	60.9	69.4
	14	69.3	64.8	65.2	60.9	72.0	I	24.9	Y	3.0	13.2	X	1.0	51.5	Z	6.0	-	-	-	66.3	63.8	59.2	60.9	69.4
	15	69.2	64.8	65.1	60.9	72.0	I	26.2	Y	3.0	14.0	X	1.0	52.9	Z	6.0	-	-	-	66.2	63.8	59.1	60.9	69.4
	16	69.2	64.8	64.9	61.0	71.9	I	27.5	Y	3.0	14.7	X	1.0	54.3	Z	6.0	-	-	-	66.2	63.8	58.9	61.0	69.3
	17	69.1	64.8	64.9	61.0	71.9	I	28.8	Y	3.0	15.5	Y	3.0	55.5	Z	6.0	-	-	-	66.1	61.8	58.9	61.0	68.8
	18	69.1	64.7	64.8	61.1	71.8	I	30.0	Y	3.0	16.3	Y	3.0	56.7	Z	6.0	-	-	-	66.1	61.7	58.8	61.1	68.8
	19	69.0	64.7	64.6	61.0	71.8	I	31.3	Y	3.0	17.0	Y	3.0	57.8	Z	6.0	-	-	-	66.0	61.7	58.6	61.0	68.7
	20	68.9	64.7	64.5	61.1	71.7	I	32.4	Y	3.0	17.7	Y	3.0	58.8	Z	6.0	-	-	-	65.9	61.7	58.5	61.1	68.7
	21	68.9	64.7	64.4	61.1	71.7	I	33.6	Y	3.0	18.5	Y	3.0	59.8	Z	6.0	-	-	-	65.9	61.7	58.4	61.1	68.7
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	68.7	64.6	64.0	61.1	71.5	I	36.5	Y	3.0	20.4	Y	3.0	62.2	Z	6.0	-	-	-	65.7	61.6	58.0	61.1	68.5
	24	68.7	64.6	63.9	61.2	71.5	I	37.5	Y	3.0	21.1	Y	3.0	63.0	Z	6.0	-	-	-	65.7	61.6	57.9	61.2	68.5
	25	68.6	64.5	63.8	61.2	71.4	I	38.5	Y	3.0	21.8	Y	3.0	63.7	Z	6.0	-	-	-	65.6	61.5	57.8	61.2	68.4
	26	68.5	64.6	63.7	61.2	71.3	I	39.5	Y	3.0	22.5	Y	3.0	64.4	Z	6.0	-	-	-	65.5	61.6	57.7	61.2	68.4
	27	68.5	64.6	63.6	61.2	71.3	I	40.5	Y	3.0	23.2	Y	3.0	65.1	Z	6.0	-	-	-	65.5	61.6	57.6	61.2	68.4
	28	68.4	64.6	63.5	61.3	71.2	I	41.4	Y	3.0	23.9	Y	3.0	65.8	Z	6.0	-	-	-	65.4	61.6	57.5	61.3	68.3
	29	68.3	64.6	63.4	61.3	71.2	I	42.3	Y	3.0	24.5	Y	3.0	66.4	Z	6.0	-	-	-	65.3	61.6	57.4	61.3	68.3
	30	68.3	64.6	63.2	61.3	71.1	I	43.2	Y	3.0	25.2	Y	3.0	67.0	Z	6.0	-	-	-	65.3	61.6	57.2	61.3	68.3
	31	68.2	64.6	63.1	61.3	71.1	I	44.1	Y	3.0	25.9	Y	3.0	67.6	Z	6.0	-	-	-	65.2	61.6	57.1	61.3	68.2
	32	68.1	64.6	63.0	61.3	71.1	I	44.9	Y	3.0	26.5	Y	3.0	68.1	Z	6.0	-	-	-	65.1	61.6	57.0	61.3	68.2
	33	68.1	64.6	62.9	61.3	71.0	I	45.7	Z	5.0	27.2	Y	3.0	68.6	Z	6.0	-	-	-	63.1	61.6	56.9	61.3	67.3
	34	68.0	64.6	62.8	61.3	70.9	I	46.5	Z	5.0	27.8	Y	3.0	69.1	Z	6.0	-	-	-	63.0	61.6	56.8	61.3	67.2
	35	67.9	64.5	62.7	61.3	70.9	I	47.2	Z	5.0	28.4	Y	3.0	69.6	Z	6.0	-	-	-	62.9	61.5	56.7	61.3	67.1
	36	67.9	64.5	62.7	61.3	70.8	I	48.0	Z	5.0	29.1	Y	3.0	70.0	Z	6.0	-	-	-	62.9	61.5	56.7	61.3	67.1
	37	67.8	64.5	62.6	61.3	70.8	I	48.7	Z	5.0	29.7	Y	3.0	70.5	Z	6.0	-	-	-	62.8	61.5	56.6	61.3	67.1
	38	67.7	64.4	62.5	61.3	70.7	I	49.4	Z	5.0	30.3	Y	3.0	70.9	Z	6.0	-	-	-	62.7	61.4	56.5	61.3	67.0
	39	67.7	64.4	62.4	61.4	70.7	I	50.1	Z	5.0	30.9	Y	3.0	71.3	Z	6.0	-	-	-	62.7	61.4	56.4	61.4	67.0
	40	67.6	64.3	62.3	61.4	70.6	I	50.8	Z	5.0	31.5	Y	3.0	71.7	Z	6.0	-	-	-	62.6	61.3	56.3	61.4	67.0
	41	67.5	64.3	62.2	61.4	70.6	I	51.4	Z	5.0	32.1	Y	3.0	72.0	Z	6.0	-	-	-	62.5	61.3	56.2	61.4	66.9
	42	67.5	64.3	62.1	61.5	70.5	I	52.0	Z	5.0	32.7	Y	3.0	72.4	Z	6.0	-	-	-	62.5	61.3	56.1	61.5	66.9
	43	67.4	64.2	62.0	61.5	70.5	I	52.6	Z	5.0	33.2	Y	3.0	72.7	Z	6.0	-	-	-	62.4	61.2	56.0	61.5	66.9
	44	67.3	64.2	62.0	61.5	70.4	N/A	53.2	Z	-	33.8	Y	-	73.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	67.3	64.2	61.9	61.6	70.4	N/A	53.8	Z	-	34.4	Y	-	73.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than “Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance											Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R112a	4	68.8	65.2	54.9	59.8	70.8	I	12.5	X	1.0	5.7	X	1.0	30.9	Y	4.0	-	-	-	67.8	64.2	50.9	59.8	69.9
	5	69.8	65.4	58.5	60.1	71.7	II	14.4	X	2.5	6.5	X	2.5	33.6	Y	6.0	-	-	-	67.3	62.9	52.5	60.1	69.3
	6	70.2	65.5	60.1	60.3	72.1	I	16.3	Y	3.0	7.4	X	1.0	36.2	Y	4.0	-	-	-	67.2	64.5	56.1	60.3	69.8
	7	70.5	65.6	61.3	60.4	72.4	I	18.2	Y	3.0	8.3	X	1.0	38.6	Y	4.0	-	-	-	67.5	64.6	57.3	60.4	70.1
	8	70.6	65.7	62.5	60.5	72.6	I	20.0	Y	3.0	9.1	X	1.0	40.8	Y	4.0	-	-	-	67.6	64.7	58.5	60.5	70.2
	9	70.6	65.7	63.5	60.5	72.7	II	21.7	Y	5.0	10.0	X	2.5	42.9	Y	6.0	-	-	-	65.6	63.2	57.5	60.5	68.7
	10	70.6	65.8	64.5	60.6	72.8	I	23.5	Y	3.0	10.8	X	1.0	44.9	Y	4.0	-	-	-	67.6	64.8	60.5	60.6	70.4
	11	70.6	65.8	65.0	60.6	72.9	I	25.2	Y	3.0	11.6	X	1.0	46.7	Z	6.0	-	-	-	67.6	64.8	59.0	60.6	70.3
	12	70.5	65.8	65.2	60.7	72.9	I	26.8	Y	3.0	12.5	X	1.0	48.5	Z	6.0	-	-	-	67.5	64.8	59.2	60.7	70.3
	13	70.4	65.8	65.2	60.7	72.9	I	28.4	Y	3.0	13.3	X	1.0	50.1	Z	6.0	-	-	-	67.4	64.8	59.2	60.7	70.2
	14	70.4	65.7	65.2	60.7	72.8	I	29.9	Y	3.0	14.1	X	1.0	51.6	Z	6.0	-	-	-	67.4	64.7	59.2	60.7	70.2
	15	70.3	65.7	65.1	60.8	72.7	I	31.4	Y	3.0	14.9	X	1.0	53.0	Z	6.0	-	-	-	67.3	64.7	59.1	60.8	70.1
	16	70.2	65.7	65.0	60.8	72.7	I	32.9	Y	3.0	15.7	Y	3.0	54.3	Z	6.0	-	-	-	67.2	62.7	59.0	60.8	69.6
	17	70.1	65.7	64.9	60.9	72.6	I	34.3	Y	3.0	16.5	Y	3.0	55.6	Z	6.0	-	-	-	67.1	62.7	58.9	60.9	69.5
	18	70.0	65.7	64.8	60.9	72.6	I	35.7	Y	3.0	17.3	Y	3.0	56.8	Z	6.0	-	-	-	67.0	62.7	58.8	60.9	69.5
	19	70.0	65.6	64.6	60.9	72.5	I	37.0	Y	3.0	18.1	Y	3.0	57.9	Z	6.0	-	-	-	67.0	62.6	58.6	60.9	69.4
	20	69.9	65.6	64.5	60.9	72.4	I	38.3	Y	3.0	18.9	Y	3.0	58.9	Z	6.0	-	-	-	66.9	62.6	58.5	60.9	69.4
	21	69.8	65.5	64.4	60.9	72.3	I	39.5	Y	3.0	19.7	Y	3.0	59.9	Z	6.0	-	-	-	66.8	62.5	58.4	60.9	69.3
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	69.6	65.5	64.1	60.9	72.1	I	42.5	Y	3.0	21.7	Y	3.0	62.2	Z	6.0	-	-	-	66.6	62.5	58.1	60.9	69.2
	24	69.5	65.4	63.9	60.9	72.1	I	43.6	Y	3.0	22.4	Y	3.0	63.0	Z	6.0	-	-	-	66.5	62.4	57.9	60.9	69.1
	25	69.4	65.5	63.8	60.9	72.0	I	44.6	Y	3.0	23.2	Y	3.0	63.8	Z	6.0	-	-	-	66.4	62.5	57.8	60.9	69.0
	26	69.3	65.4	63.7	60.9	71.9	I	45.7	Z	5.0	23.9	Y	3.0	64.5	Z	6.0	-	-	-	64.3	62.4	57.7	60.9	68.0
	27	69.3	65.4	63.6	60.9	71.9	I	46.6	Z	5.0	24.6	Y	3.0	65.2	Z	6.0	-	-	-	64.3	62.4	57.6	60.9	67.9
	28	69.2	65.4	63.5	60.9	71.8	I	47.6	Z	5.0	25.3	Y	3.0	65.9	Z	6.0	-	-	-	64.2	62.4	57.5	60.9	67.9
	29	69.1	65.4	63.4	60.9	71.8	I	48.5	Z	5.0	26.1	Y	3.0	66.5	Z	6.0	-	-	-	64.1	62.4	57.4	60.9	67.8
	30	69.0	65.4	63.3	60.9	71.7	I	49.4	Z	5.0	26.7	Y	3.0	67.1	Z	6.0	-	-	-	64.0	62.4	57.3	60.9	67.8
	31	68.9	65.3	63.2	60.9	71.6	I	50.2	Z	5.0	27.4	Y	3.0	67.6	Z	6.0	-	-	-	63.9	62.3	57.2	60.9	67.7
	32	68.8	65.3	63.1	60.9	71.6	I	51.0	Z	5.0	28.1	Y	3.0	68.2	Z	6.0	-	-	-	63.8	62.3	57.1	60.9	67.7
	33	68.8	65.2	63.0	60.9	71.5	I	51.8	Z	5.0	28.8	Y	3.0	68.7	Z	6.0	-	-	-	63.8	62.2	57.0	60.9	67.6
	34	68.7	65.2	62.9	60.9	71.4	I	52.6	Z	5.0	29.5	Y	3.0	69.2	Z	6.0	-	-	-	63.7	62.2	56.9	60.9	67.6
	35	68.6	65.2	62.8	60.9	71.4	I	53.3	Z	5.0	30.1	Y	3.0	69.6	Z	6.0	-	-	-	63.6	62.2	56.8	60.9	67.5
	36	68.6	65.1	62.7	60.9	71.3	I	54.0	Z	5.0	30.8	Y	3.0	70.1	Z	6.0	-	-	-	63.6	62.1	56.7	60.9	67.5
	37	68.5	65.1	62.6	60.9	71.2	I	54.7	Z	5.0	31.4	Y	3.0	70.5	Z	6.0	-	-	-	63.5	62.1	56.6	60.9	67.4
	38	68.4	65.0	62.5	60.9	71.2	I	55.4	Z	5.0	32.0	Y	3.0	70.9	Z	6.0	-	-	-	63.4	62.0	56.5	60.9	67.4
	39	68.3	65.0	62.4	60.9	71.1	I	56.0	Z	5.0	32.6	Y	3.0	71.3	Z	6.0	-	-	-	63.3	62.0	56.4	60.9	67.3
	40	68.3	65.0	62.3	60.9	71.1	I	56.6	Z	5.0	33.3	Y	3.0	71.7	Z	6.0	-	-	-	63.3	62.0	56.3	60.9	67.3
	41	68.2	64.9	62.2	60.9	71.0	I	57.2	Z	5.0	33.9	Y	3.0	72.1	Z	6.0	-	-	-	63.2	61.9	56.2	60.9	67.2
	42	68.1	64.9	62.1	61.0	70.9	I	57.8	Z	5.0	34.5	Y	3.0	72.4	Z	6.0	-	-	-	63.1	61.9	56.1	61.0	67.2
	43	68.1	64.8	62.0	61.0	70.9	I	58.4	Z	5.0	35.0	Y	3.0	72.8	Z	6.0	-	-	-	63.1	61.8	56.0	61.0	67.2
	44	68.0	64.8	62.0	61.0	70.8	I	58.9	Z	5.0	35.6	Y	3.0	73.1	Z	6.0	-	-	-	63.0	61.8	56.0	61.0	67.1
	45	67.9	64.8	61.9	61.1	70.8	I	59.5	Z	5.0	36.2	Y	3.0	73.4	Z	6.0	-	-	-	62.9	61.8	55.9	61.1	67.1

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R112b	4	69.0	65.3	55.5	59.9	71.0	I	12.8	X	1.0	5.7	X	1.0	31.1	Y	4.0	-	-	-	68.0	64.3	51.5	59.9	70.1
	5	70.0	65.5	59.1	60.2	71.8	II	14.8	X	2.5	6.6	X	2.5	33.8	Y	6.0	-	-	-	67.5	63.0	53.1	60.2	69.5
	6	70.5	65.6	60.5	60.4	72.3	I	16.8	Y	3.0	7.5	X	1.0	36.4	Y	4.0	-	-	-	67.5	64.6	56.5	60.4	70.0
	7	70.8	65.6	61.6	60.5	72.6	I	18.6	Y	3.0	8.3	X	1.0	38.8	Y	4.0	-	-	-	67.8	64.6	57.6	60.5	70.3
	8	70.9	65.7	62.6	60.6	72.8	I	20.5	Y	3.0	9.2	X	1.0	41.0	Y	4.0	-	-	-	67.9	64.7	58.6	60.6	70.4
	9	70.8	65.8	63.6	60.7	72.9	II	22.3	Y	5.0	10.0	X	2.5	43.2	Y	6.0	-	-	-	65.8	63.3	57.6	60.7	68.9
	10	70.8	65.8	64.6	60.7	73.0	I	24.1	Y	3.0	10.9	X	1.0	45.1	Z	6.0	-	-	-	67.8	64.8	58.6	60.7	70.4
	11	70.7	65.9	65.1	60.8	73.0	I	25.8	Y	3.0	11.7	X	1.0	47.0	Z	6.0	-	-	-	67.7	64.9	59.1	60.8	70.4
	12	70.7	65.8	65.3	60.8	73.0	I	27.5	Y	3.0	12.6	X	1.0	48.7	Z	6.0	-	-	-	67.7	64.8	59.3	60.8	70.4
	13	70.6	65.8	65.2	60.8	73.0	I	29.1	Y	3.0	13.4	X	1.0	50.3	Z	6.0	-	-	-	67.6	64.8	59.2	60.8	70.3
	14	70.5	65.8	65.3	60.9	72.9	I	30.6	Y	3.0	14.2	X	1.0	51.8	Z	6.0	-	-	-	67.5	64.8	59.3	60.9	70.3
	15	70.4	65.8	65.1	60.9	72.9	I	32.2	Y	3.0	15.1	Y	3.0	53.2	Z	6.0	-	-	-	67.4	62.8	59.1	60.9	69.8
	16	70.4	65.8	65.0	61.0	72.8	I	33.6	Y	3.0	15.9	Y	3.0	54.6	Z	6.0	-	-	-	67.4	62.8	59.0	61.0	69.8
	17	70.3	65.8	64.9	61.0	72.8	I	35.1	Y	3.0	16.7	Y	3.0	55.8	Z	6.0	-	-	-	67.3	62.8	58.9	61.0	69.7
	18	70.2	65.7	64.8	61.0	72.7	I	36.4	Y	3.0	17.5	Y	3.0	57.0	Z	6.0	-	-	-	67.2	62.7	58.8	61.0	69.6
	19	70.1	65.7	64.7	61.0	72.6	I	37.8	Y	3.0	18.3	Y	3.0	58.1	Z	6.0	-	-	-	67.1	62.7	58.7	61.0	69.5
	20	70.0	65.6	64.5	61.1	72.5	I	39.0	Y	3.0	19.1	Y	3.0	59.1	Z	6.0	-	-	-	67.0	62.6	58.5	61.1	69.5
	21	69.9	65.6	64.4	61.1	72.4	I	40.3	Y	3.0	19.9	Y	3.0	60.1	Z	6.0	-	-	-	66.9	62.6	58.4	61.1	69.4
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	69.7	65.6	64.1	61.0	72.3	I	43.3	Y	3.0	21.9	Y	3.0	62.4	Z	6.0	-	-	-	66.7	62.6	58.1	61.0	69.2
	24	69.6	65.5	63.9	61.0	72.2	I	44.4	Y	3.0	22.6	Y	3.0	63.2	Z	6.0	-	-	-	66.6	62.5	57.9	61.0	69.2
	25	69.6	65.5	63.8	61.1	72.1	I	45.5	Z	5.0	23.4	Y	3.0	64.0	Z	6.0	-	-	-	64.6	62.5	57.8	61.1	68.2
	26	69.5	65.5	63.7	61.0	72.0	I	46.5	Z	5.0	24.1	Y	3.0	64.7	Z	6.0	-	-	-	64.5	62.5	57.7	61.0	68.1
	27	69.4	65.5	63.6	61.1	72.0	I	47.4	Z	5.0	24.8	Y	3.0	65.4	Z	6.0	-	-	-	64.4	62.5	57.6	61.1	68.1
	28	69.3	65.5	63.5	61.1	71.9	I	48.4	Z	5.0	25.6	Y	3.0	66.0	Z	6.0	-	-	-	64.3	62.5	57.5	61.1	68.0
	29	69.2	65.5	63.4	61.1	71.9	I	49.3	Z	5.0	26.3	Y	3.0	66.6	Z	6.0	-	-	-	64.2	62.5	57.4	61.1	68.0
	30	69.1	65.4	63.3	61.1	71.8	I	50.2	Z	5.0	27.0	Y	3.0	67.2	Z	6.0	-	-	-	64.1	62.4	57.3	61.1	67.9
	31	69.1	65.4	63.2	61.1	71.7	I	51.0	Z	5.0	27.7	Y	3.0	67.8	Z	6.0	-	-	-	64.1	62.4	57.2	61.1	67.9
	32	69.0	65.3	63.1	61.0	71.7	I	51.8	Z	5.0	28.3	Y	3.0	68.3	Z	6.0	-	-	-	64.0	62.3	57.1	61.0	67.8
	33	68.9	65.3	63.0	61.0	71.6	I	52.6	Z	5.0	29.0	Y	3.0	68.8	Z	6.0	-	-	-	63.9	62.3	57.0	61.0	67.7
	34	68.8	65.2	62.9	61.0	71.5	I	53.4	Z	5.0	29.7	Y	3.0	69.3	Z	6.0	-	-	-	63.8	62.2	56.9	61.0	67.6
	35	68.7	65.2	62.8	61.0	71.5	I	54.1	Z	5.0	30.3	Y	3.0	69.8	Z	6.0	-	-	-	63.7	62.2	56.8	61.0	67.6
	36	68.7	65.1	62.7	61.0	71.4	I	54.8	Z	5.0	31.0	Y	3.0	70.2	Z	6.0	-	-	-	63.7	62.1	56.7	61.0	67.6
	37	68.6	65.1	62.6	61.0	71.3	I	55.5	Z	5.0	31.6	Y	3.0	70.7	Z	6.0	-	-	-	63.6	62.1	56.6	61.0	67.5
	38	68.5	65.1	62.5	61.0	71.3	I	56.1	Z	5.0	32.3	Y	3.0	71.1	Z	6.0	-	-	-	63.5	62.1	56.5	61.0	67.5
	39	68.4	65.0	62.4	61.0	71.2	I	56.8	Z	5.0	32.9	Y	3.0	71.5	Z	6.0	-	-	-	63.4	62.0	56.4	61.0	67.4
	40	68.3	65.0	62.3	61.1	71.1	I	57.4	Z	5.0	33.5	Y	3.0	71.8	Z	6.0	-	-	-	63.3	62.0	56.3	61.1	67.4
	41	68.3	64.9	62.2	61.1	71.1	I	58.0	Z	5.0	34.1	Y	3.0	72.2	Z	6.0	-	-	-	63.3	61.9	56.2	61.1	67.3
	42	68.2	64.9	62.1	61.1	71.0	I	58.6	Z	5.0	34.7	Y	3.0	72.6	Z	6.0	-	-	-	63.2	61.9	56.1	61.1	67.3
	43	68.1	64.9	62.0	61.1	71.0	I	59.1	Z	5.0	35.3	Y	3.0	72.9	Z	6.0	-	-	-	63.1	61.9	56.0	61.1	67.2
	44	68.0	64.8	62.0	61.2	70.9	I	59.7	Z	5.0	35.9	Y	3.0	73.2	Z	6.0	-	-	-	63.0	61.8	56.0	61.2	67.2
	45	68.0	64.8	61.9	61.2	70.9	I	60.2	Z	5.0	36.5	Y	3.0	73.5	Z	6.0	-	-	-	63.0	61.8	55.9	61.2	67.2

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R113b	4	69.5	65.6	57.3	60.1	71.5	II	13.7	X	2.5	5.9	X	2.5	31.7	Y	6.0	-	-	-	67.0	63.1	51.3	60.1	69.1
	5	70.6	65.7	60.4	60.3	72.4	I	15.8	Y	3.0	6.8	X	1.0	34.4	Y	4.0	-	-	-	67.6	64.7	56.4	60.3	70.1
	6	71.2	65.8	61.4	60.5	72.9	II	17.9	Y	5.0	7.6	X	2.5	37.0	Y	6.0	-	-	-	66.2	63.3	55.4	60.5	68.9
	7	71.4	65.9	62.3	60.6	73.1	II	19.9	Y	5.0	8.5	X	2.5	39.4	Y	6.0	-	-	-	66.4	63.4	56.3	60.6	69.1
	8	71.4	66.0	63.3	60.7	73.3	II	21.8	Y	5.0	9.4	X	2.5	41.7	Y	6.0	-	-	-	66.4	63.5	57.3	60.7	69.2
	9	71.3	66.0	64.1	60.8	73.3	II	23.7	Y	5.0	10.3	X	2.5	43.8	Y	6.0	-	-	-	66.3	63.5	58.1	60.8	69.2
	10	71.2	66.0	64.9	60.9	73.3	II	25.6	Y	5.0	11.1	X	2.5	45.8	Z	7.5	-	-	-	66.2	63.5	57.4	60.9	69.1
	11	71.2	66.1	65.3	60.9	73.4	II	27.4	Y	5.0	12.0	X	2.5	47.6	Z	7.5	-	-	-	66.2	63.6	57.8	60.9	69.2
	12	71.1	66.1	65.4	60.9	73.4	II	29.1	Y	5.0	12.9	X	2.5	49.3	Z	7.5	-	-	-	66.1	63.6	57.9	60.9	69.1
	13	71.0	66.1	65.4	60.9	73.3	II	30.8	Y	5.0	13.7	X	2.5	50.9	Z	7.5	-	-	-	66.0	63.6	57.9	60.9	69.1
	14	70.9	66.0	65.3	61.0	73.2	II	32.4	Y	5.0	14.6	X	2.5	52.4	Z	7.5	-	-	-	65.9	63.5	57.8	61.0	69.0
	15	70.8	66.0	65.2	61.0	73.2	I	34.0	Y	3.0	15.4	Y	3.0	53.8	Z	6.0	-	-	-	67.8	63.0	59.2	61.0	70.0
	16	70.8	66.0	65.1	61.0	73.1	I	35.5	Y	3.0	16.2	Y	3.0	55.2	Z	6.0	-	-	-	67.8	63.0	59.1	61.0	70.0
	17	70.7	66.0	65.0	61.0	73.0	I	37.0	Y	3.0	17.1	Y	3.0	56.4	Z	6.0	-	-	-	67.7	63.0	59.0	61.0	70.0
	18	70.6	65.9	64.8	61.0	72.9	I	38.4	Y	3.0	17.9	Y	3.0	57.6	Z	6.0	-	-	-	67.6	62.9	58.8	61.0	69.9
	19	70.5	65.9	64.7	61.1	72.9	I	39.7	Y	3.0	18.7	Y	3.0	58.6	Z	6.0	-	-	-	67.5	62.9	58.7	61.1	69.8
	20	70.4	65.9	64.5	61.1	72.8	I	41.0	Y	3.0	19.5	Y	3.0	59.7	Z	6.0	-	-	-	67.4	62.9	58.5	61.1	69.8
	21	70.3	65.8	64.4	61.1	72.7	I	42.3	Y	3.0	20.3	Y	3.0	60.6	Z	6.0	-	-	-	67.3	62.8	58.4	61.1	69.7
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	70.1	65.7	64.1	61.1	72.5	I	45.3	Z	5.0	22.3	Y	3.0	62.9	Z	6.0	-	-	-	65.1	62.7	58.1	61.1	68.5
	24	70.0	65.7	64.0	61.1	72.4	I	46.4	Z	5.0	23.1	Y	3.0	63.7	Z	6.0	-	-	-	65.0	62.7	58.0	61.1	68.4
	25	69.9	65.7	63.8	61.1	72.3	I	47.5	Z	5.0	23.9	Y	3.0	64.5	Z	6.0	-	-	-	64.9	62.7	57.8	61.1	68.4
	26	69.8	65.7	63.7	61.1	72.3	I	48.5	Z	5.0	24.6	Y	3.0	65.2	Z	6.0	-	-	-	64.8	62.7	57.7	61.1	68.3
	27	69.7	65.7	63.6	61.1	72.2	I	49.4	Z	5.0	25.3	Y	3.0	65.9	Z	6.0	-	-	-	64.7	62.7	57.6	61.1	68.2
	28	69.6	65.6	63.5	61.1	72.1	I	50.4	Z	5.0	26.1	Y	3.0	66.5	Z	6.0	-	-	-	64.6	62.6	57.5	61.1	68.2
	29	69.5	65.6	63.4	61.1	72.1	I	51.3	Z	5.0	26.8	Y	3.0	67.1	Z	6.0	-	-	-	64.5	62.6	57.4	61.1	68.1
	30	69.4	65.6	63.3	61.1	72.0	I	52.1	Z	5.0	27.5	Y	3.0	67.7	Z	6.0	-	-	-	64.4	62.6	57.3	61.1	68.1
	31	69.4	65.5	63.2	61.0	71.9	I	52.9	Z	5.0	28.2	Y	3.0	68.2	Z	6.0	-	-	-	64.4	62.5	57.2	61.0	68.0
	32	69.3	65.5	63.1	61.1	71.8	I	53.7	Z	5.0	28.9	Y	3.0	68.8	Z	6.0	-	-	-	64.3	62.5	57.1	61.1	68.0
	33	69.2	65.4	63.0	61.0	71.8	I	54.5	Z	5.0	29.6	Y	3.0	69.3	Z	6.0	-	-	-	64.2	62.4	57.0	61.0	67.9
	34	69.1	65.4	62.9	61.0	71.7	I	55.2	Z	5.0	30.3	Y	3.0	69.7	Z	6.0	-	-	-	64.1	62.4	56.9	61.0	67.8
	35	69.0	65.3	62.8	61.0	71.6	I	56.0	Z	5.0	30.9	Y	3.0	70.2	Z	6.0	-	-	-	64.0	62.3	56.8	61.0	67.7
	36	68.9	65.3	62.7	61.0	71.6	I	56.7	Z	5.0	31.6	Y	3.0	70.6	Z	6.0	-	-	-	63.9	62.3	56.7	61.0	67.7
	37	68.9	65.2	62.6	61.0	71.5	I	57.3	Z	5.0	32.2	Y	3.0	71.1	Z	6.0	-	-	-	63.9	62.2	56.6	61.0	67.7
	38	68.8	65.2	62.5	61.0	71.4	I	58.0	Z	5.0	32.9	Y	3.0	71.5	Z	6.0	-	-	-	63.8	62.2	56.5	61.0	67.6
	39	68.7	65.1	62.4	61.0	71.4	I	58.6	Z	5.0	33.5	Y	3.0	71.8	Z	6.0	-	-	-	63.7	62.1	56.4	61.0	67.5
	40	68.6	65.1	62.3	61.0	71.3	I	59.2	Z	5.0	34.1	Y	3.0	72.2	Z	6.0	-	-	-	63.6	62.1	56.3	61.0	67.5
	41	68.5	65.1	62.2	61.0	71.2	I	59.8	Z	5.0	34.7	Y	3.0	72.6	Z	6.0	-	-	-	63.5	62.1	56.2	61.0	67.4
	42	68.5	65.0	62.1	61.1	71.2	I	60.3	Z	5.0	35.3	Y	3.0	72.9	Z	6.0	-	-	-	63.5	62.0	56.1	61.1	67.4
	43	68.4	65.0	62.1	61.1	71.1	I	60.9	Z	5.0	35.9	Y	3.0	73.3	Z	6.0	-	-	-	63.4	62.0	56.1	61.1	67.4
	44	68.3	65.0	62.0	61.1	71.1	I	61.4	Z	5.0	36.5	Y	3.0	73.6	Z	6.0	-	-	-	63.3	62.0	56.0	61.1	67.3
	45	68.2	65.0	61.9	61.1	71.0	I	61.9	Z	5.0	37.1	Y	3.0	73.9	Z	6.0	-	-	-	63.2	62.0	55.9	61.1	67.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R113c	4	69.8	65.7	58.0	59.9	71.7	II	14.2	X	2.5	5.9	X	2.5	31.9	Y	6.0	-	-	-	67.3	63.2	52.0	59.9	69.3
	5	71.0	65.8	60.8	60.2	72.7	I	16.3	Y	3.0	6.8	X	1.0	34.6	Y	4.0	-	-	-	68.0	64.8	56.8	60.2	70.4
	6	71.6	65.9	61.7	60.4	73.2	II	18.5	Y	5.0	7.7	X	2.5	37.2	Y	6.0	-	-	-	66.6	63.4	55.7	60.4	69.2
	7	71.7	66.0	62.6	60.5	73.4	II	20.5	Y	5.0	8.6	X	2.5	39.6	Y	6.0	-	-	-	66.7	63.5	56.6	60.5	69.3
	8	71.7	66.1	63.6	60.6	73.5	II	22.5	Y	5.0	9.5	X	2.5	41.9	Y	6.0	-	-	-	66.7	63.6	57.6	60.6	69.4
	9	71.6	66.1	64.4	60.7	73.5	II	24.5	Y	5.0	10.4	X	2.5	44.0	Y	6.0	-	-	-	66.6	63.6	58.4	60.7	69.4
	10	71.5	66.2	65.1	60.8	73.6	II	26.4	Y	5.0	11.3	X	2.5	46.0	Z	7.5	-	-	-	66.5	63.7	57.6	60.8	69.3
	11	71.4	66.2	65.4	60.8	73.6	II	28.2	Y	5.0	12.1	X	2.5	47.8	Z	7.5	-	-	-	66.4	63.7	57.9	60.8	69.3
	12	71.3	66.2	65.4	60.8	73.5	II	30.0	Y	5.0	13.0	X	2.5	49.5	Z	7.5	-	-	-	66.3	63.7	57.9	60.8	69.3
	13	71.3	66.2	65.5	60.8	73.5	II	31.7	Y	5.0	13.9	X	2.5	51.1	Z	7.5	-	-	-	66.3	63.7	58.0	60.8	69.3
	14	71.2	66.1	65.4	60.9	73.4	II	33.3	Y	5.0	14.7	X	2.5	52.6	Z	7.5	-	-	-	66.2	63.6	57.9	60.9	69.2
	15	71.1	66.1	65.2	60.9	73.3	I	34.9	Y	3.0	15.6	Y	3.0	54.1	Z	6.0	-	-	-	68.1	63.1	59.2	60.9	70.2
	16	71.0	66.1	65.1	60.9	73.2	I	36.4	Y	3.0	16.4	Y	3.0	55.4	Z	6.0	-	-	-	68.0	63.1	59.1	60.9	70.2
	17	70.9	66.1	65.0	61.0	73.2	I	37.9	Y	3.0	17.2	Y	3.0	56.6	Z	6.0	-	-	-	67.9	63.1	59.0	61.0	70.1
	18	70.8	66.0	64.8	60.9	73.1	I	39.3	Y	3.0	18.1	Y	3.0	57.8	Z	6.0	-	-	-	67.8	63.0	58.8	60.9	70.0
	19	70.7	66.0	64.7	61.0	73.0	I	40.7	Y	3.0	18.9	Y	3.0	58.8	Z	6.0	-	-	-	67.7	63.0	58.7	61.0	69.9
	20	70.6	65.9	64.6	61.0	72.9	I	42.0	Y	3.0	19.7	Y	3.0	59.9	Z	6.0	-	-	-	67.6	62.9	58.6	61.0	69.9
	21	70.5	65.9	64.4	61.0	72.8	I	43.2	Y	3.0	20.5	Y	3.0	60.8	Z	6.0	-	-	-	67.5	62.9	58.4	61.0	69.8
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	70.3	65.8	64.1	61.0	72.6	I	46.3	Z	5.0	22.5	Y	3.0	63.1	Z	6.0	-	-	-	65.3	62.8	58.1	61.0	68.6
	24	70.2	65.8	64.0	61.0	72.6	I	47.4	Z	5.0	23.3	Y	3.0	63.9	Z	6.0	-	-	-	65.2	62.8	58.0	61.0	68.5
	25	70.1	65.8	63.8	61.0	72.5	I	48.4	Z	5.0	24.1	Y	3.0	64.6	Z	6.0	-	-	-	65.1	62.8	57.8	61.0	68.5
	26	70.0	65.8	63.7	60.9	72.4	I	49.4	Z	5.0	24.8	Y	3.0	65.4	Z	6.0	-	-	-	65.0	62.8	57.7	60.9	68.4
	27	69.9	65.7	63.6	60.9	72.3	I	50.4	Z	5.0	25.6	Y	3.0	66.0	Z	6.0	-	-	-	64.9	62.7	57.6	60.9	68.3
	28	69.8	65.7	63.5	60.9	72.2	I	51.3	Z	5.0	26.3	Y	3.0	66.7	Z	6.0	-	-	-	64.8	62.7	57.5	60.9	68.2
	29	69.7	65.7	63.4	60.9	72.2	I	52.2	Z	5.0	27.0	Y	3.0	67.3	Z	6.0	-	-	-	64.7	62.7	57.4	60.9	68.2
	30	69.6	65.6	63.3	60.9	72.1	I	53.0	Z	5.0	27.8	Y	3.0	67.8	Z	6.0	-	-	-	64.6	62.6	57.3	60.9	68.1
	31	69.5	65.6	63.2	60.9	72.0	I	53.9	Z	5.0	28.5	Y	3.0	68.4	Z	6.0	-	-	-	64.5	62.6	57.2	60.9	68.1
	32	69.5	65.5	63.1	60.9	72.0	I	54.7	Z	5.0	29.2	Y	3.0	68.9	Z	6.0	-	-	-	64.5	62.5	57.1	60.9	68.0
	33	69.4	65.5	63.0	60.9	71.9	I	55.4	Z	5.0	29.8	Y	3.0	69.4	Z	6.0	-	-	-	64.4	62.5	57.0	60.9	68.0
	34	69.3	65.4	62.9	60.9	71.8	I	56.1	Z	5.0	30.5	Y	3.0	69.9	Z	6.0	-	-	-	64.3	62.4	56.9	60.9	67.9
	35	69.2	65.4	62.8	60.9	71.7	I	56.9	Z	5.0	31.2	Y	3.0	70.3	Z	6.0	-	-	-	64.2	62.4	56.8	60.9	67.8
	36	69.1	65.3	62.7	60.9	71.7	I	57.5	Z	5.0	31.9	Y	3.0	70.8	Z	6.0	-	-	-	64.1	62.3	56.7	60.9	67.8
	37	69.1	65.3	62.6	60.9	71.6	I	58.2	Z	5.0	32.5	Y	3.0	71.2	Z	6.0	-	-	-	64.1	62.3	56.6	60.9	67.7
	38	69.0	65.3	62.5	60.9	71.5	I	58.8	Z	5.0	33.1	Y	3.0	71.6	Z	6.0	-	-	-	64.0	62.3	56.5	60.9	67.7
	39	68.9	65.2	62.4	60.9	71.4	I	59.4	Z	5.0	33.8	Y	3.0	72.0	Z	6.0	-	-	-	63.9	62.2	56.4	60.9	67.6
	40	68.8	65.2	62.3	60.9	71.4	I	60.0	Z	5.0	34.4	Y	3.0	72.3	Z	6.0	-	-	-	63.8	62.2	56.3	60.9	67.6
	41	68.7	65.1	62.2	60.9	71.3	I	60.6	Z	5.0	35.0	Y	3.0	72.7	Z	6.0	-	-	-	63.7	62.1	56.2	60.9	67.5
	42	68.7	65.1	62.1	60.9	71.3	I	61.1	Z	5.0	35.6	Y	3.0	73.0	Z	6.0	-	-	-	63.7	62.1	56.1	60.9	67.5
	43	68.6	65.0	62.1	60.9	71.2	I	61.7	Z	5.0	36.2	Y	3.0	73.4	Z	6.0	-	-	-	63.6	62.0	56.1	60.9	67.4
	44	68.5	65.0	62.0	61.0	71.1	I	62.2	Z	5.0	36.8	Y	3.0	73.7	Z	6.0	-	-	-	63.5	62.0	56.0	61.0	67.4
	45	68.4	65.0	61.9	61.0	71.1	I	62.7	Z	5.0	37.4	Y	3.0	74.0	Z	6.0	-	-	-	63.4	62.0	55.9	61.0	67.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4								
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R114a	4	70.1	65.8	58.8	60.0	72.0	II	14.8	X	2.5	6.0	X	2.5	32.2	Y	6.0	-	-	-	67.6	63.3	52.8	60.0	69.6
	5	71.6	66.0	61.6	60.3	73.2	II	17.0	Y	5.0	6.9	X	2.5	35.0	Y	6.0	-	-	-	66.6	63.5	55.6	60.3	69.2
	6	72.0	66.1	62.2	60.4	73.6	II	19.2	Y	5.0	7.8	X	2.5	37.6	Y	6.0	-	-	-	67.0	63.6	56.2	60.4	69.5
	7	72.1	66.2	63.0	60.6	73.7	II	21.3	Y	5.0	8.7	X	2.5	40.0	Y	6.0	-	-	-	67.1	63.7	57.0	60.6	69.6
	8	72.0	66.2	63.7	60.7	73.7	II	23.4	Y	5.0	9.6	X	2.5	42.3	Y	6.0	-	-	-	67.0	63.7	57.7	60.7	69.6
	9	71.9	66.3	64.6	60.8	73.8	II	25.4	Y	5.0	10.5	X	2.5	44.4	Y	6.0	-	-	-	66.9	63.8	58.6	60.8	69.6
	10	71.8	66.3	65.3	60.8	73.8	II	27.3	Y	5.0	11.4	X	2.5	46.3	Z	7.5	-	-	-	66.8	63.8	57.8	60.8	69.5
	11	71.7	66.3	65.4	60.8	73.8	II	29.2	Y	5.0	12.3	X	2.5	48.2	Z	7.5	-	-	-	66.7	63.8	57.9	60.8	69.5
	12	71.6	66.3	65.5	60.9	73.7	II	31.0	Y	5.0	13.2	X	2.5	49.9	Z	7.5	-	-	-	66.6	63.8	58.0	60.9	69.5
	13	71.6	66.3	65.5	60.9	73.7	II	32.8	Y	5.0	14.0	X	2.5	51.5	Z	7.5	-	-	-	66.6	63.8	58.0	60.9	69.5
	14	71.5	66.3	65.4	60.9	73.6	II	34.4	Y	5.0	14.9	X	2.5	53.0	Z	7.5	-	-	-	66.5	63.8	57.9	60.9	69.4
	15	71.4	66.2	65.3	60.9	73.5	II	36.0	Y	5.0	15.8	Y	5.0	54.4	Z	7.5	-	-	-	66.4	61.2	57.8	60.9	68.8
	16	71.3	66.2	65.1	61.0	73.4	II	37.6	Y	5.0	16.6	Y	5.0	55.7	Z	7.5	-	-	-	66.3	61.2	57.6	61.0	68.7
	17	71.2	66.2	65.1	61.0	73.4	II	39.1	Y	5.0	17.4	Y	5.0	56.9	Z	7.5	-	-	-	66.2	61.2	57.6	61.0	68.6
	18	71.1	66.1	64.9	61.0	73.3	I	40.5	Y	3.0	18.3	Y	3.0	58.1	Z	6.0	-	-	-	68.1	63.1	58.9	61.0	70.2
	19	71.0	66.1	64.8	61.0	73.2	I	41.9	Y	3.0	19.1	Y	3.0	59.2	Z	6.0	-	-	-	68.0	63.1	58.8	61.0	70.2
	20	70.9	66.1	64.7	61.0	73.1	I	43.2	Y	3.0	19.9	Y	3.0	60.2	Z	6.0	-	-	-	67.9	63.1	58.7	61.0	70.1
	21	70.8	66.0	64.5	61.0	73.0	I	44.4	Y	3.0	20.7	Y	3.0	61.1	Z	6.0	-	-	-	67.8	63.0	58.5	61.0	70.0
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	70.5	65.9	64.2	61.0	72.8	I	47.5	Z	5.0	22.8	Y	3.0	63.4	Z	6.0	-	-	-	65.5	62.9	58.2	61.0	68.7
	24	70.4	65.9	64.1	61.0	72.7	I	48.6	Z	5.0	23.6	Y	3.0	64.2	Z	6.0	-	-	-	65.4	62.9	58.1	61.0	68.6
	25	70.3	65.9	63.9	61.0	72.6	I	49.6	Z	5.0	24.4	Y	3.0	64.9	Z	6.0	-	-	-	65.3	62.9	57.9	61.0	68.6
	26	70.2	65.8	63.8	61.0	72.6	I	50.6	Z	5.0	25.1	Y	3.0	65.6	Z	6.0	-	-	-	65.2	62.8	57.8	61.0	68.5
	27	70.1	65.8	63.7	61.0	72.5	I	51.6	Z	5.0	25.9	Y	3.0	66.3	Z	6.0	-	-	-	65.1	62.8	57.7	61.0	68.4
	28	70.1	65.8	63.6	61.0	72.4	I	52.5	Z	5.0	26.6	Y	3.0	66.9	Z	6.0	-	-	-	65.1	62.8	57.6	61.0	68.4
	29	70.0	65.7	63.5	60.9	72.3	I	53.4	Z	5.0	27.3	Y	3.0	67.5	Z	6.0	-	-	-	65.0	62.7	57.5	60.9	68.3
	30	69.9	65.7	63.4	60.9	72.2	I	54.2	Z	5.0	28.1	Y	3.0	68.1	Z	6.0	-	-	-	64.9	62.7	57.4	60.9	68.3
	31	69.8	65.6	63.3	60.9	72.2	I	55.0	Z	5.0	28.8	Y	3.0	68.6	Z	6.0	-	-	-	64.8	62.6	57.3	60.9	68.2
	32	69.7	65.6	63.2	60.9	72.1	I	55.8	Z	5.0	29.5	Y	3.0	69.1	Z	6.0	-	-	-	64.7	62.6	57.2	60.9	68.1
	33	69.6	65.5	63.1	60.9	72.0	I	56.5	Z	5.0	30.2	Y	3.0	69.6	Z	6.0	-	-	-	64.6	62.5	57.1	60.9	68.1
	34	69.5	65.5	63.0	60.9	72.0	I	57.3	Z	5.0	30.9	Y	3.0	70.1	Z	6.0	-	-	-	64.5	62.5	57.0	60.9	68.0
	35	69.4	65.4	62.9	60.9	71.9	I	58.0	Z	5.0	31.5	Y	3.0	70.6	Z	6.0	-	-	-	64.4	62.4	56.9	60.9	67.9
	36	69.3	65.4	62.8	60.9	71.8	I	58.6	Z	5.0	32.2	Y	3.0	71.0	Z	6.0	-	-	-	64.3	62.4	56.8	60.9	67.9
	37	69.2	65.3	62.7	60.9	71.7	I	59.3	Z	5.0	32.9	Y	3.0	71.4	Z	6.0	-	-	-	64.2	62.3	56.7	60.9	67.8
	38	69.2	65.3	62.6	60.9	71.7	I	59.9	Z	5.0	33.5	Y	3.0	71.8	Z	6.0	-	-	-	64.2	62.3	56.6	60.9	67.8
	39	69.1	65.2	62.5	60.9	71.6	I	60.5	Z	5.0	34.1	Y	3.0	72.2	Z	6.0	-	-	-	64.1	62.2	56.5	60.9	67.7
	40	69.0	65.2	62.4	60.9	71.5	I	61.1	Z	5.0	34.8	Y	3.0	72.6	Z	6.0	-	-	-	64.0	62.2	56.4	60.9	67.7
	41	68.9	65.1	62.3	60.9	71.5	I	61.6	Z	5.0	35.4	Y	3.0	72.9	Z	6.0	-	-	-	63.9	62.1	56.3	60.9	67.6
	42	68.8	65.1	62.2	60.9	71.4	I	62.2	Z	5.0	36.0	Y	3.0	73.2	Z	6.0	-	-	-	63.8	62.1	56.2	60.9	67.5
	43	68.8	65.1	62.2	60.9	71.4	I	62.7	Z	5.0	36.6	Y	3.0	73.6	Z	6.0	-	-	-	63.8	62.1	56.2	60.9	67.5
	44	68.7	65.1	62.1	60.9	71.3	I	63.2	Z	5.0	37.2	Y	3.0	73.9	Z	6.0	-	-	-	63.7	62.1	56.1	60.9	67.5
	45	68.6	65.1	62.0	60.9	71.2	I	63.7	Z	5.0	37.7	Y	3.0	74.2	Z	6.0	-	-	-	63.6	62.1	56.0	60.9	67.4

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than “Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R114b	4	70.5	65.9	59.5	60.1	72.3	II	15.3	Y	5.0	6.1	X	2.5	32.5	Y	6.0	-	-	-	65.5	63.4	53.5	60.1	68.4
	5	72.1	66.1	61.9	60.3	73.6	II	17.6	Y	5.0	7.0	X	2.5	35.2	Y	6.0	-	-	-	67.1	63.6	55.9	60.3	69.5
	6	72.4	66.2	62.5	60.5	73.9	II	19.8	Y	5.0	7.9	X	2.5	37.8	Y	6.0	-	-	-	67.4	63.7	56.5	60.5	69.7
	7	72.3	66.3	63.2	60.6	73.9	II	22.0	Y	5.0	8.8	X	2.5	40.3	Y	6.0	-	-	-	67.3	63.8	57.2	60.6	69.8
	8	72.3	66.3	64.0	60.7	74.0	II	24.1	Y	5.0	9.7	X	2.5	42.5	Y	6.0	-	-	-	67.3	63.8	58.0	60.7	69.8
	9	72.2	66.4	64.9	60.8	74.0	II	26.2	Y	5.0	10.6	X	2.5	44.7	Y	6.0	-	-	-	67.2	63.9	58.9	60.8	69.9
	10	72.1	66.4	65.3	60.9	74.0	II	28.2	Y	5.0	11.5	X	2.5	46.6	Z	7.5	-	-	-	67.1	63.9	57.8	60.9	69.7
	11	72.0	66.4	65.5	60.9	74.0	II	30.1	Y	5.0	12.4	X	2.5	48.5	Z	7.5	-	-	-	67.0	63.9	58.0	60.9	69.7
	12	71.9	66.4	65.6	60.9	73.9	II	31.9	Y	5.0	13.3	X	2.5	50.2	Z	7.5	-	-	-	66.9	63.9	58.1	60.9	69.7
	13	71.8	66.4	65.5	60.9	73.8	II	33.7	Y	5.0	14.2	X	2.5	51.8	Z	7.5	-	-	-	66.8	63.9	58.0	60.9	69.6
	14	71.7	66.4	65.4	60.9	73.8	II	35.4	Y	5.0	15.0	Y	5.0	53.3	Z	7.5	-	-	-	66.7	61.4	57.9	60.9	69.0
	15	71.6	66.3	65.3	61.0	73.7	II	37.0	Y	5.0	15.9	Y	5.0	54.7	Z	7.5	-	-	-	66.6	61.3	57.8	61.0	68.9
	16	71.5	66.3	65.1	61.0	73.6	II	38.6	Y	5.0	16.8	Y	5.0	56.0	Z	7.5	-	-	-	66.5	61.3	57.6	61.0	68.8
	17	71.4	66.3	65.0	61.0	73.5	II	40.1	Y	5.0	17.6	Y	5.0	57.2	Z	7.5	-	-	-	66.4	61.3	57.5	61.0	68.8
	18	71.3	66.2	64.9	61.0	73.4	I	41.5	Y	3.0	18.5	Y	3.0	58.3	Z	6.0	-	-	-	68.3	63.2	58.9	61.0	70.4
	19	71.2	66.2	64.7	61.0	73.4	I	42.9	Y	3.0	19.3	Y	3.0	59.4	Z	6.0	-	-	-	68.2	63.2	58.7	61.0	70.3
	20	71.1	66.1	64.6	61.0	73.3	I	44.2	Y	3.0	20.1	Y	3.0	60.4	Z	6.0	-	-	-	68.1	63.1	58.6	61.0	70.2
	21	71.0	66.1	64.5	61.1	73.2	I	45.5	Z	5.0	20.9	Y	3.0	61.4	Z	6.0	-	-	-	66.0	63.1	58.5	61.1	69.0
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	70.7	66.0	64.1	61.0	72.9	I	48.5	Z	5.0	23.0	Y	3.0	63.6	Z	6.0	-	-	-	65.7	63.0	58.1	61.0	68.8
	24	70.6	66.0	64.0	61.0	72.9	I	49.6	Z	5.0	23.8	Y	3.0	64.4	Z	6.0	-	-	-	65.6	63.0	58.0	61.0	68.8
	25	70.5	65.9	63.9	61.0	72.8	I	50.6	Z	5.0	24.6	Y	3.0	65.1	Z	6.0	-	-	-	65.5	62.9	57.9	61.0	68.7
	26	70.4	65.9	63.8	61.0	72.7	I	51.6	Z	5.0	25.4	Y	3.0	65.8	Z	6.0	-	-	-	65.4	62.9	57.8	61.0	68.6
	27	70.3	65.9	63.6	61.0	72.6	I	52.5	Z	5.0	26.1	Y	3.0	66.5	Z	6.0	-	-	-	65.3	62.9	57.6	61.0	68.6
	28	70.2	65.8	63.5	61.0	72.5	I	53.5	Z	5.0	26.9	Y	3.0	67.1	Z	6.0	-	-	-	65.2	62.8	57.5	61.0	68.5
	29	70.1	65.8	63.4	60.9	72.4	I	54.3	Z	5.0	27.6	Y	3.0	67.7	Z	6.0	-	-	-	65.1	62.8	57.4	60.9	68.4
	30	70.0	65.7	63.3	60.9	72.4	I	55.2	Z	5.0	28.3	Y	3.0	68.3	Z	6.0	-	-	-	65.0	62.7	57.3	60.9	68.3
	31	70.0	65.6	63.2	60.9	72.3	I	56.0	Z	5.0	29.0	Y	3.0	68.8	Z	6.0	-	-	-	65.0	62.6	57.2	60.9	68.3
	32	69.9	65.6	63.1	60.9	72.2	I	56.7	Z	5.0	29.7	Y	3.0	69.3	Z	6.0	-	-	-	64.9	62.6	57.1	60.9	68.2
	33	69.8	65.5	63.0	60.9	72.1	I	57.5	Z	5.0	30.4	Y	3.0	69.8	Z	6.0	-	-	-	64.8	62.5	57.0	60.9	68.1
	34	69.7	65.5	62.9	60.9	72.0	I	58.2	Z	5.0	31.1	Y	3.0	70.3	Z	6.0	-	-	-	64.7	62.5	56.9	60.9	68.1
	35	69.6	65.4	62.8	60.9	72.0	I	58.9	Z	5.0	31.8	Y	3.0	70.7	Z	6.0	-	-	-	64.6	62.4	56.8	60.9	68.0
	36	69.5	65.4	62.7	60.9	71.9	I	59.5	Z	5.0	32.5	Y	3.0	71.2	Z	6.0	-	-	-	64.5	62.4	56.7	60.9	68.0
	37	69.4	65.3	62.6	60.9	71.8	I	60.1	Z	5.0	33.1	Y	3.0	71.6	Z	6.0	-	-	-	64.4	62.3	56.6	60.9	67.9
	38	69.4	65.3	62.5	60.9	71.8	I	60.8	Z	5.0	33.8	Y	3.0	72.0	Z	6.0	-	-	-	64.4	62.3	56.5	60.9	67.9
	39	69.3	65.3	62.4	60.9	71.7	I	61.3	Z	5.0	34.4	Y	3.0	72.4	Z	6.0	-	-	-	64.3	62.3	56.4	60.9	67.8
	40	69.2	65.2	62.3	60.9	71.6	I	61.9	Z	5.0	35.0	Y	3.0	72.7	Z	6.0	-	-	-	64.2	62.2	56.3	60.9	67.7
	41	69.1	65.2	62.2	60.9	71.6	I	62.5	Z	5.0	35.7	Y	3.0	73.1	Z	6.0	-	-	-	64.1	62.2	56.2	60.9	67.7
	42	69.0	65.1	62.2	60.9	71.5	I	63.0	Z	5.0	36.3	Y	3.0	73.4	Z	6.0	-	-	-	64.0	62.1	56.2	60.9	67.6
	43	69.0	65.1	62.1	60.9	71.5	I	63.5	Z	5.0	36.9	Y	3.0	73.7	Z	6.0	-	-	-	64.0	62.1	56.1	60.9	67.6
	44	68.9	65.1	62.0	60.9	71.4	I	64.0	Z	5.0	37.5	Y	3.0	74.0	Z	6.0	-	-	-	63.9	62.1	56.0	60.9	67.6
	45	68.8	65.1	61.9	60.9	71.3	I	64.4	Z	5.0	38.0	Y	3.0	74.3	Z	6.0	-	-	-	63.8	62.1	55.9	60.9	67.5

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than “Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R115b	4	72.5	66.1	61.5	60.2	73.9	IV	16.6	Y	8.0	6.2	X	5.5	33.0	Y	9.0	-	-	-	64.5	60.6	52.5	60.2	67.2
	5	73.4	66.3	63.0	60.4	74.7	IV	19.1	Y	8.0	7.2	X	5.5	35.8	Y	9.0	-	-	-	65.4	60.8	54.0	60.4	67.8
	6	73.4	66.4	63.4	60.6	74.7	IV	21.5	Y	8.0	8.1	X	5.5	38.4	Y	9.0	-	-	-	65.4	60.9	54.4	60.6	67.9
	7	73.3	66.5	63.9	60.8	74.7	IV	23.8	Y	8.0	9.0	X	5.5	40.9	Y	9.0	-	-	-	65.3	61.0	54.9	60.8	67.9
	8	73.2	66.5	64.6	60.8	74.7	IV	26.0	Y	8.0	10.0	X	5.5	43.2	Y	9.0	-	-	-	65.2	61.0	55.6	60.8	67.9
	9	73.1	66.6	65.4	60.9	74.7	IV	28.2	Y	8.0	10.9	X	5.5	45.3	Z	10.0	-	-	-	65.1	61.1	55.4	60.9	67.9
	10	73.0	66.6	65.6	61.0	74.7	IV	30.3	Y	8.0	11.8	X	5.5	47.2	Z	10.0	-	-	-	65.0	61.1	55.6	61.0	67.8
	11	72.9	66.6	65.7	61.0	74.6	IV	32.2	Y	8.0	12.7	X	5.5	49.1	Z	10.0	-	-	-	64.9	61.1	55.7	61.0	67.8
	12	72.8	66.6	65.7	61.0	74.5	IV	34.2	Y	8.0	13.6	X	5.5	50.8	Z	10.0	-	-	-	64.8	61.1	55.7	61.0	67.7
	13	72.7	66.6	65.6	61.1	74.5	IV	36.0	Y	8.0	14.5	X	5.5	52.4	Z	10.0	-	-	-	64.7	61.1	55.6	61.1	67.7
	14	72.6	66.5	65.5	61.1	74.4	II	37.7	Y	5.0	15.4	Y	5.0	53.9	Z	7.5	-	-	-	67.6	61.5	58.0	61.1	69.6
	15	72.4	66.5	65.4	61.1	74.3	II	39.4	Y	5.0	16.3	Y	5.0	55.2	Z	7.5	-	-	-	67.4	61.5	57.9	61.1	69.5
	16	72.3	66.5	65.3	61.1	74.2	II	41.0	Y	5.0	17.2	Y	5.0	56.5	Z	7.5	-	-	-	67.3	61.5	57.8	61.1	69.4
	17	72.2	66.5	65.1	61.1	74.1	II	42.5	Y	5.0	18.0	Y	5.0	57.7	Z	7.5	-	-	-	67.2	61.5	57.6	61.1	69.3
	18	72.1	66.4	65.0	61.1	74.0	II	43.9	Y	5.0	18.9	Y	5.0	58.9	Z	7.5	-	-	-	67.1	61.4	57.5	61.1	69.2
	19	72.0	66.4	64.8	61.1	73.9	I	45.3	Z	5.0	19.7	Y	3.0	60.0	Z	6.0	-	-	-	67.0	63.4	58.8	61.1	69.7
	20	71.9	66.3	64.7	61.1	73.8	I	46.6	Z	5.0	20.6	Y	3.0	61.0	Z	6.0	-	-	-	66.9	63.3	58.7	61.1	69.6
	21	71.8	66.3	64.6	61.1	73.7	I	47.9	Z	5.0	21.4	Y	3.0	61.9	Z	6.0	-	-	-	66.8	63.3	58.6	61.1	69.5
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	71.5	66.1	64.2	61.1	73.5	I	50.9	Z	5.0	23.5	Y	3.0	64.1	Z	6.0	-	-	-	66.5	63.1	58.2	61.1	69.3
	24	71.4	66.1	64.1	61.1	73.4	I	52.0	Z	5.0	24.3	Y	3.0	64.9	Z	6.0	-	-	-	66.4	63.1	58.1	61.1	69.2
	25	71.2	66.0	64.0	61.0	73.2	I	53.0	Z	5.0	25.1	Y	3.0	65.6	Z	6.0	-	-	-	66.2	63.0	58.0	61.0	69.1
	26	71.1	66.0	63.9	61.0	73.2	I	54.0	Z	5.0	25.9	Y	3.0	66.3	Z	6.0	-	-	-	66.1	63.0	57.9	61.0	69.0
	27	71.0	65.9	63.7	61.0	73.1	I	54.9	Z	5.0	26.7	Y	3.0	66.9	Z	6.0	-	-	-	66.0	62.9	57.7	61.0	68.9
	28	70.9	65.9	63.6	61.0	73.0	I	55.8	Z	5.0	27.4	Y	3.0	67.6	Z	6.0	-	-	-	65.9	62.9	57.6	61.0	68.9
	29	70.9	65.8	63.5	61.0	72.9	I	56.6	Z	5.0	28.2	Y	3.0	68.1	Z	6.0	-	-	-	65.9	62.8	57.5	61.0	68.8
	30	70.8	65.8	63.4	61.0	72.8	I	57.4	Z	5.0	28.9	Y	3.0	68.7	Z	6.0	-	-	-	65.8	62.8	57.4	61.0	68.8
	31	70.7	65.7	63.3	61.0	72.7	I	58.2	Z	5.0	29.6	Y	3.0	69.2	Z	6.0	-	-	-	65.7	62.7	57.3	61.0	68.7
	32	70.6	65.7	63.2	61.0	72.7	I	58.9	Z	5.0	30.4	Y	3.0	69.7	Z	6.0	-	-	-	65.6	62.7	57.2	61.0	68.6
	33	70.5	65.6	63.1	60.9	72.6	I	59.6	Z	5.0	31.1	Y	3.0	70.2	Z	6.0	-	-	-	65.5	62.6	57.1	60.9	68.5
	34	70.4	65.6	63.0	60.9	72.5	I	60.3	Z	5.0	31.8	Y	3.0	70.7	Z	6.0	-	-	-	65.4	62.6	57.0	60.9	68.5
	35	70.3	65.5	62.9	60.9	72.4	I	61.0	Z	5.0	32.4	Y	3.0	71.1	Z	6.0	-	-	-	65.3	62.5	56.9	60.9	68.4
	36	70.2	65.5	62.8	60.9	72.3	I	61.6	Z	5.0	33.1	Y	3.0	71.5	Z	6.0	-	-	-	65.2	62.5	56.8	60.9	68.3
	37	70.1	65.4	62.7	60.9	72.2	I	62.2	Z	5.0	33.8	Y	3.0	71.9	Z	6.0	-	-	-	65.1	62.4	56.7	60.9	68.2
	38	70.0	65.4	62.6	60.9	72.2	I	62.8	Z	5.0	34.4	Y	3.0	72.3	Z	6.0	-	-	-	65.0	62.4	56.6	60.9	68.2
	39	70.0	65.3	62.5	60.9	72.1	I	63.4	Z	5.0	35.1	Y	3.0	72.7	Z	6.0	-	-	-	65.0	62.3	56.5	60.9	68.2
	40	69.9	65.3	62.4	60.9	72.0	I	63.9	Z	5.0	35.7	Y	3.0	73.1	Z	6.0	-	-	-	64.9	62.3	56.4	60.9	68.1
	41	69.8	65.2	62.3	60.9	72.0	I	64.4	Z	5.0	36.3	Y	3.0	73.4	Z	6.0	-	-	-	64.8	62.2	56.3	60.9	68.0
	42	69.7	65.2	62.3	60.9	71.9	I	64.9	Z	5.0	36.9	Y	3.0	73.7	Z	6.0	-	-	-	64.7	62.2	56.3	60.9	68.0
	43	69.6	65.2	62.2	60.9	71.9	I	65.4	Z	5.0	37.6	Y	3.0	74.1	Z	6.0	-	-	-	64.6	62.2	56.2	60.9	67.9
	44	69.5	65.3	62.1	60.9	71.8	I	65.9	Z	5.0	38.1	Y	3.0	74.4	Z	6.0	-	-	-	64.5	62.3	56.1	60.9	67.9
	45	69.5	65.3	62.0	60.9	71.8	I	66.3	Z	5.0	38.7	Y	3.0	74.7	Z	6.0	-	-	-	64.5	62.3	56.0	60.9	67.9

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than “Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance											Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R115c	4	74.4	66.3	62.5	60.2	75.4	IV	17.2	Y	8.0	6.3	X	5.5	33.3	Y	9.0	-	-	-	66.4	60.8	53.5	60.2	68.3
	5	74.7	66.4	63.5	60.5	75.7	IV	19.8	Y	8.0	7.2	X	5.5	36.1	Y	9.0	-	-	-	66.7	60.9	54.5	60.5	68.6
	6	74.6	66.5	63.7	60.6	75.6	IV	22.2	Y	8.0	8.2	X	5.5	38.7	Y	9.0	-	-	-	66.6	61.0	54.7	60.6	68.6
	7	74.5	66.6	64.3	60.8	75.6	IV	24.6	Y	8.0	9.1	X	5.5	41.2	Y	9.0	-	-	-	66.5	61.1	55.3	60.8	68.6
	8	74.4	66.6	64.9	60.8	75.6	IV	26.9	Y	8.0	10.1	X	5.5	43.4	Y	9.0	-	-	-	66.4	61.1	55.9	60.8	68.6
	9	74.3	66.7	65.5	60.9	75.6	IV	29.1	Y	8.0	11.0	X	5.5	45.6	Z	10.0	-	-	-	66.3	61.2	55.5	60.9	68.6
	10	74.2	66.7	65.7	61.0	75.5	IV	31.3	Y	8.0	11.9	X	5.5	47.5	Z	10.0	-	-	-	66.2	61.2	55.7	61.0	68.5
	11	74.0	66.7	65.8	61.0	75.5	IV	33.3	Y	8.0	12.9	X	5.5	49.4	Z	10.0	-	-	-	66.0	61.2	55.8	61.0	68.4
	12	73.9	66.7	65.7	61.0	75.4	IV	35.2	Y	8.0	13.8	X	5.5	51.1	Z	10.0	-	-	-	65.9	61.2	55.7	61.0	68.4
	13	73.8	66.7	65.7	61.1	75.3	IV	37.1	Y	8.0	14.7	X	5.5	52.7	Z	10.0	-	-	-	65.8	61.2	55.7	61.1	68.3
	14	73.7	66.7	65.5	61.1	75.2	II	38.8	Y	5.0	15.6	Y	5.0	54.1	Z	7.5	-	-	-	68.7	61.7	58.0	61.1	70.3
	15	73.6	66.6	65.4	61.1	75.1	II	40.5	Y	5.0	16.5	Y	5.0	55.5	Z	7.5	-	-	-	68.6	61.6	57.9	61.1	70.3
	16	73.5	66.6	65.2	61.1	75.0	II	42.1	Y	5.0	17.3	Y	5.0	56.8	Z	7.5	-	-	-	68.5	61.6	57.7	61.1	70.2
	17	73.3	66.5	65.1	61.1	74.9	II	43.6	Y	5.0	18.2	Y	5.0	58.0	Z	7.5	-	-	-	68.3	61.5	57.6	61.1	70.0
	18	73.2	66.5	64.9	61.1	74.8	II	45.1	Z	6.5	19.1	Y	5.0	59.1	Z	7.5	-	-	-	66.7	61.5	57.4	61.1	69.0
	19	73.1	66.5	64.8	61.1	74.7	I	46.5	Z	5.0	19.9	Y	3.0	60.2	Z	6.0	-	-	-	68.1	63.5	58.8	61.1	70.3
	20	73.0	66.4	64.7	61.1	74.6	I	47.8	Z	5.0	20.8	Y	3.0	61.2	Z	6.0	-	-	-	68.0	63.4	58.7	61.1	70.2
	21	72.9	66.4	64.6	61.1	74.4	I	49.0	Z	5.0	21.6	Y	3.0	62.1	Z	6.0	-	-	-	67.9	63.4	58.6	61.1	70.2
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	72.6	66.2	64.2	61.1	74.2	I	52.0	Z	5.0	23.8	Y	3.0	64.4	Z	6.0	-	-	-	67.6	63.2	58.2	61.1	69.9
	24	72.4	66.2	64.1	61.1	74.1	I	53.1	Z	5.0	24.6	Y	3.0	65.1	Z	6.0	-	-	-	67.4	63.2	58.1	61.1	69.8
	25	72.3	66.1	64.0	61.1	74.0	I	54.1	Z	5.0	25.4	Y	3.0	65.8	Z	6.0	-	-	-	67.3	63.1	58.0	61.1	69.7
	26	72.2	66.1	63.9	61.0	73.9	I	55.0	Z	5.0	26.2	Y	3.0	66.5	Z	6.0	-	-	-	67.2	63.1	57.9	61.0	69.6
	27	72.1	66.0	63.7	61.0	73.8	I	55.9	Z	5.0	26.9	Y	3.0	67.2	Z	6.0	-	-	-	67.1	63.0	57.7	61.0	69.5
	28	72.0	66.0	63.6	61.0	73.7	I	56.8	Z	5.0	27.7	Y	3.0	67.8	Z	6.0	-	-	-	67.0	63.0	57.6	61.0	69.5
	29	71.9	65.9	63.5	61.0	73.6	I	57.6	Z	5.0	28.4	Y	3.0	68.3	Z	6.0	-	-	-	66.9	62.9	57.5	61.0	69.4
	30	71.8	65.8	63.4	61.0	73.5	I	58.4	Z	5.0	29.2	Y	3.0	68.9	Z	6.0	-	-	-	66.8	62.8	57.4	61.0	69.3
	31	71.7	65.8	63.3	61.0	73.5	I	59.2	Z	5.0	29.9	Y	3.0	69.4	Z	6.0	-	-	-	66.7	62.8	57.3	61.0	69.2
	32	71.6	65.7	63.2	61.0	73.4	I	59.9	Z	5.0	30.6	Y	3.0	69.9	Z	6.0	-	-	-	66.6	62.7	57.2	61.0	69.1
	33	71.6	65.7	63.1	61.0	73.3	I	60.6	Z	5.0	31.3	Y	3.0	70.4	Z	6.0	-	-	-	66.6	62.7	57.1	61.0	69.1
	34	71.5	65.6	63.0	61.0	73.2	I	61.3	Z	5.0	32.0	Y	3.0	70.9	Z	6.0	-	-	-	66.5	62.6	57.0	61.0	69.1
	35	71.4	65.6	62.9	61.0	73.1	I	61.9	Z	5.0	32.7	Y	3.0	71.3	Z	6.0	-	-	-	66.4	62.6	56.9	61.0	69.0
	36	71.3	65.5	62.8	61.0	73.0	I	62.6	Z	5.0	33.4	Y	3.0	71.7	Z	6.0	-	-	-	66.3	62.5	56.8	61.0	68.9
	37	71.2	65.5	62.7	61.0	73.0	I	63.1	Z	5.0	34.1	Y	3.0	72.1	Z	6.0	-	-	-	66.2	62.5	56.7	61.0	68.9
	38	71.1	65.4	62.6	60.9	72.9	I	63.7	Z	5.0	34.7	Y	3.0	72.5	Z	6.0	-	-	-	66.1	62.4	56.6	60.9	68.8
	39	71.0	65.4	62.5	61.0	72.8	I	64.3	Z	5.0	35.4	Y	3.0	72.9	Z	6.0	-	-	-	66.0	62.4	56.5	61.0	68.7
	40	70.9	65.3	62.4	60.9	72.7	I	64.8	Z	5.0	36.0	Y	3.0	73.2	Z	6.0	-	-	-	65.9	62.3	56.4	60.9	68.6
	41	70.8	65.3	62.3	61.0	72.6	I	65.3	Z	5.0	36.6	Y	3.0	73.6	Z	6.0	-	-	-	65.8	62.3	56.3	61.0	68.6
	42	70.7	65.3	62.3	61.0	72.6	I	65.8	Z	5.0	37.3	Y	3.0	73.9	Z	6.0	-	-	-	65.7	62.3	56.3	61.0	68.5
	43	70.7	65.3	62.2	61.0	72.5	I	66.2	Z	5.0	37.9	Y	3.0	74.2	Z	6.0	-	-	-	65.7	62.3	56.2	61.0	68.5
	44	70.6	65.3	62.1	61.0	72.5	I	66.7	Z	5.0	38.5	Y	3.0	74.5	Z	6.0	-	-	-	65.6	62.3	56.1	61.0	68.4
	45	70.5	65.4	62.0	61.0	72.4	I	67.1	Z	5.0	39.0	Y	3.0	74.8	Z	6.0	-	-	-	65.5	62.4	56.0	61.0	68.4

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than “Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4								
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R217a	4	64.8	61.6	55.2	59.3	67.5	N/A	7.3	X	-	4.7	X	-	31.1	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	65.4	61.9	57.7	60.1	68.2	N/A	8.5	X	-	5.4	X	-	33.8	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	6	65.8	62.2	60.5	60.6	68.9	N/A	9.6	X	-	6.1	X	-	36.3	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	7	66.2	62.4	63.1	60.9	69.6	N/A	10.7	X	-	6.8	X	-	38.7	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	8	66.5	62.6	64.3	61.2	70.1	N/A	11.9	X	-	7.5	X	-	41.0	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	9	66.7	62.8	64.8	61.3	70.4	I	13.0	X	1.0	8.2	X	1.0	43.1	Y	4.0	-	-	-	65.7	61.8	60.8	61.3	68.9
	10	66.8	62.9	65.0	61.4	70.5	I	14.1	X	1.0	8.9	X	1.0	45.1	Z	6.0	-	-	-	65.8	61.9	59.0	61.4	68.8
	11	66.9	63.0	65.1	61.5	70.6	I	15.2	Y	3.0	9.6	X	1.0	46.9	Z	6.0	-	-	-	63.9	62.0	59.1	61.5	68.0
	12	66.9	63.0	65.0	61.5	70.6	I	16.3	Y	3.0	10.3	X	1.0	48.6	Z	6.0	-	-	-	63.9	62.0	59.0	61.5	68.0
	13	67.0	63.1	65.0	61.5	70.6	I	17.4	Y	3.0	11.0	X	1.0	50.3	Z	6.0	-	-	-	64.0	62.1	59.0	61.5	68.0
	14	67.0	63.1	64.9	61.6	70.6	I	18.4	Y	3.0	11.7	X	1.0	51.8	Z	6.0	-	-	-	64.0	62.1	58.9	61.6	68.0
	15	67.0	63.1	64.9	61.6	70.6	I	19.5	Y	3.0	12.4	X	1.0	53.2	Z	6.0	-	-	-	64.0	62.1	58.9	61.6	68.0
	16	67.1	63.1	64.8	61.6	70.6	I	20.5	Y	3.0	13.1	X	1.0	54.5	Z	6.0	-	-	-	64.1	62.1	58.8	61.6	68.1
	17	67.0	63.1	64.7	61.6	70.6	I	21.5	Y	3.0	13.8	X	1.0	55.8	Z	6.0	-	-	-	64.0	62.1	58.7	61.6	68.0
	18	67.0	63.1	64.6	61.6	70.6	I	22.5	Y	3.0	14.5	X	1.0	56.9	Z	6.0	-	-	-	64.0	62.1	58.6	61.6	68.0
	19	67.1	63.2	64.4	61.6	70.6	I	23.5	Y	3.0	15.1	Y	3.0	58.0	Z	6.0	-	-	-	64.1	60.2	58.4	61.6	67.6
	20	67.0	63.2	64.4	61.7	70.5	I	24.5	Y	3.0	15.8	Y	3.0	59.1	Z	6.0	-	-	-	64.0	60.2	58.4	61.7	67.6
	21	67.0	63.2	64.2	61.7	70.5	I	25.5	Y	3.0	16.5	Y	3.0	60.1	Z	6.0	-	-	-	64.0	60.2	58.2	61.7	67.6
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	66.9	63.3	63.9	61.7	70.4	I	27.9	Y	3.0	18.2	Y	3.0	62.4	Z	6.0	-	-	-	63.9	60.3	57.9	61.7	67.5
	24	66.9	63.4	63.8	61.7	70.4	I	28.8	Y	3.0	18.8	Y	3.0	63.2	Z	6.0	-	-	-	63.9	60.4	57.8	61.7	67.5
	25	66.8	63.4	63.7	61.8	70.3	I	29.7	Y	3.0	19.5	Y	3.0	63.9	Z	6.0	-	-	-	63.8	60.4	57.7	61.8	67.5
	26	66.8	63.4	63.6	61.8	70.3	N/A	30.6	Y	-	20.1	Y	-	64.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	27	66.7	63.4	63.5	61.8	70.3	N/A	31.5	Y	-	20.7	Y	-	65.3	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	28	66.7	63.5	63.4	61.8	70.2	N/A	32.3	Y	-	21.4	Y	-	66.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	29	66.6	63.4	63.2	61.8	70.2	N/A	33.1	Y	-	22.0	Y	-	66.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	30	66.6	63.5	63.1	61.8	70.1	N/A	34.0	Y	-	22.6	Y	-	67.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	31	66.6	63.5	63.0	61.8	70.1	N/A	34.8	Y	-	23.2	Y	-	67.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	32	66.5	63.5	62.9	61.8	70.1	N/A	35.5	Y	-	23.8	Y	-	68.3	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	33	66.5	63.5	62.8	61.8	70.0	N/A	36.3	Y	-	24.4	Y	-	68.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	34	66.4	63.5	62.7	61.9	70.0	N/A	37.1	Y	-	25.0	Y	-	69.3	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	35	66.4	63.5	62.6	61.9	70.0	N/A	37.8	Y	-	25.6	Y	-	69.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	36	66.3	63.5	62.5	61.9	69.9	N/A	38.5	Y	-	26.2	Y	-	70.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	37	66.3	63.5	62.5	61.9	69.9	N/A	39.2	Y	-	26.7	Y	-	70.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	38	66.3	63.5	62.4	61.9	69.9	N/A	39.9	Y	-	27.3	Y	-	71.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	39	66.2	63.5	62.3	61.9	69.8	N/A	40.6	Y	-	27.9	Y	-	71.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	40	66.2	63.4	62.2	62.0	69.8	N/A	41.3	Y	-	28.4	Y	-	71.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	41	66.1	63.4	62.1	62.0	69.8	N/A	41.9	Y	-	29.0	Y	-	72.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	42	66.1	63.4	62.0	62.0	69.7	N/A	42.6	Y	-	29.5	Y	-	72.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	43	66.0	63.4	61.9	62.0	69.7	N/A	43.2	Y	-	30.1	Y	-	72.9	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	44	66.0	63.3	61.9	62.0	69.7	N/A	43.8	Y	-	30.6	Y	-	73.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	65.9	63.3	61.8	62.0	69.6	N/A	44.4	Y	-	31.1	Y	-	73.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than “Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R217b	4	65.0	61.8	55.2	59.4	67.7	N/A	7.4	X	-	4.7	X	-	31.1	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	65.5	62.0	57.8	60.5	68.4	N/A	8.6	X	-	5.5	X	-	33.8	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	6	66.0	62.3	60.5	61.0	69.1	N/A	9.8	X	-	6.2	X	-	36.4	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	7	66.4	62.6	63.1	61.3	69.8	N/A	10.9	X	-	6.9	X	-	38.8	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	8	66.6	62.8	64.3	61.5	70.3	N/A	12.1	X	-	7.6	X	-	41.0	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	9	66.9	62.9	64.8	61.6	70.5	I	13.2	X	1.0	8.3	X	1.0	43.1	Y	4.0	-	-	-	65.9	61.9	60.8	61.6	69.1
	10	66.9	63.0	65.0	61.7	70.6	I	14.3	X	1.0	9.0	X	1.0	45.1	Z	6.0	-	-	-	65.9	62.0	59.0	61.7	68.9
	11	67.0	63.1	65.1	61.8	70.7	I	15.4	Y	3.0	9.7	X	1.0	46.9	Z	6.0	-	-	-	64.0	62.1	59.1	61.8	68.1
	12	67.1	63.1	65.1	61.8	70.8	I	16.5	Y	3.0	10.4	X	1.0	48.7	Z	6.0	-	-	-	64.1	62.1	59.1	61.8	68.1
	13	67.1	63.2	65.1	61.8	70.8	I	17.6	Y	3.0	11.1	X	1.0	50.3	Z	6.0	-	-	-	64.1	62.2	59.1	61.8	68.2
	14	67.1	63.2	65.0	61.8	70.8	I	18.7	Y	3.0	11.8	X	1.0	51.8	Z	6.0	-	-	-	64.1	62.2	59.0	61.8	68.2
	15	67.2	63.2	64.9	61.8	70.8	I	19.8	Y	3.0	12.5	X	1.0	53.2	Z	6.0	-	-	-	64.2	62.2	58.9	61.8	68.2
	16	67.2	63.2	64.8	61.8	70.7	I	20.8	Y	3.0	13.2	X	1.0	54.5	Z	6.0	-	-	-	64.2	62.2	58.8	61.8	68.2
	17	67.2	63.2	64.7	61.8	70.7	I	21.9	Y	3.0	13.9	X	1.0	55.8	Z	6.0	-	-	-	64.2	62.2	58.7	61.8	68.2
	18	67.2	63.3	64.6	61.8	70.7	I	22.9	Y	3.0	14.6	X	1.0	56.9	Z	6.0	-	-	-	64.2	62.3	58.6	61.8	68.2
	19	67.1	63.3	64.5	61.8	70.7	I	23.9	Y	3.0	15.2	Y	3.0	58.1	Z	6.0	-	-	-	64.1	60.3	58.5	61.8	67.7
	20	67.1	63.3	64.4	61.9	70.6	I	24.9	Y	3.0	15.9	Y	3.0	59.1	Z	6.0	-	-	-	64.1	60.3	58.4	61.9	67.7
	21	67.1	63.4	64.3	61.9	70.6	I	25.9	Y	3.0	16.6	Y	3.0	60.1	Z	6.0	-	-	-	64.1	60.4	58.3	61.9	67.7
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	67.0	63.5	63.9	61.9	70.5	I	28.3	Y	3.0	18.3	Y	3.0	62.4	Z	6.0	-	-	-	64.0	60.5	57.9	61.9	67.6
	24	66.9	63.5	63.8	61.9	70.5	I	29.3	Y	3.0	19.0	Y	3.0	63.2	Z	6.0	-	-	-	63.9	60.5	57.8	61.9	67.6
	25	66.9	63.5	63.7	61.9	70.5	I	30.2	Y	3.0	19.6	Y	3.0	64.0	Z	6.0	-	-	-	63.9	60.5	57.7	61.9	67.6
	26	66.8	63.5	63.6	62.0	70.4	N/A	31.0	Y	-	20.2	Y	-	64.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	27	66.8	63.6	63.5	62.0	70.4	N/A	31.9	Y	-	20.9	Y	-	65.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	28	66.8	63.5	63.4	62.0	70.3	N/A	32.8	Y	-	21.5	Y	-	66.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	29	66.7	63.6	63.2	62.0	70.3	N/A	33.6	Y	-	22.1	Y	-	66.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	30	66.7	63.6	63.1	62.0	70.3	N/A	34.4	Y	-	22.7	Y	-	67.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	31	66.6	63.6	63.0	62.0	70.2	N/A	35.2	Y	-	23.4	Y	-	67.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	32	66.6	63.6	62.9	62.0	70.2	N/A	36.0	Y	-	24.0	Y	-	68.3	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	33	66.5	63.6	62.8	62.0	70.1	N/A	36.8	Y	-	24.6	Y	-	68.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	34	66.5	63.6	62.7	62.0	70.1	N/A	37.5	Y	-	25.2	Y	-	69.3	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	35	66.5	63.6	62.6	62.0	70.1	N/A	38.3	Y	-	25.8	Y	-	69.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	36	66.4	63.7	62.5	62.0	70.0	N/A	39.0	Y	-	26.3	Y	-	70.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	37	66.4	63.6	62.5	62.0	70.0	N/A	39.7	Y	-	26.9	Y	-	70.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	38	66.3	63.6	62.4	62.0	70.0	N/A	40.4	Y	-	27.5	Y	-	71.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	39	66.3	63.6	62.3	62.1	69.9	N/A	41.1	Y	-	28.1	Y	-	71.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	40	66.2	63.6	62.2	62.1	69.9	N/A	41.8	Y	-	28.6	Y	-	71.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	41	66.2	63.6	62.1	62.1	69.9	N/A	42.4	Y	-	29.2	Y	-	72.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	42	66.1	63.5	62.0	62.1	69.8	N/A	43.1	Y	-	29.7	Y	-	72.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	43	66.1	63.5	61.9	62.1	69.8	N/A	43.7	Y	-	30.3	Y	-	72.9	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	44	66.0	63.5	61.9	62.1	69.8	N/A	44.3	Y	-	30.8	Y	-	73.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	66.0	63.4	61.8	62.2	69.7	N/A	44.9	Y	-	31.3	Y	-	73.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than “Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R218b	4	65.3	62.1	55.2	59.2	67.9	N/A	7.7	X	-	4.8	X	-	31.0	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	65.9	62.4	57.7	60.1	68.6	N/A	8.9	X	-	5.5	X	-	33.7	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	6	66.4	62.6	60.4	60.4	69.3	N/A	10.2	X	-	6.3	X	-	36.3	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	7	66.8	62.9	62.9	60.8	69.9	N/A	11.4	X	-	7.0	X	-	38.7	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	8	67.1	63.1	64.2	61.0	70.4	I	12.5	X	1.0	7.7	X	1.0	40.9	Y	4.0	-	-	-	66.1	62.1	60.2	61.0	69.0
	9	67.2	63.2	64.8	61.1	70.6	I	13.7	X	1.0	8.4	X	1.0	43.0	Y	4.0	-	-	-	66.2	62.2	60.8	61.1	69.2
	10	67.3	63.3	65.1	61.2	70.8	I	14.9	X	1.0	9.2	X	1.0	45.0	Z	6.0	-	-	-	66.3	62.3	59.1	61.2	69.1
	11	67.3	63.4	65.2	61.3	70.9	I	16.0	Y	3.0	9.9	X	1.0	46.9	Z	6.0	-	-	-	64.3	62.4	59.2	61.3	68.2
	12	67.4	63.4	65.1	61.4	70.9	I	17.2	Y	3.0	10.6	X	1.0	48.6	Z	6.0	-	-	-	64.4	62.4	59.1	61.4	68.3
	13	67.4	63.4	65.1	61.4	70.9	I	18.3	Y	3.0	11.3	X	1.0	50.2	Z	6.0	-	-	-	64.4	62.4	59.1	61.4	68.3
	14	67.4	63.4	65.0	61.4	70.9	I	19.4	Y	3.0	12.0	X	1.0	51.7	Z	6.0	-	-	-	64.4	62.4	59.0	61.4	68.2
	15	67.4	63.5	65.0	61.4	70.9	I	20.5	Y	3.0	12.7	X	1.0	53.1	Z	6.0	-	-	-	64.4	62.5	59.0	61.4	68.3
	16	67.5	63.5	64.8	61.4	70.9	I	21.6	Y	3.0	13.4	X	1.0	54.5	Z	6.0	-	-	-	64.5	62.5	58.8	61.4	68.3
	17	67.5	63.5	64.8	61.4	70.9	I	22.7	Y	3.0	14.1	X	1.0	55.7	Z	6.0	-	-	-	64.5	62.5	58.8	61.4	68.3
	18	67.4	63.5	64.7	61.5	70.8	I	23.7	Y	3.0	14.8	X	1.0	56.9	Z	6.0	-	-	-	64.4	62.5	58.7	61.5	68.3
	19	67.4	63.5	64.5	61.5	70.8	I	24.8	Y	3.0	15.5	Y	3.0	58.0	Z	6.0	-	-	-	64.4	60.5	58.5	61.5	67.8
	20	67.4	63.6	64.4	61.5	70.8	I	25.8	Y	3.0	16.1	Y	3.0	59.0	Z	6.0	-	-	-	64.4	60.6	58.4	61.5	67.8
	21	67.3	63.6	64.3	61.5	70.7	I	26.8	Y	3.0	16.8	Y	3.0	60.0	Z	6.0	-	-	-	64.3	60.6	58.3	61.5	67.7
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	67.2	63.7	64.0	61.6	70.6	I	29.3	Y	3.0	18.6	Y	3.0	62.3	Z	6.0	-	-	-	64.2	60.7	58.0	61.6	67.7
	24	67.2	63.7	63.8	61.6	70.6	I	30.2	Y	3.0	19.2	Y	3.0	63.1	Z	6.0	-	-	-	64.2	60.7	57.8	61.6	67.7
	25	67.1	63.7	63.7	61.6	70.5	I	31.2	Y	3.0	19.9	Y	3.0	63.9	Z	6.0	-	-	-	64.1	60.7	57.7	61.6	67.6
	26	67.1	63.7	63.6	61.7	70.5	I	32.1	Y	3.0	20.5	Y	3.0	64.6	Z	6.0	-	-	-	64.1	60.7	57.6	61.7	67.6
	27	67.0	63.7	63.5	61.7	70.5	I	32.9	Y	3.0	21.2	Y	3.0	65.3	Z	6.0	-	-	-	64.0	60.7	57.5	61.7	67.6
	28	67.0	63.7	63.4	61.7	70.4	I	33.8	Y	3.0	21.8	Y	3.0	65.9	Z	6.0	-	-	-	64.0	60.7	57.4	61.7	67.6
	29	67.0	63.7	63.3	61.7	70.4	N/A	34.7	Y	-	22.4	Y	-	66.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	30	66.9	63.7	63.2	61.7	70.3	N/A	35.5	Y	-	23.1	Y	-	67.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	31	66.9	63.7	63.1	61.7	70.3	N/A	36.3	Y	-	23.7	Y	-	67.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	32	66.8	63.8	63.0	61.7	70.3	N/A	37.1	Y	-	24.3	Y	-	68.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	33	66.8	63.8	62.9	61.8	70.2	N/A	37.9	Y	-	24.9	Y	-	68.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	34	66.7	63.8	62.8	61.8	70.2	N/A	38.7	Y	-	25.5	Y	-	69.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	35	66.7	63.8	62.7	61.8	70.2	N/A	39.4	Y	-	26.1	Y	-	69.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	36	66.6	63.8	62.6	61.8	70.1	N/A	40.1	Y	-	26.7	Y	-	70.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	37	66.6	63.8	62.5	61.8	70.1	N/A	40.9	Y	-	27.3	Y	-	70.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	38	66.5	63.8	62.4	61.8	70.1	N/A	41.6	Y	-	27.9	Y	-	71.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	39	66.5	63.8	62.3	61.8	70.0	N/A	42.3	Y	-	28.4	Y	-	71.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	40	66.4	63.7	62.2	61.9	70.0	N/A	42.9	Y	-	29.0	Y	-	71.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	41	66.4	63.7	62.1	61.9	70.0	N/A	43.6	Y	-	29.6	Y	-	72.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	42	66.3	63.7	62.0	61.9	69.9	N/A	44.2	Y	-	30.1	Y	-	72.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	43	66.3	63.7	62.0	61.9	69.9	N/A	44.9	Y	-	30.7	Y	-	72.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	44	66.2	63.6	61.9	61.9	69.8	N/A	45.5	Z	-	31.2	Y	-	73.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	66.2	63.6	61.8	62.0	69.8	N/A	46.1	Z	-	31.7	Y	-	73.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than “Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario A)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R218c	4	65.5	62.2	55.2	59.2	68.0	N/A	7.9	X	-	4.8	X	-	31.0	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	66.0	62.5	57.6	60.0	68.7	N/A	9.1	X	-	5.6	X	-	33.7	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	6	66.6	62.8	60.3	60.4	69.3	N/A	10.3	X	-	6.3	X	-	36.3	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	7	67.0	63.0	62.9	60.7	70.0	N/A	11.6	X	-	7.0	X	-	38.7	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	8	67.2	63.2	64.2	60.9	70.5	I	12.8	X	1.0	7.8	X	1.0	40.9	Y	4.0	-	-	-	66.2	62.2	60.2	60.9	69.1
	9	67.3	63.3	64.8	61.0	70.7	I	14.0	X	1.0	8.5	X	1.0	43.0	Y	4.0	-	-	-	66.3	62.3	60.8	61.0	69.3
	10	67.4	63.4	65.0	61.2	70.8	I	15.1	Y	3.0	9.2	X	1.0	45.0	Y	4.0	-	-	-	64.4	62.4	61.0	61.2	68.5
	11	67.5	63.5	65.2	61.2	71.0	I	16.3	Y	3.0	9.9	X	1.0	46.8	Z	6.0	-	-	-	64.5	62.5	59.2	61.2	68.3
	12	67.5	63.5	65.2	61.3	71.0	I	17.5	Y	3.0	10.7	X	1.0	48.6	Z	6.0	-	-	-	64.5	62.5	59.2	61.3	68.3
	13	67.6	63.6	65.2	61.4	71.0	I	18.6	Y	3.0	11.4	X	1.0	50.2	Z	6.0	-	-	-	64.6	62.6	59.2	61.4	68.4
	14	67.6	63.6	65.0	61.4	71.0	I	19.7	Y	3.0	12.1	X	1.0	51.7	Z	6.0	-	-	-	64.6	62.6	59.0	61.4	68.4
	15	67.6	63.6	65.0	61.4	71.0	I	20.9	Y	3.0	12.8	X	1.0	53.1	Z	6.0	-	-	-	64.6	62.6	59.0	61.4	68.4
	16	67.6	63.6	64.8	61.4	71.0	I	22.0	Y	3.0	13.5	X	1.0	54.4	Z	6.0	-	-	-	64.6	62.6	58.8	61.4	68.4
	17	67.6	63.6	64.8	61.4	70.9	I	23.0	Y	3.0	14.2	X	1.0	55.7	Z	6.0	-	-	-	64.6	62.6	58.8	61.4	68.4
	18	67.6	63.6	64.7	61.4	70.9	I	24.1	Y	3.0	14.9	X	1.0	56.9	Z	6.0	-	-	-	64.6	62.6	58.7	61.4	68.3
	19	67.5	63.6	64.5	61.4	70.9	I	25.1	Y	3.0	15.6	Y	3.0	58.0	Z	6.0	-	-	-	64.5	60.6	58.5	61.4	67.8
	20	67.5	63.6	64.4	61.5	70.8	I	26.2	Y	3.0	16.3	Y	3.0	59.0	Z	6.0	-	-	-	64.5	60.6	58.4	61.5	67.8
	21	67.5	63.6	64.3	61.5	70.8	I	27.2	Y	3.0	16.9	Y	3.0	60.0	Z	6.0	-	-	-	64.5	60.6	58.3	61.5	67.8
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	67.4	63.7	63.9	61.6	70.7	I	29.7	Y	3.0	18.7	Y	3.0	62.3	Z	6.0	-	-	-	64.4	60.7	57.9	61.6	67.8
	24	67.3	63.7	63.8	61.6	70.6	I	30.7	Y	3.0	19.4	Y	3.0	63.1	Z	6.0	-	-	-	64.3	60.7	57.8	61.6	67.7
	25	67.3	63.7	63.7	61.6	70.6	I	31.6	Y	3.0	20.0	Y	3.0	63.9	Z	6.0	-	-	-	64.3	60.7	57.7	61.6	67.7
	26	67.2	63.7	63.6	61.6	70.6	I	32.5	Y	3.0	20.7	Y	3.0	64.6	Z	6.0	-	-	-	64.2	60.7	57.6	61.6	67.7
	27	67.2	63.7	63.5	61.6	70.5	I	33.4	Y	3.0	21.3	Y	3.0	65.3	Z	6.0	-	-	-	64.2	60.7	57.5	61.6	67.6
	28	67.1	63.7	63.4	61.7	70.5	I	34.3	Y	3.0	22.0	Y	3.0	65.9	Z	6.0	-	-	-	64.1	60.7	57.4	61.7	67.6
	29	67.1	63.7	63.3	61.7	70.4	N/A	35.1	Y	-	22.6	Y	-	66.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	30	67.0	63.7	63.2	61.7	70.4	N/A	36.0	Y	-	23.2	Y	-	67.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	31	67.0	63.7	63.1	61.7	70.4	N/A	36.8	Y	-	23.8	Y	-	67.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	32	66.9	63.7	63.0	61.7	70.3	N/A	37.6	Y	-	24.5	Y	-	68.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	33	66.9	63.8	62.9	61.7	70.3	N/A	38.4	Y	-	25.1	Y	-	68.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	34	66.9	63.8	62.8	61.7	70.3	N/A	39.2	Y	-	25.7	Y	-	69.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	35	66.8	63.8	62.7	61.8	70.2	N/A	39.9	Y	-	26.3	Y	-	69.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	36	66.8	63.8	62.6	61.8	70.2	N/A	40.6	Y	-	26.9	Y	-	70.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	37	66.7	63.8	62.5	61.8	70.2	N/A	41.4	Y	-	27.4	Y	-	70.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	38	66.7	63.7	62.4	61.8	70.1	N/A	42.1	Y	-	28.0	Y	-	71.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	39	66.6	63.7	62.3	61.8	70.1	N/A	42.8	Y	-	28.6	Y	-	71.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	40	66.6	63.7	62.2	61.8	70.0	N/A	43.4	Y	-	29.2	Y	-	71.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	41	66.5	63.7	62.1	61.9	70.0	N/A	44.1	Y	-	29.7	Y	-	72.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	42	66.5	63.7	62.0	61.9	70.0	N/A	44.7	Y	-	30.3	Y	-	72.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	43	66.4	63.6	62.0	61.9	69.9	N/A	45.4	Z	-	30.8	Y	-	72.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	44	66.4	63.6	61.9	61.9	69.9	N/A	46.0	Z	-	31.4	Y	-	73.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	66.3	63.6	61.8	61.9	69.9	N/A	46.6	Z	-	31.9	Y	-	73.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than “Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R110a	4	68.2	52.5	55.5	58.4	69.0	N/A	8.8	X	-	2.2	X	-	31.3	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	69.0	52.9	57.7	59.2	69.8	N/A	10.2	X	-	2.9	X	-	34.1	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	6	69.4	53.4	60.1	59.8	70.4	I	11.5	X	1.0	3.7	X	1.0	36.6	Y	4.0	-	-	-	68.4	52.4	56.1	59.8	69.3
	7	69.6	53.8	62.5	60.1	70.9	I	12.9	X	1.0	4.4	X	1.0	39.0	Y	4.0	-	-	-	68.6	52.8	58.5	60.1	69.6
	8	69.8	54.2	64.0	60.3	71.3	I	14.2	X	1.0	5.2	X	1.0	41.3	Y	4.0	-	-	-	68.8	53.2	60.0	60.3	69.9
	9	69.8	54.4	65.0	60.5	71.5	I	15.6	Y	3.0	5.9	X	1.0	43.4	Y	4.0	-	-	-	66.8	53.4	61.0	60.5	68.7
	10	69.8	54.4	65.7	60.5	71.7	I	16.9	Y	3.0	6.7	X	1.0	45.4	Z	6.0	-	-	-	66.8	53.4	59.7	60.5	68.5
	11	69.9	54.5	66.0	60.6	71.8	I	18.2	Y	3.0	7.4	X	1.0	47.2	Z	6.0	-	-	-	66.9	53.5	60.0	60.6	68.6
	12	69.9	54.6	66.1	60.7	71.8	I	19.4	Y	3.0	8.1	X	1.0	48.9	Z	6.0	-	-	-	66.9	53.6	60.1	60.7	68.6
	13	69.9	54.6	66.1	60.7	71.9	I	20.7	Y	3.0	8.9	X	1.0	50.5	Z	6.0	-	-	-	66.9	53.6	60.1	60.7	68.6
	14	69.9	54.6	66.1	60.8	71.8	I	21.9	Y	3.0	9.6	X	1.0	52.1	Z	6.0	-	-	-	66.9	53.6	60.1	60.8	68.7
	15	69.9	54.6	66.0	60.8	71.8	I	23.1	Y	3.0	10.3	X	1.0	53.5	Z	6.0	-	-	-	66.9	53.6	60.0	60.8	68.7
	16	69.9	54.5	65.8	60.8	71.8	I	24.3	Y	3.0	11.1	X	1.0	54.8	Z	6.0	-	-	-	66.9	53.5	59.8	60.8	68.6
	17	69.8	54.5	65.8	60.8	71.7	I	25.5	Y	3.0	11.8	X	1.0	56.0	Z	6.0	-	-	-	66.8	53.5	59.8	60.8	68.6
	18	69.8	54.5	65.7	60.9	71.7	I	26.6	Y	3.0	12.5	X	1.0	57.2	Z	6.0	-	-	-	66.8	53.5	59.7	60.9	68.6
	19	69.7	54.5	65.5	60.9	71.6	I	27.7	Y	3.0	13.2	X	1.0	58.3	Z	6.0	-	-	-	66.7	53.5	59.5	60.9	68.5
	20	69.7	54.4	65.4	60.9	71.5	I	28.8	Y	3.0	13.9	X	1.0	59.3	Z	6.0	-	-	-	66.7	53.4	59.4	60.9	68.4
	21	69.6	54.4	65.3	60.9	71.4	I	29.9	Y	3.0	14.7	X	1.0	60.3	Z	6.0	-	-	-	66.6	53.4	59.3	60.9	68.4
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	69.5	51.4	64.9	61.0	71.3	I	32.6	Y	3.0	16.5	Y	3.0	62.6	Z	6.0	-	-	-	66.5	48.4	58.9	61.0	68.2
	24	69.5	51.4	64.8	61.0	71.2	I	33.6	Y	3.0	17.2	Y	3.0	63.4	Z	6.0	-	-	-	66.5	48.4	58.8	61.0	68.2
	25	69.4	51.3	64.7	61.0	71.2	I	34.6	Y	3.0	17.9	Y	3.0	64.2	Z	6.0	-	-	-	66.4	48.3	58.7	61.0	68.1
	26	69.4	51.3	64.6	61.0	71.1	I	35.6	Y	3.0	18.6	Y	3.0	64.9	Z	6.0	-	-	-	66.4	48.3	58.6	61.0	68.1
	27	69.3	51.3	64.5	61.1	71.0	I	36.5	Y	3.0	19.2	Y	3.0	65.6	Z	6.0	-	-	-	66.3	48.3	58.5	61.1	68.0
	28	69.3	51.3	64.4	61.1	71.0	I	37.4	Y	3.0	19.9	Y	3.0	66.2	Z	6.0	-	-	-	66.3	48.3	58.4	61.1	68.0
	29	69.2	51.2	64.2	61.1	70.9	I	38.3	Y	3.0	20.6	Y	3.0	66.8	Z	6.0	-	-	-	66.2	48.2	58.2	61.1	67.9
	30	69.1	51.2	64.1	61.1	70.8	I	39.1	Y	3.0	21.2	Y	3.0	67.4	Z	6.0	-	-	-	66.1	48.2	58.1	61.1	67.8
	31	69.1	51.2	64.0	61.1	70.8	I	40.0	Y	3.0	21.9	Y	3.0	68.0	Z	6.0	-	-	-	66.1	48.2	58.0	61.1	67.8
	32	69.0	51.2	63.9	61.1	70.7	I	40.8	Y	3.0	22.5	Y	3.0	68.5	Z	6.0	-	-	-	66.0	48.2	57.9	61.1	67.7
	33	68.9	51.1	63.8	61.1	70.7	I	41.6	Y	3.0	23.2	Y	3.0	69.0	Z	6.0	-	-	-	65.9	48.1	57.8	61.1	67.7
	34	68.9	51.1	63.7	61.1	70.6	I	42.4	Y	3.0	23.8	Y	3.0	69.5	Z	6.0	-	-	-	65.9	48.1	57.7	61.1	67.7
	35	68.8	51.1	63.6	61.1	70.6	I	43.1	Y	3.0	24.4	Y	3.0	69.9	Z	6.0	-	-	-	65.8	48.1	57.6	61.1	67.6
	36	68.8	51.0	63.5	61.2	70.5	I	43.9	Y	3.0	25.1	Y	3.0	70.4	Z	6.0	-	-	-	65.8	48.0	57.5	61.2	67.6
	37	68.7	51.0	63.5	61.2	70.5	I	44.6	Y	3.0	25.7	Y	3.0	70.8	Z	6.0	-	-	-	65.7	48.0	57.5	61.2	67.5
	38	68.7	51.0	63.4	61.2	70.4	I	45.3	Z	5.0	26.3	Y	3.0	71.2	Z	6.0	-	-	-	63.7	48.0	57.4	61.2	66.3
	39	68.6	50.9	63.3	61.2	70.3	N/A	46.0	Z	-	26.9	Y	-	71.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	40	68.5	50.9	63.2	61.3	70.3	N/A	46.7	Z	-	27.5	Y	-	72.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	41	68.5	50.9	63.1	61.3	70.2	N/A	47.4	Z	-	28.1	Y	-	72.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	42	68.4	50.9	63.0	61.3	70.2	N/A	48.0	Z	-	28.7	Y	-	72.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	43	68.4	50.8	62.9	61.3	70.1	N/A	48.6	Z	-	29.2	Y	-	73.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	44	68.3	50.8	62.9	61.4	70.1	N/A	49.2	Z	-	29.8	Y	-	73.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	68.3	50.9	62.8	61.4	70.0	N/A	49.8	Z	-	30.4	Y	-	73.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R110b	4	68.4	52.7	55.4	58.5	69.2	N/A	9.0	X	-	2.2	X	-	31.4	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	69.2	53.2	57.6	59.2	70.0	N/A	10.4	X	-	2.9	X	-	34.1	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	6	69.7	53.8	60.0	59.8	70.6	I	11.8	X	1.0	3.7	X	1.0	36.7	Y	4.0	-	-	-	68.7	52.8	56.0	59.8	69.5
	7	69.8	54.3	62.3	60.1	71.0	I	13.2	X	1.0	4.4	X	1.0	39.1	Y	4.0	-	-	-	68.8	53.3	58.3	60.1	69.8
	8	69.9	54.6	63.9	60.3	71.3	I	14.5	X	1.0	5.2	X	1.0	41.3	Y	4.0	-	-	-	68.9	53.6	59.9	60.3	70.0
	9	70.0	54.8	64.9	60.5	71.6	I	15.9	Y	3.0	5.9	X	1.0	43.4	Y	4.0	-	-	-	67.0	53.8	60.9	60.5	68.8
	10	70.0	54.9	65.6	60.6	71.8	I	17.2	Y	3.0	6.7	X	1.0	45.4	Z	6.0	-	-	-	67.0	53.9	59.6	60.6	68.6
	11	70.0	55.0	66.0	60.6	71.9	I	18.5	Y	3.0	7.4	X	1.0	47.2	Z	6.0	-	-	-	67.0	54.0	60.0	60.6	68.7
	12	70.1	54.9	66.1	60.7	71.9	I	19.8	Y	3.0	8.2	X	1.0	49.0	Z	6.0	-	-	-	67.1	53.9	60.1	60.7	68.8
	13	70.1	54.9	66.1	60.7	72.0	I	21.1	Y	3.0	8.9	X	1.0	50.6	Z	6.0	-	-	-	67.1	53.9	60.1	60.7	68.8
	14	70.1	54.9	66.1	60.8	72.0	I	22.3	Y	3.0	9.7	X	1.0	52.1	Z	6.0	-	-	-	67.1	53.9	60.1	60.8	68.8
	15	70.0	54.9	66.0	60.8	71.9	I	23.6	Y	3.0	10.4	X	1.0	53.5	Z	6.0	-	-	-	67.0	53.9	60.0	60.8	68.7
	16	70.0	54.9	65.8	60.8	71.9	I	24.8	Y	3.0	11.2	X	1.0	54.8	Z	6.0	-	-	-	67.0	53.9	59.8	60.8	68.7
	17	70.0	54.9	65.7	60.9	71.8	I	25.9	Y	3.0	11.9	X	1.0	56.1	Z	6.0	-	-	-	67.0	53.9	59.7	60.9	68.7
	18	69.9	54.8	65.6	60.9	71.7	I	27.1	Y	3.0	12.6	X	1.0	57.2	Z	6.0	-	-	-	66.9	53.8	59.6	60.9	68.6
	19	69.8	54.8	65.5	60.9	71.7	I	28.2	Y	3.0	13.3	X	1.0	58.3	Z	6.0	-	-	-	66.8	53.8	59.5	60.9	68.5
	20	69.8	54.8	65.4	60.9	71.6	I	29.4	Y	3.0	14.0	X	1.0	59.4	Z	6.0	-	-	-	66.8	53.8	59.4	60.9	68.5
	21	69.7	54.8	65.2	60.9	71.5	I	30.4	Y	3.0	14.8	X	1.0	60.3	Z	6.0	-	-	-	66.7	53.8	59.2	60.9	68.4
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	69.6	52.0	64.9	61.0	71.4	I	33.2	Y	3.0	16.6	Y	3.0	62.7	Z	6.0	-	-	-	66.6	49.0	58.9	61.0	68.3
	24	69.6	52.0	64.8	61.0	71.3	I	34.2	Y	3.0	17.3	Y	3.0	63.4	Z	6.0	-	-	-	66.6	49.0	58.8	61.0	68.2
	25	69.5	52.0	64.7	61.0	71.2	I	35.2	Y	3.0	18.0	Y	3.0	64.2	Z	6.0	-	-	-	66.5	49.0	58.7	61.0	68.2
	26	69.5	51.9	64.6	61.0	71.2	I	36.1	Y	3.0	18.7	Y	3.0	64.9	Z	6.0	-	-	-	66.5	48.9	58.6	61.0	68.1
	27	69.4	51.9	64.5	61.1	71.1	I	37.1	Y	3.0	19.4	Y	3.0	65.6	Z	6.0	-	-	-	66.4	48.9	58.5	61.1	68.1
	28	69.4	51.9	64.4	61.1	71.1	I	38.0	Y	3.0	20.0	Y	3.0	66.2	Z	6.0	-	-	-	66.4	48.9	58.4	61.1	68.1
	29	69.3	51.9	64.3	61.1	71.0	I	38.9	Y	3.0	20.7	Y	3.0	66.8	Z	6.0	-	-	-	66.3	48.9	58.3	61.1	68.0
	30	69.3	51.8	64.1	61.1	70.9	I	39.7	Y	3.0	21.4	Y	3.0	67.4	Z	6.0	-	-	-	66.3	48.8	58.1	61.1	68.0
	31	69.2	51.8	64.0	61.1	70.9	I	40.6	Y	3.0	22.0	Y	3.0	68.0	Z	6.0	-	-	-	66.2	48.8	58.0	61.1	67.9
	32	69.1	51.8	63.9	61.1	70.8	I	41.4	Y	3.0	22.7	Y	3.0	68.5	Z	6.0	-	-	-	66.1	48.8	57.9	61.1	67.8
	33	69.1	51.8	63.8	61.1	70.8	I	42.2	Y	3.0	23.3	Y	3.0	69.0	Z	6.0	-	-	-	66.1	48.8	57.8	61.1	67.8
	34	69.0	51.7	63.7	61.1	70.7	I	43.0	Y	3.0	24.0	Y	3.0	69.5	Z	6.0	-	-	-	66.0	48.7	57.7	61.1	67.7
	35	69.0	51.7	63.6	61.1	70.6	I	43.7	Y	3.0	24.6	Y	3.0	70.0	Z	6.0	-	-	-	66.0	48.7	57.6	61.1	67.7
	36	68.9	51.7	63.6	61.1	70.6	I	44.5	Y	3.0	25.2	Y	3.0	70.4	Z	6.0	-	-	-	65.9	48.7	57.6	61.1	67.7
	37	68.8	51.6	63.5	61.2	70.5	I	45.2	Z	5.0	25.8	Y	3.0	70.8	Z	6.0	-	-	-	63.8	48.6	57.5	61.2	66.4
	38	68.8	51.6	63.4	61.2	70.5	I	45.9	Z	5.0	26.4	Y	3.0	71.2	Z	6.0	-	-	-	63.8	48.6	57.4	61.2	66.4
	39	68.7	51.6	63.3	61.2	70.4	N/A	46.6	Z	-	27.1	Y	-	71.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	40	68.6	51.5	63.2	61.3	70.4	N/A	47.3	Z	-	27.7	Y	-	72.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	41	68.6	51.5	63.1	61.3	70.3	N/A	48.0	Z	-	28.2	Y	-	72.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	42	68.5	51.5	63.0	61.3	70.3	N/A	48.6	Z	-	28.8	Y	-	72.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	43	68.4	51.5	62.9	61.3	70.2	N/A	49.2	Z	-	29.4	Y	-	73.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	44	68.4	51.4	62.9	61.4	70.2	N/A	49.8	Z	-	30.0	Y	-	73.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	68.3	51.4	62.8	61.4	70.1	N/A	50.4	Z	-	30.6	Y	-	73.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R111b	4	68.9	53.2	55.3	58.6	69.6	N/A	9.4	X	-	2.2	X	-	31.4	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	69.7	54.0	57.5	59.2	70.4	I	10.9	X	1.0	3.0	X	1.0	34.1	Y	4.0	-	-	-	68.7	53.0	53.5	59.2	69.4
	6	70.1	54.6	59.7	59.6	70.9	I	12.4	X	1.0	3.7	X	1.0	36.7	Y	4.0	-	-	-	69.1	53.6	55.7	59.6	69.8
	7	70.3	55.1	61.9	59.8	71.3	I	13.8	X	1.0	4.5	X	1.0	39.1	Y	4.0	-	-	-	69.3	54.1	57.9	59.8	70.1
	8	70.2	55.4	63.6	60.0	71.5	I	15.2	Y	3.0	5.3	X	1.0	41.3	Y	4.0	-	-	-	67.2	54.4	59.6	60.0	68.7
	9	70.3	55.6	64.7	60.2	71.8	I	16.6	Y	3.0	6.0	X	1.0	43.4	Y	4.0	-	-	-	67.3	54.6	60.7	60.2	69.0
	10	70.4	55.7	65.5	60.3	72.0	I	18.0	Y	3.0	6.8	X	1.0	45.4	Z	6.0	-	-	-	67.4	54.7	59.5	60.3	68.9
	11	70.4	55.7	65.9	60.4	72.1	I	19.4	Y	3.0	7.6	X	1.0	47.3	Z	6.0	-	-	-	67.4	54.7	59.9	60.4	69.0
	12	70.4	55.7	66.1	60.4	72.2	I	20.7	Y	3.0	8.3	X	1.0	49.0	Z	6.0	-	-	-	67.4	54.7	60.1	60.4	69.0
	13	70.4	55.7	66.1	60.5	72.2	I	22.0	Y	3.0	9.1	X	1.0	50.6	Z	6.0	-	-	-	67.4	54.7	60.1	60.5	69.0
	14	70.4	55.7	66.1	60.5	72.2	I	23.3	Y	3.0	9.8	X	1.0	52.1	Z	6.0	-	-	-	67.4	54.7	60.1	60.5	69.0
	15	70.4	55.6	66.0	60.6	72.1	I	24.6	Y	3.0	10.6	X	1.0	53.5	Z	6.0	-	-	-	67.4	54.6	60.0	60.6	69.0
	16	70.3	55.6	65.9	60.6	72.1	I	25.8	Y	3.0	11.3	X	1.0	54.8	Z	6.0	-	-	-	67.3	54.6	59.9	60.6	68.9
	17	70.2	55.6	65.8	60.6	72.0	I	27.0	Y	3.0	12.1	X	1.0	56.1	Z	6.0	-	-	-	67.2	54.6	59.8	60.6	68.8
	18	70.2	55.5	65.6	60.7	71.9	I	28.2	Y	3.0	12.8	X	1.0	57.2	Z	6.0	-	-	-	67.2	54.5	59.6	60.7	68.8
	19	70.1	55.5	65.5	60.7	71.9	I	29.4	Y	3.0	13.5	X	1.0	58.3	Z	6.0	-	-	-	67.1	54.5	59.5	60.7	68.7
	20	70.1	55.5	65.4	60.7	71.8	I	30.5	Y	3.0	14.3	X	1.0	59.4	Z	6.0	-	-	-	67.1	54.5	59.4	60.7	68.7
	21	70.0	55.5	65.3	60.7	71.7	I	31.7	Y	3.0	15.0	X	1.0	60.4	Z	6.0	-	-	-	67.0	54.5	59.3	60.7	68.6
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	69.9	53.2	64.9	60.8	71.6	I	34.5	Y	3.0	16.9	Y	3.0	62.7	Z	6.0	-	-	-	66.9	50.2	58.9	60.8	68.4
	24	69.8	53.2	64.8	60.8	71.5	I	35.5	Y	3.0	17.6	Y	3.0	63.5	Z	6.0	-	-	-	66.8	50.2	58.8	60.8	68.4
	25	69.8	53.2	64.7	60.9	71.4	I	36.5	Y	3.0	18.3	Y	3.0	64.2	Z	6.0	-	-	-	66.8	50.2	58.7	60.9	68.4
	26	69.7	53.1	64.6	60.9	71.4	I	37.4	Y	3.0	19.0	Y	3.0	64.9	Z	6.0	-	-	-	66.7	50.1	58.6	60.9	68.3
	27	69.7	53.1	64.5	60.9	71.3	I	38.4	Y	3.0	19.7	Y	3.0	65.6	Z	6.0	-	-	-	66.7	50.1	58.5	60.9	68.3
	28	69.6	53.1	64.3	60.9	71.2	I	39.3	Y	3.0	20.3	Y	3.0	66.2	Z	6.0	-	-	-	66.6	50.1	58.3	60.9	68.2
	29	69.5	53.0	64.2	60.9	71.2	I	40.2	Y	3.0	21.0	Y	3.0	66.9	Z	6.0	-	-	-	66.5	50.0	58.2	60.9	68.1
	30	69.5	53.0	64.1	60.9	71.1	I	41.1	Y	3.0	21.7	Y	3.0	67.4	Z	6.0	-	-	-	66.5	50.0	58.1	60.9	68.1
	31	69.4	53.0	64.0	60.9	71.0	I	41.9	Y	3.0	22.4	Y	3.0	68.0	Z	6.0	-	-	-	66.4	50.0	58.0	60.9	68.0
	32	69.4	53.0	63.9	61.0	71.0	I	42.8	Y	3.0	23.0	Y	3.0	68.5	Z	6.0	-	-	-	66.4	50.0	57.9	61.0	68.0
	33	69.3	52.9	63.8	61.0	70.9	I	43.6	Y	3.0	23.7	Y	3.0	69.0	Z	6.0	-	-	-	66.3	49.9	57.8	61.0	67.9
	34	69.2	52.9	63.7	61.0	70.8	I	44.4	Y	3.0	24.3	Y	3.0	69.5	Z	6.0	-	-	-	66.2	49.9	57.7	61.0	67.9
	35	69.2	52.9	63.6	61.0	70.8	I	45.1	Z	5.0	24.9	Y	3.0	70.0	Z	6.0	-	-	-	64.2	49.9	57.6	61.0	66.6
	36	69.1	52.9	63.5	61.0	70.7	I	45.9	Z	5.0	25.6	Y	3.0	70.4	Z	6.0	-	-	-	64.1	49.9	57.5	61.0	66.5
	37	69.0	52.9	63.4	61.0	70.7	I	46.6	Z	5.0	26.2	Y	3.0	70.8	Z	6.0	-	-	-	64.0	49.9	57.4	61.0	66.5
	38	69.0	52.9	63.4	61.0	70.6	I	47.3	Z	5.0	26.8	Y	3.0	71.3	Z	6.0	-	-	-	64.0	49.9	57.4	61.0	66.5
	39	68.9	52.8	63.3	61.0	70.6	I	48.0	Z	5.0	27.4	Y	3.0	71.6	Z	6.0	-	-	-	63.9	49.8	57.3	61.0	66.4
	40	68.9	52.8	63.2	61.1	70.5	I	48.7	Z	5.0	28.0	Y	3.0	72.0	Z	6.0	-	-	-	63.9	49.8	57.2	61.1	66.4
	41	68.8	52.8	63.1	61.1	70.4	I	49.3	Z	5.0	28.6	Y	3.0	72.4	Z	6.0	-	-	-	63.8	49.8	57.1	61.1	66.3
	42	68.7	52.8	63.0	61.2	70.4	N/A	50.0	Z	-	29.2	Y	-	72.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	43	68.7	52.7	62.9	61.2	70.3	N/A	50.6	Z	-	29.8	Y	-	73.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	44	68.6	52.7	62.8	61.2	70.3	N/A	51.2	Z	-	30.4	Y	-	73.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	68.6	52.7	62.8	61.2	70.2	N/A	51.8	Z	-	31.0	Y	-	73.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R111c	4	69.2	54.0	55.3	58.7	69.8	N/A	9.6	X	-	2.2	X	-	31.4	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	70.0	54.7	57.5	59.2	70.7	I	11.1	X	1.0	3.0	X	1.0	34.1	Y	4.0	-	-	-	69.0	53.7	53.5	59.2	69.7
	6	70.3	55.1	59.6	59.6	71.1	I	12.6	X	1.0	3.8	X	1.0	36.7	Y	4.0	-	-	-	69.3	54.1	55.6	59.6	70.0
	7	70.4	55.4	61.8	59.8	71.4	I	14.1	X	1.0	4.5	X	1.0	39.1	Y	4.0	-	-	-	69.4	54.4	57.8	59.8	70.2
	8	70.4	55.8	63.5	60.0	71.6	I	15.6	Y	3.0	5.3	X	1.0	41.3	Y	4.0	-	-	-	67.4	54.8	59.5	60.0	68.9
	9	70.5	55.9	64.6	60.2	71.9	I	17.0	Y	3.0	6.1	X	1.0	43.4	Y	4.0	-	-	-	67.5	54.9	60.6	60.2	69.1
	10	70.5	56.1	65.4	60.3	72.1	I	18.4	Y	3.0	6.9	X	1.0	45.4	Z	6.0	-	-	-	67.5	55.1	59.4	60.3	69.0
	11	70.6	56.0	65.9	60.4	72.2	I	19.8	Y	3.0	7.6	X	1.0	47.2	Z	6.0	-	-	-	67.6	55.0	59.9	60.4	69.1
	12	70.6	56.1	66.0	60.4	72.3	I	21.2	Y	3.0	8.4	X	1.0	49.0	Z	6.0	-	-	-	67.6	55.1	60.0	60.4	69.1
	13	70.5	56.1	66.1	60.5	72.3	I	22.5	Y	3.0	9.2	X	1.0	50.6	Z	6.0	-	-	-	67.5	55.1	60.1	60.5	69.1
	14	70.5	56.1	66.0	60.5	72.3	I	23.8	Y	3.0	9.9	X	1.0	52.1	Z	6.0	-	-	-	67.5	55.1	60.0	60.5	69.1
	15	70.5	56.0	66.0	60.6	72.2	I	25.1	Y	3.0	10.7	X	1.0	53.5	Z	6.0	-	-	-	67.5	55.0	60.0	60.6	69.1
	16	70.4	56.0	65.8	60.6	72.1	I	26.4	Y	3.0	11.4	X	1.0	54.8	Z	6.0	-	-	-	67.4	55.0	59.8	60.6	69.0
	17	70.3	55.9	65.8	60.6	72.1	I	27.6	Y	3.0	12.2	X	1.0	56.1	Z	6.0	-	-	-	67.3	54.9	59.8	60.6	68.9
	18	70.3	55.9	65.7	60.7	72.0	I	28.8	Y	3.0	12.9	X	1.0	57.2	Z	6.0	-	-	-	67.3	54.9	59.7	60.7	68.9
	19	70.2	55.9	65.5	60.7	72.0	I	30.0	Y	3.0	13.6	X	1.0	58.3	Z	6.0	-	-	-	67.2	54.9	59.5	60.7	68.8
	20	70.2	55.8	65.4	60.7	71.9	I	31.1	Y	3.0	14.4	X	1.0	59.4	Z	6.0	-	-	-	67.2	54.8	59.4	60.7	68.8
	21	70.1	55.8	65.3	60.7	71.8	I	32.3	Y	3.0	15.1	Y	3.0	60.3	Z	6.0	-	-	-	67.1	52.8	59.3	60.7	68.7
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	70.0	53.6	64.9	60.8	71.6	I	35.1	Y	3.0	17.0	Y	3.0	62.7	Z	6.0	-	-	-	67.0	50.6	58.9	60.8	68.5
	24	70.0	53.6	64.8	60.8	71.6	I	36.1	Y	3.0	17.7	Y	3.0	63.4	Z	6.0	-	-	-	67.0	50.6	58.8	60.8	68.5
	25	69.9	53.6	64.7	60.8	71.5	I	37.1	Y	3.0	18.4	Y	3.0	64.2	Z	6.0	-	-	-	66.9	50.6	58.7	60.8	68.4
	26	69.8	53.6	64.6	60.9	71.4	I	38.1	Y	3.0	19.1	Y	3.0	64.9	Z	6.0	-	-	-	66.8	50.6	58.6	60.9	68.4
	27	69.8	53.5	64.5	60.9	71.4	I	39.0	Y	3.0	19.8	Y	3.0	65.6	Z	6.0	-	-	-	66.8	50.5	58.5	60.9	68.3
	28	69.7	53.6	64.4	60.9	71.3	I	40.0	Y	3.0	20.5	Y	3.0	66.2	Z	6.0	-	-	-	66.7	50.6	58.4	60.9	68.3
	29	69.6	53.6	64.3	60.9	71.2	I	40.9	Y	3.0	21.2	Y	3.0	66.8	Z	6.0	-	-	-	66.6	50.6	58.3	60.9	68.2
	30	69.6	53.6	64.1	60.9	71.2	I	41.7	Y	3.0	21.8	Y	3.0	67.4	Z	6.0	-	-	-	66.6	50.6	58.1	60.9	68.2
	31	69.5	53.5	64.0	60.9	71.1	I	42.6	Y	3.0	22.5	Y	3.0	68.0	Z	6.0	-	-	-	66.5	50.5	58.0	60.9	68.1
	32	69.4	53.5	63.9	61.0	71.0	I	43.4	Y	3.0	23.2	Y	3.0	68.5	Z	6.0	-	-	-	66.4	50.5	57.9	61.0	68.0
	33	69.4	53.5	63.8	60.9	71.0	I	44.2	Y	3.0	23.8	Y	3.0	69.0	Z	6.0	-	-	-	66.4	50.5	57.8	60.9	68.0
	34	69.3	53.4	63.7	61.0	70.9	I	45.0	Z	5.0	24.5	Y	3.0	69.5	Z	6.0	-	-	-	64.3	50.4	57.7	61.0	66.7
	35	69.2	53.4	63.6	61.0	70.8	I	45.8	Z	5.0	25.1	Y	3.0	70.0	Z	6.0	-	-	-	64.2	50.4	57.6	61.0	66.6
	36	69.2	53.4	63.6	61.0	70.8	I	46.5	Z	5.0	25.7	Y	3.0	70.4	Z	6.0	-	-	-	64.2	50.4	57.6	61.0	66.6
	37	69.1	53.3	63.5	61.0	70.7	I	47.3	Z	5.0	26.4	Y	3.0	70.8	Z	6.0	-	-	-	64.1	50.3	57.5	61.0	66.5
	38	69.1	53.3	63.4	61.0	70.7	I	48.0	Z	5.0	27.0	Y	3.0	71.2	Z	6.0	-	-	-	64.1	50.3	57.4	61.0	66.5
	39	69.0	53.3	63.3	61.0	70.6	I	48.7	Z	5.0	27.6	Y	3.0	71.6	Z	6.0	-	-	-	64.0	50.3	57.3	61.0	66.4
	40	68.9	53.3	63.2	61.1	70.6	I	49.3	Z	5.0	28.2	Y	3.0	72.0	Z	6.0	-	-	-	63.9	50.3	57.2	61.1	66.4
	41	68.9	53.2	63.1	61.1	70.5	I	50.0	Z	5.0	28.8	Y	3.0	72.4	Z	6.0	-	-	-	63.9	50.2	57.1	61.1	66.4
	42	68.8	53.2	63.0	61.1	70.4	N/A	50.6	Z	-	29.4	Y	-	72.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	43	68.8	53.2	62.9	61.2	70.4	N/A	51.2	Z	-	30.0	Y	-	73.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	44	68.7	53.1	62.9	61.2	70.3	N/A	51.8	Z	-	30.6	Y	-	73.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	68.6	53.1	62.8	61.2	70.3	N/A	52.4	Z	-	31.2	Y	-	73.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R112a	4	70.1	57.3	55.6	59.2	70.8	I	11.8	X	1.0	2.4	X	1.0	31.6	Y	4.0	-	-	-	69.1	56.3	51.6	59.2	69.8
	5	71.2	57.5	59.0	59.5	71.9	II	13.6	X	2.5	3.2	X	2.5	34.3	Y	6.0	-	-	-	68.7	55.0	53.0	59.5	69.5
	6	71.5	57.7	60.7	59.8	72.3	I	15.4	Y	3.0	4.0	X	1.0	36.9	Y	4.0	-	-	-	68.5	56.7	56.7	59.8	69.5
	7	71.8	57.9	62.0	59.9	72.6	I	17.1	Y	3.0	4.8	X	1.0	39.3	Y	4.0	-	-	-	68.8	56.9	58.0	59.9	69.9
	8	71.9	58.0	63.2	60.0	72.8	I	18.8	Y	3.0	5.7	X	1.0	41.6	Y	4.0	-	-	-	68.9	57.0	59.2	60.0	70.0
	9	71.9	58.1	64.2	60.0	73.0	I	20.5	Y	3.0	6.5	X	1.0	43.7	Y	4.0	-	-	-	68.9	57.1	60.2	60.0	70.1
	10	71.9	58.2	65.3	60.1	73.1	I	22.2	Y	3.0	7.3	X	1.0	45.7	Z	6.0	-	-	-	68.9	57.2	59.3	60.1	70.1
	11	71.8	58.2	65.8	60.1	73.2	I	23.8	Y	3.0	8.1	X	1.0	47.5	Z	6.0	-	-	-	68.8	57.2	59.8	60.1	70.0
	12	71.8	58.3	66.0	60.1	73.2	I	25.4	Y	3.0	8.9	X	1.0	49.2	Z	6.0	-	-	-	68.8	57.3	60.0	60.1	70.1
	13	71.7	58.3	66.0	60.2	73.1	I	26.9	Y	3.0	9.7	X	1.0	50.8	Z	6.0	-	-	-	68.7	57.3	60.0	60.2	70.0
	14	71.6	58.3	66.1	60.2	73.1	I	28.4	Y	3.0	10.5	X	1.0	52.3	Z	6.0	-	-	-	68.6	57.3	60.1	60.2	69.9
	15	71.5	58.3	65.9	60.3	73.0	I	29.9	Y	3.0	11.3	X	1.0	53.7	Z	6.0	-	-	-	68.5	57.3	59.9	60.3	69.9
	16	71.5	58.3	65.8	60.3	72.9	I	31.3	Y	3.0	12.1	X	1.0	55.1	Z	6.0	-	-	-	68.5	57.3	59.8	60.3	69.8
	17	71.4	58.2	65.7	60.3	72.8	I	32.6	Y	3.0	12.9	X	1.0	56.3	Z	6.0	-	-	-	68.4	57.2	59.7	60.3	69.8
	18	71.3	58.2	65.6	60.4	72.7	I	34.0	Y	3.0	13.7	X	1.0	57.5	Z	6.0	-	-	-	68.3	57.2	59.6	60.4	69.7
	19	71.2	58.2	65.4	60.4	72.7	I	35.3	Y	3.0	14.5	X	1.0	58.6	Z	6.0	-	-	-	68.2	57.2	59.4	60.4	69.6
	20	71.1	58.2	65.3	60.4	72.6	I	36.5	Y	3.0	15.3	Y	3.0	59.6	Z	6.0	-	-	-	68.1	55.2	59.3	60.4	69.4
	21	71.0	58.1	65.2	60.4	72.5	I	37.7	Y	3.0	16.0	Y	3.0	60.6	Z	6.0	-	-	-	68.0	55.1	59.2	60.4	69.3
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	70.9	56.8	64.9	60.4	72.3	I	40.7	Y	3.0	18.0	Y	3.0	62.9	Z	6.0	-	-	-	67.9	53.8	58.9	60.4	69.2
	24	70.8	56.8	64.7	60.4	72.2	I	41.8	Y	3.0	18.8	Y	3.0	63.6	Z	6.0	-	-	-	67.8	53.8	58.7	60.4	69.1
	25	70.7	56.8	64.6	60.5	72.1	I	42.9	Y	3.0	19.5	Y	3.0	64.4	Z	6.0	-	-	-	67.7	53.8	58.6	60.5	69.0
	26	70.6	56.7	64.5	60.5	72.0	I	43.9	Y	3.0	20.3	Y	3.0	65.1	Z	6.0	-	-	-	67.6	53.7	58.5	60.5	68.9
	27	70.6	56.7	64.4	60.4	72.0	I	44.8	Y	3.0	21.0	Y	3.0	65.8	Z	6.0	-	-	-	67.6	53.7	58.4	60.4	68.9
	28	70.5	56.7	64.3	60.5	71.9	I	45.8	Z	5.0	21.7	Y	3.0	66.4	Z	6.0	-	-	-	65.5	53.7	58.3	60.5	67.5
	29	70.4	56.6	64.2	60.5	71.8	I	46.7	Z	5.0	22.4	Y	3.0	67.0	Z	6.0	-	-	-	65.4	53.6	58.2	60.5	67.4
	30	70.3	56.6	64.1	60.4	71.7	I	47.6	Z	5.0	23.1	Y	3.0	67.6	Z	6.0	-	-	-	65.3	53.6	58.1	60.4	67.3
	31	70.2	56.6	64.0	60.4	71.6	I	48.4	Z	5.0	23.8	Y	3.0	68.2	Z	6.0	-	-	-	65.2	53.6	58.0	60.4	67.2
	32	70.1	56.5	63.9	60.4	71.6	I	49.2	Z	5.0	24.5	Y	3.0	68.7	Z	6.0	-	-	-	65.1	53.5	57.9	60.4	67.1
	33	70.1	56.5	63.8	60.4	71.5	I	50.0	Z	5.0	25.2	Y	3.0	69.2	Z	6.0	-	-	-	65.1	53.5	57.8	60.4	67.1
	34	70.0	56.5	63.7	60.4	71.4	I	50.8	Z	5.0	25.9	Y	3.0	69.7	Z	6.0	-	-	-	65.0	53.5	57.7	60.4	67.1
	35	69.9	56.4	63.6	60.4	71.4	I	51.6	Z	5.0	26.5	Y	3.0	70.1	Z	6.0	-	-	-	64.9	53.4	57.6	60.4	67.0
	36	69.9	56.4	63.5	60.4	71.3	I	52.3	Z	5.0	27.2	Y	3.0	70.6	Z	6.0	-	-	-	64.9	53.4	57.5	60.4	67.0
	37	69.8	56.4	63.4	60.4	71.2	I	53.0	Z	5.0	27.9	Y	3.0	71.0	Z	6.0	-	-	-	64.8	53.4	57.4	60.4	66.9
	38	69.7	56.3	63.3	60.4	71.1	I	53.7	Z	5.0	28.5	Y	3.0	71.4	Z	6.0	-	-	-	64.7	53.3	57.3	60.4	66.8
	39	69.6	56.3	63.2	60.4	71.1	I	54.3	Z	5.0	29.1	Y	3.0	71.8	Z	6.0	-	-	-	64.6	53.3	57.2	60.4	66.7
	40	69.6	56.3	63.1	60.5	71.0	I	55.0	Z	5.0	29.8	Y	3.0	72.2	Z	6.0	-	-	-	64.6	53.3	57.1	60.5	66.8
	41	69.5	56.2	63.1	60.5	71.0	I	55.6	Z	5.0	30.4	Y	3.0	72.5	Z	6.0	-	-	-	64.5	53.2	57.1	60.5	66.7
	42	69.4	56.2	63.0	60.5	70.9	I	56.2	Z	5.0	31.0	Y	3.0	72.9	Z	6.0	-	-	-	64.4	53.2	57.0	60.5	66.6
	43	69.3	56.2	62.9	60.5	70.8	I	56.8	Z	5.0	31.6	Y	3.0	73.2	Z	6.0	-	-	-	64.3	53.2	56.9	60.5	66.5
	44	69.3	56.1	62.9	60.5	70.8	I	57.3	Z	5.0	32.2	Y	3.0	73.5	Z	6.0	-	-	-	64.3	53.1	56.9	60.5	66.5
	45	69.2	56.1	62.8	60.6	70.7	I	57.9	Z	5.0	32.8	Y	3.0	73.8	Z	6.0	-	-	-	64.2	53.1	56.8	60.6	66.5

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R112b	4	70.4	57.6	56.2	59.3	71.0	I	12.1	X	1.0	2.4	X	1.0	31.8	Y	4.0	-	-	-	69.4	56.6	52.2	59.3	70.1
	5	71.3	57.8	59.5	59.6	72.0	II	13.9	X	2.5	3.2	X	2.5	34.6	Y	6.0	-	-	-	68.8	55.3	53.5	59.6	69.6
	6	71.8	58.0	61.1	59.9	72.5	I	15.8	Y	3.0	4.1	X	1.0	37.1	Y	4.0	-	-	-	68.8	57.0	57.1	59.9	69.8
	7	72.0	58.2	62.3	60.0	72.8	I	17.6	Y	3.0	4.9	X	1.0	39.6	Y	4.0	-	-	-	69.0	57.2	58.3	60.0	70.1
	8	72.1	58.3	63.4	60.1	73.0	I	19.3	Y	3.0	5.7	X	1.0	41.8	Y	4.0	-	-	-	69.1	57.3	59.4	60.1	70.2
	9	72.1	58.4	64.4	60.2	73.1	I	21.0	Y	3.0	6.5	X	1.0	43.9	Y	4.0	-	-	-	69.1	57.4	60.4	60.2	70.3
	10	72.1	58.4	65.4	60.2	73.3	I	22.7	Y	3.0	7.4	X	1.0	45.9	Z	6.0	-	-	-	69.1	57.4	59.4	60.2	70.3
	11	72.0	58.5	65.9	60.3	73.3	I	24.4	Y	3.0	8.2	X	1.0	47.7	Z	6.0	-	-	-	69.0	57.5	59.9	60.3	70.2
	12	71.9	58.5	66.1	60.3	73.3	I	26.0	Y	3.0	9.0	X	1.0	49.5	Z	6.0	-	-	-	68.9	57.5	60.1	60.3	70.2
	13	71.8	58.6	66.0	60.3	73.2	I	27.5	Y	3.0	9.8	X	1.0	51.1	Z	6.0	-	-	-	68.8	57.6	60.0	60.3	70.1
	14	71.7	58.6	66.1	60.4	73.2	I	29.1	Y	3.0	10.6	X	1.0	52.6	Z	6.0	-	-	-	68.7	57.6	60.1	60.4	70.0
	15	71.6	58.5	65.9	60.4	73.1	I	30.5	Y	3.0	11.4	X	1.0	54.0	Z	6.0	-	-	-	68.6	57.5	59.9	60.4	69.9
	16	71.6	58.5	65.8	60.5	73.0	I	32.0	Y	3.0	12.3	X	1.0	55.3	Z	6.0	-	-	-	68.6	57.5	59.8	60.5	69.9
	17	71.5	58.5	65.7	60.5	72.9	I	33.3	Y	3.0	13.0	X	1.0	56.5	Z	6.0	-	-	-	68.5	57.5	59.7	60.5	69.9
	18	71.4	58.5	65.6	60.5	72.9	I	34.7	Y	3.0	13.8	X	1.0	57.7	Z	6.0	-	-	-	68.4	57.5	59.6	60.5	69.8
	19	71.3	58.4	65.5	60.6	72.8	I	36.0	Y	3.0	14.6	X	1.0	58.8	Z	6.0	-	-	-	68.3	57.4	59.5	60.6	69.7
	20	71.2	58.4	65.3	60.6	72.7	I	37.3	Y	3.0	15.4	Y	3.0	59.8	Z	6.0	-	-	-	68.2	55.4	59.3	60.6	69.5
	21	71.1	58.4	65.2	60.6	72.6	I	38.5	Y	3.0	16.2	Y	3.0	60.8	Z	6.0	-	-	-	68.1	55.4	59.2	60.6	69.4
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	71.0	57.1	64.9	60.6	72.4	I	41.5	Y	3.0	18.2	Y	3.0	63.1	Z	6.0	-	-	-	68.0	54.1	58.9	60.6	69.3
	24	70.9	57.1	64.7	60.6	72.3	I	42.6	Y	3.0	18.9	Y	3.0	63.8	Z	6.0	-	-	-	67.9	54.1	58.7	60.6	69.2
	25	70.8	57.1	64.6	60.6	72.2	I	43.6	Y	3.0	19.7	Y	3.0	64.6	Z	6.0	-	-	-	67.8	54.1	58.6	60.6	69.1
	26	70.7	57.0	64.5	60.6	72.1	I	44.6	Y	3.0	20.4	Y	3.0	65.3	Z	6.0	-	-	-	67.7	54.0	58.5	60.6	69.0
	27	70.7	57.0	64.4	60.6	72.1	I	45.6	Z	5.0	21.2	Y	3.0	66.0	Z	6.0	-	-	-	65.7	54.0	58.4	60.6	67.6
	28	70.6	57.0	64.3	60.6	72.0	I	46.5	Z	5.0	21.9	Y	3.0	66.6	Z	6.0	-	-	-	65.6	54.0	58.3	60.6	67.6
	29	70.5	56.9	64.2	60.6	71.9	I	47.5	Z	5.0	22.6	Y	3.0	67.2	Z	6.0	-	-	-	65.5	53.9	58.2	60.6	67.5
	30	70.4	56.9	64.1	60.6	71.8	I	48.3	Z	5.0	23.3	Y	3.0	67.8	Z	6.0	-	-	-	65.4	53.9	58.1	60.6	67.4
	31	70.3	56.9	64.0	60.6	71.7	I	49.2	Z	5.0	24.0	Y	3.0	68.3	Z	6.0	-	-	-	65.3	53.9	58.0	60.6	67.3
	32	70.3	56.8	63.9	60.6	71.7	I	50.0	Z	5.0	24.7	Y	3.0	68.9	Z	6.0	-	-	-	65.3	53.8	57.9	60.6	67.3
	33	70.2	56.8	63.8	60.6	71.6	I	50.8	Z	5.0	25.4	Y	3.0	69.4	Z	6.0	-	-	-	65.2	53.8	57.8	60.6	67.2
	34	70.1	56.8	63.7	60.6	71.5	I	51.6	Z	5.0	26.1	Y	3.0	69.8	Z	6.0	-	-	-	65.1	53.8	57.7	60.6	67.2
	35	70.0	56.7	63.6	60.6	71.5	I	52.3	Z	5.0	26.8	Y	3.0	70.3	Z	6.0	-	-	-	65.0	53.7	57.6	60.6	67.1
	36	69.9	56.7	63.5	60.6	71.4	I	53.0	Z	5.0	27.4	Y	3.0	70.7	Z	6.0	-	-	-	64.9	53.7	57.5	60.6	67.0
	37	69.8	56.7	63.4	60.6	71.3	I	53.7	Z	5.0	28.1	Y	3.0	71.1	Z	6.0	-	-	-	64.8	53.7	57.4	60.6	66.9
	38	69.8	56.6	63.3	60.6	71.2	I	54.4	Z	5.0	28.7	Y	3.0	71.5	Z	6.0	-	-	-	64.8	53.6	57.3	60.6	66.9
	39	69.7	56.6	63.2	60.6	71.2	I	55.1	Z	5.0	29.4	Y	3.0	71.9	Z	6.0	-	-	-	64.7	53.6	57.2	60.6	66.9
	40	69.6	56.6	63.1	60.6	71.1	I	55.7	Z	5.0	30.0	Y	3.0	72.3	Z	6.0	-	-	-	64.6	53.6	57.1	60.6	66.8
	41	69.5	56.5	63.0	60.6	71.0	I	56.3	Z	5.0	30.6	Y	3.0	72.7	Z	6.0	-	-	-	64.5	53.5	57.0	60.6	66.7
	42	69.5	56.5	62.9	60.7	71.0	I	56.9	Z	5.0	31.2	Y	3.0	73.0	Z	6.0	-	-	-	64.5	53.5	56.9	60.7	66.7
	43	69.4	56.4	62.9	60.7	70.9	I	57.5	Z	5.0	31.8	Y	3.0	73.3	Z	6.0	-	-	-	64.4	53.4	56.9	60.7	66.7
	44	69.4	56.4	62.8	60.7	70.8	I	58.0	Z	5.0	32.4	Y	3.0	73.6	Z	6.0	-	-	-	64.4	53.4	56.8	60.7	66.7
	45	69.3	56.4	62.7	60.7	70.8	I	58.6	Z	5.0	33.0	Y	3.0	74.0	Z	6.0	-	-	-	64.3	53.4	56.7	60.7	66.6

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R113b	4	70.8	58.3	57.9	59.4	71.6	II	12.9	X	2.5	2.4	X	2.5	32.4	Y	6.0	-	-	-	68.3	55.8	51.9	59.4	69.1
	5	71.9	58.5	60.8	59.8	72.6	II	14.8	X	2.5	3.3	X	2.5	35.2	Y	6.0	-	-	-	69.4	56.0	54.8	59.8	70.2
	6	72.5	58.6	62.0	60.0	73.2	II	16.8	Y	5.0	4.1	X	2.5	37.8	Y	6.0	-	-	-	67.5	56.1	56.0	60.0	68.7
	7	72.7	58.7	62.9	60.1	73.5	II	18.7	Y	5.0	5.0	X	2.5	40.2	Y	6.0	-	-	-	67.7	56.2	56.9	60.1	68.9
	8	72.7	58.8	64.0	60.2	73.6	II	20.5	Y	5.0	5.8	X	2.5	42.5	Y	6.0	-	-	-	67.7	56.3	58.0	60.2	69.0
	9	72.6	58.9	64.9	60.3	73.7	II	22.3	Y	5.0	6.7	X	2.5	44.6	Y	6.0	-	-	-	67.6	56.4	58.9	60.3	69.1
	10	72.5	59.0	65.7	60.3	73.7	II	24.1	Y	5.0	7.5	X	2.5	46.6	Z	7.5	-	-	-	67.5	56.5	58.2	60.3	68.9
	11	72.5	59.0	66.1	60.4	73.7	II	25.8	Y	5.0	8.4	X	2.5	48.4	Z	7.5	-	-	-	67.5	56.5	58.6	60.4	69.0
	12	72.4	59.0	66.2	60.4	73.7	II	27.5	Y	5.0	9.2	X	2.5	50.1	Z	7.5	-	-	-	67.4	56.5	58.7	60.4	68.9
	13	72.3	59.1	66.1	60.4	73.6	II	29.1	Y	5.0	10.0	X	2.5	51.7	Z	7.5	-	-	-	67.3	56.6	58.6	60.4	68.8
	14	72.2	59.0	66.1	60.5	73.5	II	30.7	Y	5.0	10.9	X	2.5	53.2	Z	7.5	-	-	-	67.2	56.5	58.6	60.5	68.8
	15	72.1	59.1	65.9	60.5	73.5	II	32.2	Y	5.0	11.7	X	2.5	54.6	Z	7.5	-	-	-	67.1	56.6	58.4	60.5	68.7
	16	72.1	59.0	65.9	60.5	73.4	I	33.7	Y	3.0	12.5	X	1.0	55.9	Z	6.0	-	-	-	69.1	58.0	59.9	60.5	70.4
	17	72.0	59.0	65.8	60.6	73.3	I	35.1	Y	3.0	13.3	X	1.0	57.2	Z	6.0	-	-	-	69.0	58.0	59.8	60.6	70.3
	18	71.9	59.0	65.6	60.6	73.2	I	36.5	Y	3.0	14.1	X	1.0	58.3	Z	6.0	-	-	-	68.9	58.0	59.6	60.6	70.2
	19	71.8	59.0	65.5	60.6	73.1	I	37.8	Y	3.0	14.9	X	1.0	59.4	Z	6.0	-	-	-	68.8	58.0	59.5	60.6	70.1
	20	71.7	58.9	65.3	60.6	73.0	I	39.1	Y	3.0	15.7	Y	3.0	60.4	Z	6.0	-	-	-	68.7	55.9	59.3	60.6	69.9
	21	71.6	58.9	65.2	60.6	72.9	I	40.3	Y	3.0	16.5	Y	3.0	61.4	Z	6.0	-	-	-	68.6	55.9	59.2	60.6	69.8
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	71.4	57.7	64.9	60.6	72.7	I	43.4	Y	3.0	18.6	Y	3.0	63.6	Z	6.0	-	-	-	68.4	54.7	58.9	60.6	69.6
	24	71.3	57.7	64.8	60.6	72.6	I	44.4	Y	3.0	19.3	Y	3.0	64.4	Z	6.0	-	-	-	68.3	54.7	58.8	60.6	69.5
	25	71.2	57.7	64.6	60.6	72.5	I	45.5	Z	5.0	20.1	Y	3.0	65.1	Z	6.0	-	-	-	66.2	54.7	58.6	60.6	68.0
	26	71.1	57.6	64.5	60.6	72.4	I	46.5	Z	5.0	20.8	Y	3.0	65.8	Z	6.0	-	-	-	66.1	54.6	58.5	60.6	67.9
	27	71.0	57.6	64.4	60.6	72.4	I	47.5	Z	5.0	21.6	Y	3.0	66.5	Z	6.0	-	-	-	66.0	54.6	58.4	60.6	67.9
	28	70.9	57.6	64.3	60.6	72.3	I	48.4	Z	5.0	22.3	Y	3.0	67.1	Z	6.0	-	-	-	65.9	54.6	58.3	60.6	67.8
	29	70.8	57.5	64.2	60.6	72.2	I	49.3	Z	5.0	23.1	Y	3.0	67.7	Z	6.0	-	-	-	65.8	54.5	58.2	60.6	67.7
	30	70.8	57.5	64.1	60.6	72.1	I	50.2	Z	5.0	23.8	Y	3.0	68.3	Z	6.0	-	-	-	65.8	54.5	58.1	60.6	67.7
	31	70.7	57.5	64.0	60.6	72.0	I	51.0	Z	5.0	24.5	Y	3.0	68.8	Z	6.0	-	-	-	65.7	54.5	58.0	60.6	67.6
	32	70.6	57.4	63.9	60.6	72.0	I	51.8	Z	5.0	25.2	Y	3.0	69.3	Z	6.0	-	-	-	65.6	54.4	57.9	60.6	67.5
	33	70.5	57.4	63.8	60.6	71.9	I	52.6	Z	5.0	25.9	Y	3.0	69.8	Z	6.0	-	-	-	65.5	54.4	57.8	60.6	67.5
	34	70.4	57.4	63.7	60.6	71.8	I	53.4	Z	5.0	26.6	Y	3.0	70.3	Z	6.0	-	-	-	65.4	54.4	57.7	60.6	67.4
	35	70.4	57.3	63.6	60.6	71.7	I	54.1	Z	5.0	27.3	Y	3.0	70.7	Z	6.0	-	-	-	65.4	54.3	57.6	60.6	67.4
	36	70.3	57.3	63.5	60.6	71.6	I	54.8	Z	5.0	27.9	Y	3.0	71.2	Z	6.0	-	-	-	65.3	54.3	57.5	60.6	67.3
	37	70.2	57.2	63.4	60.6	71.6	I	55.5	Z	5.0	28.6	Y	3.0	71.6	Z	6.0	-	-	-	65.2	54.2	57.4	60.6	67.2
	38	70.1	57.2	63.3	60.6	71.5	I	56.2	Z	5.0	29.3	Y	3.0	72.0	Z	6.0	-	-	-	65.1	54.2	57.3	60.6	67.1
	39	70.1	57.2	63.2	60.6	71.4	I	56.8	Z	5.0	29.9	Y	3.0	72.3	Z	6.0	-	-	-	65.1	54.2	57.2	60.6	67.1
	40	70.0	57.1	63.1	60.6	71.4	I	57.4	Z	5.0	30.5	Y	3.0	72.7	Z	6.0	-	-	-	65.0	54.1	57.1	60.6	67.1
	41	69.9	57.1	63.0	60.6	71.3	I	58.0	Z	5.0	31.2	Y	3.0	73.0	Z	6.0	-	-	-	64.9	54.1	57.0	60.6	67.0
	42	69.8	57.0	62.9	60.6	71.2	I	58.6	Z	5.0	31.8	Y	3.0	73.4	Z	6.0	-	-	-	64.8	54.0	56.9	60.6	66.9
	43	69.7	57.0	62.9	60.6	71.1	I	59.1	Z	5.0	32.4	Y	3.0	73.7	Z	6.0	-	-	-	64.7	54.0	56.9	60.6	66.8
	44	69.7	57.0	62.8	60.6	71.1	I	59.7	Z	5.0	33.0	Y	3.0	74.0	Z	6.0	-	-	-	64.7	54.0	56.8	60.6	66.8
	45	69.6	56.9	62.7	60.7	71.0	I	60.2	Z	5.0	33.6	Y	3.0	74.3	Z	6.0	-	-	-	64.6	53.9	56.7	60.7	66.8

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R113c	4	71.1	58.7	58.6	59.3	71.8	II	13.3	X	2.5	2.5	X	2.5	32.7	Y	6.0	-	-	-	68.6	56.2	52.6	59.3	69.4
	5	72.3	58.8	61.3	59.6	73.0	II	15.3	Y	5.0	3.3	X	2.5	35.4	Y	6.0	-	-	-	67.3	56.3	55.3	59.6	68.5
	6	72.8	58.9	62.3	59.9	73.5	II	17.3	Y	5.0	4.2	X	2.5	38.1	Y	6.0	-	-	-	67.8	56.4	56.3	59.9	69.0
	7	72.9	59.0	63.2	60.0	73.7	II	19.2	Y	5.0	5.0	X	2.5	40.5	Y	6.0	-	-	-	67.9	56.5	57.2	60.0	69.1
	8	73.0	59.1	64.3	60.1	73.9	II	21.1	Y	5.0	5.9	X	2.5	42.8	Y	6.0	-	-	-	68.0	56.6	58.3	60.1	69.3
	9	72.9	59.1	65.1	60.2	73.9	II	23.0	Y	5.0	6.8	X	2.5	44.9	Y	6.0	-	-	-	67.9	56.6	59.1	60.2	69.3
	10	72.8	59.2	65.8	60.2	73.9	II	24.8	Y	5.0	7.6	X	2.5	46.8	Z	7.5	-	-	-	67.8	56.7	58.3	60.2	69.1
	11	72.7	59.3	66.1	60.3	73.9	II	26.5	Y	5.0	8.5	X	2.5	48.7	Z	7.5	-	-	-	67.7	56.8	58.6	60.3	69.1
	12	72.6	59.3	66.2	60.3	73.9	II	28.2	Y	5.0	9.3	X	2.5	50.4	Z	7.5	-	-	-	67.6	56.8	58.7	60.3	69.1
	13	72.5	59.3	66.3	60.3	73.8	II	29.9	Y	5.0	10.1	X	2.5	52.0	Z	7.5	-	-	-	67.5	56.8	58.8	60.3	69.0
	14	72.4	59.3	66.1	60.4	73.7	II	31.5	Y	5.0	11.0	X	2.5	53.5	Z	7.5	-	-	-	67.4	56.8	58.6	60.4	68.9
	15	72.3	59.3	66.0	60.4	73.6	II	33.0	Y	5.0	11.8	X	2.5	54.9	Z	7.5	-	-	-	67.3	56.8	58.5	60.4	68.8
	16	72.2	59.3	65.9	60.4	73.5	I	34.5	Y	3.0	12.6	X	1.0	56.2	Z	6.0	-	-	-	69.2	58.3	59.9	60.4	70.4
	17	72.2	59.2	65.8	60.5	73.5	I	35.9	Y	3.0	13.5	X	1.0	57.4	Z	6.0	-	-	-	69.2	58.2	59.8	60.5	70.4
	18	72.1	59.2	65.6	60.5	73.3	I	37.3	Y	3.0	14.3	X	1.0	58.5	Z	6.0	-	-	-	69.1	58.2	59.6	60.5	70.3
	19	72.0	59.1	65.5	60.5	73.3	I	38.7	Y	3.0	15.1	Y	3.0	59.6	Z	6.0	-	-	-	69.0	56.1	59.5	60.5	70.2
	20	71.9	59.1	65.4	60.5	73.2	I	40.0	Y	3.0	15.9	Y	3.0	60.6	Z	6.0	-	-	-	68.9	56.1	59.4	60.5	70.1
	21	71.8	59.1	65.2	60.5	73.1	I	41.2	Y	3.0	16.7	Y	3.0	61.6	Z	6.0	-	-	-	68.8	56.1	59.2	60.5	70.0
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	71.6	58.0	64.9	60.5	72.8	I	44.3	Y	3.0	18.7	Y	3.0	63.8	Z	6.0	-	-	-	68.6	55.0	58.9	60.5	69.8
	24	71.5	58.0	64.8	60.5	72.7	I	45.3	Z	5.0	19.5	Y	3.0	64.6	Z	6.0	-	-	-	66.5	55.0	58.8	60.5	68.2
	25	71.4	57.9	64.6	60.5	72.6	I	46.4	Z	5.0	20.3	Y	3.0	65.3	Z	6.0	-	-	-	66.4	54.9	58.6	60.5	68.1
	26	71.3	57.9	64.5	60.5	72.5	I	47.4	Z	5.0	21.0	Y	3.0	66.0	Z	6.0	-	-	-	66.3	54.9	58.5	60.5	68.1
	27	71.2	57.8	64.4	60.5	72.5	I	48.4	Z	5.0	21.8	Y	3.0	66.7	Z	6.0	-	-	-	66.2	54.8	58.4	60.5	68.0
	28	71.1	57.8	64.3	60.5	72.4	I	49.3	Z	5.0	22.5	Y	3.0	67.3	Z	6.0	-	-	-	66.1	54.8	58.3	60.5	67.9
	29	71.0	57.8	64.2	60.5	72.3	I	50.2	Z	5.0	23.3	Y	3.0	67.9	Z	6.0	-	-	-	66.0	54.8	58.2	60.5	67.8
	30	70.9	57.7	64.1	60.5	72.2	I	51.1	Z	5.0	24.0	Y	3.0	68.4	Z	6.0	-	-	-	65.9	54.7	58.1	60.5	67.7
	31	70.8	57.7	64.0	60.5	72.1	I	51.9	Z	5.0	24.7	Y	3.0	69.0	Z	6.0	-	-	-	65.8	54.7	58.0	60.5	67.7
	32	70.7	57.7	63.9	60.5	72.0	I	52.7	Z	5.0	25.4	Y	3.0	69.5	Z	6.0	-	-	-	65.7	54.7	57.9	60.5	67.6
	33	70.7	57.6	63.8	60.5	72.0	I	53.5	Z	5.0	26.1	Y	3.0	70.0	Z	6.0	-	-	-	65.7	54.6	57.8	60.5	67.6
	34	70.6	57.6	63.7	60.4	71.9	I	54.2	Z	5.0	26.8	Y	3.0	70.4	Z	6.0	-	-	-	65.6	54.6	57.7	60.4	67.5
	35	70.5	57.6	63.6	60.5	71.8	I	55.0	Z	5.0	27.5	Y	3.0	70.9	Z	6.0	-	-	-	65.5	54.6	57.6	60.5	67.4
	36	70.4	57.5	63.5	60.4	71.7	I	55.7	Z	5.0	28.2	Y	3.0	71.3	Z	6.0	-	-	-	65.4	54.5	57.5	60.4	67.3
	37	70.3	57.5	63.4	60.4	71.7	I	56.3	Z	5.0	28.8	Y	3.0	71.7	Z	6.0	-	-	-	65.3	54.5	57.4	60.4	67.3
	38	70.3	57.5	63.3	60.4	71.6	I	57.0	Z	5.0	29.5	Y	3.0	72.1	Z	6.0	-	-	-	65.3	54.5	57.3	60.4	67.2
	39	70.2	57.4	63.2	60.4	71.5	I	57.6	Z	5.0	30.1	Y	3.0	72.5	Z	6.0	-	-	-	65.2	54.4	57.2	60.4	67.2
	40	70.1	57.4	63.1	60.4	71.4	I	58.2	Z	5.0	30.8	Y	3.0	72.8	Z	6.0	-	-	-	65.1	54.4	57.1	60.4	67.1
	41	70.0	57.4	63.0	60.5	71.4	I	58.8	Z	5.0	31.4	Y	3.0	73.2	Z	6.0	-	-	-	65.0	54.4	57.0	60.5	67.0
	42	70.0	57.3	62.9	60.5	71.3	I	59.4	Z	5.0	32.0	Y	3.0	73.5	Z	6.0	-	-	-	65.0	54.3	56.9	60.5	67.0
	43	69.9	57.3	62.9	60.5	71.3	I	59.9	Z	5.0	32.7	Y	3.0	73.8	Z	6.0	-	-	-	64.9	54.3	56.9	60.5	67.0
	44	69.8	57.2	62.8	60.5	71.2	I	60.5	Z	5.0	33.3	Y	3.0	74.2	Z	6.0	-	-	-	64.8	54.2	56.8	60.5	66.9
	45	69.7	57.2	62.7	60.5	71.1	I	61.0	Z	5.0	33.9	Y	3.0	74.4	Z	6.0	-	-	-	64.7	54.2	56.7	60.5	66.8

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R114a	4	71.4	59.0	59.3	59.4	72.1	II	13.8	X	2.5	2.5	X	2.5	33.0	Y	6.0	-	-	-	68.9	56.5	53.3	59.4	69.7
	5	72.8	59.0	62.0	59.7	73.5	II	15.9	Y	5.0	3.4	X	2.5	35.8	Y	6.0	-	-	-	67.8	56.5	56.0	59.7	68.9
	6	73.3	59.1	62.7	59.9	74.0	II	17.9	Y	5.0	4.2	X	2.5	38.4	Y	6.0	-	-	-	68.3	56.6	56.7	59.9	69.4
	7	73.3	59.2	63.6	60.1	74.1	II	19.9	Y	5.0	5.1	X	2.5	40.9	Y	6.0	-	-	-	68.3	56.7	57.6	60.1	69.5
	8	73.2	59.2	64.4	60.2	74.1	II	21.9	Y	5.0	6.0	X	2.5	43.2	Y	6.0	-	-	-	68.2	56.7	58.4	60.2	69.5
	9	73.2	59.3	65.4	60.2	74.2	II	23.8	Y	5.0	6.8	X	2.5	45.3	Z	7.5	-	-	-	68.2	56.8	57.9	60.2	69.4
	10	73.1	59.4	66.0	60.3	74.2	II	25.6	Y	5.0	7.7	X	2.5	47.2	Z	7.5	-	-	-	68.1	56.9	58.5	60.3	69.4
	11	73.0	59.4	66.2	60.3	74.2	II	27.4	Y	5.0	8.6	X	2.5	49.1	Z	7.5	-	-	-	68.0	56.9	58.7	60.3	69.4
	12	72.9	59.4	66.2	60.4	74.1	II	29.2	Y	5.0	9.4	X	2.5	50.8	Z	7.5	-	-	-	67.9	56.9	58.7	60.4	69.3
	13	72.8	59.4	66.2	60.4	74.0	II	30.9	Y	5.0	10.3	X	2.5	52.4	Z	7.5	-	-	-	67.8	56.9	58.7	60.4	69.2
	14	72.7	59.4	66.1	60.4	74.0	II	32.5	Y	5.0	11.1	X	2.5	53.9	Z	7.5	-	-	-	67.7	56.9	58.6	60.4	69.1
	15	72.6	59.4	66.0	60.5	73.9	II	34.1	Y	5.0	11.9	X	2.5	55.2	Z	7.5	-	-	-	67.6	56.9	58.5	60.5	69.1
	16	72.5	59.4	65.9	60.5	73.8	II	35.6	Y	5.0	12.8	X	2.5	56.5	Z	7.5	-	-	-	67.5	56.9	58.4	60.5	69.0
	17	72.4	59.3	65.8	60.5	73.7	II	37.0	Y	5.0	13.6	X	2.5	57.7	Z	7.5	-	-	-	67.4	56.8	58.3	60.5	68.9
	18	72.3	59.3	65.6	60.5	73.6	II	38.4	Y	5.0	14.4	X	2.5	58.9	Z	7.5	-	-	-	67.3	56.8	58.1	60.5	68.8
	19	72.2	59.3	65.5	60.5	73.5	II	39.8	Y	5.0	15.3	Y	5.0	60.0	Z	7.5	-	-	-	67.2	54.3	58.0	60.5	68.6
	20	72.1	59.2	65.4	60.5	73.4	I	41.1	Y	3.0	16.1	Y	3.0	61.0	Z	6.0	-	-	-	69.1	56.2	59.4	60.5	70.2
	21	72.0	59.2	65.2	60.5	73.3	I	42.3	Y	3.0	16.9	Y	3.0	61.9	Z	6.0	-	-	-	69.0	56.2	59.2	60.5	70.1
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	71.8	58.1	64.9	60.5	73.0	I	45.4	Z	5.0	19.0	Y	3.0	64.1	Z	6.0	-	-	-	66.8	55.1	58.9	60.5	68.5
	24	71.7	58.0	64.8	60.5	72.9	I	46.5	Z	5.0	19.7	Y	3.0	64.9	Z	6.0	-	-	-	66.7	55.0	58.8	60.5	68.4
	25	71.6	58.0	64.7	60.5	72.8	I	47.5	Z	5.0	20.5	Y	3.0	65.6	Z	6.0	-	-	-	66.6	55.0	58.7	60.5	68.3
	26	71.5	58.0	64.5	60.5	72.7	I	48.5	Z	5.0	21.3	Y	3.0	66.3	Z	6.0	-	-	-	66.5	55.0	58.5	60.5	68.2
	27	71.4	57.9	64.4	60.5	72.6	I	49.5	Z	5.0	22.0	Y	3.0	66.9	Z	6.0	-	-	-	66.4	54.9	58.4	60.5	68.1
	28	71.3	57.9	64.3	60.5	72.6	I	50.4	Z	5.0	22.8	Y	3.0	67.6	Z	6.0	-	-	-	66.3	54.9	58.3	60.5	68.0
	29	71.3	57.9	64.2	60.5	72.5	I	51.3	Z	5.0	23.5	Y	3.0	68.1	Z	6.0	-	-	-	66.3	54.9	58.2	60.5	68.0
	30	71.2	57.9	64.1	60.4	72.4	I	52.2	Z	5.0	24.2	Y	3.0	68.7	Z	6.0	-	-	-	66.2	54.9	58.1	60.4	67.9
	31	71.1	57.8	64.0	60.4	72.3	I	53.0	Z	5.0	25.0	Y	3.0	69.2	Z	6.0	-	-	-	66.1	54.8	58.0	60.4	67.9
	32	71.0	57.8	63.9	60.4	72.2	I	53.8	Z	5.0	25.7	Y	3.0	69.7	Z	6.0	-	-	-	66.0	54.8	57.9	60.4	67.8
	33	70.9	57.7	63.8	60.4	72.2	I	54.6	Z	5.0	26.4	Y	3.0	70.2	Z	6.0	-	-	-	65.9	54.7	57.8	60.4	67.7
	34	70.8	57.7	63.7	60.4	72.1	I	55.3	Z	5.0	27.1	Y	3.0	70.7	Z	6.0	-	-	-	65.8	54.7	57.7	60.4	67.6
	35	70.7	57.6	63.6	60.4	72.0	I	56.0	Z	5.0	27.8	Y	3.0	71.1	Z	6.0	-	-	-	65.7	54.6	57.6	60.4	67.5
	36	70.6	57.6	63.5	60.4	71.9	I	56.7	Z	5.0	28.5	Y	3.0	71.5	Z	6.0	-	-	-	65.6	54.6	57.5	60.4	67.5
	37	70.5	57.6	63.4	60.4	71.8	I	57.4	Z	5.0	29.1	Y	3.0	72.0	Z	6.0	-	-	-	65.5	54.6	57.4	60.4	67.4
	38	70.4	57.5	63.3	60.4	71.7	I	58.0	Z	5.0	29.8	Y	3.0	72.3	Z	6.0	-	-	-	65.4	54.5	57.3	60.4	67.3
	39	70.4	57.5	63.2	60.4	71.6	I	58.6	Z	5.0	30.5	Y	3.0	72.7	Z	6.0	-	-	-	65.4	54.5	57.2	60.4	67.3
	40	70.3	57.4	63.1	60.4	71.6	I	59.2	Z	5.0	31.1	Y	3.0	73.1	Z	6.0	-	-	-	65.3	54.4	57.1	60.4	67.2
	41	70.2	57.4	63.0	60.4	71.5	I	59.8	Z	5.0	31.7	Y	3.0	73.4	Z	6.0	-	-	-	65.2	54.4	57.0	60.4	67.1
	42	70.2	57.4	62.9	60.4	71.5	I	60.4	Z	5.0	32.4	Y	3.0	73.7	Z	6.0	-	-	-	65.2	54.4	56.9	60.4	67.1
	43	70.1	57.3	62.9	60.4	71.4	I	60.9	Z	5.0	33.0	Y	3.0	74.1	Z	6.0	-	-	-	65.1	54.3	56.9	60.4	67.1
	44	70.0	57.3	62.8	60.5	71.3	I	61.4	Z	5.0	33.6	Y	3.0	74.4	Z	6.0	-	-	-	65.0	54.3	56.8	60.5	67.0
	45	69.9	57.3	62.7	60.5	71.3	I	61.9	Z	5.0	34.2	Y	3.0	74.7	Z	6.0	-	-	-	64.9	54.3	56.7	60.5	66.9

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R114b	4	71.8	59.1	59.9	59.5	72.5	II	14.2	X	2.5	2.5	X	2.5	33.3	Y	6.0	-	-	-	69.3	56.6	53.9	59.5	70.0
	5	73.3	59.2	62.5	59.8	74.0	II	16.4	Y	5.0	3.4	X	2.5	36.1	Y	6.0	-	-	-	68.3	56.7	56.5	59.8	69.4
	6	73.7	59.3	63.1	60.0	74.3	II	18.5	Y	5.0	4.3	X	2.5	38.7	Y	6.0	-	-	-	68.7	56.8	57.1	60.0	69.7
	7	73.6	59.3	63.9	60.1	74.4	II	20.5	Y	5.0	5.2	X	2.5	41.2	Y	6.0	-	-	-	68.6	56.8	57.9	60.1	69.7
	8	73.6	59.4	64.7	60.2	74.4	II	22.5	Y	5.0	6.0	X	2.5	43.5	Y	6.0	-	-	-	68.6	56.9	58.7	60.2	69.8
	9	73.5	59.4	65.6	60.3	74.5	II	24.5	Y	5.0	6.9	X	2.5	45.6	Z	7.5	-	-	-	68.5	56.9	58.1	60.3	69.7
	10	73.4	59.5	66.1	60.4	74.5	II	26.4	Y	5.0	7.8	X	2.5	47.6	Z	7.5	-	-	-	68.4	57.0	58.6	60.4	69.7
	11	73.3	59.5	66.2	60.4	74.4	II	28.2	Y	5.0	8.6	X	2.5	49.4	Z	7.5	-	-	-	68.3	57.0	58.7	60.4	69.6
	12	73.2	59.5	66.4	60.4	74.3	II	30.0	Y	5.0	9.5	X	2.5	51.1	Z	7.5	-	-	-	68.2	57.0	58.9	60.4	69.5
	13	73.1	59.5	66.2	60.4	74.2	II	31.7	Y	5.0	10.4	X	2.5	52.7	Z	7.5	-	-	-	68.1	57.0	58.7	60.4	69.4
	14	73.0	59.5	66.1	60.4	74.1	II	33.3	Y	5.0	11.2	X	2.5	54.2	Z	7.5	-	-	-	68.0	57.0	58.6	60.4	69.4
	15	72.9	59.5	66.0	60.5	74.1	II	34.9	Y	5.0	12.1	X	2.5	55.5	Z	7.5	-	-	-	67.9	57.0	58.5	60.5	69.3
	16	72.8	59.4	65.9	60.5	73.9	II	36.5	Y	5.0	12.9	X	2.5	56.8	Z	7.5	-	-	-	67.8	56.9	58.4	60.5	69.2
	17	72.6	59.4	65.7	60.5	73.8	II	37.9	Y	5.0	13.7	X	2.5	58.0	Z	7.5	-	-	-	67.6	56.9	58.2	60.5	69.0
	18	72.5	59.4	65.7	60.5	73.7	II	39.3	Y	5.0	14.6	X	2.5	59.2	Z	7.5	-	-	-	67.5	56.9	58.2	60.5	69.0
	19	72.4	59.3	65.5	60.5	73.6	II	40.7	Y	5.0	15.4	Y	5.0	60.2	Z	7.5	-	-	-	67.4	54.3	58.0	60.5	68.8
	20	72.3	59.3	65.4	60.5	73.5	I	42.0	Y	3.0	16.2	Y	3.0	61.2	Z	6.0	-	-	-	69.3	56.3	59.4	60.5	70.4
	21	72.2	59.3	65.2	60.5	73.4	I	43.3	Y	3.0	17.0	Y	3.0	62.2	Z	6.0	-	-	-	69.2	56.3	59.2	60.5	70.3
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	72.0	58.2	64.9	60.5	73.2	I	46.3	Z	5.0	19.1	Y	3.0	64.4	Z	6.0	-	-	-	67.0	55.2	58.9	60.5	68.6
	24	71.9	58.2	64.8	60.5	73.1	I	47.4	Z	5.0	19.9	Y	3.0	65.1	Z	6.0	-	-	-	66.9	55.2	58.8	60.5	68.5
	25	71.8	58.1	64.7	60.5	73.0	I	48.5	Z	5.0	20.7	Y	3.0	65.8	Z	6.0	-	-	-	66.8	55.1	58.7	60.5	68.4
	26	71.7	58.1	64.5	60.5	72.9	I	49.5	Z	5.0	21.5	Y	3.0	66.5	Z	6.0	-	-	-	66.7	55.1	58.5	60.5	68.3
	27	71.6	58.0	64.4	60.5	72.8	I	50.4	Z	5.0	22.2	Y	3.0	67.2	Z	6.0	-	-	-	66.6	55.0	58.4	60.5	68.3
	28	71.5	58.0	64.3	60.5	72.7	I	51.3	Z	5.0	23.0	Y	3.0	67.8	Z	6.0	-	-	-	66.5	55.0	58.3	60.5	68.2
	29	71.4	58.0	64.2	60.5	72.6	I	52.2	Z	5.0	23.7	Y	3.0	68.4	Z	6.0	-	-	-	66.4	55.0	58.2	60.5	68.1
	30	71.3	57.9	64.1	60.5	72.5	I	53.1	Z	5.0	24.5	Y	3.0	68.9	Z	6.0	-	-	-	66.3	54.9	58.1	60.5	68.0
	31	71.2	57.9	64.0	60.4	72.4	I	53.9	Z	5.0	25.2	Y	3.0	69.4	Z	6.0	-	-	-	66.2	54.9	58.0	60.4	67.9
	32	71.1	57.9	63.9	60.4	72.4	I	54.7	Z	5.0	25.9	Y	3.0	69.9	Z	6.0	-	-	-	66.1	54.9	57.9	60.4	67.9
	33	71.1	57.8	63.8	60.4	72.3	I	55.4	Z	5.0	26.6	Y	3.0	70.4	Z	6.0	-	-	-	66.1	54.8	57.8	60.4	67.8
	34	71.0	57.8	63.7	60.4	72.2	I	56.2	Z	5.0	27.3	Y	3.0	70.9	Z	6.0	-	-	-	66.0	54.8	57.7	60.4	67.8
	35	70.9	57.7	63.6	60.4	72.1	I	56.9	Z	5.0	28.0	Y	3.0	71.3	Z	6.0	-	-	-	65.9	54.7	57.6	60.4	67.7
	36	70.8	57.7	63.5	60.4	72.0	I	57.6	Z	5.0	28.7	Y	3.0	71.7	Z	6.0	-	-	-	65.8	54.7	57.5	60.4	67.6
	37	70.7	57.7	63.4	60.4	71.9	I	58.2	Z	5.0	29.4	Y	3.0	72.1	Z	6.0	-	-	-	65.7	54.7	57.4	60.4	67.5
	38	70.6	57.6	63.3	60.4	71.9	I	58.8	Z	5.0	30.0	Y	3.0	72.5	Z	6.0	-	-	-	65.6	54.6	57.3	60.4	67.4
	39	70.6	57.6	63.2	60.4	71.8	I	59.5	Z	5.0	30.7	Y	3.0	72.9	Z	6.0	-	-	-	65.6	54.6	57.2	60.4	67.4
	40	70.5	57.5	63.1	60.4	71.7	I	60.0	Z	5.0	31.4	Y	3.0	73.2	Z	6.0	-	-	-	65.5	54.5	57.1	60.4	67.4
	41	70.4	57.5	63.0	60.4	71.6	I	60.6	Z	5.0	32.0	Y	3.0	73.6	Z	6.0	-	-	-	65.4	54.5	57.0	60.4	67.3
	42	70.3	57.5	62.9	60.4	71.6	I	61.2	Z	5.0	32.6	Y	3.0	73.9	Z	6.0	-	-	-	65.3	54.5	56.9	60.4	67.2
	43	70.2	57.4	62.9	60.4	71.5	I	61.7	Z	5.0	33.2	Y	3.0	74.2	Z	6.0	-	-	-	65.2	54.4	56.9	60.4	67.1
	44	70.2	57.4	62.8	60.4	71.4	I	62.2	Z	5.0	33.9	Y	3.0	74.5	Z	6.0	-	-	-	65.2	54.4	56.8	60.4	67.1
	45	70.1	57.3	62.7	60.5	71.4	I	62.7	Z	5.0	34.5	Y	3.0	74.8	Z	6.0	-	-	-	65.1	54.3	56.7	60.5	67.1

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R115b	4	73.5	59.5	62.0	59.6	74.1	IV	15.3	Y	8.0	2.6	X	5.5	33.9	Y	9.0	-	-	-	65.5	54.0	53.0	59.6	66.9
	5	74.6	59.6	63.5	59.9	75.2	IV	17.6	Y	8.0	3.5	X	5.5	36.8	Y	9.0	-	-	-	66.6	54.1	54.5	59.9	67.8
	6	74.6	59.6	63.9	60.1	75.2	IV	19.9	Y	8.0	4.4	X	5.5	39.4	Y	9.0	-	-	-	66.6	54.1	54.9	60.1	67.9
	7	74.5	59.6	64.5	60.2	75.2	IV	22.1	Y	8.0	5.3	X	5.5	41.9	Y	9.0	-	-	-	66.5	54.1	55.5	60.2	67.9
	8	74.4	59.7	65.2	60.3	75.2	IV	24.2	Y	8.0	6.2	X	5.5	44.1	Y	9.0	-	-	-	66.4	54.2	56.2	60.3	67.9
	9	74.3	59.7	66.0	60.4	75.2	IV	26.2	Y	8.0	7.1	X	5.5	46.3	Z	10.0	-	-	-	66.3	54.2	56.0	60.4	67.8
	10	74.2	59.8	66.3	60.5	75.2	IV	28.2	Y	8.0	8.0	X	5.5	48.2	Z	10.0	-	-	-	66.2	54.3	56.3	60.5	67.8
	11	74.1	59.8	66.4	60.5	75.1	IV	30.1	Y	8.0	8.8	X	5.5	50.1	Z	10.0	-	-	-	66.1	54.3	56.4	60.5	67.7
	12	74.0	59.8	66.4	60.5	75.0	IV	32.0	Y	8.0	9.7	X	5.5	51.7	Z	10.0	-	-	-	66.0	54.3	56.4	60.5	67.6
	13	73.9	59.9	66.3	60.5	74.9	IV	33.7	Y	8.0	10.6	X	5.5	53.3	Z	10.0	-	-	-	65.9	54.4	56.3	60.5	67.6
	14	73.7	59.9	66.2	60.6	74.7	IV	35.4	Y	8.0	11.5	X	5.5	54.8	Z	10.0	-	-	-	65.7	54.4	56.2	60.6	67.4
	15	73.6	59.9	66.0	60.6	74.6	IV	37.1	Y	8.0	12.3	X	5.5	56.2	Z	10.0	-	-	-	65.6	54.4	56.0	60.6	67.4
	16	73.5	59.8	66.0	60.6	74.6	IV	38.6	Y	8.0	13.2	X	5.5	57.4	Z	10.0	-	-	-	65.5	54.3	56.0	60.6	67.3
	17	73.4	59.8	65.8	60.6	74.4	II	40.1	Y	5.0	14.1	X	2.5	58.6	Z	7.5	-	-	-	68.4	57.3	58.3	60.6	69.7
	18	73.3	59.7	65.7	60.6	74.3	II	41.6	Y	5.0	14.9	X	2.5	59.8	Z	7.5	-	-	-	68.3	57.2	58.2	60.6	69.6
	19	73.2	59.7	65.5	60.6	74.2	II	42.9	Y	5.0	15.7	Y	5.0	60.8	Z	7.5	-	-	-	68.2	54.7	58.0	60.6	69.4
	20	73.0	59.6	65.4	60.6	74.1	II	44.3	Y	5.0	16.6	Y	5.0	61.8	Z	7.5	-	-	-	68.0	54.6	57.9	60.6	69.2
	21	72.9	59.6	65.3	60.6	74.0	I	45.5	Z	5.0	17.4	Y	3.0	62.7	Z	6.0	-	-	-	67.9	56.6	59.3	60.6	69.4
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	72.7	58.6	64.9	60.6	73.7	I	48.6	Z	5.0	19.5	Y	3.0	64.9	Z	6.0	-	-	-	67.7	55.6	58.9	60.6	69.1
	24	72.6	58.6	64.8	60.6	73.6	I	49.7	Z	5.0	20.3	Y	3.0	65.6	Z	6.0	-	-	-	67.6	55.6	58.8	60.6	69.0
	25	72.5	58.5	64.7	60.6	73.5	I	50.7	Z	5.0	21.1	Y	3.0	66.3	Z	6.0	-	-	-	67.5	55.5	58.7	60.6	69.0
	26	72.3	58.5	64.6	60.6	73.4	I	51.7	Z	5.0	21.9	Y	3.0	67.0	Z	6.0	-	-	-	67.3	55.5	58.6	60.6	68.8
	27	72.2	58.4	64.4	60.5	73.3	I	52.6	Z	5.0	22.7	Y	3.0	67.6	Z	6.0	-	-	-	67.2	55.4	58.4	60.5	68.7
	28	72.1	58.4	64.3	60.5	73.2	I	53.5	Z	5.0	23.5	Y	3.0	68.2	Z	6.0	-	-	-	67.1	55.4	58.3	60.5	68.6
	29	72.0	58.4	64.2	60.5	73.1	I	54.4	Z	5.0	24.2	Y	3.0	68.8	Z	6.0	-	-	-	67.0	55.4	58.2	60.5	68.5
	30	71.9	58.3	64.1	60.5	73.0	I	55.2	Z	5.0	25.0	Y	3.0	69.4	Z	6.0	-	-	-	66.9	55.3	58.1	60.5	68.5
	31	71.9	58.3	64.0	60.5	72.9	I	56.0	Z	5.0	25.7	Y	3.0	69.9	Z	6.0	-	-	-	66.9	55.3	58.0	60.5	68.4
	32	71.8	58.2	63.9	60.5	72.9	I	56.8	Z	5.0	26.4	Y	3.0	70.4	Z	6.0	-	-	-	66.8	55.2	57.9	60.5	68.4
	33	71.7	58.2	63.8	60.5	72.8	I	57.5	Z	5.0	27.2	Y	3.0	70.8	Z	6.0	-	-	-	66.7	55.2	57.8	60.5	68.3
	34	71.6	58.1	63.7	60.5	72.7	I	58.2	Z	5.0	27.9	Y	3.0	71.3	Z	6.0	-	-	-	66.6	55.1	57.7	60.5	68.2
	35	71.5	58.1	63.6	60.5	72.6	I	58.9	Z	5.0	28.6	Y	3.0	71.7	Z	6.0	-	-	-	66.5	55.1	57.6	60.5	68.1
	36	71.4	58.0	63.5	60.4	72.5	I	59.6	Z	5.0	29.3	Y	3.0	72.1	Z	6.0	-	-	-	66.4	55.0	57.5	60.4	68.0
	37	71.3	58.0	63.4	60.4	72.4	I	60.2	Z	5.0	29.9	Y	3.0	72.5	Z	6.0	-	-	-	66.3	55.0	57.4	60.4	67.9
	38	71.2	57.9	63.3	60.4	72.3	I	60.8	Z	5.0	30.6	Y	3.0	72.9	Z	6.0	-	-	-	66.2	54.9	57.3	60.4	67.9
	39	71.2	57.9	63.2	60.4	72.3	I	61.4	Z	5.0	31.3	Y	3.0	73.3	Z	6.0	-	-	-	66.2	54.9	57.2	60.4	67.9
	40	71.1	57.9	63.1	60.4	72.2	I	62.0	Z	5.0	31.9	Y	3.0	73.6	Z	6.0	-	-	-	66.1	54.9	57.1	60.4	67.8
	41	71.0	57.8	63.0	60.4	72.1	I	62.5	Z	5.0	32.6	Y	3.0	73.9	Z	6.0	-	-	-	66.0	54.8	57.0	60.4	67.7
	42	70.9	57.8	63.0	60.4	72.1	I	63.0	Z	5.0	33.2	Y	3.0	74.3	Z	6.0	-	-	-	65.9	54.8	57.0	60.4	67.6
	43	70.8	57.7	62.9	60.4	72.0	I	63.5	Z	5.0	33.9	Y	3.0	74.6	Z	6.0	-	-	-	65.8	54.7	56.9	60.4	67.5
	44	70.8	57.7	62.8	60.4	71.9	I	64.0	Z	5.0	34.5	Y	3.0	74.9	Z	6.0	-	-	-	65.8	54.7	56.8	60.4	67.5
	45	70.7	57.6	62.7	60.5	71.9	I	64.5	Z	5.0	35.1	Y	3.0	75.2	Z	6.0	-	-	-	65.7	54.6	56.7	60.5	67.5

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than “Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R115c	4	75.4	59.7	63.0	59.7	75.8	IV	15.9	Y	8.0	2.6	X	5.5	34.2	Y	9.0	-	-	-	67.4	54.2	54.0	59.7	68.4
	5	75.7	59.7	64.0	60.0	76.2	IV	18.2	Y	8.0	3.5	X	5.5	37.1	Y	9.0	-	-	-	67.7	54.2	55.0	60.0	68.7
	6	75.6	59.7	64.3	60.1	76.1	IV	20.6	Y	8.0	4.4	X	5.5	39.7	Y	9.0	-	-	-	67.6	54.2	55.3	60.1	68.7
	7	75.5	59.8	64.9	60.3	76.1	IV	22.8	Y	8.0	5.3	X	5.5	42.2	Y	9.0	-	-	-	67.5	54.3	55.9	60.3	68.7
	8	75.4	59.9	65.6	60.4	76.1	IV	25.0	Y	8.0	6.2	X	5.5	44.5	Y	9.0	-	-	-	67.4	54.4	56.6	60.4	68.6
	9	75.3	59.9	66.2	60.4	76.0	IV	27.1	Y	8.0	7.1	X	5.5	46.6	Z	10.0	-	-	-	67.3	54.4	56.2	60.4	68.5
	10	75.2	60.0	66.4	60.5	76.0	IV	29.1	Y	8.0	8.0	X	5.5	48.5	Z	10.0	-	-	-	67.2	54.5	56.4	60.5	68.5
	11	75.1	60.0	66.5	60.5	75.9	IV	31.1	Y	8.0	8.9	X	5.5	50.4	Z	10.0	-	-	-	67.1	54.5	56.5	60.5	68.4
	12	74.9	60.0	66.4	60.5	75.7	IV	32.9	Y	8.0	9.8	X	5.5	52.1	Z	10.0	-	-	-	66.9	54.5	56.4	60.5	68.3
	13	74.8	60.1	66.4	60.5	75.7	IV	34.7	Y	8.0	10.7	X	5.5	53.6	Z	10.0	-	-	-	66.8	54.6	56.4	60.5	68.2
	14	74.7	60.0	66.2	60.6	75.5	IV	36.4	Y	8.0	11.6	X	5.5	55.1	Z	10.0	-	-	-	66.7	54.5	56.2	60.6	68.1
	15	74.6	60.0	66.1	60.6	75.4	IV	38.1	Y	8.0	12.5	X	5.5	56.5	Z	10.0	-	-	-	66.6	54.5	56.1	60.6	68.1
	16	74.4	60.0	65.9	60.6	75.3	IV	39.7	Y	8.0	13.3	X	5.5	57.7	Z	10.0	-	-	-	66.4	54.5	55.9	60.6	67.9
	17	74.3	59.9	65.8	60.6	75.2	II	41.2	Y	5.0	14.2	X	2.5	58.9	Z	7.5	-	-	-	69.3	57.4	58.3	60.6	70.4
	18	74.2	59.9	65.6	60.6	75.1	II	42.6	Y	5.0	15.0	Y	5.0	60.0	Z	7.5	-	-	-	69.2	54.9	58.1	60.6	70.2
	19	74.1	59.9	65.5	60.6	74.9	II	44.0	Y	5.0	15.9	Y	5.0	61.1	Z	7.5	-	-	-	69.1	54.9	58.0	60.6	70.1
	20	73.9	59.8	65.4	60.6	74.8	II	45.3	Z	6.5	16.7	Y	5.0	62.1	Z	7.5	-	-	-	67.4	54.8	57.9	60.6	68.8
	21	73.9	59.7	65.3	60.6	74.7	I	46.6	Z	5.0	17.6	Y	3.0	63.0	Z	6.0	-	-	-	68.9	56.7	59.3	60.6	70.1
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	73.5	58.7	64.9	60.6	74.4	I	49.6	Z	5.0	19.7	Y	3.0	65.1	Z	6.0	-	-	-	68.5	55.7	58.9	60.6	69.7
	24	73.4	58.7	64.8	60.6	74.3	I	50.7	Z	5.0	20.5	Y	3.0	65.9	Z	6.0	-	-	-	68.4	55.7	58.8	60.6	69.6
	25	73.3	58.7	64.7	60.6	74.2	I	51.7	Z	5.0	21.3	Y	3.0	66.6	Z	6.0	-	-	-	68.3	55.7	58.7	60.6	69.6
	26	73.3	58.6	64.6	60.6	74.1	I	52.7	Z	5.0	22.1	Y	3.0	67.2	Z	6.0	-	-	-	68.3	55.6	58.6	60.6	69.5
	27	73.2	58.6	64.4	60.6	74.0	I	53.6	Z	5.0	22.9	Y	3.0	67.9	Z	6.0	-	-	-	68.2	55.6	58.4	60.6	69.4
	28	73.1	58.6	64.3	60.6	73.9	I	54.5	Z	5.0	23.7	Y	3.0	68.5	Z	6.0	-	-	-	68.1	55.6	58.3	60.6	69.4
	29	72.9	58.5	64.2	60.6	73.8	I	55.4	Z	5.0	24.4	Y	3.0	69.0	Z	6.0	-	-	-	67.9	55.5	58.2	60.6	69.2
	30	72.8	58.4	64.1	60.6	73.7	I	56.2	Z	5.0	25.2	Y	3.0	69.6	Z	6.0	-	-	-	67.8	55.4	58.1	60.6	69.1
	31	72.7	58.4	64.0	60.6	73.6	I	57.0	Z	5.0	25.9	Y	3.0	70.1	Z	6.0	-	-	-	67.7	55.4	58.0	60.6	69.0
	32	72.6	58.4	63.9	60.5	73.5	I	57.7	Z	5.0	26.7	Y	3.0	70.6	Z	6.0	-	-	-	67.6	55.4	57.9	60.5	68.9
	33	72.5	58.3	63.8	60.5	73.5	I	58.5	Z	5.0	27.4	Y	3.0	71.0	Z	6.0	-	-	-	67.5	55.3	57.8	60.5	68.9
	34	72.4	58.2	63.7	60.5	73.4	I	59.2	Z	5.0	28.1	Y	3.0	71.5	Z	6.0	-	-	-	67.4	55.2	57.7	60.5	68.8
	35	72.4	58.2	63.6	60.5	73.3	I	59.8	Z	5.0	28.8	Y	3.0	71.9	Z	6.0	-	-	-	67.4	55.2	57.6	60.5	68.8
	36	72.3	58.2	63.5	60.5	73.2	I	60.5	Z	5.0	29.5	Y	3.0	72.3	Z	6.0	-	-	-	67.3	55.2	57.5	60.5	68.7
	37	72.2	58.1	63.4	60.5	73.1	I	61.1	Z	5.0	30.2	Y	3.0	72.7	Z	6.0	-	-	-	67.2	55.1	57.4	60.5	68.6
	38	72.1	58.1	63.3	60.5	73.1	I	61.7	Z	5.0	30.9	Y	3.0	73.1	Z	6.0	-	-	-	67.1	55.1	57.3	60.5	68.5
	39	72.1	58.0	63.2	60.5	73.0	I	62.3	Z	5.0	31.5	Y	3.0	73.4	Z	6.0	-	-	-	67.1	55.0	57.2	60.5	68.5
	40	72.0	58.0	63.1	60.5	72.9	I	62.8	Z	5.0	32.2	Y	3.0	73.8	Z	6.0	-	-	-	67.0	55.0	57.1	60.5	68.4
	41	71.9	57.9	63.0	60.5	72.9	I	63.4	Z	5.0	32.9	Y	3.0	74.1	Z	6.0	-	-	-	66.9	54.9	57.0	60.5	68.3
	42	71.8	57.9	63.0	60.5	72.8	I	63.9	Z	5.0	33.5	Y	3.0	74.4	Z	6.0	-	-	-	66.8	54.9	57.0	60.5	68.3
	43	71.8	57.9	62.9	60.5	72.7	I	64.4	Z	5.0	34.1	Y	3.0	74.7	Z	6.0	-	-	-	66.8	54.9	56.9	60.5	68.3
	44	71.7	57.8	62.8	60.5	72.7	I	64.8	Z	5.0	34.7	Y	3.0	75.0	Z	6.0	-	-	-	66.7	54.8	56.8	60.5	68.2
	45	71.6	57.8	62.7	60.6	72.6	I	65.3	Z	5.0	35.4	Y	3.0	75.3	Z	6.0	-	-	-	66.6	54.8	56.7	60.6	68.1

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance											Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R217a	4	66.2	50.3	56.1	58.6	67.3	N/A	7.0	X	-	2.0	X	-	31.3	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	66.7	50.6	58.6	59.6	68.1	N/A	8.2	X	-	2.7	X	-	34.1	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	6	67.2	50.6	61.5	60.2	68.9	N/A	9.3	X	-	3.4	X	-	36.6	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	7	67.4	50.6	64.1	60.6	69.7	N/A	10.4	X	-	4.1	X	-	39.1	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	8	67.7	50.7	65.3	60.9	70.3	N/A	11.4	X	-	4.7	X	-	41.3	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	9	68.0	50.7	65.8	61.0	70.6	I	12.5	X	1.0	5.4	X	1.0	43.4	Y	4.0	-	-	-	67.0	49.7	61.8	61.0	69.0
	10	68.1	50.8	66.0	61.1	70.7	I	13.6	X	1.0	6.1	X	1.0	45.4	Z	6.0	-	-	-	67.1	49.8	60.0	61.1	68.8
	11	68.1	50.8	66.1	61.2	70.8	I	14.7	X	1.0	6.8	X	1.0	47.2	Z	6.0	-	-	-	67.1	49.8	60.1	61.2	68.8
	12	68.2	50.8	66.0	61.3	70.8	I	15.7	Y	3.0	7.5	X	1.0	48.9	Z	6.0	-	-	-	65.2	49.8	60.0	61.3	67.6
	13	68.2	50.7	66.0	61.3	70.8	I	16.8	Y	3.0	8.2	X	1.0	50.6	Z	6.0	-	-	-	65.2	49.7	60.0	61.3	67.6
	14	68.2	50.7	65.8	61.3	70.8	I	17.8	Y	3.0	8.8	X	1.0	52.1	Z	6.0	-	-	-	65.2	49.7	59.8	61.3	67.6
	15	68.2	50.7	65.8	61.3	70.8	I	18.8	Y	3.0	9.5	X	1.0	53.5	Z	6.0	-	-	-	65.2	49.7	59.8	61.3	67.6
	16	68.2	50.8	65.7	61.3	70.7	I	19.8	Y	3.0	10.2	X	1.0	54.8	Z	6.0	-	-	-	65.2	49.8	59.7	61.3	67.6
	17	68.3	50.8	65.6	61.3	70.7	I	20.8	Y	3.0	10.9	X	1.0	56.0	Z	6.0	-	-	-	65.3	49.8	59.6	61.3	67.6
	18	68.2	50.7	65.5	61.4	70.7	I	21.8	Y	3.0	11.5	X	1.0	57.2	Z	6.0	-	-	-	65.2	49.7	59.5	61.4	67.5
	19	68.2	50.7	65.4	61.4	70.7	I	22.8	Y	3.0	12.2	X	1.0	58.3	Z	6.0	-	-	-	65.2	49.7	59.4	61.4	67.5
	20	68.2	50.7	65.3	61.4	70.6	I	23.7	Y	3.0	12.9	X	1.0	59.3	Z	6.0	-	-	-	65.2	49.7	59.3	61.4	67.5
	21	68.2	50.7	65.2	61.4	70.6	I	24.7	Y	3.0	13.5	X	1.0	60.3	Z	6.0	-	-	-	65.2	49.7	59.2	61.4	67.5
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	68.2	36.8	64.8	61.5	70.4	I	27.1	Y	3.0	15.2	Y	3.0	62.6	Z	6.0	-	-	-	65.2	33.8	58.8	61.5	67.4
	24	68.1	37.5	64.7	61.5	70.4	I	28.0	Y	3.0	15.9	Y	3.0	63.4	Z	6.0	-	-	-	65.1	34.5	58.7	61.5	67.3
	25	68.1	38.4	64.6	61.5	70.3	N/A	28.8	Y	-	16.5	Y	-	64.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	26	68.1	39.4	64.5	61.5	70.3	N/A	29.7	Y	-	17.1	Y	-	64.9	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	27	68.0	40.6	64.4	61.5	70.2	N/A	30.5	Y	-	17.8	Y	-	65.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	28	68.0	41.9	64.3	61.5	70.2	N/A	31.4	Y	-	18.4	Y	-	66.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	29	67.9	43.6	64.1	61.5	70.1	N/A	32.2	Y	-	19.0	Y	-	66.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	30	67.9	45.0	64.0	61.5	70.1	N/A	33.0	Y	-	19.6	Y	-	67.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	31	67.8	46.8	63.9	61.5	70.0	N/A	33.8	Y	-	20.2	Y	-	68.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	32	67.8	47.8	63.8	61.5	70.0	N/A	34.6	Y	-	20.9	Y	-	68.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	33	67.8	48.5	63.7	61.5	69.9	N/A	35.3	Y	-	21.5	Y	-	69.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	34	67.7	48.9	63.6	61.6	69.9	N/A	36.1	Y	-	22.1	Y	-	69.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	35	67.7	49.5	63.5	61.5	69.8	N/A	36.8	Y	-	22.7	Y	-	70.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	36	67.6	49.8	63.4	61.5	69.8	N/A	37.5	Y	-	23.2	Y	-	70.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	37	67.6	50.2	63.4	61.6	69.8	N/A	38.2	Y	-	23.8	Y	-	70.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	38	67.5	50.4	63.3	61.6	69.7	N/A	38.9	Y	-	24.4	Y	-	71.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	39	67.5	50.5	63.2	61.6	69.7	N/A	39.6	Y	-	25.0	Y	-	71.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	40	67.5	50.6	63.1	61.6	69.6	N/A	40.2	Y	-	25.5	Y	-	72.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	41	67.4	50.7	63.0	61.6	69.6	N/A	40.9	Y	-	26.1	Y	-	72.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	42	67.4	50.7	62.9	61.7	69.5	N/A	41.5	Y	-	26.7	Y	-	72.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	43	67.3	50.7	62.8	61.6	69.5	N/A	42.2	Y	-	27.2	Y	-	73.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	44	67.3	50.7	62.8	61.6	69.5	N/A	42.8	Y	-	27.8	Y	-	73.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	67.2	50.7	62.7	61.7	69.4	N/A	43.4	Y	-	28.3	Y	-	73.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R217b	4	66.4	50.4	56.1	58.7	67.5	N/A	7.2	X	-	2.0	X	-	31.4	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	66.9	50.6	58.7	60.0	68.3	N/A	8.3	X	-	2.7	X	-	34.1	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	6	67.3	50.7	61.5	60.6	69.1	N/A	9.4	X	-	3.4	X	-	36.7	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	7	67.6	50.8	64.1	61.0	69.9	N/A	10.5	X	-	4.1	X	-	39.1	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	8	67.9	50.8	65.3	61.2	70.4	N/A	11.6	X	-	4.8	X	-	41.3	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	9	68.1	50.8	65.8	61.4	70.7	I	12.7	X	1.0	5.5	X	1.0	43.4	Y	4.0	-	-	-	67.1	49.8	61.8	61.4	69.1
	10	68.2	50.9	66.0	61.4	70.9	I	13.8	X	1.0	6.2	X	1.0	45.4	Z	6.0	-	-	-	67.2	49.9	60.0	61.4	68.9
	11	68.3	50.9	66.1	61.5	70.9	I	14.9	X	1.0	6.8	X	1.0	47.3	Z	6.0	-	-	-	67.3	49.9	60.1	61.5	69.0
	12	68.3	50.9	66.0	61.6	70.9	I	16.0	Y	3.0	7.5	X	1.0	49.0	Z	6.0	-	-	-	65.3	49.9	60.0	61.6	67.7
	13	68.3	50.9	66.0	61.6	70.9	I	17.0	Y	3.0	8.2	X	1.0	50.6	Z	6.0	-	-	-	65.3	49.9	60.0	61.6	67.7
	14	68.3	50.9	65.9	61.6	70.9	I	18.1	Y	3.0	8.9	X	1.0	52.1	Z	6.0	-	-	-	65.3	49.9	59.9	61.6	67.7
	15	68.3	50.9	65.9	61.6	70.9	I	19.1	Y	3.0	9.6	X	1.0	53.5	Z	6.0	-	-	-	65.3	49.9	59.9	61.6	67.7
	16	68.4	50.8	65.8	61.6	70.9	I	20.1	Y	3.0	10.3	X	1.0	54.8	Z	6.0	-	-	-	65.4	49.8	59.8	61.6	67.8
	17	68.3	50.8	65.7	61.6	70.8	I	21.1	Y	3.0	10.9	X	1.0	56.1	Z	6.0	-	-	-	65.3	49.8	59.7	61.6	67.7
	18	68.4	50.8	65.6	61.6	70.8	I	22.1	Y	3.0	11.6	X	1.0	57.2	Z	6.0	-	-	-	65.4	49.8	59.6	61.6	67.7
	19	68.4	50.9	65.4	61.6	70.8	I	23.1	Y	3.0	12.3	X	1.0	58.3	Z	6.0	-	-	-	65.4	49.9	59.4	61.6	67.7
	20	68.3	50.8	65.3	61.6	70.7	I	24.1	Y	3.0	12.9	X	1.0	59.4	Z	6.0	-	-	-	65.3	49.8	59.3	61.6	67.6
	21	68.3	50.8	65.2	61.6	70.7	I	25.0	Y	3.0	13.6	X	1.0	60.4	Z	6.0	-	-	-	65.3	49.8	59.2	61.6	67.6
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	68.3	39.6	64.9	61.7	70.5	I	27.5	Y	3.0	15.3	Y	3.0	62.7	Z	6.0	-	-	-	65.3	36.6	58.9	61.7	67.5
	24	68.3	40.2	64.8	61.7	70.5	I	28.4	Y	3.0	16.0	Y	3.0	63.5	Z	6.0	-	-	-	65.3	37.2	58.8	61.7	67.5
	25	68.2	40.8	64.7	61.7	70.4	N/A	29.2	Y	-	16.6	Y	-	64.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	26	68.2	41.5	64.6	61.7	70.4	N/A	30.1	Y	-	17.3	Y	-	64.9	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	27	68.1	42.4	64.5	61.7	70.3	N/A	31.0	Y	-	17.9	Y	-	65.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	28	68.1	43.4	64.3	61.7	70.3	N/A	31.8	Y	-	18.5	Y	-	66.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	29	68.1	44.9	64.2	61.7	70.2	N/A	32.6	Y	-	19.1	Y	-	66.9	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	30	68.0	46.3	64.1	61.7	70.2	N/A	33.4	Y	-	19.8	Y	-	67.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	31	68.0	47.7	64.0	61.7	70.1	N/A	34.2	Y	-	20.4	Y	-	68.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	32	67.9	48.5	63.9	61.7	70.1	N/A	35.0	Y	-	21.0	Y	-	68.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	33	67.9	49.2	63.8	61.7	70.0	N/A	35.8	Y	-	21.6	Y	-	69.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	34	67.8	49.6	63.7	61.7	70.0	N/A	36.5	Y	-	22.2	Y	-	69.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	35	67.8	50.1	63.6	61.7	69.9	N/A	37.2	Y	-	22.8	Y	-	70.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	36	67.7	50.6	63.5	61.7	69.9	N/A	38.0	Y	-	23.4	Y	-	70.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	37	67.7	50.9	63.4	61.7	69.9	N/A	38.7	Y	-	24.0	Y	-	70.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	38	67.6	51.1	63.4	61.7	69.8	N/A	39.4	Y	-	24.5	Y	-	71.3	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	39	67.6	51.2	63.3	61.7	69.8	N/A	40.1	Y	-	25.1	Y	-	71.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	40	67.5	51.3	63.2	61.8	69.7	N/A	40.7	Y	-	25.7	Y	-	72.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	41	67.5	51.3	63.1	61.8	69.7	N/A	41.4	Y	-	26.3	Y	-	72.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	42	67.4	51.4	63.0	61.8	69.6	N/A	42.0	Y	-	26.8	Y	-	72.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	43	67.4	51.4	62.9	61.8	69.6	N/A	42.6	Y	-	27.4	Y	-	73.1	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	44	67.3	51.3	62.8	61.8	69.5	N/A	43.3	Y	-	27.9	Y	-	73.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	67.3	51.3	62.8	61.8	69.5	N/A	43.9	Y	-	28.5	Y	-	73.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance											Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R218b	4	66.7	50.7	56.1	58.6	67.7	N/A	7.4	X	-	2.0	X	-	31.3	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	67.3	50.8	58.6	59.6	68.5	N/A	8.6	X	-	2.7	X	-	34.1	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	6	67.7	50.9	61.4	60.1	69.2	N/A	9.8	X	-	3.4	X	-	36.6	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	7	68.1	51.0	63.9	60.5	70.0	N/A	10.9	X	-	4.1	X	-	39.0	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	8	68.3	50.9	65.2	60.7	70.6	I	12.1	X	1.0	4.8	X	1.0	41.3	Y	4.0	-	-	-	67.3	49.9	61.2	60.7	69.0
	9	68.5	51.0	65.8	60.9	70.9	I	13.2	X	1.0	5.5	X	1.0	43.4	Y	4.0	-	-	-	67.5	50.0	61.8	60.9	69.3
	10	68.5	51.0	66.0	61.0	71.0	I	14.3	X	1.0	6.2	X	1.0	45.4	Z	6.0	-	-	-	67.5	50.0	60.0	61.0	69.0
	11	68.6	51.0	66.2	61.1	71.1	I	15.5	Y	3.0	6.9	X	1.0	47.2	Z	6.0	-	-	-	65.6	50.0	60.2	61.1	67.8
	12	68.6	51.0	66.1	61.1	71.1	I	16.6	Y	3.0	7.6	X	1.0	48.9	Z	6.0	-	-	-	65.6	50.0	60.1	61.1	67.8
	13	68.6	51.0	66.1	61.2	71.1	I	17.7	Y	3.0	8.3	X	1.0	50.6	Z	6.0	-	-	-	65.6	50.0	60.1	61.2	67.8
	14	68.7	50.9	66.0	61.2	71.1	I	18.7	Y	3.0	9.0	X	1.0	52.1	Z	6.0	-	-	-	65.7	49.9	60.0	61.2	67.9
	15	68.6	50.9	65.9	61.2	71.0	I	19.8	Y	3.0	9.7	X	1.0	53.5	Z	6.0	-	-	-	65.6	49.9	59.9	61.2	67.8
	16	68.6	50.9	65.8	61.2	71.0	I	20.8	Y	3.0	10.4	X	1.0	54.8	Z	6.0	-	-	-	65.6	49.9	59.8	61.2	67.8
	17	68.6	50.9	65.7	61.2	71.0	I	21.9	Y	3.0	11.1	X	1.0	56.0	Z	6.0	-	-	-	65.6	49.9	59.7	61.2	67.8
	18	68.6	50.9	65.6	61.2	70.9	I	22.9	Y	3.0	11.8	X	1.0	57.2	Z	6.0	-	-	-	65.6	49.9	59.6	61.2	67.8
	19	68.6	50.9	65.5	61.2	70.9	I	23.9	Y	3.0	12.5	X	1.0	58.3	Z	6.0	-	-	-	65.6	49.9	59.5	61.2	67.7
	20	68.6	50.9	65.4	61.3	70.9	I	24.9	Y	3.0	13.1	X	1.0	59.3	Z	6.0	-	-	-	65.6	49.9	59.4	61.3	67.7
	21	68.5	50.9	65.2	61.3	70.8	I	25.9	Y	3.0	13.8	X	1.0	60.3	Z	6.0	-	-	-	65.5	49.9	59.2	61.3	67.7
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	68.5	36.3	64.9	61.3	70.6	I	28.4	Y	3.0	15.5	Y	3.0	62.6	Z	6.0	-	-	-	65.5	33.3	58.9	61.3	67.5
	24	68.5	37.0	64.8	61.4	70.6	I	29.3	Y	3.0	16.2	Y	3.0	63.4	Z	6.0	-	-	-	65.5	34.0	58.8	61.4	67.6
	25	68.4	37.8	64.7	61.4	70.5	I	30.2	Y	3.0	16.8	Y	3.0	64.2	Z	6.0	-	-	-	65.4	34.8	58.7	61.4	67.5
	26	68.4	38.7	64.6	61.4	70.5	I	31.1	Y	3.0	17.5	Y	3.0	64.9	Z	6.0	-	-	-	65.4	35.7	58.6	61.4	67.5
	27	68.4	39.7	64.5	61.4	70.4	I	31.9	Y	3.0	18.1	Y	3.0	65.6	Z	6.0	-	-	-	65.4	36.7	58.5	61.4	67.5
	28	68.3	41.0	64.4	61.4	70.4	N/A	32.8	Y	-	18.8	Y	-	66.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	29	68.3	42.4	64.2	61.5	70.3	N/A	33.6	Y	-	19.4	Y	-	66.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	30	68.2	44.1	64.1	61.5	70.2	N/A	34.5	Y	-	20.0	Y	-	67.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	31	68.2	45.5	64.0	61.5	70.2	N/A	35.3	Y	-	20.7	Y	-	68.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	32	68.1	46.6	63.9	61.5	70.2	N/A	36.0	Y	-	21.3	Y	-	68.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	33	68.1	47.5	63.8	61.5	70.1	N/A	36.8	Y	-	21.9	Y	-	69.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	34	68.0	48.4	63.7	61.5	70.1	N/A	37.6	Y	-	22.5	Y	-	69.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	35	68.0	49.2	63.6	61.5	70.0	N/A	38.3	Y	-	23.1	Y	-	70.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	36	67.9	49.8	63.5	61.5	70.0	N/A	39.0	Y	-	23.7	Y	-	70.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	37	67.9	50.2	63.5	61.5	69.9	N/A	39.8	Y	-	24.3	Y	-	70.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	38	67.8	50.4	63.4	61.5	69.9	N/A	40.5	Y	-	24.9	Y	-	71.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	39	67.8	50.5	63.3	61.5	69.8	N/A	41.1	Y	-	25.5	Y	-	71.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	40	67.7	50.5	63.2	61.5	69.8	N/A	41.8	Y	-	26.0	Y	-	72.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	41	67.7	50.6	63.1	61.6	69.8	N/A	42.5	Y	-	26.6	Y	-	72.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	42	67.6	50.6	63.0	61.6	69.7	N/A	43.1	Y	-	27.2	Y	-	72.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	43	67.6	50.6	62.9	61.6	69.7	N/A	43.7	Y	-	27.7	Y	-	73.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	44	67.5	50.5	62.9	61.6	69.6	N/A	44.4	Y	-	28.3	Y	-	73.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	67.5	50.5	62.8	61.6	69.6	N/A	45.0	Y	-	28.8	Y	-	73.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation (Scenario B)**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)					Balcony Type [2]	Acoustic Balcony Performance												Noise Levels With Acoustic Balcony, dB(A)				
								Group 1			Group 2			Group 3			Group 4							
		Group 1	Group 2	Group 3	Group 4	Overall		Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A)	Inclination Angle	Inclination Angle Type	Attenuation, dB(A)	Group 1	Group 2	Group 3	Group 4	Overall
R218c	4	66.9	50.8	56.0	58.6	67.9	N/A	7.6	X	-	2.0	X	-	31.3	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	5	67.5	50.9	58.5	59.6	68.6	N/A	8.8	X	-	2.7	X	-	34.1	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	6	67.9	51.0	61.3	60.1	69.3	N/A	9.9	X	-	3.5	X	-	36.6	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	7	68.2	51.1	63.8	60.4	70.1	N/A	11.1	X	-	4.2	X	-	39.0	Y	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	8	68.4	51.1	65.2	60.7	70.6	I	12.3	X	1.0	4.9	X	1.0	41.3	Y	4.0	-	-	-	67.4	50.1	61.2	60.7	69.1
	9	68.6	51.2	65.8	60.8	70.9	I	13.4	X	1.0	5.6	X	1.0	43.4	Y	4.0	-	-	-	67.6	50.2	61.8	60.8	69.3
	10	68.7	51.2	66.0	61.0	71.1	I	14.6	X	1.0	6.3	X	1.0	45.4	Z	6.0	-	-	-	67.7	50.2	60.0	61.0	69.2
	11	68.7	51.2	66.2	61.0	71.1	I	15.7	Y	3.0	7.0	X	1.0	47.2	Z	6.0	-	-	-	65.7	50.2	60.2	61.0	67.9
	12	68.7	51.1	66.1	61.1	71.1	I	16.8	Y	3.0	7.7	X	1.0	48.9	Z	6.0	-	-	-	65.7	50.1	60.1	61.1	67.9
	13	68.8	51.1	66.1	61.1	71.2	I	17.9	Y	3.0	8.4	X	1.0	50.5	Z	6.0	-	-	-	65.8	50.1	60.1	61.1	67.9
	14	68.8	51.1	66.0	61.2	71.1	I	19.0	Y	3.0	9.1	X	1.0	52.1	Z	6.0	-	-	-	65.8	50.1	60.0	61.2	67.9
	15	68.8	51.1	66.0	61.2	71.1	I	20.1	Y	3.0	9.8	X	1.0	53.5	Z	6.0	-	-	-	65.8	50.1	60.0	61.2	67.9
	16	68.8	51.0	65.8	61.2	71.1	I	21.2	Y	3.0	10.5	X	1.0	54.8	Z	6.0	-	-	-	65.8	50.0	59.8	61.2	67.9
	17	68.8	51.0	65.7	61.2	71.0	I	22.2	Y	3.0	11.2	X	1.0	56.0	Z	6.0	-	-	-	65.8	50.0	59.7	61.2	67.9
	18	68.8	51.0	65.6	61.2	71.0	I	23.3	Y	3.0	11.9	X	1.0	57.2	Z	6.0	-	-	-	65.8	50.0	59.6	61.2	67.9
	19	68.7	51.1	65.5	61.2	71.0	I	24.3	Y	3.0	12.5	X	1.0	58.3	Z	6.0	-	-	-	65.7	50.1	59.5	61.2	67.8
	20	68.7	51.0	65.4	61.2	70.9	I	25.3	Y	3.0	13.2	X	1.0	59.3	Z	6.0	-	-	-	65.7	50.0	59.4	61.2	67.8
	21	68.7	51.0	65.2	61.2	70.9	I	26.3	Y	3.0	13.9	X	1.0	60.3	Z	6.0	-	-	-	65.7	50.0	59.2	61.2	67.8
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23	68.7	35.5	64.9	61.3	70.7	I	28.8	Y	3.0	15.6	Y	3.0	62.6	Z	6.0	-	-	-	65.7	32.5	58.9	61.3	67.7
	24	68.6	36.2	64.8	61.3	70.6	I	29.7	Y	3.0	16.3	Y	3.0	63.4	Z	6.0	-	-	-	65.6	33.2	58.8	61.3	67.6
	25	68.6	36.8	64.7	61.4	70.6	I	30.6	Y	3.0	17.0	Y	3.0	64.2	Z	6.0	-	-	-	65.6	33.8	58.7	61.4	67.6
	26	68.5	37.6	64.6	61.4	70.5	I	31.5	Y	3.0	17.6	Y	3.0	64.9	Z	6.0	-	-	-	65.5	34.6	58.6	61.4	67.5
	27	68.5	38.6	64.5	61.4	70.5	I	32.4	Y	3.0	18.2	Y	3.0	65.6	Z	6.0	-	-	-	65.5	35.6	58.5	61.4	67.5
	28	68.4	39.7	64.4	61.4	70.4	N/A	33.2	Y	-	18.9	Y	-	66.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	29	68.3	41.0	64.2	61.4	70.4	N/A	34.1	Y	-	19.5	Y	-	66.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	30	68.3	42.4	64.1	61.4	70.3	N/A	34.9	Y	-	20.2	Y	-	67.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	31	68.2	43.7	64.0	61.4	70.2	N/A	35.7	Y	-	20.8	Y	-	68.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	32	68.2	45.1	63.9	61.5	70.2	N/A	36.5	Y	-	21.4	Y	-	68.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	33	68.1	46.3	63.8	61.4	70.2	N/A	37.3	Y	-	22.0	Y	-	69.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	34	68.1	47.5	63.7	61.4	70.1	N/A	38.1	Y	-	22.6	Y	-	69.5	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	35	68.1	48.5	63.6	61.5	70.1	N/A	38.8	Y	-	23.2	Y	-	69.9	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	36	68.0	49.1	63.5	61.5	70.0	N/A	39.5	Y	-	23.8	Y	-	70.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	37	68.0	49.3	63.5	61.5	70.0	N/A	40.2	Y	-	24.4	Y	-	70.8	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	38	67.9	49.6	63.4	61.5	69.9	N/A	40.9	Y	-	25.0	Y	-	71.2	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	39	67.9	49.7	63.3	61.5	69.9	N/A	41.6	Y	-	25.6	Y	-	71.6	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	40	67.8	49.8	63.2	61.5	69.8	N/A	42.3	Y	-	26.2	Y	-	72.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	41	67.8	49.8	63.1	61.6	69.8	N/A	43.0	Y	-	26.8	Y	-	72.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	42	67.7	49.9	63.0	61.6	69.8	N/A	43.6	Y	-	27.3	Y	-	72.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	43	67.7	49.8	62.9	61.6	69.7	N/A	44.2	Y	-	27.9	Y	-	73.0	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	44	67.6	49.8	62.9	61.6	69.7	N/A	44.9	Y	-	28.4	Y	-	73.4	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A
	45	67.6	49.8	62.8	61.6	69.6	N/A	45.5	Z	-	29.0	Y	-	73.7	Z	-	-	-	-	N/A	N/A	N/A	N/A	N/A

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

The roads are grouped as below (see Figure 1) and the noise contributions from each group of the roads have been calculated:

Group 1 - Po Shek Wu Road (northwest of the subject site)

Group 2 - Po Shek Wu Road (southwest of the subject site)

Group 3 - San Wan Road

Group 4 - Others

[1] Inclination angle is calculated from the source line of each road group to the NSR. The position of noise source is set as 3.5m from the far-side of the road for conservative assessment. For Group 1,2 and 3, inclination angle are determined from Po Shek Wu Road (northwest of the subject site) north bound, Po Shek Wu Road (southwest of the subject site) north bound and San Wan Road respectively, which are the dominant noise source of the group.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

[3] The attenuation for "Setting 2 - Roads not running parallel to the balcony" will be 1dB(A) lesser than "Setting 1 - Roads running parallel to the balcony" for conservative assessment regardless of types of balcony used.

Appendix 4.10

Predicted Traffic Noise Levels for Residential Blocks (Mitigated Scenario)

Floor	R101a	R101b	R101c	R102a	R102b	R103a	R103b	R103c	R103d	R103e	R103f	R104a	R104b	R104c	R105a	R105b	R105c	R105d	R106a	R106b	R106c	R106d	R107a	R107b	R108a	R108b	R108c
45	67.0	67.1	-	66.1	-	-	66.1	66.0	-	64.5	64.6	52.5	56.4	44.8	54.4	59.0	59.2	<40	54.2	58.0	58.1	<40	57.6	58.0	58.7	59.1	59.2
44	67.1	67.1	-	66.2	-	-	66.1	66.1	-	64.4	64.6	52.5	56.3	44.6	54.3	59.0	59.2	<40	54.1	58.0	57.9	<40	57.6	58.0	58.6	59.1	59.2
43	67.1	67.1	-	66.2	-	-	66.2	66.1	-	64.5	64.6	52.5	56.3	44.5	54.3	59.0	59.1	<40	54.0	57.9	57.9	<40	57.6	58.0	58.7	59.2	59.3
42	67.2	67.2	-	66.3	-	-	66.2	66.2	-	64.5	64.7	52.5	56.3	44.4	54.2	58.9	59.1	<40	54.0	57.9	58.0	<40	57.6	58.0	58.7	59.1	59.2
41	67.3	67.3	-	66.3	-	-	66.3	66.2	-	64.5	64.7	52.5	56.2	44.3	54.2	58.9	59.1	<40	53.8	57.8	57.9	<40	57.5	58.0	58.7	59.2	59.3
40	67.3	67.3	-	66.4	-	-	66.3	66.3	-	64.5	64.7	52.5	56.2	44.1	54.0	59.0	59.0	<40	53.7	57.9	57.9	<40	57.5	58.0	58.7	59.2	59.3
39	67.4	67.4	-	66.4	-	-	66.4	66.3	-	64.5	64.7	52.5	56.1	43.9	53.9	58.9	59.1	<40	53.6	57.8	57.9	<40	57.5	58.0	58.8	59.2	59.3
38	67.4	67.4	-	66.5	-	-	66.4	66.3	-	64.5	64.7	52.4	56.0	43.8	53.7	58.8	59.0	<40	53.5	57.7	57.9	<40	57.4	57.9	58.7	59.2	59.3
37	67.5	67.5	-	66.5	-	-	66.5	66.4	-	64.5	64.7	52.4	55.9	43.5	53.5	58.7	58.9	<40	53.3	57.8	57.8	<40	57.5	58.0	58.7	59.2	59.3
36	67.6	67.6	-	66.6	-	-	66.5	66.4	-	64.5	64.7	52.3	55.7	43.2	53.2	58.6	58.9	<40	53.1	57.7	57.8	<40	57.4	57.9	58.8	59.2	59.3
35	67.6	67.6	-	66.6	-	-	66.6	66.5	-	64.5	64.7	52.3	55.5	42.9	52.9	58.5	58.8	<40	53.0	57.6	57.7	<40	57.3	57.9	58.7	59.2	59.3
34	67.7	67.7	-	66.7	-	-	66.6	66.5	-	64.5	64.7	52.3	55.3	42.4	52.7	58.4	58.8	<40	52.8	57.6	57.7	<40	57.3	57.8	58.7	59.2	59.3
33	67.8	67.8	-	66.7	-	-	66.7	66.6	-	64.5	64.7	52.2	55.2	42.1	52.5	58.4	58.7	<40	52.7	57.5	57.6	<40	57.3	57.8	58.7	59.2	59.3
32	67.8	67.8	-	66.8	-	-	66.7	66.6	-	64.5	64.6	52.2	55.1	41.9	52.3	58.4	58.6	<40	52.5	57.5	57.6	<40	57.2	57.8	58.7	59.2	59.2
31	67.9	67.9	-	66.9	-	-	66.8	66.7	-	64.5	64.6	52.1	55.0	41.4	52.0	58.2	58.6	<40	52.4	57.4	57.5	<40	57.2	57.7	58.6	59.2	59.3
30	68.0	67.9	-	66.9	-	-	66.8	66.7	-	64.5	64.6	51.9	54.8	40.9	51.7	58.1	58.5	<40	52.3	57.3	57.5	<40	57.0	57.7	58.6	59.1	59.2
29	68.0	68.0	-	67.0	-	-	66.9	66.8	-	64.5	64.6	51.8	54.6	40.5	51.5	58.1	58.4	<40	52.3	57.2	57.3	<40	56.9	57.6	58.5	59.1	59.2
28	68.1	68.1	-	67.0	-	-	66.9	66.8	-	64.5	64.6	51.8	54.5	40.0	51.3	57.9	58.3	<40	52.1	57.1	57.2	<40	56.8	57.4	58.5	59.0	59.2
27	68.2	68.1	-	67.1	-	-	67.0	66.9	-	64.5	64.5	51.7	54.4	<40	51.1	57.8	58.2	<40	52.1	56.9	57.1	<40	56.6	57.4	58.4	58.9	59.1
26	68.2	68.2	-	67.2	-	-	67.0	66.9	-	64.5	64.5	51.6	54.3	<40	50.9	57.7	58.0	<40	51.9	56.7	57.0	<40	56.4	57.2	58.3	58.8	59.1
25	68.3	68.3	-	67.2	-	-	67.1	67.0	-	64.4	64.5	51.5	54.2	<40	50.7	57.5	58.0	40.0	51.9	56.6	56.7	<40	56.2	57.0	58.1	58.8	59.0
24	68.4	68.3	-	67.3	-	-	67.1	67.0	-	64.4	64.4	51.2	54.0	<40	50.5	57.3	57.8	40.1	51.9	56.3	56.5	<40	55.9	56.9	58.0	58.7	58.9
23	68.4	68.4	-	67.3	-	-	67.2	67.1	-	64.4	64.4	50.9	53.8	<40	50.4	57.1	57.5	40.2	51.8	55.9	56.2	<40	55.6	56.6	57.8	58.5	58.9
22																											
21	68.6	68.6	-	67.5	-	-	67.3	67.2	-	64.3	64.2	49.5	53.0	<40	50.1	56.2	56.7	40.1	51.6	55.2	55.6	<40	55.1	56.3	57.7	58.3	58.8
20	68.7	68.6	-	67.5	-	-	67.3	67.2	-	64.3	64.1	48.3	52.5	<40	50.1	55.9	56.5	<40	51.6	55.0	55.4	<40	54.9	56.2	57.6	58.3	58.7
19	68.8	68.7	-	67.6	-	-	67.4	67.3	-	64.2	64.0	47.8	52.0	<40	50.0	55.6	56.3	<40	51.5	54.8	55.2	<40	54.5	55.9	57.4	58.2	58.7
18	68.8	68.8	-	67.6	-	-	67.4	67.3	-	64.2	64.0	46.5	51.8	<40	49.8	55.1	55.9	<40	51.5	54.4	54.8	<40	54.2	55.8	57.3	58.1	58.7
17	68.9	68.8	-	67.7	-	-	67.5	67.4	-	64.2	63.9	45.6	51.2	<40	49.8	54.7	55.4	<40	51.5	54.1	54.6	<40	54.0	55.7	57.2	58.0	58.5
16	69.0	68.9	-	67.7	-	-	67.5	67.4	-	64.2	63.9	44.8	51.0	<40	49.8	54.3	55.0	<40	51.4	53.8	54.4	<40	53.8	55.4	57.1	57.9	58.5
15	69.0	69.0	-	67.8	-	-	67.6	67.4	-	64.2	63.9	44.2	50.8	<40	49.7	54.0	54.7	<40	51.3	53.5	54.1	<40	53.6	55.4	57.0	57.9	58.5
14	69.1	69.0	-	67.8	-	-	67.6	67.5	-	64.2	63.8	43.5	50.5	<40	49.6	53.7	54.3	<40	51.3	53.4	54.0	<40	53.4	55.2	56.9	57.8	58.4
13	69.2	69.1	-	67.9	-	-	67.7	67.5	-	64.2	63.9	42.9	50.4	<40	49.6	53.5	54.0	<40	51.3	53.2	53.9	<40	53.2	55.1	56.9	57.7	58.4
12	69.2	69.2	-	67.9	-	-	67.7	67.6	-	64.2	63.8	42.4	50.4	<40	49.6	53.3	53.8	<40	51.3	52.9	53.7	<40	53.1	54.9	56.7	57.6	58.3
11	69.3	69.2	-	68.0	-	-	67.7	67.6	-	64.2	63.8	41.9	50.3	<40	49.6	53.1	53.6	<40	51.1	52.7	53.5	<40	52.9	54.7	56.5	57.5	58.2
10	69.4	69.3	-	68.0	-	-	67.8	67.6	-	64.2	63.8	41.5	50.1	<40	49.6	52.8	53.3	<40	50.9	52.4	53.3	<40	52.7	54.5	56.4	57.3	58.0
9	69.4	69.3	-	68.1	-	-	67.8	67.6	-	64.2	63.8	41.0	50.0	<40	49.5	52.5	52.9	<40	50.4	52.1	53.0	<40	52.4	54.1	56.1	57.2	58.0
8	69.5	69.4	-	68.1	-	-	67.8	67.7	-	64.1	63.8	40.7	50.0	<40	49.4	52.0	52.3	<40	49.2	51.3	52.6	<40	52.1	53.7	55.8	56.9	57.7
7	69.5	69.4	-	68.1	-	-	67.8	67.6	-	64.1	63.7	40.3	50.0	<40	49.3	50.8	51.1	<40	47.9	50.5	52.1	<40	51.6	52.8	55.1	56.3	57.1
6	69.6	69.4	-	68.1	-	-	67.7	67.4	-	64.0	63.6	40.0	49.9	<40	49.2	49.8	50.3	<40	46.6	49.4	51.5	<40	50.8	51.6	53.8	55.4	56.4
5	69.6	69.5	-	67.9	-	-	67.1	66.8	-	63.9	63.4	<40	49.6	<40	48.7	49.1	49.6	<40	45.6	48.4	50.1	<40	49.0	50.3	51.9	54.4	55.8
4	69.5	69.1	-	66.1	-	-	65.6	65.5	-	62.5	61.4	<40	48.0	<40	45.7	48.2	48.6	<40	44.2	46.9	47.4	<40	46.5	47.8	49.7	51.8	54.7
Max	69.6	69.5	<40	68.1	<40	<40	67.8	67.7	<40	64.5	64.7	52.5	56.4	44.8	54.4	59.0	59.2	40.2	54.2	58.0	58.1	<40	57.6	58.0	58.8	59.2	59.3
Min	67.0	67.1	<40	66.1	<40	<40	65.6	65.5	<40	62.5	61.4	40.0	48.0	40.0	45.7	48.2	48.6	40.0	44.2	46.9	47.4	<40	46.5	47.8	49.7	51.8	54.7

# Total Flats	1927
Exceedance	0
Compliance Rate	100.0%

- Noise sensitive receivers with exceedance (≥70.5 dB(A))
- - Noise sensitive receivers applied with fixed glazing
- Noise sensitive receivers applied with acoustic window (non-absorptive)
- Noise sensitive receivers applied with acoustic window (absorptive)
- X Noise sensitive receivers applied with acoustic balcony (Type 1)
- X Noise sensitive receivers applied with acoustic balcony (Type 2)
- X Noise sensitive receivers applied with acoustic balcony (Type 4)

(These predicted noise levels are the equivalent noise levels at 1m from the external facade after accounting the reduction in noise levels inside the flat offered by the proposed acoustic window)

Floor	R109a	R109b	R109c	R110a	R110b	R111b	R111c	R112a	R112b	R113b	R113c	R114a	R114b	R115b	R115c	R116a	R116b	R116c	R117a	R117b	R118a	R118b	R119a	R119b	R120a	R120b	R120c
45	57.6	59.8	59.9	70.2	70.3	70.4	70.4	67.1	67.2	67.3	67.3	67.4	67.5	67.9	68.4	67.3	67.3	-	-	66.3	66.1	-	-	65.7	66.1	66.4	-
44	57.6	59.8	59.9	70.3	70.3	70.4	70.4	67.1	67.2	67.3	67.4	67.5	67.6	67.9	68.4	67.4	67.4	-	-	66.4	66.1	-	-	65.8	66.2	66.5	-
43	57.6	59.8	59.9	70.3	70.3	66.9	66.9	67.2	67.2	67.4	67.4	67.5	67.6	67.9	68.5	67.4	67.4	-	-	66.5	66.2	-	-	65.8	66.2	66.6	-
42	57.7	59.8	59.9	70.3	70.4	66.9	66.9	67.2	67.3	67.4	67.5	67.5	67.6	68.0	68.5	67.5	67.5	-	-	66.5	66.3	-	-	65.9	66.3	66.6	-
41	57.7	59.8	60.0	70.4	70.4	66.9	66.9	67.2	67.3	67.4	67.5	67.6	67.7	68.0	68.6	67.6	67.5	-	-	66.6	66.4	-	-	66.0	66.3	66.7	-
40	57.7	59.9	60.0	66.8	66.9	66.9	67.0	67.3	67.4	67.5	67.6	67.7	67.7	68.1	68.6	67.7	67.6	-	-	66.6	66.4	-	-	66.0	66.4	66.7	-
39	57.7	59.9	60.0	66.9	66.9	67.0	67.0	67.3	67.4	67.5	67.6	67.7	67.8	68.2	68.7	67.7	67.6	-	-	66.7	66.5	-	-	66.1	66.5	66.8	-
38	57.7	59.9	60.0	66.9	67.0	67.0	67.0	67.4	67.5	67.6	67.7	67.8	67.9	68.2	68.8	67.7	67.7	-	-	66.8	66.5	-	-	66.2	66.6	66.9	-
37	57.7	59.9	60.0	67.5	67.0	67.0	67.1	67.4	67.5	67.7	67.7	67.8	67.9	68.2	68.9	67.8	67.8	-	-	66.9	66.6	-	-	66.2	66.6	67.0	-
36	57.8	59.9	60.0	67.6	67.7	67.1	67.1	67.5	67.6	67.7	67.8	67.9	68.0	68.3	68.9	67.9	67.8	-	-	66.9	66.7	-	-	66.3	66.7	67.0	-
35	57.8	59.9	60.0	67.8	67.7	67.1	67.1	67.5	67.6	67.7	67.8	67.9	68.0	68.4	69.0	67.9	67.9	-	-	67.0	66.8	-	-	66.3	66.8	67.1	-
34	57.8	59.9	60.0	67.8	67.9	67.9	67.2	67.6	67.6	67.8	67.9	68.0	68.1	68.5	69.1	68.0	68.0	-	-	67.1	66.9	-	-	66.4	66.8	67.2	-
33	57.8	59.9	60.0	67.9	68.0	68.1	68.0	67.6	67.7	67.9	68.0	68.1	68.1	68.5	69.1	68.1	68.1	-	-	67.2	66.9	-	-	66.5	66.9	67.2	-
32	57.8	59.9	60.1	68.0	68.0	68.1	68.2	67.7	67.8	68.0	68.0	68.1	68.2	68.6	69.1	68.2	68.2	-	-	67.3	67.0	-	-	66.6	67.0	67.3	-
31	57.8	59.9	60.1	68.0	68.0	68.1	68.2	67.7	67.9	68.0	68.1	68.2	68.3	68.7	69.2	68.2	68.2	-	-	67.3	67.1	-	-	66.7	67.0	67.4	-
30	57.9	59.9	60.1	68.0	68.1	68.2	68.3	67.8	67.9	68.1	68.1	68.3	68.3	68.8	69.3	68.3	68.3	-	-	67.4	67.1	-	-	66.7	67.1	67.4	-
29	57.9	59.9	60.0	68.0	68.1	68.3	68.3	67.8	68.0	68.1	68.2	68.3	68.4	68.8	69.4	68.5	68.4	-	-	67.5	67.2	-	-	66.8	67.2	67.5	-
28	57.9	59.9	60.1	68.1	68.1	68.2	68.3	67.9	68.0	68.2	68.2	68.4	68.5	68.9	69.5	68.5	68.5	-	-	67.6	67.3	-	-	66.9	67.3	67.6	-
27	57.9	59.8	60.0	68.1	68.1	68.3	68.4	68.9	68.1	68.2	68.3	68.4	68.6	68.9	69.5	68.6	68.6	-	-	67.7	67.4	-	-	66.9	67.3	67.7	-
26	58.0	59.8	60.1	68.1	68.2	68.3	68.4	68.9	69.0	68.3	68.4	68.5	68.6	69.0	69.6	68.7	68.6	-	-	67.8	67.5	-	-	67.0	67.4	67.7	-
25	58.0	59.8	60.0	68.2	68.2	68.4	68.4	69.0	69.1	68.4	68.5	68.6	68.7	69.1	69.7	68.8	68.8	-	-	67.8	67.5	-	-	67.1	67.5	67.8	-
24	58.0	59.8	60.0	68.2	68.3	68.4	68.5	69.1	69.2	69.5	68.5	68.6	68.8	69.2	69.8	68.9	68.9	-	-	67.9	67.6	-	-	67.2	67.5	67.9	-
23	58.1	59.7	60.0	68.3	68.3	68.4	68.5	69.2	69.3	69.6	69.8	68.7	68.8	69.3	69.9	69.0	69.0	-	-	68.0	67.7	-	-	67.3	67.6	68.0	-
22																											
21	58.2	59.6	59.9	68.4	68.4	68.6	68.7	69.3	69.4	69.8	70.0	70.1	70.3	69.5	70.2	69.3	69.2	-	-	68.3	68.0	-	-	67.4	67.8	68.2	-
20	58.2	59.6	59.9	68.4	68.5	68.7	68.7	69.4	69.5	69.9	70.1	70.2	70.4	69.2	68.8	69.4	69.3	-	-	68.3	68.0	-	-	67.5	67.9	68.2	-
19	58.2	59.5	59.9	68.4	68.5	68.7	68.8	69.5	69.6	70.0	70.2	68.6	68.8	69.4	70.1	69.5	69.5	-	-	68.4	68.1	-	-	67.6	68.0	68.3	-
18	58.2	59.5	59.9	68.6	68.6	68.8	68.9	69.6	69.7	70.1	70.2	68.7	68.9	69.5	70.2	69.6	69.5	-	-	68.6	68.2	-	-	67.7	68.1	68.4	-
17	58.2	59.4	59.9	68.6	68.7	68.8	68.9	69.7	69.8	70.2	70.3	68.8	68.9	69.6	70.3	69.7	69.7	-	-	68.7	68.3	-	-	67.8	68.1	68.5	-
16	58.2	59.4	59.9	69.0	69.1	69.3	69.3	69.8	69.9	70.4	70.3	68.9	69.1	69.7	70.4	69.9	69.8	-	-	68.7	68.4	-	-	67.8	68.2	68.6	-
15	58.3	59.3	59.8	69.0	69.1	69.3	69.4	70.1	69.9	68.7	68.8	69.1	69.3	67.3	68.0	69.9	69.9	-	-	68.8	68.5	-	-	67.9	68.3	68.6	-
14	58.2	59.4	59.7	69.0	69.2	69.3	69.4	70.2	70.3	69.0	69.2	69.4	69.4	67.4	68.1	70.1	70.0	-	-	68.9	68.6	-	-	68.0	68.4	68.7	-
13	58.2	59.3	59.8	69.0	69.2	69.3	69.4	70.2	70.3	69.1	69.3	69.5	69.6	67.6	68.3	70.2	70.1	-	-	69.0	68.7	-	-	68.1	68.4	68.8	-
12	58.2	59.2	59.7	69.0	69.2	69.3	69.4	70.3	70.4	69.1	69.3	69.5	69.7	67.6	68.4	70.3	70.2	-	-	69.2	68.8	-	-	68.1	68.5	68.8	-
11	58.1	59.1	59.6	69.0	69.1	69.3	69.4	70.3	70.4	69.2	69.3	69.5	69.7	67.7	68.4	69.0	68.9	-	-	69.2	68.8	-	-	68.2	68.6	68.9	-
10	58.0	59.0	59.5	69.1	69.3	69.4	69.5	70.4	70.4	69.1	69.3	69.5	69.7	67.8	68.5	69.1	69.0	-	-	69.3	68.9	-	-	68.3	68.6	69.0	-
9	57.8	58.9	59.4	69.0	69.1	69.2	69.3	68.7	68.9	69.2	69.4	69.6	69.9	67.8	68.6	69.2	69.1	-	-	69.4	69.0	-	-	68.3	68.6	69.0	-
8	57.6	58.7	59.2	69.9	70.0	69.0	69.1	70.2	70.4	69.2	69.4	69.6	69.8	67.9	68.6	69.4	69.2	-	-	69.5	69.1	-	-	68.2	68.6	68.9	-
7	57.1	58.2	58.8	69.6	69.8	70.1	70.2	70.1	70.3	69.1	69.3	69.6	69.8	67.9	68.7	69.5	69.3	-	-	69.6	69.1	-	-	68.1	68.5	68.8	-
6	56.4	57.8	58.4	69.3	69.5	69.8	70.0	69.8	70.0	68.9	69.2	69.5	69.7	67.9	68.7	69.6	69.4	-	-	69.6	68.9	-	-	68.1	68.4	68.8	-
5	55.8	57.4	57.9	69.8	70.0	69.4	69.7	69.5	69.6	70.2	70.4	69.2	69.5	67.8	68.7	69.7	69.5	-	-	69.1	68.6	-	-	68.0	68.4	68.7	-
4	54.6	56.4	56.9	69.2	69.3	69.7	69.9	69.9	70.1	69.1	69.4	69.7	70.0	66.9	68.4	69.6	68.7	-	-	68.3	68.2	-	-	68.0	68.3	68.8	-
Max	58.3	59.9	60.1	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.2	70.4	69.7	70.4	70.3	70.2	<40	<40	69.6	69.1	<40	<40	68.3	68.6	69.0	<40
Min	54.6	56.4	56.9	66.8	66.9	66.9	66.9	67.1	67.2	67.3	67.3	67.4	67.5	66.9	68.0	67.3	67.3	<40	<40	66.3	66.1	<40	<40	65.7	66.1	66.4	<40

	Noise sensitive receivers with exceedance (≥70.5 dB(A))
-	Noise sensitive receivers applied with fixed glazing
	Noise sensitive receivers applied with acoustic window (non-absorptive)
	Noise sensitive receivers applied with acoustic window (absorptive)
X	Noise sensitive receivers applied with acoustic balcony (Type 1)
X	Noise sensitive receivers applied with acoustic balcony (Type 2)
X	Noise sensitive receivers applied with acoustic balcony (Type 4)

(These predicted noise levels are the equivalent noise levels at 1m from the external facade after accounting the reduction in noise levels inside the flat offered by the proposed acoustic window)

Floor	R121a	R121b	R121c	R122a	R122b	R122c	R123a	R123b	R123c	R201a	R201b	R201c	R201d	R201e	R201f	R202a	R202b	R203a	R203b	R204a	R204b	R204c	R204d	R204e	R204f	R205a	R205b
45	-	66.8	66.8	67.1	67.3	-	-	67.2	65.4	69.4	69.8	-	65.3	65.3	-	-	65.0	64.9	-	-	65.1	65.3	-	66.7	67.8	65.1	65.4
44	-	66.8	66.9	67.2	67.4	-	-	67.3	65.5	69.5	69.8	-	65.4	65.3	-	-	65.0	64.9	-	-	65.1	65.3	-	66.8	67.9	65.1	65.5
43	-	66.9	67.0	67.2	67.5	-	-	67.3	65.5	69.5	69.8	-	65.4	65.3	-	-	65.0	65.0	-	-	65.2	65.4	-	66.8	67.8	65.2	65.5
42	-	67.0	67.0	67.3	67.5	-	-	67.4	65.6	69.5	69.9	-	65.4	65.4	-	-	65.0	65.0	-	-	65.2	65.4	-	66.8	67.9	65.2	65.5
41	-	67.0	67.1	67.4	67.6	-	-	67.4	65.7	69.6	69.9	-	65.4	65.4	-	-	65.1	65.0	-	-	65.2	65.4	-	66.8	67.9	65.2	65.5
40	-	67.1	67.2	67.4	67.7	-	-	67.5	65.8	69.6	70.0	-	65.5	65.4	-	-	65.1	65.0	-	-	65.2	65.4	-	66.7	67.9	65.2	65.5
39	-	67.2	67.2	67.5	67.7	-	-	67.6	65.8	69.6	70.0	-	65.5	65.4	-	-	65.1	65.0	-	-	65.3	65.5	-	66.8	67.9	65.2	65.5
38	-	67.3	67.3	67.5	67.8	-	-	67.6	65.9	69.7	70.0	-	65.5	65.5	-	-	65.2	65.1	-	-	65.3	65.5	-	66.7	67.9	65.3	65.6
37	-	67.3	67.4	67.6	67.8	-	-	67.7	65.9	69.7	70.1	-	65.5	65.5	-	-	65.2	65.1	-	-	65.3	65.5	-	66.7	67.9	65.3	65.6
36	-	67.4	67.4	67.7	67.9	-	-	67.8	66.0	69.8	70.1	-	65.6	65.5	-	-	65.2	65.1	-	-	65.3	65.5	-	66.7	67.9	65.3	65.5
35	-	67.4	67.5	67.8	68.0	-	-	67.9	66.1	69.8	70.2	-	65.6	65.6	-	-	65.2	65.1	-	-	65.3	65.5	-	66.7	67.9	65.3	65.6
34	-	67.5	67.6	67.8	68.1	-	-	68.0	66.1	69.9	70.2	-	65.6	65.6	-	-	65.2	65.2	-	-	65.3	65.6	-	66.7	67.9	65.3	65.5
33	-	67.6	67.6	67.9	68.1	-	-	68.0	66.2	69.9	70.2	-	65.7	65.6	-	-	65.3	65.2	-	-	65.4	65.6	-	66.7	67.9	65.4	65.6
32	-	67.7	67.7	68.0	68.2	-	-	68.1	66.3	69.9	70.3	-	65.7	65.6	-	-	65.3	65.2	-	-	65.4	65.6	-	66.7	67.9	65.4	65.6
31	-	67.7	67.8	68.1	68.3	-	-	68.2	66.4	70.0	70.3	-	65.7	65.7	-	-	65.3	65.2	-	-	65.4	65.6	-	66.7	67.9	65.4	65.6
30	-	67.8	67.9	68.1	68.4	-	-	68.2	66.5	70.0	70.4	-	65.8	65.7	-	-	65.4	65.3	-	-	65.4	65.6	-	66.6	67.9	65.4	65.6
29	-	67.9	68.0	68.2	68.4	-	-	68.3	66.5	70.1	70.4	-	65.8	65.7	-	-	65.4	65.3	-	-	65.5	65.7	-	66.6	67.9	65.4	65.6
28	-	68.0	68.0	68.3	68.5	-	-	68.4	66.6	-	67.5	-	65.8	65.7	-	-	65.4	65.3	-	-	65.5	65.7	-	66.6	67.9	65.4	65.6
27	-	68.0	68.1	68.3	68.6	-	-	68.5	66.7	-	67.5	-	65.8	65.8	-	-	65.4	65.3	-	-	65.5	65.7	-	66.5	67.9	65.4	65.6
26	-	68.1	68.1	68.4	68.7	-	-	68.5	66.8	-	67.5	-	65.9	65.8	-	-	65.5	65.3	-	-	65.5	65.7	-	66.5	67.9	65.4	65.6
25	-	68.2	68.2	68.5	68.7	-	-	68.6	66.8	-	67.6	-	65.9	65.8	-	-	65.5	65.3	-	-	65.5	65.7	-	66.4	67.8	65.4	65.6
24	-	68.3	68.3	68.6	68.8	-	-	68.7	66.9	-	67.6	-	65.9	65.8	-	-	65.5	65.3	-	-	65.5	65.7	-	66.3	67.8	65.4	65.6
23	-	68.3	68.4	68.7	68.9	-	-	68.8	67.0	-	67.7	-	65.9	65.9	-	-	65.5	65.4	-	-	65.5	65.7	-	66.2	67.7	65.3	65.5
22																											
21	-	68.5	68.6	68.8	69.1	-	-	69.0	67.2	-	67.7	-	66.0	65.9	-	-	65.5	65.4	-	-	65.5	65.6	-	65.8	67.5	65.3	65.5
20	-	68.6	68.7	68.9	69.2	-	-	69.1	67.3	-	67.8	-	66.0	65.9	-	-	65.5	65.4	-	-	65.5	65.6	-	65.6	67.3	65.3	65.5
19	-	68.7	68.7	69.0	69.2	-	-	69.1	67.4	-	67.8	-	66.0	65.9	-	-	65.5	65.3	-	-	65.4	65.5	-	65.4	67.3	65.3	65.5
18	-	68.8	68.8	69.1	69.3	-	-	69.2	67.5	-	67.9	-	66.0	65.9	-	-	65.5	65.3	-	-	65.4	65.5	-	65.2	67.2	65.3	65.6
17	-	68.9	68.9	69.2	69.4	-	-	69.3	67.5	-	67.9	-	66.0	65.9	-	-	65.5	65.3	-	-	65.4	65.5	-	65.0	67.1	65.3	65.6
16	-	68.9	69.0	69.2	69.5	-	-	69.4	67.6	-	67.9	-	66.0	65.9	-	-	65.5	65.3	-	-	65.4	65.4	-	64.8	67.0	65.3	65.7
15	-	69.0	69.1	69.3	69.6	-	-	69.5	67.7	-	67.9	-	66.0	65.9	-	-	65.4	65.3	-	-	65.4	65.4	-	64.7	67.0	65.4	65.7
14	-	69.1	69.1	69.4	69.6	-	-	69.5	67.7	-	67.9	-	66.0	65.9	-	-	65.4	65.3	-	-	65.3	65.3	-	64.5	66.9	65.4	65.7
13	-	69.1	69.2	69.5	69.7	-	-	69.6	67.8	-	68.0	-	66.0	65.9	-	-	65.4	65.2	-	-	65.2	65.3	-	64.3	66.8	65.5	65.8
12	-	69.2	69.2	69.5	69.8	-	-	69.7	67.9	-	68.0	-	66.0	65.8	-	-	65.3	65.1	-	-	65.1	65.2	-	64.0	66.8	65.5	65.8
11	-	69.3	69.3	69.6	69.8	-	-	69.7	68.0	-	68.0	-	65.9	65.8	-	-	65.3	65.1	-	-	65.1	65.1	-	63.6	66.7	65.4	65.8
10	-	69.3	69.4	69.7	69.9	-	-	69.8	68.0	-	67.9	-	65.8	65.7	-	-	65.2	64.9	-	-	65.0	65.0	-	63.3	66.6	65.4	65.8
9	-	69.4	69.4	69.7	70.0	-	-	69.9	68.1	-	67.9	-	65.7	65.6	-	-	65.1	64.8	-	-	64.8	64.9	-	62.8	66.4	65.3	65.7
8	-	69.4	69.4	69.7	70.0	-	-	69.9	68.0	-	67.8	-	65.7	65.5	-	-	65.0	64.7	-	68.0	70.3	70.4	63.6	62.2	66.3	65.3	65.6
7	-	69.3	69.3	69.7	69.9	-	-	69.8	68.0	-	67.6	-	65.5	65.4	-	-	64.9	70.4	59.6	68.0	70.2	70.2	63.1	61.5	66.1	65.1	65.5
6	-	69.2	69.3	69.6	69.9	-	-	69.8	67.9	70.0	70.3	-	65.3	65.2	-	-	64.8	70.4	59.4	67.9	70.1	70.0	62.3	60.5	65.9	64.9	65.4
5	-	69.2	69.2	69.6	69.9	-	-	69.8	67.9	69.6	70.1	-	65.2	65.1	-	67.6	70.4	70.0	58.9	67.8	69.7	69.6	61.5	59.4	65.8	64.7	64.8
4	-	69.2	69.2	69.5	69.8	-	-	69.5	67.4	69.3	69.7	69.9	70.3	70.0	59.4	66.2	68.9	68.5	57.1	66.3	68.4	68.4	60.8	58.4	65.7	63.9	62.9
Max	<40	69.4	69.4	69.7	70.0	<40	<40	69.9	68.1	70.1	70.4	69.9	70.3	70.0	59.4	67.6	70.4	70.4	59.6	68.0	70.3	70.4	63.6	66.8	67.9	65.5	65.8
Min	<40	66.8	66.8	67.1	67.3	<40	<40	67.2	65.4	69.3	67.5	69.9	65.2	65.1	59.4	66.2	64.8	64.7	57.1	66.3	64.8	64.9	60.8	<40	65.7	63.9	62.9

Noise sensitive receivers with exceedance (≥70.5 dB(A))

\- Noise sensitive receivers applied with fixed glazing

Noise sensitive receivers applied with acoustic window (non-absorptive)

Noise sensitive receivers applied with acoustic window (absorptive)

X Noise sensitive receivers applied with acoustic balcony (Type 1)

X Noise sensitive receivers applied with acoustic balcony (Type 2)

X Noise sensitive receivers applied with acoustic balcony (Type 4)

(These predicted noise levels are the equivalent noise levels at 1m from the external facade after accounting the reduction in noise levels inside the flat offered by the proposed acoustic window)

Floor	R206a	R206b	R206c	R206d	R207a	R207b	R207c	R207d	R208a	R208b	R209a	R209b	R210a	R210b	R211a	R211b	R211c	R212a	R212b	R212c	R212d	R213a	R213b	R214b	R214c	R215a	R215b
45	63.6	66.2	66.3	64.6	63.9	66.1	65.9	63.5	65.1	65.2	65.1	64.8	62.6	65.7	66.1	66.3	62.2	61.7	66.7	67.4	67.5	69.6	69.2	69.0	69.0	69.0	69.0
44	63.6	66.2	66.3	64.7	63.9	66.1	65.9	63.5	65.1	65.2	65.1	64.8	62.5	65.7	66.1	66.3	62.2	61.7	66.8	67.4	67.5	69.6	69.2	69.0	69.0	69.0	69.0
43	63.6	66.2	66.3	64.7	63.9	66.1	66.0	63.5	65.1	65.2	65.1	64.8	62.5	65.7	66.2	66.3	62.2	61.8	66.8	67.4	67.6	69.6	69.2	69.0	69.0	69.0	69.0
42	63.7	66.2	66.4	64.7	63.9	66.1	66.0	63.6	65.2	65.2	65.1	64.8	62.5	65.7	66.1	66.3	62.2	61.7	66.8	67.4	67.6	69.6	69.2	69.1	69.1	69.1	69.1
41	63.6	66.2	66.3	64.7	63.9	66.1	66.0	63.6	65.1	65.2	65.1	64.9	62.5	65.7	66.2	66.3	62.2	61.8	66.8	67.5	67.7	69.7	69.3	69.1	69.1	69.1	69.1
40	63.7	66.3	66.4	64.8	63.9	66.2	66.0	63.7	65.2	65.2	65.2	64.9	62.6	65.8	66.2	66.4	62.3	61.8	66.8	67.5	67.7	69.7	69.3	69.2	69.1	69.1	69.2
39	63.6	66.3	66.4	64.8	63.9	66.2	66.0	63.7	65.2	65.2	65.1	64.9	62.6	65.8	66.2	66.4	62.3	61.8	66.9	67.5	67.7	69.7	69.3	69.2	69.2	69.2	69.2
38	63.7	66.3	66.4	64.8	63.9	66.2	66.0	63.7	65.2	65.3	65.1	64.9	62.6	65.8	66.2	66.4	62.3	61.8	66.9	67.5	67.7	69.8	69.4	69.3	69.2	69.2	69.2
37	63.6	66.3	66.4	64.8	63.9	66.2	66.1	63.7	65.2	65.2	65.1	64.8	62.6	65.8	66.3	66.4	62.3	61.8	66.9	67.5	67.7	69.8	69.4	69.3	69.3	69.3	69.3
36	63.6	66.3	66.4	64.9	63.9	66.2	66.1	63.7	65.2	65.2	65.1	64.8	62.6	65.8	66.3	66.4	62.3	61.8	66.9	67.6	67.8	69.8	69.4	69.3	69.3	69.3	69.3
35	63.6	66.3	66.4	64.9	63.8	66.2	66.1	63.7	65.1	65.2	65.1	64.8	62.6	65.8	66.3	66.4	62.2	61.8	66.9	67.6	67.8	69.9	69.5	69.4	69.4	69.4	69.4
34	63.6	66.3	66.4	64.9	63.8	66.2	66.0	63.7	65.1	65.2	65.0	64.8	62.6	65.8	66.3	66.5	62.2	61.8	66.9	67.6	67.8	69.9	69.5	69.4	69.4	69.4	69.4
33	63.6	66.3	66.4	64.9	63.8	66.2	66.0	63.6	65.1	65.2	65.0	64.7	62.6	65.8	66.3	66.5	62.2	61.7	67.0	67.6	67.8	69.9	69.6	69.5	69.5	69.5	69.4
32	63.6	66.3	66.4	64.9	63.8	66.2	66.0	63.7	65.1	65.1	64.9	64.7	62.5	65.7	66.3	66.4	62.1	61.7	67.0	67.7	67.9	70.0	69.6	69.5	69.5	69.5	69.5
31	63.6	66.4	66.5	64.9	63.7	66.2	66.0	63.7	65.0	65.1	64.9	64.6	62.5	65.7	66.2	66.5	62.1	61.7	67.0	67.7	67.9	70.0	69.7	69.6	69.6	69.6	69.6
30	63.5	66.3	66.4	64.9	63.7	66.1	66.0	63.6	64.9	65.0	64.9	64.6	62.4	65.7	66.2	66.4	62.1	61.6	67.0	67.6	67.9	70.1	69.7	69.6	69.6	69.6	69.6
29	63.5	66.3	66.4	64.9	63.7	66.1	65.9	63.6	64.8	64.9	64.8	64.5	62.3	65.6	66.2	66.4	61.9	61.5	66.9	67.7	67.9	70.1	69.8	69.7	69.7	69.6	69.7
28	63.4	66.3	66.4	64.9	63.7	66.1	65.9	63.6	64.8	64.9	64.7	64.4	62.3	65.6	66.2	66.4	61.9	61.4	66.9	67.6	67.9	70.1	69.8	69.7	69.7	69.7	69.7
27	63.4	66.3	66.4	64.9	63.6	66.0	65.8	63.5	64.7	64.7	64.6	64.3	62.2	65.5	66.1	66.4	61.9	61.4	66.9	67.7	67.9	70.2	69.9	69.8	69.7	69.8	69.8
26	63.4	66.3	66.4	64.9	63.6	66.0	65.8	63.5	64.6	64.6	64.5	64.2	62.2	65.5	66.1	66.3	61.9	61.3	66.9	67.7	67.9	70.2	69.9	69.8	69.8	69.8	69.8
25	63.3	66.2	66.4	64.9	63.5	65.9	65.7	63.4	64.5	64.6	64.4	64.2	62.1	65.4	66.0	66.3	61.8	61.2	66.9	67.7	68.0	70.3	69.9	69.9	69.8	69.8	69.8
24	63.3	66.2	66.3	64.8	63.5	65.9	65.6	63.4	64.5	64.5	64.3	64.1	62.1	65.3	66.0	66.2	61.7	61.2	66.9	67.7	68.0	70.3	70.0	69.9	69.9	69.9	69.9
23	63.2	66.1	66.3	64.8	63.5	65.8	65.6	63.4	64.4	64.4	64.3	64.0	62.1	65.3	66.0	66.2	61.7	61.1	66.9	67.7	68.0	70.3	70.0	70.0	69.9	69.9	69.9
22																											
21	63.1	66.2	66.2	64.8	63.5	65.8	65.5	63.3	64.3	64.4	64.2	64.0	62.0	65.2	65.9	66.1	61.7	61.1	66.8	67.6	68.0	70.4	70.1	70.0	70.0	70.0	70.0
20	63.2	66.2	66.2	64.8	63.5	65.8	65.5	63.3	64.3	64.3	64.1	63.9	62.0	65.2	65.9	66.1	61.7	61.0	66.8	67.7	68.0	70.4	70.2	70.1	70.0	70.0	70.1
19	63.1	66.2	66.3	64.8	63.5	65.8	65.6	63.3	64.3	64.3	64.2	63.9	62.1	65.2	65.8	66.1	61.7	61.0	66.8	67.7	68.1	70.4	70.2	70.1	70.1	70.1	70.1
18	63.1	66.2	66.3	64.9	63.6	65.8	65.6	63.3	64.4	64.3	64.1	63.9	62.0	65.2	65.8	66.1	61.8	61.0	66.8	67.7	68.1	70.4	70.2	70.1	70.1	70.1	70.1
17	63.1	66.3	66.3	64.9	63.6	65.9	65.6	63.3	64.4	64.3	64.2	63.9	62.0	65.1	65.8	66.1	61.7	61.0	66.8	67.7	68.1	70.4	70.2	70.2	70.2	70.1	70.1
16	63.2	66.3	66.4	64.9	63.6	65.9	65.6	63.3	64.4	64.3	64.1	63.9	62.0	65.1	65.8	66.1	61.8	61.0	66.8	67.7	68.1	70.4	70.2	70.2	70.2	70.2	70.2
15	63.2	66.4	66.4	65.0	63.7	66.0	65.7	63.3	64.5	64.4	64.2	63.9	62.0	65.1	65.8	66.0	61.8	60.9	66.8	67.8	68.2	70.3	70.2	70.2	70.2	70.1	70.2
14	63.2	66.4	66.5	65.0	63.8	66.0	65.7	63.3	64.4	64.4	64.2	63.9	62.0	65.1	65.8	66.1	61.8	60.9	66.9	67.8	68.2	70.3	70.2	70.1	70.1	70.1	70.1
13	63.3	66.5	66.5	65.0	63.8	66.1	65.8	63.3	64.5	64.4	64.2	63.9	62.0	65.1	65.8	66.0	61.9	60.9	66.9	67.8	68.2	70.1	70.1	70.1	70.1	70.1	70.1
12	63.3	66.5	66.6	65.0	63.8	66.1	65.8	63.3	64.5	64.4	64.1	63.8	62.0	65.1	65.8	66.1	61.9	61.1	66.9	67.8	68.3	70.0	69.9	69.9	70.0	70.0	70.0
11	63.2	66.5	66.6	65.0	63.8	66.1	65.8	63.2	64.5	64.3	64.1	63.7	62.1	65.1	65.8	66.0	62.1	61.1	66.9	67.8	68.2	69.8	69.8	69.9	69.9	69.9	69.9
10	63.2	66.5	66.6	64.9	63.7	66.0	65.8	63.1	64.5	64.3	64.1	63.7	62.2	65.1	65.8	66.0	62.1	61.2	66.8	67.9	68.3	69.6	69.7	69.7	69.7	69.8	69.8
9	63.0	66.5	66.6	64.9	63.6	66.1	65.8	63.0	64.4	64.3	64.1	63.7	62.3	65.1	65.8	66.0	62.3	61.2	66.7	67.9	68.2	69.5	69.5	69.6	69.6	69.6	69.7
8	62.9	66.5	66.6	64.8	63.5	66.1	65.8	62.8	64.4	64.2	64.0	63.8	62.5	65.2	65.8	66.0	62.2	61.3	66.6	67.8	68.0	69.3	69.3	69.4	69.4	69.5	69.4
7	62.7	66.5	66.5	64.7	63.5	66.1	65.8	62.8	64.4	64.3	64.0	63.8	62.7	65.1	65.8	65.9	62.1	61.2	66.4	67.6	67.7	69.0	69.0	69.1	69.1	69.1	69.1
6	62.1	66.5	66.6	64.4	62.8	66.0	65.7	62.6	64.3	64.2	64.0	63.7	62.7	65.2	65.8	65.9	61.2	60.6	66.2	67.1	67.2	68.6	68.6	68.6	68.5	68.5	68.3
5	59.6	66.5	66.5	63.4	59.6	66.1	65.8	62.3	64.2	64.3	63.9	61.6	61.6	64.9	65.4	65.2	57.7	57.5	65.3	66.0	66.2	68.0	67.9	67.7	67.6	67.5	67.3
4	55.1	66.1	66.2	60.7	54.9	65.9	65.6	59.0	61.7	64.2	60.9	56.2	56.4	61.4	61.9	61.6	53.4	53.2	61.7	63.5	64.7	67.3	67.2	66.8	66.6	66.6	66.5
Max	63.7	66.5	66.6	65.0	63.9	66.2	66.1	63.7	65.2	65.3	65.2	64.9	62.7	65.8	66.3	66.5	62.3	61.8	67.0	67.9	68.3	70.4	70.2	70.2	70.2	70.2	70.2
Min	55.1	66.1	66.2	60.7	54.9	65.8	65.5	59.0	61.7	64.2	60.9	56.2	56.4	61.4	61.9	61.6	53.4	53.2	61.7	63.5	64.7	67.3	67.2	66.8	66.6	66.6	66.5

	Noise sensitive receivers with exceedance (≥70.5 dB(A))
-	Noise sensitive receivers applied with fixed glazing
	Noise sensitive receivers applied with acoustic window (non-absorptive)
	Noise sensitive receivers applied with acoustic window (absorptive)
X	Noise sensitive receivers applied with acoustic balcony (Type 1)
X	Noise sensitive receivers applied with acoustic balcony (Type 2)
X	Noise sensitive receivers applied with acoustic balcony (Type 4)

(These predicted noise levels are the equivalent noise levels at 1m from the external facade after accounting the reduction in noise levels inside the flat offered by the proposed acoustic window)

Floor	R216b	R216c	R217a	R217b	R218b	R218c	R219a	R219b	R219c	R220a	R220b	R220c	R221a	R221b	R222a	R222b	R222c	R222d	R223a	R223b	R223c	R223d	R224a	R224b
45	69.0	68.9	69.6	69.7	69.8	69.9	63.2	63.4	58.5	63.2	63.7	63.8	64.2	64.4	<40	65.0	65.2	64.8	62.1	65.3	65.1	63.2	60.6	58.6
44	69.0	69.0	69.7	69.8	69.8	69.9	63.2	63.5	58.5	63.3	63.8	63.9	64.2	64.4	<40	65.0	65.2	64.9	62.1	65.4	65.1	63.2	60.7	58.6
43	69.1	69.0	69.7	69.8	69.9	69.9	63.3	63.5	58.6	63.3	63.8	63.9	64.2	64.5	<40	65.1	65.2	64.9	62.2	65.4	65.2	63.3	60.7	58.6
42	69.1	69.0	69.7	69.8	69.9	70.0	63.3	63.5	58.6	63.4	63.9	63.9	64.3	64.5	<40	65.1	65.3	65.0	62.2	65.5	65.2	63.3	60.7	58.7
41	69.2	69.1	69.8	69.9	70.0	70.0	63.3	63.6	58.6	63.4	63.9	64.0	64.3	64.6	<40	65.2	65.3	65.0	62.3	65.5	65.3	63.3	60.8	58.7
40	69.2	69.1	69.8	69.9	70.0	70.0	63.4	63.6	58.7	63.5	63.9	64.0	64.4	64.6	<40	65.2	65.4	65.1	62.3	65.6	65.3	63.4	60.8	58.7
39	69.2	69.2	69.8	69.9	70.0	70.1	63.4	63.7	58.7	63.5	64.0	64.1	64.4	64.6	<40	65.3	65.5	65.1	62.3	65.6	65.4	63.4	60.9	58.7
38	69.3	69.2	69.9	70.0	70.1	70.1	63.5	63.7	58.8	63.5	64.0	64.1	64.5	64.7	<40	65.3	65.5	65.1	62.4	65.6	65.4	63.5	60.8	58.7
37	69.3	69.2	69.9	70.0	70.1	70.2	63.5	63.8	58.8	63.6	64.1	64.2	64.5	64.7	<40	65.4	65.6	65.2	62.4	65.7	65.5	63.5	60.9	58.8
36	69.4	69.3	69.9	70.0	70.1	70.2	63.6	63.8	58.8	63.6	64.1	64.2	64.5	64.8	<40	65.4	65.6	65.2	62.5	65.7	65.5	63.6	60.9	58.8
35	69.4	69.3	70.0	70.1	70.2	70.2	63.6	63.8	58.9	63.7	64.2	64.2	64.6	64.8	<40	65.4	65.6	65.3	62.5	65.8	65.6	63.6	60.9	58.8
34	69.5	69.4	70.0	70.1	70.2	70.3	63.7	63.9	58.9	63.7	64.2	64.3	64.6	64.9	<40	65.5	65.7	65.3	62.6	65.8	65.6	63.7	61.0	58.9
33	69.5	69.4	70.0	70.1	70.2	70.3	63.7	63.9	59.0	63.7	64.2	64.3	64.7	64.9	<40	65.5	65.7	65.3	62.6	65.9	65.6	63.7	61.0	58.9
32	69.6	69.5	70.1	70.2	70.3	70.3	63.7	64.0	59.0	63.8	64.3	64.4	64.7	65.0	<40	65.6	65.8	65.4	62.7	65.9	65.7	63.7	61.0	58.9
31	69.6	69.5	70.1	70.2	70.3	70.4	63.8	64.0	59.0	63.8	64.3	64.4	64.7	65.0	<40	65.6	65.8	65.4	62.7	66.0	65.7	63.8	61.0	58.9
30	69.7	69.6	70.1	70.3	70.3	70.4	63.8	64.0	59.1	63.9	64.4	64.4	64.8	65.1	<40	65.7	65.8	65.5	62.8	66.0	65.8	63.8	61.0	58.9
29	69.7	69.6	70.2	70.3	70.4	70.4	63.8	64.1	59.1	63.9	64.4	64.5	64.8	65.1	<40	65.7	65.9	65.5	62.8	66.1	65.8	63.8	61.0	58.9
28	69.8	69.7	70.2	70.3	67.6	67.6	63.9	64.1	59.1	63.9	64.4	64.5	64.9	65.1	<40	65.7	65.9	65.6	62.9	66.1	65.9	63.9	61.0	58.8
27	69.8	69.7	70.3	70.4	67.6	67.6	63.9	64.1	59.2	64.0	64.5	64.6	64.9	65.2	<40	65.8	66.0	65.6	62.9	66.2	65.9	63.9	61.0	58.8
26	69.9	69.8	70.3	70.4	67.6	67.7	63.9	64.2	59.2	64.0	64.5	64.6	65.0	65.2	<40	65.8	66.0	65.7	62.9	66.2	65.9	63.9	61.0	58.8
25	69.9	69.8	67.5	67.6	67.6	67.7	64.0	64.2	59.2	64.0	64.6	64.6	65.0	65.2	<40	65.9	66.1	65.7	63.0	66.2	66.0	64.0	61.0	58.8
24	69.9	69.9	67.5	67.6	67.7	67.7	64.0	64.3	59.3	64.1	64.6	64.7	65.0	65.3	<40	65.9	66.1	65.7	63.0	66.3	66.0	64.0	61.1	58.8
23	70.0	69.9	67.5	67.6	67.7	67.8	64.1	64.3	59.3	64.1	64.6	64.7	65.1	65.3	<40	65.9	66.1	65.8	63.0	66.3	66.0	64.1	61.0	58.7
22																								
21	70.1	70.0	67.6	67.7	67.7	67.8	64.1	64.4	59.4	64.2	64.7	64.8	65.1	65.4	<40	66.0	66.2	65.9	63.1	66.4	66.1	64.1	61.1	58.7
20	70.1	70.1	67.6	67.7	67.8	67.8	64.1	64.4	59.4	64.2	64.7	64.8	65.2	65.4	<40	66.0	66.3	65.9	63.2	66.4	66.1	64.1	61.1	58.7
19	70.1	70.1	67.6	67.7	67.8	67.8	64.2	64.4	59.5	64.2	64.7	64.8	65.2	65.4	<40	66.1	66.3	65.9	63.2	66.4	66.2	64.2	61.1	58.7
18	70.2	70.2	68.0	68.2	68.3	68.3	64.2	64.4	59.5	64.3	64.8	64.8	65.2	65.5	<40	66.1	66.3	65.9	63.2	66.5	66.2	64.2	61.1	58.7
17	70.2	70.2	68.0	68.2	68.3	68.4	64.2	64.5	59.5	64.3	64.8	64.9	65.2	65.5	<40	66.1	66.4	66.0	63.2	66.5	66.2	64.2	61.1	58.6
16	70.2	70.2	68.1	68.2	68.3	68.4	64.2	64.5	59.5	64.3	64.8	64.9	65.3	65.5	<40	66.2	66.4	66.0	63.2	66.5	66.2	64.2	61.1	58.7
15	70.2	70.2	68.0	68.2	68.3	68.4	64.3	64.5	59.6	64.4	64.9	64.9	65.3	65.5	<40	66.2	66.4	66.0	63.3	66.6	66.3	64.2	61.1	58.7
14	70.2	70.2	68.0	68.2	68.2	68.4	64.3	64.6	59.6	64.4	64.9	65.0	65.3	65.6	<40	66.2	66.4	66.0	63.3	66.6	66.3	64.3	61.1	58.7
13	70.2	70.2	68.0	68.2	68.3	68.4	64.3	64.6	59.6	64.4	64.9	65.0	65.3	65.6	<40	66.2	66.5	66.1	63.3	66.6	66.3	64.3	61.1	58.6
12	70.1	70.2	68.0	68.1	68.3	68.3	64.3	64.6	59.6	64.4	65.0	65.0	65.4	65.6	<40	66.3	66.5	66.1	63.3	66.6	66.3	64.3	61.1	58.6
11	70.1	70.1	68.8	69.0	68.2	68.3	64.3	64.6	59.7	64.4	65.0	65.0	65.4	65.6	<40	66.3	66.5	66.1	63.3	66.6	66.3	64.3	61.0	58.5
10	69.9	70.0	68.8	68.9	69.1	69.2	64.3	64.6	59.7	64.4	65.0	65.1	65.4	65.7	<40	66.3	66.5	66.1	63.2	66.6	66.3	64.3	60.9	58.5
9	69.8	69.8	69.0	69.1	69.3	69.3	64.3	64.6	59.7	64.4	65.0	65.0	65.3	65.6	<40	66.3	66.5	66.0	63.0	66.5	66.2	64.0	60.7	58.4
8	69.6	69.6	70.3	70.4	69.0	69.1	64.2	64.5	59.7	64.3	64.8	64.8	65.1	65.4	40.0	66.1	66.3	65.8	62.4	66.3	65.8	63.4	60.0	58.3
7	69.1	69.1	69.7	69.9	70.0	70.1	64.1	64.2	59.6	64.0	64.4	64.5	64.8	65.1	40.0	65.7	65.9	65.3	61.1	65.9	65.4	62.5	58.8	58.2
6	68.2	68.2	68.9	69.1	69.3	69.3	63.6	63.7	59.3	63.4	63.9	63.9	64.3	64.6	40.0	65.3	65.4	64.7	58.8	65.2	64.7	61.5	57.6	57.8
5	67.4	67.4	68.2	68.4	68.6	68.7	62.5	62.9	58.9	62.7	63.4	63.5	64.0	64.3	40.0	64.9	65.1	64.1	55.4	64.6	64.1	60.6	56.5	57.2
4	66.6	66.7	67.5	67.7	67.9	68.0	61.4	62.1	58.0	62.0	62.8	63.0	63.2	63.1	40.0	64.0	64.0	62.0	52.6	62.5	61.9	57.8	55.0	56.1
Max	70.2	70.2	70.3	70.4	70.4	70.4	64.3	64.6	59.7	64.4	65.0	65.1	65.4	65.7	40.0	66.3	66.5	66.1	63.3	66.6	66.3	64.3	61.1	58.9
Min	66.6	66.7	67.5	67.6	67.6	67.6	61.4	62.1	58.0	62.0	62.8	63.0	63.2	63.1	40.0	64.0	64.0	62.0	52.6	62.5	61.9	57.8	55.0	56.1

	Noise sensitive receivers with exceedance (≥70.5 dB(A))
-	Noise sensitive receivers applied with fixed glazing
	Noise sensitive receivers applied with acoustic window (non-absorptive)
	Noise sensitive receivers applied with acoustic window (absorptive)
X	Noise sensitive receivers applied with acoustic balcony (Type 1)
X	Noise sensitive receivers applied with acoustic balcony (Type 2)
X	Noise sensitive receivers applied with acoustic balcony (Type 4)

(These predicted noise levels are the equivalent noise levels at 1m from the external facade after accounting the reduction in noise levels inside the flat offered by the proposed acoustic window)

Floor	R101 max	R102 max	R103 max	R104 max	R105 max	R106 max	R107 max	R108 max	R109 max	R110 max	R111 max	R112 max	R113 max	R114 max	R115 max	R116 max	R117 max	R118 max	R119 max	R120 max	R121 max	R122 max	R123 max	R201 max	R202max	R203max	R204max	R205max
45	67.1	66.1	66.1	56.4	59.2	58.1	58.0	59.2	59.9	70.3	70.4	67.2	67.3	67.5	68.4	67.3	66.3	66.1	65.7	66.4	66.8	67.3	67.2	69.8	65.0	64.9	67.8	65.4
44	67.1	66.2	66.1	56.3	59.2	58.0	58.0	59.2	59.9	70.3	70.4	67.2	67.4	67.6	68.4	67.4	66.4	66.1	65.8	66.5	66.9	67.4	67.3	69.8	65.0	64.9	67.9	65.5
43	67.1	66.2	66.2	56.3	59.1	57.9	58.0	59.3	59.9	70.3	66.9	67.2	67.4	67.6	68.5	67.4	66.5	66.2	65.8	66.6	67.0	67.5	67.3	69.8	65.0	65.0	67.8	65.5
42	67.2	66.3	66.2	56.3	59.1	58.0	58.0	59.2	59.9	70.4	66.9	67.3	67.5	67.6	68.5	67.5	66.5	66.3	65.9	66.6	67.0	67.5	67.4	69.9	65.0	65.0	67.9	65.5
41	67.3	66.3	66.3	56.2	59.1	57.9	58.0	59.3	60.0	70.4	66.9	67.3	67.5	67.7	68.6	67.6	66.6	66.4	66.0	66.7	67.1	67.6	67.4	69.9	65.1	65.0	67.9	65.5
40	67.3	66.4	66.3	56.2	59.0	57.9	58.0	59.3	60.0	66.9	67.0	67.4	67.6	67.7	68.6	67.7	66.6	66.4	66.0	66.7	67.2	67.7	67.5	70.0	65.1	65.0	67.9	65.5
39	67.4	66.4	66.4	56.1	59.1	57.9	58.0	59.3	60.0	66.9	67.0	67.4	67.6	67.8	68.7	67.7	66.7	66.5	66.1	66.8	67.2	67.7	67.6	70.0	65.1	65.0	67.9	65.5
38	67.4	66.5	66.4	56.0	59.0	57.9	57.9	59.3	60.0	67.0	67.0	67.5	67.7	67.9	68.8	67.7	66.8	66.5	66.2	66.9	67.3	67.8	67.6	70.0	65.2	65.1	67.9	65.6
37	67.5	66.5	66.5	55.9	58.9	57.8	58.0	59.3	60.0	67.5	67.1	67.5	67.7	67.9	68.9	67.8	66.9	66.6	66.2	67.0	67.4	67.8	67.7	70.1	65.2	65.1	67.9	65.6
36	67.6	66.6	66.5	55.7	58.9	57.8	57.9	59.3	60.0	67.7	67.1	67.6	67.8	68.0	68.9	67.9	66.9	66.7	66.3	67.0	67.4	67.9	67.8	70.1	65.2	65.1	67.9	65.5
35	67.6	66.6	66.6	55.5	58.8	57.7	57.9	59.3	60.0	67.8	67.1	67.6	67.8	68.0	69.0	67.9	67.0	66.8	66.3	67.1	67.5	68.0	67.9	70.2	65.2	65.1	67.9	65.6
34	67.7	66.7	66.6	55.3	58.8	57.7	57.8	59.3	60.0	67.9	67.9	67.6	67.9	68.1	69.1	68.0	67.1	66.9	66.4	67.2	67.6	68.1	68.0	70.2	65.2	65.2	67.9	65.5
33	67.8	66.7	66.7	55.2	58.7	57.6	57.8	59.3	60.0	68.0	68.1	67.7	68.0	68.1	69.1	68.1	67.2	66.9	66.5	67.2	67.6	68.1	68.0	70.2	65.3	65.2	67.9	65.6
32	67.8	66.8	66.7	55.1	58.6	57.6	57.8	59.2	60.1	68.0	68.2	67.8	68.0	68.2	69.1	68.2	67.3	67.0	66.6	67.3	67.7	68.2	68.1	70.3	65.3	65.2	67.9	65.6
31	67.9	66.9	66.8	55.0	58.6	57.5	57.7	59.3	60.1	68.0	68.2	67.9	68.1	68.3	69.2	68.2	67.3	67.1	66.7	67.4	67.8	68.3	68.2	70.3	65.3	65.2	67.9	65.6
30	68.0	66.9	66.8	54.8	58.5	57.5	57.7	59.2	60.1	68.1	68.3	67.9	68.1	68.3	69.3	68.3	67.4	67.1	66.7	67.4	67.9	68.4	68.2	70.4	65.4	65.3	67.9	65.6
29	68.0	67.0	66.9	54.6	58.4	57.3	57.6	59.2	60.0	68.1	68.3	68.0	68.2	68.4	69.4	68.5	67.5	67.2	66.8	67.5	68.0	68.4	68.3	70.4	65.4	65.3	67.9	65.6
28	68.1	67.0	66.9	54.5	58.3	57.2	57.4	59.2	60.1	68.1	68.3	68.0	68.2	68.5	69.5	68.5	67.6	67.3	66.9	67.6	68.0	68.5	68.4	67.5	65.4	65.3	67.9	65.6
27	68.2	67.1	67.0	54.4	58.2	57.1	57.4	59.1	60.0	68.1	68.4	68.9	68.3	68.6	69.5	68.6	67.7	67.4	66.9	67.7	68.1	68.6	68.5	67.5	65.4	65.3	67.9	65.6
26	68.2	67.2	67.0	54.3	58.0	57.0	57.2	59.1	60.1	68.2	68.4	69.0	68.4	68.6	69.6	68.7	67.8	67.5	67.0	67.7	68.1	68.7	68.5	67.5	65.5	65.3	67.9	65.6
25	68.3	67.2	67.1	54.2	58.0	56.7	57.0	59.0	60.0	68.2	68.4	69.1	68.5	68.7	69.7	68.8	67.8	67.5	67.1	67.8	68.2	68.7	68.6	67.6	65.5	65.3	67.8	65.6
24	68.4	67.3	67.1	54.0	57.8	56.5	56.9	58.9	60.0	68.3	68.5	69.2	69.5	68.8	69.8	68.9	67.9	67.6	67.2	67.9	68.3	68.8	68.7	67.6	65.5	65.3	67.8	65.6
23	68.4	67.3	67.2	53.8	57.5	56.2	56.6	58.9	60.0	68.3	68.5	69.3	69.8	68.8	69.9	69.0	68.0	67.7	67.3	68.0	68.4	68.9	68.8	67.7	65.5	65.4	67.7	65.5
22																												
21	68.6	67.5	67.3	53.0	56.7	55.6	56.3	58.8	59.9	68.4	68.7	69.4	70.0	70.3	70.2	69.3	68.3	68.0	67.4	68.2	68.6	69.1	69.0	67.7	65.5	65.4	67.5	65.5
20	68.7	67.5	67.3	52.5	56.5	55.4	56.2	58.7	59.9	68.5	68.7	69.5	70.1	70.4	69.2	69.4	68.3	68.0	67.5	68.2	68.7	69.2	69.1	67.8	65.5	65.4	67.3	65.5
19	68.8	67.6	67.4	52.0	56.3	55.2	55.9	58.7	59.9	68.5	68.8	69.6	70.2	68.8	70.1	69.5	68.4	68.1	67.6	68.3	68.7	69.2	69.1	67.8	65.5	65.3	67.3	65.5
18	68.8	67.6	67.4	51.8	55.9	54.8	55.8	58.7	59.9	68.6	68.9	69.7	70.2	68.9	70.2	69.6	68.6	68.2	67.7	68.4	68.8	69.3	69.2	67.9	65.5	65.3	67.2	65.6
17	68.9	67.7	67.5	51.2	55.4	54.6	55.7	58.5	59.9	68.7	68.9	69.8	70.3	68.9	70.3	69.7	68.7	68.3	67.8	68.5	68.9	69.4	69.3	67.9	65.5	65.3	67.1	65.6
16	69.0	67.7	67.5	51.0	55.0	54.4	55.4	58.5	59.9	69.1	69.3	69.9	70.4	69.1	70.4	69.9	68.7	68.4	67.8	68.6	69.0	69.5	69.4	67.9	65.5	65.3	67.0	65.7
15	69.0	67.8	67.6	50.8	54.7	54.1	55.4	58.5	59.8	69.1	69.4	70.1	68.8	69.3	68.0	69.9	68.8	68.5	67.9	68.6	69.1	69.6	69.5	67.9	65.4	65.3	67.0	65.7
14	69.1	67.8	67.6	50.5	54.3	54.0	55.2	58.4	59.7	69.2	69.4	70.3	69.2	69.4	68.1	70.1	68.9	68.6	68.0	68.7	69.1	69.6	69.5	67.9	65.4	65.3	66.9	65.7
13	69.2	67.9	67.7	50.4	54.0	53.9	55.1	58.4	59.8	69.2	69.4	70.3	69.3	69.6	68.3	70.2	69.0	68.7	68.1	68.8	69.2	69.7	69.6	68.0	65.4	65.2	66.8	65.8
12	69.2	67.9	67.7	50.4	53.8	53.7	54.9	58.3	59.7	69.2	69.4	70.4	69.3	69.7	68.4	70.3	69.2	68.8	68.1	68.8	69.2	69.8	69.7	68.0	65.3	65.1	66.8	65.8
11	69.3	68.0	67.7	50.3	53.6	53.5	54.7	58.2	59.6	69.1	69.4	70.4	69.3	69.7	68.4	69.0	69.2	68.8	68.2	68.9	69.3	69.8	69.7	68.0	65.3	65.1	66.7	65.8
10	69.4	68.0	67.8	50.1	53.3	53.3	54.5	58.0	59.5	69.3	69.5	70.4	69.3	69.7	68.5	69.1	69.3	68.9	68.3	69.0	69.4	69.9	69.8	67.9	65.2	64.9	66.6	65.8
9	69.4	68.1	67.8	50.0	52.9	53.0	54.1	58.0	59.4	69.1	69.3	68.9	69.4	69.9	68.6	69.2	69.4	69.0	68.3	69.0	69.4	70.0	69.9	67.9	65.1	64.8	66.4	65.7
8	69.5	68.1	67.8	50.0	52.3	52.6	53.7	57.7	59.2	70.0	69.1	70.4	69.4	69.8	68.6	69.4	69.5	69.1	68.2	68.9	69.4	70.0	69.9	67.8	65.0	64.7	70.4	65.6
7	69.5	68.1	67.8	50.0	51.1	52.1	52.8	57.1	58.8	69.8	70.2	70.3	69.3	69.8	68.7	69.5	69.6	69.1	68.1	68.8	69.3	69.9	69.8	67.6	64.9	70.4	70.2	65.5
6	69.6	68.1	67.7	49.9	50.3	51.5	51.6	56.4	58.4	69.5	70.0	70.0	69.2	69.7	68.7	69.6	69.6	68.9	68.1	68.8	69.3	69.9	69.8	70.3	64.8	70.4	70.1	65.4
5	69.6	67.9	67.1	49.6	49.6	50.1	50.3	55.8	57.9	70.0	69.7	69.6	70.4	69.5	68.7	69.7	69.1	68.6	68.0	68.7	69.2	69.9	69.8	70.1	70.4	70.0	69.7	64.8
4	69.5	66.1	65.6	48.0	48.6	47.4	47.8	54.7	56.9	69.3	69.9	70.1	69.4	70.0	68.4	69.6	68.3	68.2	68.0	68.8	69.2	69.8	69.5	70.3	68.9	68.5	68.4	63.9
Max	69.6	68.1	67.8	56.4	59.2	58.1	58.0	59.3	60.1	70.4	70.4	70.4	70.4	70.4	70.4	70.3	69.6	69.1	68.3	69.0	69.4	70.0	69.9	70.4	70.4	70.4	70.4	65.8
Min	67.1	66.1	65.6	48.0	48.6	47.4	47.8	54.7	56.9	66.9	66.9	67.2	67.3	67.5	68.0	67.3	66.3	66.1	65.7	66.4	66.8	67.3	67.2	67.5	64.8	64.7	66.4	63.9

Total	1927
Exceedance	0
Compliance Rate	100%

Noise sensitive receivers with exceedance ($\geq$70.5 dB(A))

Floor	R206max	R207max	R208max	R209max	R210max	R211max	R212max	R213max	R214max	R215max	R216max	R217max	R218max	R219max	R220max	R221max	R222max	R223max	R224max
45	66.3	66.1	65.2	65.1	65.7	66.3	67.5	69.6	69.0	69.0	69.0	69.7	69.9	63.4	63.8	64.4	65.2	65.3	60.6
44	66.3	66.1	65.2	65.1	65.7	66.3	67.5	69.6	69.0	69.0	69.0	69.8	69.9	63.5	63.9	64.4	65.2	65.4	60.7
43	66.3	66.1	65.2	65.1	65.7	66.3	67.6	69.6	69.0	69.0	69.1	69.8	69.9	63.5	63.9	64.5	65.2	65.4	60.7
42	66.4	66.1	65.2	65.1	65.7	66.3	67.6	69.6	69.1	69.1	69.1	69.8	70.0	63.5	63.9	64.5	65.3	65.5	60.7
41	66.3	66.1	65.2	65.1	65.7	66.3	67.7	69.7	69.1	69.1	69.2	69.9	70.0	63.6	64.0	64.6	65.3	65.5	60.8
40	66.4	66.2	65.2	65.2	65.8	66.4	67.7	69.7	69.2	69.2	69.2	69.9	70.0	63.6	64.0	64.6	65.4	65.6	60.8
39	66.4	66.2	65.2	65.1	65.8	66.4	67.7	69.7	69.2	69.2	69.2	69.9	70.1	63.7	64.1	64.6	65.5	65.6	60.9
38	66.4	66.2	65.3	65.1	65.8	66.4	67.7	69.8	69.3	69.2	69.3	70.0	70.1	63.7	64.1	64.7	65.5	65.6	60.8
37	66.4	66.2	65.2	65.1	65.8	66.4	67.7	69.8	69.3	69.3	69.3	70.0	70.2	63.8	64.2	64.7	65.6	65.7	60.9
36	66.4	66.2	65.2	65.1	65.8	66.4	67.8	69.8	69.3	69.3	69.4	70.0	70.2	63.8	64.2	64.8	65.6	65.7	60.9
35	66.4	66.2	65.2	65.1	65.8	66.4	67.8	69.9	69.4	69.4	69.4	70.1	70.2	63.8	64.2	64.8	65.6	65.8	60.9
34	66.4	66.2	65.2	65.0	65.8	66.5	67.8	69.9	69.4	69.4	69.5	70.1	70.3	63.9	64.3	64.9	65.7	65.8	61.0
33	66.4	66.2	65.2	65.0	65.8	66.5	67.8	69.9	69.5	69.5	69.5	70.1	70.3	63.9	64.3	64.9	65.7	65.9	61.0
32	66.4	66.2	65.1	64.9	65.7	66.4	67.9	70.0	69.5	69.5	69.6	70.2	70.3	64.0	64.4	65.0	65.8	65.9	61.0
31	66.5	66.2	65.1	64.9	65.7	66.5	67.9	70.0	69.6	69.6	69.6	70.2	70.4	64.0	64.4	65.0	65.8	66.0	61.0
30	66.4	66.1	65.0	64.9	65.7	66.4	67.9	70.1	69.6	69.6	69.7	70.3	70.4	64.0	64.4	65.1	65.8	66.0	61.0
29	66.4	66.1	64.9	64.8	65.6	66.4	67.9	70.1	69.7	69.7	69.7	70.3	70.4	64.1	64.5	65.1	65.9	66.1	61.0
28	66.4	66.1	64.9	64.7	65.6	66.4	67.9	70.1	69.7	69.7	69.8	70.3	67.6	64.1	64.5	65.1	65.9	66.1	61.0
27	66.4	66.0	64.7	64.6	65.5	66.4	67.9	70.2	69.8	69.8	69.8	70.4	67.6	64.1	64.6	65.2	66.0	66.2	61.0
26	66.4	66.0	64.6	64.5	65.5	66.3	67.9	70.2	69.8	69.8	69.9	70.4	67.7	64.2	64.6	65.2	66.0	66.2	61.0
25	66.4	65.9	64.6	64.4	65.4	66.3	68.0	70.3	69.9	69.8	69.9	67.6	67.7	64.2	64.6	65.2	66.1	66.2	61.0
24	66.3	65.9	64.5	64.3	65.3	66.2	68.0	70.3	69.9	69.9	69.9	67.6	67.7	64.3	64.7	65.3	66.1	66.3	61.1
23	66.3	65.8	64.4	64.3	65.3	66.2	68.0	70.3	70.0	69.9	70.0	67.6	67.8	64.3	64.7	65.3	66.1	66.3	61.0
22																			
21	66.2	65.8	64.4	64.2	65.2	66.1	68.0	70.4	70.0	70.0	70.1	67.7	67.8	64.4	64.8	65.4	66.2	66.4	61.1
20	66.2	65.8	64.3	64.1	65.2	66.1	68.0	70.4	70.1	70.1	70.1	67.7	67.8	64.4	64.8	65.4	66.3	66.4	61.1
19	66.3	65.8	64.3	64.2	65.2	66.1	68.1	70.4	70.1	70.1	70.1	67.7	67.8	64.4	64.8	65.4	66.3	66.4	61.1
18	66.3	65.8	64.4	64.1	65.2	66.1	68.1	70.4	70.1	70.1	70.2	68.2	68.3	64.4	64.8	65.5	66.3	66.5	61.1
17	66.3	65.9	64.4	64.2	65.1	66.1	68.1	70.4	70.2	70.1	70.2	68.2	68.4	64.5	64.9	65.5	66.4	66.5	61.1
16	66.4	65.9	64.4	64.1	65.1	66.1	68.1	70.4	70.2	70.2	70.2	68.2	68.4	64.5	64.9	65.5	66.4	66.5	61.1
15	66.4	66.0	64.5	64.2	65.1	66.0	68.2	70.3	70.2	70.2	70.2	68.2	68.4	64.5	64.9	65.5	66.4	66.6	61.1
14	66.5	66.0	64.4	64.2	65.1	66.1	68.2	70.3	70.1	70.1	70.2	68.2	68.4	64.6	65.0	65.6	66.4	66.6	61.1
13	66.5	66.1	64.5	64.2	65.1	66.0	68.2	70.1	70.1	70.1	70.2	68.2	68.4	64.6	65.0	65.6	66.5	66.6	61.1
12	66.6	66.1	64.5	64.1	65.1	66.1	68.3	70.0	70.0	70.0	70.2	68.1	68.3	64.6	65.0	65.6	66.5	66.6	61.1
11	66.6	66.1	64.5	64.1	65.1	66.0	68.2	69.8	69.9	69.9	70.1	69.0	68.3	64.6	65.0	65.6	66.5	66.6	61.0
10	66.6	66.0	64.5	64.1	65.1	66.0	68.3	69.7	69.7	69.8	70.0	68.9	69.2	64.6	65.1	65.7	66.5	66.6	60.9
9	66.6	66.1	64.4	64.1	65.1	66.0	68.2	69.5	69.6	69.7	69.8	69.1	69.3	64.6	65.0	65.6	66.5	66.5	60.7
8	66.6	66.1	64.4	64.0	65.2	66.0	68.0	69.3	69.4	69.5	69.6	70.4	69.1	64.5	64.8	65.4	66.3	66.3	60.0
7	66.5	66.1	64.4	64.0	65.1	65.9	67.7	69.0	69.1	69.1	69.1	69.9	70.1	64.2	64.5	65.1	65.9	65.9	58.8
6	66.6	66.0	64.3	64.0	65.2	65.9	67.2	68.6	68.6	68.5	68.2	69.1	69.3	63.7	63.9	64.6	65.4	65.2	57.8
5	66.5	66.1	64.3	63.9	64.9	65.4	66.2	68.0	67.7	67.5	67.4	68.4	68.7	62.9	63.5	64.3	65.1	64.6	57.2
4	66.2	65.9	64.2	60.9	61.4	61.9	64.7	67.3	66.8	66.6	66.7	67.7	68.0	62.1	63.0	63.2	64.0	62.5	56.1
Max	66.6	66.2	65.3	65.2	65.8	66.5	68.3	70.4	70.2	70.2	70.2	70.4	70.4	64.6	65.1	65.7	66.5	66.6	61.1
Min	66.2	65.8	64.2	60.9	61.4	61.9	64.7	67.3	66.8	66.6	66.7	67.6	67.6	62.1	63.0	63.2	64.0	62.5	56.1

Noise sensitive receivers with exceedance (≥70.5 dB(A))

Appendix 5.1

Measured Sound Exposure Level (SEL)

Project no: 276006-12
Project name: Po Shek Wu Road EAS Study
Title: Measured SEL (East Rail EMU (9-car))
Measurement Date: 30/11/2021
Measurement Time Period: 21:30-01:00
Measurement Equipment Used: NL-52
Weather Condition: Clear

East Rail EMU (9-car)

Event	Measured SEL (event), dB(A) [1]	Measurement Condition				Reference Condition			Correction, dB(A)		SEL @25m, 66kph, 9car, dB(A) [6]
		Horizontal Dist. to track, m	Vertical Dist. to track, m	Slant Dist. to track (d), m	Measured Speed (v), kph	Distance to track (dref), m [2]	Speed (vref), kph [3]	No. of Car (Nref)	Distance [4]	Speed [5]	
1	78.6	10	5	11	57	25	66	9	-3.5	1.3	76.5
2	78.3	10	5	11	51	25	66	9	-3.5	2.2	77.0
3	80.2	10	5	11	68	25	66	9	-3.5	-0.3	76.4
4	79.7	10	5	11	71	25	66	9	-3.5	-0.6	75.6
5	81.1	10	5	11	63	25	66	9	-3.5	0.3	78.0
6	80.3	10	5	11	67	25	66	9	-3.5	-0.1	76.8
7	81.2	10	5	11	67	25	66	9	-3.5	-0.1	77.6
8	80.7	10	5	11	66	25	66	9	-3.5	0.0	77.2
9	79.3	10	5	11	62	25	66	9	-3.5	0.6	76.3
10	77.8	10	5	11	58	25	66	9	-3.5	1.2	75.5
11	78.8	10	5	11	65	25	66	9	-3.5	0.2	75.5
12	80.4	10	5	11	61	25	66	9	-3.5	0.7	77.6
										Averaged SEL	76.7

Note:
[1] Sound Exposure Level measured at measurement location
[2] Reference distance from the track (@25m)
[3] Reference speed measured near the Project Site (66kph)
[4] A distance correction of 10 x log (d/dref) is applied.
[5] A speed correction of -20 x log (v/vref) is applied.
[6] SEL at 25m, 66kph, 9car = [1] + [4] + [5]

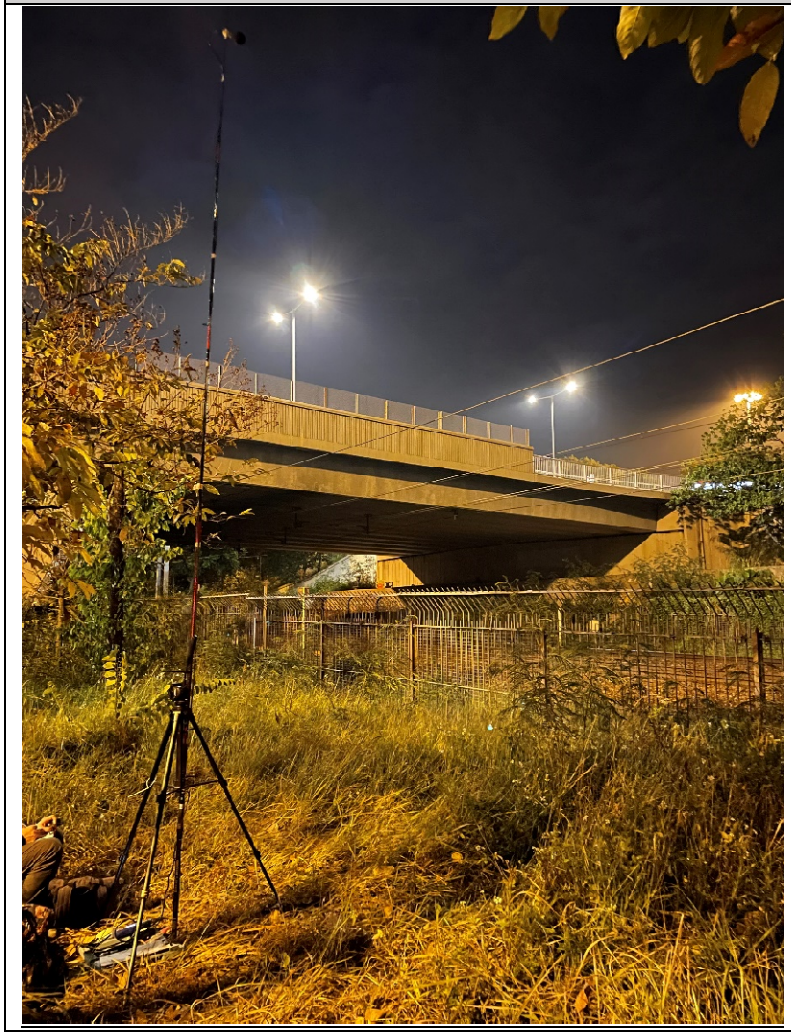
Project no: 276006-12
Project name: Po Shek Wu Road EAS Study
Title: Measured L_{max} (East Rail EMU (9-car))
Measurement Date: 30/11/2021
Measurement Time Period: 21:30-01:00
Measurement Equipment Used: NL-52
Weather Condition: Clear

East Rail EMU (9-car)

Event	Measured L_{max}, dB(A) [1]	Measurement Condition				Reference Condition		Correction, dB(A)		L_{max} @25m, 66kph, 9car, dB(A) [6]
		Horizontal Dist. to track, m	Vertical Dist. to track, m	Slant Dist. to track (d), m	Measured Speed (v), kph	Distance to track (dref), m [2]	Speed (vref), kph [3]	Distance [4]	Speed [5]	
1	68.1	10	5	11	57	25	66	-5.1	2.0	65.0
2	67.5	10	5	11	51	25	66	-5.1	3.2	65.7
3	70.6	10	5	11	68	25	66	-5.1	-0.4	65.1
4	71.5	10	5	11	71	25	66	-5.1	-0.9	65.6
5	72.4	10	5	11	63	25	66	-5.1	0.5	67.9
6	69.8	10	5	11	67	25	66	-5.1	-0.1	64.6
7	71.5	10	5	11	67	25	66	-5.1	-0.1	66.3
8	70.7	10	5	11	66	25	66	-5.1	0.0	65.6
9	70.6	10	5	11	62	25	66	-5.1	0.9	66.4
10	68.9	10	5	11	58	25	66	-5.1	1.8	65.6
11	68.5	10	5	11	65	25	66	-5.1	0.3	63.7
12	71.4	10	5	11	61	25	66	-5.1	1.0	67.3
									Max. Lmax	67.9

Note:
[1] L_{max} measured at measurement location
[2] Reference distance from the track (@25m)
[3] Reference speed measured near the Project Site (66kph)
[4] A distance correction of 14.5 x log (d/dref) is applied.
[5] A speed correction of -30 x log (v/vref) is applied.
[6] L_{max} at 25m, 66kph, 9car = [1] + [4] + [5]

Photos of measurement setup

Photo 1	Photo 2
	

Appendix 5.2

Intercity through Train Service Measurement data extracted from Sheung Shui Choi Yuen Road EAS

Project no: 276006-12
Project name: Po Shek Wu Road EAS Study
Title: Measured SEL (Intercity through train) [7]
Measurement Equipment Used: HARMONIE

Intercity through train to Hung Hom

Event	Measured SEL (event), dB(A) [1]	Measurement Location	Reference Location	Dist. Corr for SEL, dB(A) [4]	SEL @ dref, dB(A) [5]	L_{max} (event) at reference location, dB(A) [6]
		Distance to track (d), m [2]	Distance to track (dref), m [3]			
1	90.2	10.0	25.0	-4.0	86.2	79.9
2	91.6	10.0	25.0	-4.0	87.6	78.7
3	91.2	10.0	25.0	-4.0	87.2	78.8
4	88.2	10.0	25.0	-4.0	84.3	74.7
5	92.6	10.0	25.0	-4.0	88.7	76.8
6	89.7	10.0	25.0	-4.0	85.8	76.7
7	90.1	10.0	25.0	-4.0	86.1	77.5
				Averaged SEL @ 25m	**86.5**	

Intercity through train to China

Event	Measured SEL (event), dB(A) [1]	Measurement Location	Reference Location	Dist. Corr for SEL, dB(A) [4]	SEL @ dref, dB(A) [5]	L_{max} (event) at reference location, dB(A) [6]
		Distance to track (d), m [2]	Distance to track (dref), m [3]			
1	88.8	14.0	25.0	-2.5	86.3	78.5
2	91.4	14.0	25.0	-2.5	88.9	77.5
3	90.5	14.0	25.0	-2.5	87.9	76.6
4	89.9	14.0	25.0	-2.5	87.4	74.5
5	90.7	14.0	25.0	-2.5	88.2	77.9
6	91.3	14.0	25.0	-2.5	88.8	79.9
				Averaged SEL @ 25m	**87.9**	

Note:

[1] Sound Exposure Level measured at measurement location

[2] Measurement distance from the track

[3] Reference distance from the track (@25m)

[4] A distance correction of -10 x log (d/dref) is applied.

[5] SEL at reference distance = [1] + [4]

[6] L_{max} (event) in reference location

[7] The measurement are extracted from Final EAS Report for HKHA housing development at Sheung Shui Choi Yuen Road Site 3 & 5 taken on 4/7/2013, 11/7/2013, 3/12/2013 and 4/12/2013 during time period 2230 - 0000; 0600 - 0800; 0800 - 1200 & 1900 - 2200 and 1000 - 1130.

Appendix 5.3

Assumption for Rail Noise Model

Calculation of $L_{eq\ (30min)}$ from SEL

1. $L_{eq\ (30min)}$ from each track at receiver would be corrected from SEL with the following parameters:

Parameters	Assumptions	Remarks
Rail deterioration	3 dB(A)	A 3dB(A) rail deterioration correction has been included for conservative assessment according to the approved EIAs for the Shatin to Central Link – Tai Wai to Hung Hom Section (AEIAR-167/2012), Shatin to Central Link – Stabling Sidings at Hung Hom Freight Yard (AEIAR-164/2012), Tung Chung New Town Extension (AEIAR-196/2016) and Tung Chung Line Extension (AEIAR-235/2022)
Train speed	Change of Sound Exposure Level (SEL) with speed = 20 log (V / V_{ref}) dB(A)	V and V_{ref} are the average train speeds
Distance	Change of SEL with distance = 10 log (d_1 / 25) dB(A)	d_1 is the distance between track and receiver
Deck Reflection	At-Grade ballast track = 0 dB(A) At-Grade non-ballast track = 2.5 dB(A)	According to the approved EIAs for the Shatin to Central Link – Tai Wai to Hung Hom Section (AEIAR-167/2012), Shatin to Central Link – Stabling Sidings at Hung Hom Freight Yard (AEIAR-164/2012) and Tung Chung New Town Extension (AEIAR-196/2016) and Tung Chung Line Extension (AEIAR-235/2022)
Barrier effects	As per Chart 6(a) of CRN	-
Joints / Crossovers	7dB(A)	To represent the augmentation in noise due to thermal expansion joints. Similar approach has been adopted in the approved EIAs for the Shatin to Central Link – Tai Wai to Hung Hom Section (AEIAR-167/2012), Shatin to Central Link – Stabling Sidings at Hung Hom Freight Yard (AEIAR-164/2012) and Tung Chung New Town Extension (AEIAR-196/2016) and Tung Chung Line Extension (AEIAR-235/2022).
Air absorption	0.2 – 0.008d dB(A)	d is the distance (m)
Train Frequency [1]	10log(N_1)	N_1 is the train frequency in 30 minutes Frequency (trains / direction / 30 minutes)
No. of train cars [2]	-	No correction required
View Angle	10 log ($\pi\theta$/180-cos2α sinθ) – 5 dB(A)	α is the acute angle between a line drawn through the receiver point, parallel to the track and the line bisecting the angle view θ θ is the view angle
Façade Reflection	2.5dB(A)	-
To $L_{eq\ (30min)}$	10 log(1 / 1800)	-

Note:

[1] Operation train frequency is based on the information in the latest Environmental Permit (EP-437/2012/A) for Shatin to Central Link (SCL) – Mong Kok East to Hung Hom Section.

[2] According to site observation, both 9-cars and 12-car train were in operation. However, SEL measurements were taken for 9-cars train only to cohere with the future train operations for ERL and hence no correction is required.

2. Combine Leq(30min) from each track by acoustic principle for worst case scenario approach.
3. Check compliance.
4. Proposed mitigation measures and check effectiveness if necessary.

Calculation of L_{max} from measured L_{max}

1. L_{max} is predicted by "RailNoise" according to "Train Noise Prediction Model" (TNPM) which adopted for Channel Tunnel Rail Link (HS1) in the UK. L_{max} from each track at receiver would be corrected from measured L_{max} event with the following parameters:

Parameters	Assumptions	Remarks
Train speed	Change of L_{max} with speed = 30 log (V / V_{ref}) dB(A)	V and V_{ref} are the average train speeds
Distance	Change of L_{max} with distance = 14.5 log (d / 25) dB(A)	d is the distance between track and receiver, where the source height for rolling stock (non-powered sources) is 0.5m above the ground
Air absorption	- d /120 dB(A)	-
Barrier effects	Absorptive barrier: $\delta \leq 0$: $e^{(1.63+12\delta)}$ $\delta > 0$: 10 log (2.5+30(δ+0.25)) Reflective barrier: $\delta \leq 0$: $e^{(1.1958+14\delta)}$ $0 < \delta \leq 0.01$: 3.3dB(A) $\delta \geq 0.01$: $11\delta^{0.282}$	δ is the path difference

2. Check compliance with the maximum L_{max}.
3. Proposed mitigation measures and check effectiveness if necessary.

Appendix 5.4

Predicted $L_{eq(30mins)}$ for Residential Block (Basecase)

Project no: 276006-12
Project name: Po Shek Wu Road, Sheung Shui
Title: Rail Noise Assessment Result Summary - Leq Daytime & Evening

Day

NSR	R103f	R105b	R110a	R110b	R111b	R111c	R112a	R112b	R113b	R113c	R114a	R114b	R115b	R115c	R116a	R123b
ASR	B	B	B	B	B	B	B	B	B	B	B	B	B	B	C	C
Criteria	65	65	65	65	65	65	65	65	65	65	65	65	65	65	70	70
45	47.6	43.6	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.6	58.6	58.6	<40	47.7
44	47.7	43.6	58.6	58.5	58.6	58.5	58.5	58.5	58.5	58.5	58.6	58.6	58.6	58.6	<40	47.7
43	47.7	43.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.7	58.7	<40	47.8
42	47.7	43.7	58.6	58.6	58.6	58.6	58.6	58.6	58.7	58.7	58.7	58.7	58.8	58.8	<40	47.9
41	47.7	43.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.8	58.8	<40	47.9
40	47.8	43.8	58.8	58.7	58.8	58.8	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.9	<40	47.9
39	47.8	43.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.9	58.9	58.9	58.9	<40	47.9
38	47.9	43.8	58.8	58.8	58.8	58.8	58.8	58.8	58.9	58.9	58.9	58.9	59	59	<40	48
37	47.9	43.8	58.9	58.9	58.9	58.9	58.8	58.9	58.9	58.9	58.9	58.9	59	59.1	<40	48.1
36	47.9	43.9	58.9	58.9	59	58.9	58.9	58.9	58.9	58.9	59	59	59	59.1	<40	48.1
35	47.9	43.9	59	59	59	59	59	59	59	59	59	59.1	59.1	59.1	<40	48.1
34	48	43.9	59	58.9	59	59	58.9	59	59.1	59.1	59.1	59.1	59.2	59.2	<40	48.2
33	48	44	59	59	59	59	59	59	59	59.1	59.1	59.2	59.2	59.3	<40	48.3
32	48	44	59	59	59	59	59	59	59.1	59.1	59.1	59.2	59.3	59.3	<40	48.3
31	48	44.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.2	59.2	59.3	59.4	<40	48.3
30	48.1	44	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.2	59.2	59.2	59.3	59.4	<40	48.4
29	48.1	44.1	59	59	59	59	59	59.1	59.1	59.2	59.2	59.3	59.4	59.4	<40	48.4
28	48.1	44.1	59	59	59	59	59	59.1	59.2	59.2	59.2	59.3	59.4	59.4	<40	48.5
27	48.1	44.2	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.2	59.2	59.3	59.4	59.4	<40	48.5
26	48.2	44.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.3	59.4	59.5	<40	48.6
25	48.2	44.2	59.2	59.2	59.3	59.3	59.2	59.3	59.3	59.3	59.3	59.3	59.4	59.5	<40	48.7
24	48.2	44.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.4	59.4	59.5	59.6	<40	48.7
23	48.2	44.2	59.3	59.3	59.3	59.3	59.3	59.3	59.4	59.4	59.4	59.4	59.5	59.6	<40	48.7
22	REFUGE FLOOR (22/F)															
21	48.2	44.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.5	59.6	59.7	59.7	40	48.8
20	48.1	44.3	59.4	59.4	59.5	59.5	59.4	59.5	59.5	59.5	59.5	59.6	59.7	59.8	40.1	48.6
19	48	44.2	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.6	59.6	59.7	59.8	40.2	48.6
18	47.8	44.3	59.5	59.5	59.5	59.5	59.5	59.6	59.6	59.6	59.6	59.6	59.8	59.8	40.3	48.5
17	47.7	44.1	59.5	59.5	59.5	59.5	59.5	59.6	59.6	59.6	59.7	59.7	59.8	59.9	40.3	48.5
16	47.4	44	59.6	59.6	59.6	59.6	59.5	59.6	59.6	59.7	59.7	59.7	59.9	59.9	40.3	48.4
15	47.2	43.7	59.6	59.6	59.6	59.6	59.6	59.6	59.7	59.7	59.7	59.8	59.8	60	40.4	48.3
14	46.9	43.6	59.7	59.7	59.7	59.7	59.6	59.7	59.7	59.7	59.8	59.8	59.9	60	40.5	48
13	46.4	43.3	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.8	59.8	59.8	59.9	60	40.5	47.9
12	46.1	43	59.7	59.7	59.7	59.7	59.6	59.7	59.7	59.8	59.9	59.9	60	60	40.6	47.7
11	45.3	42.5	59.4	59.4	59.4	59.4	59.3	59.3	59.4	59.4	59.6	59.7	59.8	59.9	40.5	47.5
10	44.1	42	59.4	59.4	59.3	59.3	59.1	59.2	59.2	59.2	59.3	59.4	59.5	59.6	40.3	47.3
9	43.1	41.1	59.3	59.2	59.2	59.2	58.9	58.9	59	59.1	59.1	59.1	59.3	59.4	40.1	47.1
8	41.7	<40	58.9	58.9	58.8	58.8	58.6	58.6	58.7	58.8	58.8	58.9	59.1	59.1	<40	46.7
7	<40	<40	58.5	58.5	58.4	58.4	58.2	58.2	58.2	58.3	58.4	58.5	58.6	58.8	<40	45.9
6	<40	<40	58	57.9	57.9	57.8	57.5	57.7	57.7	57.7	57.8	58	58.1	58.2	<40	44.8
5	<40	<40	57.3	57.2	57.2	57.1	56.9	57	57.1	57.1	57.2	57.3	57.6	57.6	<40	44.1
4	<40	<40	56.2	56.1	56.1	56.1	55.9	56	56.1	56.2	56.4	56.5	56.9	57	<40	43.5

Min	<40	<40	56.2	56.1	56.1	56.1	55.9	56	56.1	56.2	56.4	56.5	56.9	57	<40	43.5
Max	48.2	44.3	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.8	59.9	59.9	60.0	60.0	40.6	48.8

Project no: 276006-12
Project name: Po Shek Wu Road, Sheung Shui
Title: Rail Noise Assessment Result Summary - Leq Daytime & Evening

Day

NSR	R201a	R204f	R205a	R212d	R213a	R213b	R214b	R214c	R215a	R215b	R216b	R216c	R217a	R217b	R218b	R218c	R223c
ASR	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Criteria	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
45	48	49.7	47.5	46.1	58.6	58.6	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	43.8
44	48	49.8	47.4	46.2	58.6	58.6	58.5	58.6	58.6	58.6	58.5	58.5	58.6	58.6	58.6	58.6	43.8
43	48	49.8	47.5	46.2	58.6	58.7	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	43.8
42	48.1	49.8	47.5	46.2	58.7	58.7	58.7	58.7	58.7	58.7	58.6	58.6	58.6	58.6	58.6	58.6	43.9
41	48.1	49.8	47.5	46.3	58.8	58.8	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	43.9
40	48.1	49.9	47.6	46.3	58.8	58.8	58.8	58.8	58.8	58.8	58.7	58.7	58.8	58.8	58.8	58.8	43.9
39	48.1	49.8	47.6	46.3	58.8	58.9	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	43.9
38	48.2	49.9	47.6	46.3	58.9	58.9	58.9	58.9	58.9	58.9	58.8	58.8	58.8	58.8	58.8	58.8	44
37	48.2	49.9	47.6	46.4	59	59	58.9	58.9	58.9	58.9	58.8	58.8	58.9	58.9	58.9	58.9	44
36	48.3	50	47.7	46.4	59	59	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	59	58.9	44
35	48.3	50	47.7	46.3	59	59	59	59	59	59	59	59	59	59	59	59	44
34	48.3	50	47.7	46.4	59.1	59.1	59	59	59	59	59	58.9	58.9	59	59	59	44.1
33	48.3	50	47.8	46.4	59.1	59.1	59.1	59.1	59.1	59.1	59	58.9	59	59	59	59	44.2
32	48.4	50.1	47.8	46.4	59.2	59.2	59.1	59.1	59	59	59	59	59	59	59	59	44.1
31	48.4	50.1	47.8	46.4	59.2	59.2	59.1	59.1	59.1	59	59	59	59	59.1	59.1	59.1	44.2
30	48.4	50.1	47.9	46.5	59.2	59.2	59.1	59.1	59.1	59.1	59	59	59.1	59.1	59.1	59.1	44.2
29	48.4	50.1	47.9	46.5	59.2	59.2	59.1	59.1	59.1	59.1	59.1	59	59	59	59	59	44.2
28	48.5	50.2	47.9	46.6	59.2	59.2	59.1	59.1	59.1	59.1	59	59	59	59	59.1	59	44.2
27	48.4	50.1	47.9	46.6	59.2	59.2	59.1	59.2	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	44.3
26	48.5	50.2	47.9	46.6	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	44.2
25	48.5	50.1	47.9	46.7	59.3	59.3	59.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.3	59.2	44.3
24	48.4	50.2	47.9	46.7	59.4	59.4	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	44.3
23	48.1	50.1	47.9	46.7	59.4	59.4	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	44.3
22	REFUGE FLOOR (22/F)																
21	47.9	49.8	47.7	46.9	59.5	59.5	59.4	59.5	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	43.5
20	47.9	49.7	47.6	46.9	59.5	59.5	59.5	59.5	59.4	59.4	59.4	59.4	59.5	59.5	59.5	59.5	43.5
19	47.6	49.6	47.4	46.9	59.5	59.6	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	43.3
18	47.4	49.4	47.3	47	59.6	59.6	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	43.1
17	47.1	49.1	47.1	47	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.5	59.6	59.6	59.6	59.6	42.8
16	46.9	48.9	46.9	47	59.7	59.7	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	42.5
15	46.5	48.6	46.6	47	59.7	59.7	59.6	59.7	59.7	59.7	59.6	59.6	59.7	59.7	59.7	59.7	42.1
14	46.2	48.1	46.2	46.9	59.8	59.8	59.7	59.7	59.7	59.7	59.6	59.6	59.7	59.7	59.7	59.7	41.8
13	45.8	47.5	45.8	46.8	59.8	59.8	59.7	59.8	59.7	59.7	59.7	59.7	59.7	59.7	59.8	59.7	41.3
12	45.4	47	45.4	46.6	59.8	59.8	59.8	59.8	59.8	59.7	59.7	59.7	59.8	59.7	59.8	59.7	40.9
11	44.8	46.6	45.2	46.4	59.8	59.8	59.8	59.8	59.7	59.7	59.7	59.7	59.6	59.6	59.6	59.6	40.5
10	44.1	46	44.8	46.2	59.8	59.8	59.8	59.7	59.7	59.7	59.7	59.6	59.6	59.6	59.6	59.5	40.1
9	43	45.3	44.2	45.8	59.7	59.7	59.7	59.7	59.6	59.6	59.6	59.5	59.5	59.5	59.5	59.5	<40
8	41.1	44.3	43.5	45.3	59.6	59.6	59.5	59.5	59.4	59.4	59.3	59.3	59.2	59.2	59.2	59.2	<40
7	<40	43.3	42.6	44.7	59.3	59.3	59.2	59.1	59.1	59	58.9	58.9	58.9	58.9	58.8	58.8	<40
6	<40	42.4	42	44.2	58.9	58.8	58.7	58.7	58.6	58.6	58.5	58.4	58.3	58.3	58.3	58.3	<40
5	<40	41.9	41.6	43.9	58.2	58.2	58.1	58	58	57.9	57.7	57.7	57.7	57.7	57.6	57.6	<40
4	<40	41.6	41.4	43.5	57.1	57.1	56.9	56.9	56.8	56.7	56.5	56.5	56.6	56.6	56.5	56.5	<40

Min	<40	41.6	41.4	43.5	57.1	57.1	56.9	56.9	56.8	56.7	56.5	56.5	56.6	56.6	56.5	56.5	<40
Max	48.5	50.2	47.9	47	59.8	59.8	59.8	59.8	59.8	59.7	59.7	59.7	59.8	59.7	59.8	59.7	44.3

Project no: 276006-12
Project name: Po Shek Wu Road, Sheung Shui
Title: Rail Noise Assessment Result Summary - Leq Night-time

Night

NSR	R103f	R105b	R110a	R110b	R111b	R111c	R112a	R112b	R113b	R113c	R114a	R114b	R115b	R115c	R116a	R123b
ASR	B	B	B	B	B	B	B	B	B	B	B	B	B	B	C	C
Criteria	55	55	55	55	55	55	55	55	55	55	55	55	55	55	60	60
45	44.8	40.9	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.5	56.5	56.5	56.6	<40	45.7
44	44.9	40.8	56.5	56.4	56.5	56.5	56.4	56.4	56.5	56.5	56.5	56.5	56.6	56.6	<40	45.7
43	44.8	40.9	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.6	56.7	<40	45.8
42	44.9	40.9	56.5	56.5	56.5	56.5	56.5	56.5	56.6	56.6	56.6	56.6	56.7	56.7	<40	45.9
41	44.8	40.9	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.7	56.8	<40	45.8
40	44.9	40.9	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.7	56.7	56.8	56.8	<40	45.9
39	44.9	40.9	56.7	56.6	56.7	56.7	56.6	56.6	56.7	56.7	56.7	56.8	56.8	56.9	<40	45.9
38	44.9	40.9	56.7	56.7	56.7	56.7	56.6	56.6	56.7	56.7	56.8	56.8	56.9	56.9	<40	46
37	44.9	40.9	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.8	56.8	56.9	56.9	<40	46.1
36	45	41	56.8	56.7	56.8	56.8	56.7	56.7	56.8	56.8	56.8	56.8	56.9	56.9	<40	46.1
35	44.9	41	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9	57	57	<40	46.1
34	45	41	56.7	56.7	56.7	56.7	56.7	56.7	56.8	56.9	56.9	56.9	57	57.1	<40	46.2
33	45	41	56.7	56.7	56.7	56.7	56.7	56.8	56.8	56.9	56.9	57	57.1	57.1	<40	46.2
32	45	41	56.7	56.7	56.7	56.7	56.7	56.8	56.8	56.8	56.9	57	57.1	57.1	<40	46.3
31	45	41.1	56.7	56.7	56.7	56.7	56.7	56.8	56.8	56.8	56.9	56.9	57.1	57.2	<40	46.3
30	45	41	56.7	56.7	56.7	56.7	56.7	56.8	56.8	56.8	56.9	56.9	57.1	57.1	<40	46.4
29	45	41.1	56.6	56.6	56.6	56.6	56.6	56.7	56.8	56.8	56.9	56.9	57.1	57.1	<40	46.4
28	45	41	56.6	56.6	56.6	56.6	56.6	56.6	56.7	56.8	56.9	56.9	57	57.1	<40	46.5
27	45	41.1	56.6	56.6	56.6	56.6	56.6	56.6	56.7	56.7	56.8	56.9	57	57.1	<40	46.5
26	45.1	41.1	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.8	56.9	57	57.1	<40	46.6
25	45	41.1	56.7	56.7	56.7	56.7	56.7	56.8	56.8	56.8	56.9	56.9	57	57.1	<40	46.6
24	45	41.1	56.8	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9	57.1	57.2	<40	46.6
23	45	41.1	56.7	56.7	56.8	56.8	56.8	56.8	56.8	56.9	56.9	57	57.1	57.2	<40	46.7
22	REFUGE FLOOR (22/F)															
21	44.9	41.1	56.7	56.7	56.8	56.7	56.7	56.8	56.8	56.8	57	57	57.1	57.2	<40	46.8
20	44.8	41.1	56.8	56.7	56.8	56.8	56.7	56.8	56.8	56.8	56.9	57	57.1	57.2	<40	46.7
19	44.6	41	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	57	57.1	57.2	<40	46.6
18	44.4	40.9	56.7	56.7	56.7	56.8	56.8	56.8	56.8	56.9	56.9	57	57.2	57.2	<40	46.6
17	44.3	40.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9	56.9	57	57.2	57.2	<40	46.7
16	44.1	40.7	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9	57	57	57.2	57.2	<40	46.6
15	43.9	40.4	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9	57	57	57.1	57.2	<40	46.5
14	43.5	40.2	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	57	57	57.1	57.2	<40	46.3
13	43.1	<40	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	57	57	57.1	57.2	<40	46.3
12	42.7	<40	56.8	56.8	56.8	56.8	56.7	56.8	56.8	56.9	57	57	57.1	57.2	<40	46.1
11	42	<40	56.5	56.5	56.5	56.5	56.4	56.4	56.5	56.6	56.7	56.8	57	57.1	<40	46
10	40.8	<40	56.5	56.4	56.4	56.4	56.2	56.3	56.3	56.3	56.4	56.5	56.7	56.8	<40	45.9
9	<40	<40	56.3	56.3	56.2	56.2	56	56	56.1	56.1	56.2	56.3	56.5	56.6	<40	45.7
8	<40	<40	55.9	55.9	55.8	55.8	55.6	55.7	55.7	55.8	55.9	56	56.3	56.3	<40	45.4
7	<40	<40	55.5	55.5	55.4	55.3	55.2	55.2	55.3	55.4	55.5	55.6	55.8	56	<40	44.5
6	<40	<40	54.9	54.9	54.8	54.8	54.6	54.7	54.8	54.8	55	55.1	55.4	55.5	<40	43.3
5	<40	<40	54.2	54.2	54.1	54.1	53.9	54.1	54.2	54.3	54.4	54.6	54.9	55	<40	42.7
4	<40	<40	53.1	53	53	53	52.9	53	53.2	53.4	53.5	53.7	54.2	54.5	<40	42.2

Min	<40	<40	53.1	53.0	53.0	53.0	52.9	53.0	53.2	53.4	53.5	53.7	54.2	54.5	<40	42.2
Max	45.1	41.1	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9	57.0	57.0	57.2	57.2	<40	46.8

Project no: 276006-12
Project name: Po Shek Wu Road, Sheung Shui
Title: Rail Noise Assessment Result Summary - Leq Night-time

Night

NSR	R201a	R204f	R205a	R212d	R213a	R213b	R214b	R214c	R215a	R215b	R216b	R216c	R217a	R217b	R218b	R218c	R223c
ASR	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Criteria	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
45	45.2	46.9	44.7	43.8	56.5	56.5	56.4	56.5	56.4	56.4	56.4	56.4	56.4	56.4	56.5	56.4	41.2
44	45.3	46.9	44.7	43.9	56.5	56.5	56.5	56.5	56.5	56.5	56.4	56.4	56.5	56.5	56.5	56.5	41.2
43	45.2	46.9	44.7	43.9	56.6	56.6	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	41.2
42	45.3	46.9	44.7	43.9	56.6	56.6	56.6	56.6	56.6	56.5	56.5	56.5	56.5	56.5	56.5	56.5	41.2
41	45.2	46.9	44.7	43.9	56.6	56.7	56.6	56.6	56.6	56.6	56.5	56.5	56.6	56.6	56.6	56.6	41.2
40	45.3	46.9	44.7	43.9	56.7	56.7	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	41.2
39	45.3	46.9	44.7	43.9	56.7	56.7	56.7	56.7	56.7	56.6	56.6	56.6	56.7	56.7	56.7	56.7	41.2
38	45.3	46.9	44.7	43.9	56.8	56.8	56.7	56.7	56.7	56.7	56.6	56.6	56.7	56.7	56.7	56.7	41.3
37	45.3	46.9	44.7	43.9	56.8	56.8	56.8	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	41.2
36	45.4	47	44.8	43.9	56.8	56.8	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.8	56.8	41.3
35	45.4	47	44.8	43.8	56.8	56.8	56.8	56.8	56.8	56.8	56.7	56.7	56.8	56.8	56.8	56.8	41.3
34	45.4	47	44.8	43.8	56.9	56.9	56.8	56.8	56.8	56.8	56.7	56.7	56.7	56.7	56.7	56.7	41.3
33	45.4	47	44.8	43.8	56.9	56.9	56.8	56.8	56.8	56.8	56.7	56.7	56.7	56.7	56.8	56.7	41.3
32	45.4	47	44.9	43.8	56.9	56.9	56.8	56.8	56.8	56.7	56.7	56.7	56.7	56.7	56.7	56.7	41.3
31	45.4	47	44.9	43.8	56.9	56.9	56.8	56.8	56.7	56.7	56.7	56.6	56.7	56.7	56.7	56.7	41.3
30	45.4	47	44.9	43.8	56.9	56.9	56.8	56.7	56.7	56.7	56.6	56.6	56.7	56.7	56.7	56.7	41.3
29	45.4	47	44.9	43.8	56.8	56.8	56.7	56.7	56.7	56.7	56.6	56.6	56.6	56.6	56.6	56.6	41.3
28	45.4	47.1	44.9	43.8	56.8	56.8	56.7	56.7	56.6	56.6	56.6	56.5	56.6	56.6	56.6	56.6	41.3
27	45.4	47	44.9	43.8	56.8	56.7	56.6	56.7	56.6	56.6	56.6	56.6	56.6	56.6	56.7	56.6	41.3
26	45.4	47.1	45	43.9	56.7	56.7	56.7	56.7	56.7	56.6	56.6	56.7	56.7	56.7	56.7	56.7	41.3
25	45.4	47	44.9	43.9	56.8	56.8	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	41.3
24	45.3	47.1	45	43.9	56.8	56.8	56.7	56.7	56.7	56.7	56.7	56.7	56.8	56.7	56.8	56.8	41.3
23	45	47	44.9	43.9	56.9	56.9	56.7	56.7	56.7	56.7	56.7	56.7	56.8	56.8	56.8	56.8	41.3
22	REFUGE FLOOR (22/F)																
21	44.8	46.8	44.8	43.9	56.8	56.8	56.8	56.8	56.7	56.7	56.7	56.7	56.7	56.7	56.8	56.8	40.5
20	44.6	46.7	44.7	43.9	56.8	56.8	56.8	56.8	56.7	56.7	56.7	56.7	56.8	56.8	56.8	56.8	40.4
19	44.4	46.5	44.5	44	56.8	56.8	56.8	56.7	56.7	56.7	56.7	56.7	56.8	56.8	56.8	56.8	40.1
18	44.1	46.4	44.4	44	56.8	56.8	56.8	56.8	56.7	56.7	56.7	56.7	56.8	56.8	56.8	56.8	<40
17	43.9	46.1	44.2	44	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.7	56.8	56.8	56.8	56.8	<40
16	43.7	46	44.1	44	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.7	56.8	56.8	56.8	56.8	<40
15	43.3	45.7	43.9	44	56.8	56.8	56.8	56.8	56.8	56.8	56.7	56.7	56.8	56.8	56.8	56.8	<40
14	42.9	45.3	43.6	44	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9	56.9	<40
13	42.5	44.8	43.2	43.9	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9	56.9	56.9	<40
12	42.1	44.3	43	43.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.8	<40
11	41.5	44	42.8	43.6	56.8	56.8	56.8	56.8	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	<40
10	40.9	43.5	42.4	43.3	56.7	56.7	56.7	56.7	56.6	56.7	56.7	56.6	56.6	56.6	56.6	56.6	<40
9	<40	42.9	41.9	43	56.6	56.6	56.6	56.6	56.6	56.6	56.5	56.5	56.5	56.5	56.5	56.5	<40
8	<40	42	41.2	42.7	56.5	56.5	56.4	56.4	56.3	56.3	56.2	56.2	56.2	56.2	56.1	56.1	<40
7	<40	40.9	40.4	42.2	56.1	56.1	56	56	56	55.9	55.8	55.8	55.9	55.8	55.8	55.7	<40
6	<40	40.1	<40	41.9	55.7	55.6	55.6	55.5	55.5	55.4	55.4	55.3	55.3	55.3	55.2	55.2	<40
5	<40	<40	<40	41.6	55	55	54.9	54.8	54.8	54.8	54.6	54.6	54.6	54.6	54.5	54.5	<40
4	<40	<40	<40	41.3	53.9	53.9	53.8	53.8	53.7	53.6	53.4	53.4	53.5	53.5	53.4	53.4	<40

Min	<40	<40	<40	41.3	53.9	53.9	53.8	53.8	53.7	53.6	53.4	53.4	53.5	53.5	53.4	53.4	<40
Max	45.4	47.1	45	44	56.9	56.9	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9	56.9	56.9	41.3

Appendix 5.5

Calculation of Noise Attenuation for Enhanced Acoustic Balcony (Railway noise)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R110a	4	53.1	N/A	19.9	Y	-	N/A
	5	54.2	N/A	21.9	Y	-	N/A
	6	54.9	N/A	23.9	Y	-	N/A
	7	55.5	II	25.8	Y	15.3	40.2
	8	55.9	II	27.7	Y	15.3	40.6
	9	56.3	II	29.5	Y	15.3	41.0
	10	56.5	II	31.2	Y	15.3	41.2
	11	56.5	II	32.9	Y	15.3	41.2
	12	56.8	II	34.5	Y	15.3	41.5
	13	56.8	II	36.0	Y	15.3	41.5
	14	56.8	II	37.5	Y	15.3	41.5
	15	56.8	II	38.9	Y	15.3	41.5
	16	56.8	II	40.3	Y	15.3	41.5
	17	56.8	II	41.6	Y	15.3	41.5
	18	56.7	II	42.9	Y	15.3	41.4
	19	56.8	II	44.1	Y	15.3	41.5
	20	56.8	II	45.3	Z	16.1	40.7
	21	56.7	II	46.4	Z	16.1	40.6
	22	-	-	-	-	-	-
	23	56.7	II	49.2	Z	16.1	40.6
	24	56.8	II	50.2	Z	16.1	40.7
	25	56.7	II	51.1	Z	16.1	40.6
	26	56.7	II	52.0	Z	16.1	40.6
	27	56.6	II	52.9	Z	16.1	40.5
	28	56.6	II	53.7	Z	16.1	40.5
	29	56.6	II	54.5	Z	16.1	40.5
	30	56.7	II	55.3	Z	16.1	40.6
	31	56.7	II	56.0	Z	16.1	40.6
	32	56.7	II	56.7	Z	16.1	40.6
	33	56.7	II	57.4	Z	16.1	40.6
	34	56.7	II	58.1	Z	16.1	40.6
	35	56.8	II	58.7	Z	16.1	40.7
	36	56.8	II	59.3	Z	16.1	40.7
	37	56.7	II	59.9	Z	16.1	40.6
	38	56.7	II	60.5	Z	16.1	40.6
	39	56.7	II	61.0	Z	16.1	40.6
	40	56.6	II	61.6	Z	16.1	40.5
	41	56.6	II	62.1	Z	16.1	40.5
	42	56.5	II	62.6	Z	16.1	40.4
	43	56.5	II	63.1	Z	16.1	40.4
	44	56.5	II	63.5	Z	16.1	40.4
	45	56.4	II	64.0	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R110b	4	53.0	N/A	19.9	Y	-	N/A
	5	54.2	N/A	21.9	Y	-	N/A
	6	54.9	N/A	23.9	Y	-	N/A
	7	55.5	II	25.8	Y	15.3	40.2
	8	55.9	II	27.7	Y	15.3	40.6
	9	56.3	II	29.5	Y	15.3	41.0
	10	56.4	II	31.2	Y	15.3	41.1
	11	56.5	II	32.9	Y	15.3	41.2
	12	56.8	II	34.5	Y	15.3	41.5
	13	56.8	II	36.0	Y	15.3	41.5
	14	56.8	II	37.5	Y	15.3	41.5
	15	56.8	II	39.0	Y	15.3	41.5
	16	56.8	II	40.3	Y	15.3	41.5
	17	56.8	II	41.7	Y	15.3	41.5
	18	56.7	II	42.9	Y	15.3	41.4
	19	56.8	II	44.2	Y	15.3	41.5
	20	56.7	II	45.3	Z	16.1	40.6
	21	56.7	II	46.5	Z	16.1	40.6
	22	-	-	-	-	-	-
	23	56.7	II	49.2	Z	16.1	40.6
	24	56.7	II	50.2	Z	16.1	40.6
	25	56.7	II	51.1	Z	16.1	40.6
	26	56.7	II	52.0	Z	16.1	40.6
	27	56.6	II	52.9	Z	16.1	40.5
	28	56.6	II	53.7	Z	16.1	40.5
	29	56.6	II	54.5	Z	16.1	40.5
	30	56.7	II	55.3	Z	16.1	40.6
	31	56.7	II	56.0	Z	16.1	40.6
	32	56.7	II	56.7	Z	16.1	40.6
	33	56.7	II	57.4	Z	16.1	40.6
	34	56.7	II	58.1	Z	16.1	40.6
	35	56.8	II	58.7	Z	16.1	40.7
	36	56.7	II	59.3	Z	16.1	40.6
	37	56.7	II	59.9	Z	16.1	40.6
	38	56.7	II	60.5	Z	16.1	40.6
	39	56.6	II	61.1	Z	16.1	40.5
	40	56.6	II	61.6	Z	16.1	40.5
	41	56.6	II	62.1	Z	16.1	40.5
	42	56.5	II	62.6	Z	16.1	40.4
	43	56.5	II	63.1	Z	16.1	40.4
	44	56.4	II	63.6	Z	16.1	40.3
	45	56.4	II	64.0	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)

Acoustic Balcony Type II: with acoustic lining (wall and ceiling)

Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R111b	4	53.0	N/A	19.9	Y	-	N/A
	5	54.1	N/A	21.9	Y	-	N/A
	6	54.8	N/A	23.9	Y	-	N/A
	7	55.4	N/A	25.8	Y	-	N/A
	8	55.8	II	27.7	Y	15.3	40.5
	9	56.2	II	29.5	Y	15.3	40.9
	10	56.4	II	31.2	Y	15.3	41.1
	11	56.5	II	32.9	Y	15.3	41.2
	12	56.8	II	34.5	Y	15.3	41.5
	13	56.8	II	36.0	Y	15.3	41.5
	14	56.8	II	37.5	Y	15.3	41.5
	15	56.8	II	39.0	Y	15.3	41.5
	16	56.8	II	40.3	Y	15.3	41.5
	17	56.8	II	41.7	Y	15.3	41.5
	18	56.7	II	42.9	Y	15.3	41.4
	19	56.8	II	44.2	Y	15.3	41.5
	20	56.8	II	45.3	Z	16.1	40.7
	21	56.8	II	46.5	Z	16.1	40.7
	22	-	-	-	-	-	-
	23	56.8	II	49.2	Z	16.1	40.7
	24	56.8	II	50.2	Z	16.1	40.7
	25	56.7	II	51.1	Z	16.1	40.6
	26	56.7	II	52.0	Z	16.1	40.6
	27	56.6	II	52.9	Z	16.1	40.5
	28	56.6	II	53.7	Z	16.1	40.5
	29	56.6	II	54.5	Z	16.1	40.5
	30	56.7	II	55.3	Z	16.1	40.6
	31	56.7	II	56.0	Z	16.1	40.6
	32	56.7	II	56.7	Z	16.1	40.6
	33	56.7	II	57.4	Z	16.1	40.6
	34	56.7	II	58.1	Z	16.1	40.6
	35	56.8	II	58.7	Z	16.1	40.7
	36	56.8	II	59.3	Z	16.1	40.7
	37	56.7	II	59.9	Z	16.1	40.6
	38	56.7	II	60.5	Z	16.1	40.6
	39	56.7	II	61.1	Z	16.1	40.6
	40	56.6	II	61.6	Z	16.1	40.5
	41	56.6	II	62.1	Z	16.1	40.5
	42	56.5	II	62.6	Z	16.1	40.4
	43	56.5	II	63.1	Z	16.1	40.4
	44	56.5	II	63.6	Z	16.1	40.4
	45	56.4	II	64.0	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R111c	4	53.0	N/A	19.9	Y	-	N/A
	5	54.1	N/A	21.9	Y	-	N/A
	6	54.8	N/A	23.9	Y	-	N/A
	7	55.3	N/A	25.8	Y	-	N/A
	8	55.8	II	27.7	Y	15.3	40.5
	9	56.2	II	29.5	Y	15.3	40.9
	10	56.4	II	31.2	Y	15.3	41.1
	11	56.5	II	32.9	Y	15.3	41.2
	12	56.8	II	34.5	Y	15.3	41.5
	13	56.8	II	36.0	Y	15.3	41.5
	14	56.8	II	37.5	Y	15.3	41.5
	15	56.8	II	38.9	Y	15.3	41.5
	16	56.8	II	40.3	Y	15.3	41.5
	17	56.8	II	41.6	Y	15.3	41.5
	18	56.8	II	42.9	Y	15.3	41.5
	19	56.8	II	44.1	Y	15.3	41.5
	20	56.8	II	45.3	Z	16.1	40.7
	21	56.7	II	46.4	Z	16.1	40.6
	22	-	-	-	-	-	-
	23	56.8	II	49.2	Z	16.1	40.7
	24	56.8	II	50.2	Z	16.1	40.7
	25	56.7	II	51.1	Z	16.1	40.6
	26	56.7	II	52.0	Z	16.1	40.6
	27	56.6	II	52.9	Z	16.1	40.5
	28	56.6	II	53.7	Z	16.1	40.5
	29	56.6	II	54.5	Z	16.1	40.5
	30	56.7	II	55.3	Z	16.1	40.6
	31	56.7	II	56.0	Z	16.1	40.6
	32	56.7	II	56.7	Z	16.1	40.6
	33	56.7	II	57.4	Z	16.1	40.6
	34	56.7	II	58.1	Z	16.1	40.6
	35	56.8	II	58.7	Z	16.1	40.7
	36	56.8	II	59.3	Z	16.1	40.7
	37	56.7	II	59.9	Z	16.1	40.6
	38	56.7	II	60.5	Z	16.1	40.6
	39	56.7	II	61.0	Z	16.1	40.6
	40	56.6	II	61.6	Z	16.1	40.5
	41	56.6	II	62.1	Z	16.1	40.5
	42	56.5	II	62.6	Z	16.1	40.4
	43	56.5	II	63.1	Z	16.1	40.4
	44	56.5	II	63.5	Z	16.1	40.4
	45	56.4	II	64.0	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)

Acoustic Balcony Type II: with acoustic lining (wall and ceiling)

Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R112a	4	52.9	N/A	20.0	Y	-	N/A
	5	53.9	N/A	22.0	Y	-	N/A
	6	54.6	N/A	24.0	Y	-	N/A
	7	55.2	N/A	25.9	Y	-	N/A
	8	55.6	II	27.8	Y	15.3	40.3
	9	56.0	II	29.6	Y	15.3	40.7
	10	56.2	II	31.3	Y	15.3	40.9
	11	56.4	II	33.0	Y	15.3	41.1
	12	56.7	II	34.6	Y	15.3	41.4
	13	56.8	II	36.1	Y	15.3	41.5
	14	56.8	II	37.6	Y	15.3	41.5
	15	56.8	II	39.1	Y	15.3	41.5
	16	56.8	II	40.4	Y	15.3	41.5
	17	56.8	II	41.8	Y	15.3	41.5
	18	56.8	II	43.0	Y	15.3	41.5
	19	56.8	II	44.3	Y	15.3	41.5
	20	56.7	II	45.4	Z	16.1	40.6
	21	56.7	II	46.6	Z	16.1	40.6
	22	-	-	-	-	-	-
	23	56.8	II	49.3	Z	16.1	40.7
	24	56.8	II	50.3	Z	16.1	40.7
	25	56.7	II	51.2	Z	16.1	40.6
	26	56.7	II	52.1	Z	16.1	40.6
	27	56.6	II	53.0	Z	16.1	40.5
	28	56.6	II	53.8	Z	16.1	40.5
	29	56.6	II	54.6	Z	16.1	40.5
	30	56.7	II	55.4	Z	16.1	40.6
	31	56.7	II	56.1	Z	16.1	40.6
	32	56.7	II	56.8	Z	16.1	40.6
	33	56.7	II	57.5	Z	16.1	40.6
	34	56.7	II	58.2	Z	16.1	40.6
	35	56.8	II	58.8	Z	16.1	40.7
	36	56.7	II	59.4	Z	16.1	40.6
	37	56.7	II	60.0	Z	16.1	40.6
	38	56.6	II	60.6	Z	16.1	40.5
	39	56.6	II	61.1	Z	16.1	40.5
	40	56.6	II	61.7	Z	16.1	40.5
	41	56.6	II	62.2	Z	16.1	40.5
	42	56.5	II	62.7	Z	16.1	40.4
	43	56.5	II	63.2	Z	16.1	40.4
	44	56.4	II	63.6	Z	16.1	40.3
	45	56.4	II	64.1	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R112b	4	53.0	N/A	20.1	Y	-	N/A
	5	54.1	N/A	22.1	Y	-	N/A
	6	54.7	N/A	24.1	Y	-	N/A
	7	55.2	N/A	26.0	Y	-	N/A
	8	55.7	II	27.9	Y	15.3	40.4
	9	56.0	II	29.7	Y	15.3	40.7
	10	56.3	II	31.4	Y	15.3	41.0
	11	56.4	II	33.1	Y	15.3	41.1
	12	56.8	II	34.7	Y	15.3	41.5
	13	56.8	II	36.3	Y	15.3	41.5
	14	56.8	II	37.8	Y	15.3	41.5
	15	56.8	II	39.2	Y	15.3	41.5
	16	56.8	II	40.6	Y	15.3	41.5
	17	56.8	II	41.9	Y	15.3	41.5
	18	56.8	II	43.2	Y	15.3	41.5
	19	56.8	II	44.4	Y	15.3	41.5
	20	56.8	II	45.6	Z	16.1	40.7
	21	56.8	II	46.7	Z	16.1	40.7
	22	-	-	-	-	-	-
	23	56.8	II	49.4	Z	16.1	40.7
	24	56.8	II	50.4	Z	16.1	40.7
	25	56.8	II	51.4	Z	16.1	40.7
	26	56.7	II	52.2	Z	16.1	40.6
	27	56.6	II	53.1	Z	16.1	40.5
	28	56.6	II	53.9	Z	16.1	40.5
	29	56.7	II	54.7	Z	16.1	40.6
	30	56.8	II	55.5	Z	16.1	40.7
	31	56.8	II	56.2	Z	16.1	40.7
	32	56.8	II	57.0	Z	16.1	40.7
	33	56.8	II	57.6	Z	16.1	40.7
	34	56.7	II	58.3	Z	16.1	40.6
	35	56.8	II	58.9	Z	16.1	40.7
	36	56.7	II	59.5	Z	16.1	40.6
	37	56.7	II	60.1	Z	16.1	40.6
	38	56.6	II	60.7	Z	16.1	40.5
	39	56.6	II	61.3	Z	16.1	40.5
	40	56.6	II	61.8	Z	16.1	40.5
	41	56.6	II	62.3	Z	16.1	40.5
	42	56.5	II	62.8	Z	16.1	40.4
	43	56.5	II	63.3	Z	16.1	40.4
	44	56.4	II	63.8	Z	16.1	40.3
	45	56.4	II	64.2	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R113b	4	53.2	N/A	20.3	Y	-	N/A
	5	54.2	N/A	22.4	Y	-	N/A
	6	54.8	N/A	24.4	Y	-	N/A
	7	55.3	N/A	26.3	Y	-	N/A
	8	55.7	II	28.2	Y	15.3	40.4
	9	56.1	II	30.0	Y	15.3	40.8
	10	56.3	II	31.8	Y	15.3	41.0
	11	56.5	II	33.5	Y	15.3	41.2
	12	56.8	II	35.1	Y	15.3	41.5
	13	56.8	II	36.6	Y	15.3	41.5
	14	56.8	II	38.2	Y	15.3	41.5
	15	56.9	II	39.6	Y	15.3	41.6
	16	56.9	II	41.0	Y	15.3	41.6
	17	56.9	II	42.3	Y	15.3	41.6
	18	56.8	II	43.6	Y	15.3	41.5
	19	56.8	II	44.8	Y	15.3	41.5
	20	56.8	II	46.0	Z	16.1	40.7
	21	56.8	II	47.1	Z	16.1	40.7
	22	-	-	-	-	-	-
	23	56.8	II	49.8	Z	16.1	40.7
	24	56.8	II	50.8	Z	16.1	40.7
	25	56.8	II	51.7	Z	16.1	40.7
	26	56.7	II	52.6	Z	16.1	40.6
	27	56.7	II	53.5	Z	16.1	40.6
	28	56.7	II	54.3	Z	16.1	40.6
	29	56.8	II	55.1	Z	16.1	40.7
	30	56.8	II	55.9	Z	16.1	40.7
	31	56.8	II	56.6	Z	16.1	40.7
	32	56.8	II	57.3	Z	16.1	40.7
	33	56.8	II	58.0	Z	16.1	40.7
	34	56.8	II	58.7	Z	16.1	40.7
	35	56.8	II	59.3	Z	16.1	40.7
	36	56.8	II	59.9	Z	16.1	40.7
	37	56.7	II	60.5	Z	16.1	40.6
	38	56.7	II	61.0	Z	16.1	40.6
	39	56.7	II	61.6	Z	16.1	40.6
	40	56.6	II	62.1	Z	16.1	40.5
	41	56.6	II	62.6	Z	16.1	40.5
	42	56.6	II	63.1	Z	16.1	40.5
	43	56.5	II	63.6	Z	16.1	40.4
	44	56.5	II	64.1	Z	16.1	40.4
	45	56.4	II	64.5	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R113c	4	53.4	N/A	20.4	Y	-	N/A
	5	54.3	N/A	22.5	Y	-	N/A
	6	54.8	N/A	24.5	Y	-	N/A
	7	55.4	N/A	26.4	Y	-	N/A
	8	55.8	II	28.3	Y	15.3	40.5
	9	56.1	II	30.2	Y	15.3	40.8
	10	56.3	II	31.9	Y	15.3	41.0
	11	56.6	II	33.6	Y	15.3	41.3
	12	56.9	II	35.2	Y	15.3	41.6
	13	56.9	II	36.8	Y	15.3	41.6
	14	56.9	II	38.3	Y	15.3	41.6
	15	56.9	II	39.7	Y	15.3	41.6
	16	56.9	II	41.1	Y	15.3	41.6
	17	56.9	II	42.4	Y	15.3	41.6
	18	56.9	II	43.7	Y	15.3	41.6
	19	56.8	II	44.9	Y	15.3	41.5
	20	56.8	II	46.1	Z	16.1	40.7
	21	56.8	II	47.2	Z	16.1	40.7
	22	-	-	-	-	-	-
	23	56.9	II	50.0	Z	16.1	40.8
	24	56.8	II	51.0	Z	16.1	40.7
	25	56.8	II	51.9	Z	16.1	40.7
	26	56.7	II	52.8	Z	16.1	40.6
	27	56.7	II	53.6	Z	16.1	40.6
	28	56.8	II	54.5	Z	16.1	40.7
	29	56.8	II	55.2	Z	16.1	40.7
	30	56.8	II	56.0	Z	16.1	40.7
	31	56.8	II	56.7	Z	16.1	40.7
	32	56.8	II	57.4	Z	16.1	40.7
	33	56.9	II	58.1	Z	16.1	40.8
	34	56.9	II	58.8	Z	16.1	40.8
	35	56.8	II	59.4	Z	16.1	40.7
	36	56.8	II	60.0	Z	16.1	40.7
	37	56.7	II	60.6	Z	16.1	40.6
	38	56.7	II	61.2	Z	16.1	40.6
	39	56.7	II	61.7	Z	16.1	40.6
	40	56.6	II	62.2	Z	16.1	40.5
	41	56.6	II	62.8	Z	16.1	40.5
	42	56.6	II	63.2	Z	16.1	40.5
	43	56.5	II	63.7	Z	16.1	40.4
	44	56.5	II	64.2	Z	16.1	40.4
	45	56.4	II	64.6	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R114a	4	53.5	N/A	20.6	Y	-	N/A
	5	54.4	N/A	22.7	Y	-	N/A
	6	55.0	N/A	24.7	Y	-	N/A
	7	55.5	II	26.6	Y	15.3	40.2
	8	55.9	II	28.5	Y	15.3	40.6
	9	56.2	II	30.4	Y	15.3	40.9
	10	56.4	II	32.1	Y	15.3	41.1
	11	56.7	II	33.8	Y	15.3	41.4
	12	57.0	II	35.4	Y	15.3	41.7
	13	57.0	II	37.0	Y	15.3	41.7
	14	57.0	II	38.5	Y	15.3	41.7
	15	57.0	II	40.0	Y	15.3	41.7
	16	57.0	II	41.3	Y	15.3	41.7
	17	56.9	II	42.7	Y	15.3	41.6
	18	56.9	II	44.0	Y	15.3	41.6
	19	56.9	II	45.2	Z	16.1	40.8
	20	56.9	II	46.3	Z	16.1	40.8
	21	57.0	II	47.5	Z	16.1	40.9
	22	-	-	-	-	-	-
	23	56.9	II	50.2	Z	16.1	40.8
	24	56.9	II	51.2	Z	16.1	40.8
	25	56.9	II	52.1	Z	16.1	40.8
	26	56.8	II	53.0	Z	16.1	40.7
	27	56.8	II	53.9	Z	16.1	40.7
	28	56.9	II	54.7	Z	16.1	40.8
	29	56.9	II	55.5	Z	16.1	40.8
	30	56.9	II	56.2	Z	16.1	40.8
	31	56.9	II	57.0	Z	16.1	40.8
	32	56.9	II	57.7	Z	16.1	40.8
	33	56.9	II	58.3	Z	16.1	40.8
	34	56.9	II	59.0	Z	16.1	40.8
	35	56.9	II	59.6	Z	16.1	40.8
	36	56.8	II	60.2	Z	16.1	40.7
	37	56.8	II	60.8	Z	16.1	40.7
	38	56.8	II	61.4	Z	16.1	40.7
	39	56.7	II	61.9	Z	16.1	40.6
	40	56.7	II	62.4	Z	16.1	40.6
	41	56.6	II	62.9	Z	16.1	40.5
	42	56.6	II	63.4	Z	16.1	40.5
	43	56.5	II	63.9	Z	16.1	40.4
	44	56.5	II	64.4	Z	16.1	40.4
	45	56.5	II	64.8	Z	16.1	40.4

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R114b	4	53.7	N/A	20.7	Y	-	N/A
	5	54.6	N/A	22.8	Y	-	N/A
	6	55.1	N/A	24.8	Y	-	N/A
	7	55.6	II	26.8	Y	15.3	40.3
	8	56.0	II	28.7	Y	15.3	40.7
	9	56.3	II	30.5	Y	15.3	41.0
	10	56.5	II	32.3	Y	15.3	41.2
	11	56.8	II	34.0	Y	15.3	41.5
	12	57.0	II	35.6	Y	15.3	41.7
	13	57.0	II	37.2	Y	15.3	41.7
	14	57.0	II	38.7	Y	15.3	41.7
	15	57.0	II	40.1	Y	15.3	41.7
	16	57.0	II	41.5	Y	15.3	41.7
	17	57.0	II	42.9	Y	15.3	41.7
	18	57.0	II	44.1	Y	15.3	41.7
	19	57.0	II	45.4	Z	16.1	40.9
	20	57.0	II	46.5	Z	16.1	40.9
	21	57.0	II	47.6	Z	16.1	40.9
	22	-	-	-	-	-	-
	23	57.0	II	50.4	Z	16.1	40.9
	24	56.9	II	51.4	Z	16.1	40.8
	25	56.9	II	52.3	Z	16.1	40.8
	26	56.9	II	53.2	Z	16.1	40.8
	27	56.9	II	54.0	Z	16.1	40.8
	28	56.9	II	54.8	Z	16.1	40.8
	29	56.9	II	55.6	Z	16.1	40.8
	30	56.9	II	56.4	Z	16.1	40.8
	31	56.9	II	57.1	Z	16.1	40.8
	32	57.0	II	57.8	Z	16.1	40.9
	33	57.0	II	58.5	Z	16.1	40.9
	34	56.9	II	59.1	Z	16.1	40.8
	35	56.9	II	59.8	Z	16.1	40.8
	36	56.8	II	60.4	Z	16.1	40.7
	37	56.8	II	61.0	Z	16.1	40.7
	38	56.8	II	61.5	Z	16.1	40.7
	39	56.8	II	62.1	Z	16.1	40.7
	40	56.7	II	62.6	Z	16.1	40.6
	41	56.6	II	63.1	Z	16.1	40.5
	42	56.6	II	63.6	Z	16.1	40.5
	43	56.5	II	64.0	Z	16.1	40.4
	44	56.5	II	64.5	Z	16.1	40.4
	45	56.5	II	64.9	Z	16.1	40.4

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R115b	4	54.2	N/A	20.9	Y	-	N/A
	5	54.9	N/A	23.1	Y	-	N/A
	6	55.4	IV	25.1	Y	13.6	41.8
	7	55.8	IV	27.1	Y	13.6	42.2
	8	56.3	IV	29.0	Y	13.6	42.7
	9	56.5	IV	30.8	Y	13.6	42.9
	10	56.7	IV	32.6	Y	13.6	43.1
	11	57.0	IV	34.3	Y	13.6	43.4
	12	57.1	IV	36.0	Y	13.6	43.5
	13	57.1	IV	37.5	Y	13.6	43.5
	14	57.1	IV	39.1	Y	13.6	43.5
	15	57.1	IV	40.5	Y	13.6	43.5
	16	57.2	IV	41.9	Y	13.6	43.6
	17	57.2	II	43.2	Y	15.3	41.9
	18	57.2	II	44.5	Y	15.3	41.9
	19	57.1	II	45.7	Z	16.1	41.0
	20	57.1	II	46.9	Z	16.1	41.0
	21	57.1	II	48.0	Z	16.1	41.0
	22	-	-	-	-	-	-
	23	57.1	II	50.8	Z	16.1	41.0
	24	57.1	II	51.7	Z	16.1	41.0
	25	57.0	II	52.6	Z	16.1	40.9
	26	57.0	II	53.5	Z	16.1	40.9
	27	57.0	II	54.4	Z	16.1	40.9
	28	57.0	II	55.2	Z	16.1	40.9
	29	57.1	II	56.0	Z	16.1	41.0
	30	57.1	II	56.7	Z	16.1	41.0
	31	57.1	II	57.5	Z	16.1	41.0
	32	57.1	II	58.2	Z	16.1	41.0
	33	57.1	II	58.8	Z	16.1	41.0
	34	57.0	II	59.5	Z	16.1	40.9
	35	57.0	II	60.1	Z	16.1	40.9
	36	56.9	II	60.7	Z	16.1	40.8
	37	56.9	II	61.3	Z	16.1	40.8
	38	56.9	II	61.8	Z	16.1	40.8
	39	56.8	II	62.4	Z	16.1	40.7
	40	56.8	II	62.9	Z	16.1	40.7
	41	56.7	II	63.4	Z	16.1	40.6
	42	56.7	II	63.9	Z	16.1	40.6
	43	56.6	II	64.3	Z	16.1	40.5
	44	56.6	II	64.8	Z	16.1	40.5
	45	56.5	II	65.2	Z	16.1	40.4

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R115c	4	54.5	N/A	21.1	Y	-	N/A
	5	55.0	N/A	23.2	Y	-	N/A
	6	55.5	IV	25.2	Y	13.6	41.9
	7	56.0	IV	27.2	Y	13.6	42.4
	8	56.3	IV	29.2	Y	13.6	42.7
	9	56.6	IV	31.0	Y	13.6	43.0
	10	56.8	IV	32.8	Y	13.6	43.2
	11	57.1	IV	34.5	Y	13.6	43.5
	12	57.2	IV	36.1	Y	13.6	43.6
	13	57.2	IV	37.7	Y	13.6	43.6
	14	57.2	IV	39.2	Y	13.6	43.6
	15	57.2	IV	40.7	Y	13.6	43.6
	16	57.2	IV	42.1	Y	13.6	43.6
	17	57.2	II	43.4	Y	15.3	41.9
	18	57.2	II	44.7	Y	15.3	41.9
	19	57.2	II	45.9	Z	16.1	41.1
	20	57.2	II	47.1	Z	16.1	41.1
	21	57.2	II	48.2	Z	16.1	41.1
	22	-	-	-	-	-	-
	23	57.2	II	50.9	Z	16.1	41.1
	24	57.2	II	51.9	Z	16.1	41.1
	25	57.1	II	52.8	Z	16.1	41.0
	26	57.1	II	53.7	Z	16.1	41.0
	27	57.1	II	54.6	Z	16.1	41.0
	28	57.1	II	55.4	Z	16.1	41.0
	29	57.1	II	56.2	Z	16.1	41.0
	30	57.1	II	56.9	Z	16.1	41.0
	31	57.2	II	57.6	Z	16.1	41.1
	32	57.1	II	58.3	Z	16.1	41.0
	33	57.1	II	59.0	Z	16.1	41.0
	34	57.1	II	59.6	Z	16.1	41.0
	35	57.0	II	60.3	Z	16.1	40.9
	36	56.9	II	60.9	Z	16.1	40.8
	37	56.9	II	61.4	Z	16.1	40.8
	38	56.9	II	62.0	Z	16.1	40.8
	39	56.9	II	62.5	Z	16.1	40.8
	40	56.8	II	63.0	Z	16.1	40.7
	41	56.8	II	63.5	Z	16.1	40.7
	42	56.7	II	64.0	Z	16.1	40.6
	43	56.7	II	64.5	Z	16.1	40.6
	44	56.6	II	64.9	Z	16.1	40.5
	45	56.6	II	65.4	Z	16.1	40.5

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15^{o}

Inclination Angle Type Y: the inclination angle is above 15^{o} and below 45^{o}

Inclination Angle Type Z: the inclination angle is above 45^{o}

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R213a	4	53.9	N/A	21.2	Y	-	N/A
	5	55.0	N/A	23.3	Y	-	N/A
	6	55.7	II	25.4	Y	15.3	40.4
	7	56.1	II	27.4	Y	15.3	40.8
	8	56.5	II	29.3	Y	15.3	41.2
	9	56.6	II	31.1	Y	15.3	41.3
	10	56.7	II	32.9	Y	15.3	41.4
	11	56.8	II	34.6	Y	15.3	41.5
	12	56.8	II	36.3	Y	15.3	41.5
	13	56.8	II	37.9	Y	15.3	41.5
	14	56.8	II	39.4	Y	15.3	41.5
	15	56.8	II	40.8	Y	15.3	41.5
	16	56.8	II	42.2	Y	15.3	41.5
	17	56.8	II	43.6	Y	15.3	41.5
	18	56.8	II	44.8	Y	15.3	41.5
	19	56.8	II	46.1	Z	16.1	40.7
	20	56.8	II	47.2	Z	16.1	40.7
	21	56.8	II	48.4	Z	16.1	40.7
	22	-	-	-	-	-	-
	23	56.9	II	51.1	Z	16.1	40.8
	24	56.8	II	52.0	Z	16.1	40.7
	25	56.8	II	53.0	Z	16.1	40.7
	26	56.7	II	53.9	Z	16.1	40.6
	27	56.8	II	54.7	Z	16.1	40.7
	28	56.8	II	55.5	Z	16.1	40.7
	29	56.8	II	56.3	Z	16.1	40.7
	30	56.9	II	57.0	Z	16.1	40.8
	31	56.9	II	57.8	Z	16.1	40.8
	32	56.9	II	58.5	Z	16.1	40.8
	33	56.9	II	59.1	Z	16.1	40.8
	34	56.9	II	59.8	Z	16.1	40.8
	35	56.8	II	60.4	Z	16.1	40.7
	36	56.8	II	61.0	Z	16.1	40.7
	37	56.8	II	61.6	Z	16.1	40.7
	38	56.8	II	62.1	Z	16.1	40.7
	39	56.7	II	62.6	Z	16.1	40.6
	40	56.7	II	63.2	Z	16.1	40.6
	41	56.6	II	63.7	Z	16.1	40.5
	42	56.6	II	64.1	Z	16.1	40.5
	43	56.6	II	64.6	Z	16.1	40.5
	44	56.5	II	65.1	Z	16.1	40.4
	45	56.5	II	65.5	Z	16.1	40.4

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R213b	4	53.9	N/A	21.1	Y	-	N/A
	5	55.0	N/A	23.2	Y	-	N/A
	6	55.6	II	25.2	Y	15.3	40.3
	7	56.1	II	27.2	Y	15.3	40.8
	8	56.5	II	29.1	Y	15.3	41.2
	9	56.6	II	31.0	Y	15.3	41.3
	10	56.7	II	32.8	Y	15.3	41.4
	11	56.8	II	34.5	Y	15.3	41.5
	12	56.8	II	36.1	Y	15.3	41.5
	13	56.8	II	37.7	Y	15.3	41.5
	14	56.8	II	39.2	Y	15.3	41.5
	15	56.8	II	40.7	Y	15.3	41.5
	16	56.8	II	42.1	Y	15.3	41.5
	17	56.8	II	43.4	Y	15.3	41.5
	18	56.8	II	44.7	Y	15.3	41.5
	19	56.8	II	45.9	Z	16.1	40.7
	20	56.8	II	47.1	Z	16.1	40.7
	21	56.8	II	48.2	Z	16.1	40.7
	22	-	-	-	-	-	-
	23	56.9	II	50.9	Z	16.1	40.8
	24	56.8	II	51.9	Z	16.1	40.7
	25	56.8	II	52.8	Z	16.1	40.7
	26	56.7	II	53.7	Z	16.1	40.6
	27	56.7	II	54.5	Z	16.1	40.6
	28	56.8	II	55.4	Z	16.1	40.7
	29	56.8	II	56.1	Z	16.1	40.7
	30	56.9	II	56.9	Z	16.1	40.8
	31	56.9	II	57.6	Z	16.1	40.8
	32	56.9	II	58.3	Z	16.1	40.8
	33	56.9	II	59.0	Z	16.1	40.8
	34	56.9	II	59.6	Z	16.1	40.8
	35	56.8	II	60.2	Z	16.1	40.7
	36	56.8	II	60.8	Z	16.1	40.7
	37	56.8	II	61.4	Z	16.1	40.7
	38	56.8	II	62.0	Z	16.1	40.7
	39	56.7	II	62.5	Z	16.1	40.6
	40	56.7	II	63.0	Z	16.1	40.6
	41	56.7	II	63.5	Z	16.1	40.6
	42	56.6	II	64.0	Z	16.1	40.5
	43	56.6	II	64.5	Z	16.1	40.5
	44	56.5	II	64.9	Z	16.1	40.4
	45	56.5	II	65.4	Z	16.1	40.4

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R214b	4	53.8	N/A	20.8	Y	-	N/A
	5	54.9	N/A	22.9	Y	-	N/A
	6	55.6	II	24.9	Y	15.3	40.3
	7	56.0	II	26.9	Y	15.3	40.7
	8	56.4	II	28.8	Y	15.3	41.1
	9	56.6	II	30.6	Y	15.3	41.3
	10	56.7	II	32.4	Y	15.3	41.4
	11	56.8	II	34.1	Y	15.3	41.5
	12	56.8	II	35.7	Y	15.3	41.5
	13	56.8	II	37.3	Y	15.3	41.5
	14	56.8	II	38.8	Y	15.3	41.5
	15	56.8	II	40.3	Y	15.3	41.5
	16	56.8	II	41.6	Y	15.3	41.5
	17	56.8	II	43.0	Y	15.3	41.5
	18	56.8	II	44.3	Y	15.3	41.5
	19	56.8	II	45.5	Z	16.1	40.7
	20	56.8	II	46.6	Z	16.1	40.7
	21	56.8	II	47.8	Z	16.1	40.7
	22	-	-	-	-	-	-
	23	56.7	II	50.5	Z	16.1	40.6
	24	56.7	II	51.5	Z	16.1	40.6
	25	56.7	II	52.4	Z	16.1	40.6
	26	56.7	II	53.3	Z	16.1	40.6
	27	56.6	II	54.1	Z	16.1	40.5
	28	56.7	II	55.0	Z	16.1	40.6
	29	56.7	II	55.7	Z	16.1	40.6
	30	56.8	II	56.5	Z	16.1	40.7
	31	56.8	II	57.2	Z	16.1	40.7
	32	56.8	II	57.9	Z	16.1	40.7
	33	56.8	II	58.6	Z	16.1	40.7
	34	56.8	II	59.2	Z	16.1	40.7
	35	56.8	II	59.9	Z	16.1	40.7
	36	56.7	II	60.5	Z	16.1	40.6
	37	56.8	II	61.1	Z	16.1	40.7
	38	56.7	II	61.6	Z	16.1	40.6
	39	56.7	II	62.2	Z	16.1	40.6
	40	56.6	II	62.7	Z	16.1	40.5
	41	56.6	II	63.2	Z	16.1	40.5
	42	56.6	II	63.7	Z	16.1	40.5
	43	56.5	II	64.1	Z	16.1	40.4
	44	56.5	II	64.6	Z	16.1	40.4
	45	56.4	II	65.0	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R214c	4	53.8	N/A	20.7	Y	-	N/A
	5	54.8	N/A	22.7	Y	-	N/A
	6	55.5	II	24.8	Y	15.3	40.2
	7	56.0	II	26.7	Y	15.3	40.7
	8	56.4	II	28.6	Y	15.3	41.1
	9	56.6	II	30.5	Y	15.3	41.3
	10	56.7	II	32.2	Y	15.3	41.4
	11	56.8	II	33.9	Y	15.3	41.5
	12	56.8	II	35.6	Y	15.3	41.5
	13	56.8	II	37.1	Y	15.3	41.5
	14	56.8	II	38.6	Y	15.3	41.5
	15	56.8	II	40.1	Y	15.3	41.5
	16	56.8	II	41.5	Y	15.3	41.5
	17	56.8	II	42.8	Y	15.3	41.5
	18	56.8	II	44.1	Y	15.3	41.5
	19	56.7	II	45.3	Z	16.1	40.6
	20	56.8	II	46.5	Z	16.1	40.7
	21	56.8	II	47.6	Z	16.1	40.7
	22	-	-	-	-	-	-
	23	56.7	II	50.3	Z	16.1	40.6
	24	56.7	II	51.3	Z	16.1	40.6
	25	56.7	II	52.2	Z	16.1	40.6
	26	56.7	II	53.1	Z	16.1	40.6
	27	56.7	II	54.0	Z	16.1	40.6
	28	56.7	II	54.8	Z	16.1	40.6
	29	56.7	II	55.6	Z	16.1	40.6
	30	56.7	II	56.3	Z	16.1	40.6
	31	56.8	II	57.1	Z	16.1	40.7
	32	56.8	II	57.8	Z	16.1	40.7
	33	56.8	II	58.4	Z	16.1	40.7
	34	56.8	II	59.1	Z	16.1	40.7
	35	56.8	II	59.7	Z	16.1	40.7
	36	56.7	II	60.3	Z	16.1	40.6
	37	56.7	II	60.9	Z	16.1	40.6
	38	56.7	II	61.5	Z	16.1	40.6
	39	56.7	II	62.0	Z	16.1	40.6
	40	56.6	II	62.5	Z	16.1	40.5
	41	56.6	II	63.0	Z	16.1	40.5
	42	56.6	II	63.5	Z	16.1	40.5
	43	56.5	II	64.0	Z	16.1	40.4
	44	56.5	II	64.5	Z	16.1	40.4
	45	56.5	II	64.9	Z	16.1	40.4

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R215a	4	53.7	N/A	20.5	Y	-	N/A
	5	54.8	N/A	22.6	Y	-	N/A
	6	55.5	II	24.6	Y	15.3	40.2
	7	56.0	II	26.6	Y	15.3	40.7
	8	56.3	II	28.5	Y	15.3	41.0
	9	56.6	II	30.3	Y	15.3	41.3
	10	56.6	II	32.0	Y	15.3	41.3
	11	56.7	II	33.7	Y	15.3	41.4
	12	56.8	II	35.4	Y	15.3	41.5
	13	56.8	II	36.9	Y	15.3	41.5
	14	56.8	II	38.4	Y	15.3	41.5
	15	56.8	II	39.9	Y	15.3	41.5
	16	56.8	II	41.3	Y	15.3	41.5
	17	56.8	II	42.6	Y	15.3	41.5
	18	56.7	II	43.9	Y	15.3	41.4
	19	56.7	II	45.1	Z	16.1	40.6
	20	56.7	II	46.3	Z	16.1	40.6
	21	56.7	II	47.4	Z	16.1	40.6
	22	-	-	-	-	-	-
	23	56.7	II	50.1	Z	16.1	40.6
	24	56.7	II	51.1	Z	16.1	40.6
	25	56.7	II	52.0	Z	16.1	40.6
	26	56.7	II	52.9	Z	16.1	40.6
	27	56.6	II	53.8	Z	16.1	40.5
	28	56.6	II	54.6	Z	16.1	40.5
	29	56.7	II	55.4	Z	16.1	40.6
	30	56.7	II	56.1	Z	16.1	40.6
	31	56.7	II	56.9	Z	16.1	40.6
	32	56.8	II	57.6	Z	16.1	40.7
	33	56.8	II	58.3	Z	16.1	40.7
	34	56.8	II	58.9	Z	16.1	40.7
	35	56.8	II	59.5	Z	16.1	40.7
	36	56.7	II	60.1	Z	16.1	40.6
	37	56.7	II	60.7	Z	16.1	40.6
	38	56.7	II	61.3	Z	16.1	40.6
	39	56.7	II	61.8	Z	16.1	40.6
	40	56.6	II	62.4	Z	16.1	40.5
	41	56.6	II	62.9	Z	16.1	40.5
	42	56.6	II	63.4	Z	16.1	40.5
	43	56.5	II	63.8	Z	16.1	40.4
	44	56.5	II	64.3	Z	16.1	40.4
	45	56.4	II	64.7	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R215b	4	53.6	N/A	20.4	Y	-	N/A
	5	54.8	N/A	22.5	Y	-	N/A
	6	55.4	II	24.5	Y	15.3	40.1
	7	55.9	II	26.4	Y	15.3	40.6
	8	56.3	II	28.3	Y	15.3	41.0
	9	56.6	II	30.1	Y	15.3	41.3
	10	56.7	II	31.9	Y	15.3	41.4
	11	56.7	II	33.6	Y	15.3	41.4
	12	56.8	II	35.2	Y	15.3	41.5
	13	56.8	II	36.8	Y	15.3	41.5
	14	56.8	II	38.3	Y	15.3	41.5
	15	56.8	II	39.7	Y	15.3	41.5
	16	56.8	II	41.1	Y	15.3	41.5
	17	56.8	II	42.4	Y	15.3	41.5
	18	56.7	II	43.7	Y	15.3	41.4
	19	56.7	II	44.9	Y	15.3	41.4
	20	56.7	II	46.1	Z	16.1	40.6
	21	56.7	II	47.2	Z	16.1	40.6
	22	-	-	-	-	-	-
	23	56.7	II	50.0	Z	16.1	40.6
	24	56.7	II	50.9	Z	16.1	40.6
	25	56.7	II	51.9	Z	16.1	40.6
	26	56.6	II	52.8	Z	16.1	40.5
	27	56.6	II	53.6	Z	16.1	40.5
	28	56.6	II	54.4	Z	16.1	40.5
	29	56.7	II	55.2	Z	16.1	40.6
	30	56.7	II	56.0	Z	16.1	40.6
	31	56.7	II	56.7	Z	16.1	40.6
	32	56.7	II	57.4	Z	16.1	40.6
	33	56.8	II	58.1	Z	16.1	40.7
	34	56.8	II	58.8	Z	16.1	40.7
	35	56.8	II	59.4	Z	16.1	40.7
	36	56.7	II	60.0	Z	16.1	40.6
	37	56.7	II	60.6	Z	16.1	40.6
	38	56.7	II	61.2	Z	16.1	40.6
	39	56.6	II	61.7	Z	16.1	40.5
	40	56.6	II	62.2	Z	16.1	40.5
	41	56.6	II	62.7	Z	16.1	40.5
	42	56.5	II	63.2	Z	16.1	40.4
	43	56.5	II	63.7	Z	16.1	40.4
	44	56.5	II	64.2	Z	16.1	40.4
	45	56.4	II	64.6	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R216b	4	53.4	N/A	20.1	Y	-	N/A
	5	54.6	N/A	22.2	Y	-	N/A
	6	55.4	N/A	24.2	Y	-	N/A
	7	55.8	II	26.1	Y	15.3	40.5
	8	56.2	II	28.0	Y	15.3	40.9
	9	56.5	II	29.8	Y	15.3	41.2
	10	56.7	II	31.5	Y	15.3	41.4
	11	56.7	II	33.2	Y	15.3	41.4
	12	56.8	II	34.8	Y	15.3	41.5
	13	56.8	II	36.4	Y	15.3	41.5
	14	56.8	II	37.8	Y	15.3	41.5
	15	56.7	II	39.3	Y	15.3	41.4
	16	56.8	II	40.7	Y	15.3	41.5
	17	56.8	II	42.0	Y	15.3	41.5
	18	56.7	II	43.3	Y	15.3	41.4
	19	56.7	II	44.5	Y	15.3	41.4
	20	56.7	II	45.7	Z	16.1	40.6
	21	56.7	II	46.8	Z	16.1	40.6
	22	-	-	-	-	-	-
	23	56.7	II	49.5	Z	16.1	40.6
	24	56.7	II	50.5	Z	16.1	40.6
	25	56.7	II	51.4	Z	16.1	40.6
	26	56.6	II	52.3	Z	16.1	40.5
	27	56.6	II	53.2	Z	16.1	40.5
	28	56.6	II	54.0	Z	16.1	40.5
	29	56.6	II	54.8	Z	16.1	40.5
	30	56.6	II	55.6	Z	16.1	40.5
	31	56.7	II	56.3	Z	16.1	40.6
	32	56.7	II	57.0	Z	16.1	40.6
	33	56.7	II	57.7	Z	16.1	40.6
	34	56.7	II	58.4	Z	16.1	40.6
	35	56.7	II	59.0	Z	16.1	40.6
	36	56.7	II	59.6	Z	16.1	40.6
	37	56.7	II	60.2	Z	16.1	40.6
	38	56.6	II	60.8	Z	16.1	40.5
	39	56.6	II	61.3	Z	16.1	40.5
	40	56.6	II	61.9	Z	16.1	40.5
	41	56.5	II	62.4	Z	16.1	40.4
	42	56.5	II	62.9	Z	16.1	40.4
	43	56.5	II	63.4	Z	16.1	40.4
	44	56.4	II	63.8	Z	16.1	40.3
	45	56.4	II	64.3	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R216c	4	53.4	N/A	20.0	Y	-	N/A
	5	54.6	N/A	22.1	Y	-	N/A
	6	55.3	N/A	24.1	Y	-	N/A
	7	55.8	II	26.0	Y	15.3	40.5
	8	56.2	II	27.8	Y	15.3	40.9
	9	56.5	II	29.6	Y	15.3	41.2
	10	56.6	II	31.4	Y	15.3	41.3
	11	56.7	II	33.1	Y	15.3	41.4
	12	56.8	II	34.7	Y	15.3	41.5
	13	56.8	II	36.2	Y	15.3	41.5
	14	56.8	II	37.7	Y	15.3	41.5
	15	56.7	II	39.2	Y	15.3	41.4
	16	56.7	II	40.5	Y	15.3	41.4
	17	56.7	II	41.9	Y	15.3	41.4
	18	56.7	II	43.1	Y	15.3	41.4
	19	56.7	II	44.4	Y	15.3	41.4
	20	56.7	II	45.5	Z	16.1	40.6
	21	56.7	II	46.7	Z	16.1	40.6
	22	-	-	-	-	-	-
	23	56.7	II	49.4	Z	16.1	40.6
	24	56.7	II	50.4	Z	16.1	40.6
	25	56.7	II	51.3	Z	16.1	40.6
	26	56.7	II	52.2	Z	16.1	40.6
	27	56.6	II	53.1	Z	16.1	40.5
	28	56.5	II	53.9	Z	16.1	40.4
	29	56.6	II	54.7	Z	16.1	40.5
	30	56.6	II	55.5	Z	16.1	40.5
	31	56.6	II	56.2	Z	16.1	40.5
	32	56.7	II	56.9	Z	16.1	40.6
	33	56.7	II	57.6	Z	16.1	40.6
	34	56.7	II	58.3	Z	16.1	40.6
	35	56.7	II	58.9	Z	16.1	40.6
	36	56.7	II	59.5	Z	16.1	40.6
	37	56.7	II	60.1	Z	16.1	40.6
	38	56.6	II	60.7	Z	16.1	40.5
	39	56.6	II	61.2	Z	16.1	40.5
	40	56.6	II	61.8	Z	16.1	40.5
	41	56.5	II	62.3	Z	16.1	40.4
	42	56.5	II	62.8	Z	16.1	40.4
	43	56.5	II	63.3	Z	16.1	40.4
	44	56.4	II	63.7	Z	16.1	40.3
	45	56.4	II	64.2	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R217a	4	53.5	N/A	19.9	Y	-	N/A
	5	54.6	N/A	22.0	Y	-	N/A
	6	55.3	N/A	23.9	Y	-	N/A
	7	55.9	II	25.9	Y	15.3	40.6
	8	56.2	II	27.7	Y	15.3	40.9
	9	56.5	II	29.5	Y	15.3	41.2
	10	56.6	II	31.2	Y	15.3	41.3
	11	56.7	II	32.9	Y	15.3	41.4
	12	56.8	II	34.5	Y	15.3	41.5
	13	56.9	II	36.1	Y	15.3	41.6
	14	56.8	II	37.6	Y	15.3	41.5
	15	56.8	II	39.0	Y	15.3	41.5
	16	56.8	II	40.4	Y	15.3	41.5
	17	56.8	II	41.7	Y	15.3	41.5
	18	56.8	II	43.0	Y	15.3	41.5
	19	56.8	II	44.2	Y	15.3	41.5
	20	56.8	II	45.4	Z	16.1	40.7
	21	56.7	II	46.5	Z	16.1	40.6
	22	-	-	-	-	-	-
	23	56.8	II	49.2	Z	16.1	40.7
	24	56.8	II	50.2	Z	16.1	40.7
	25	56.7	II	51.2	Z	16.1	40.6
	26	56.7	II	52.1	Z	16.1	40.6
	27	56.6	II	52.9	Z	16.1	40.5
	28	56.6	II	53.7	Z	16.1	40.5
	29	56.6	II	54.5	Z	16.1	40.5
	30	56.7	II	55.3	Z	16.1	40.6
	31	56.7	II	56.1	Z	16.1	40.6
	32	56.7	II	56.8	Z	16.1	40.6
	33	56.7	II	57.5	Z	16.1	40.6
	34	56.7	II	58.1	Z	16.1	40.6
	35	56.8	II	58.8	Z	16.1	40.7
	36	56.7	II	59.4	Z	16.1	40.6
	37	56.7	II	60.0	Z	16.1	40.6
	38	56.7	II	60.5	Z	16.1	40.6
	39	56.7	II	61.1	Z	16.1	40.6
	40	56.6	II	61.6	Z	16.1	40.5
	41	56.6	II	62.1	Z	16.1	40.5
	42	56.5	II	62.6	Z	16.1	40.4
	43	56.5	II	63.1	Z	16.1	40.4
	44	56.5	II	63.6	Z	16.1	40.4
	45	56.4	II	64.0	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R217b	4	53.5	N/A	19.9	Y	-	N/A
	5	54.6	N/A	22.0	Y	-	N/A
	6	55.3	N/A	24.0	Y	-	N/A
	7	55.8	II	25.9	Y	15.3	40.5
	8	56.2	II	27.7	Y	15.3	40.9
	9	56.5	II	29.5	Y	15.3	41.2
	10	56.6	II	31.3	Y	15.3	41.3
	11	56.7	II	32.9	Y	15.3	41.4
	12	56.8	II	34.5	Y	15.3	41.5
	13	56.9	II	36.1	Y	15.3	41.6
	14	56.9	II	37.6	Y	15.3	41.6
	15	56.8	II	39.0	Y	15.3	41.5
	16	56.8	II	40.4	Y	15.3	41.5
	17	56.8	II	41.7	Y	15.3	41.5
	18	56.8	II	43.0	Y	15.3	41.5
	19	56.8	II	44.2	Y	15.3	41.5
	20	56.8	II	45.4	Z	16.1	40.7
	21	56.7	II	46.5	Z	16.1	40.6
	22	-	-	-	-	-	-
	23	56.8	II	49.3	Z	16.1	40.7
	24	56.7	II	50.2	Z	16.1	40.6
	25	56.7	II	51.2	Z	16.1	40.6
	26	56.7	II	52.1	Z	16.1	40.6
	27	56.6	II	52.9	Z	16.1	40.5
	28	56.6	II	53.8	Z	16.1	40.5
	29	56.6	II	54.6	Z	16.1	40.5
	30	56.7	II	55.3	Z	16.1	40.6
	31	56.7	II	56.1	Z	16.1	40.6
	32	56.7	II	56.8	Z	16.1	40.6
	33	56.7	II	57.5	Z	16.1	40.6
	34	56.7	II	58.1	Z	16.1	40.6
	35	56.8	II	58.8	Z	16.1	40.7
	36	56.7	II	59.4	Z	16.1	40.6
	37	56.7	II	60.0	Z	16.1	40.6
	38	56.7	II	60.5	Z	16.1	40.6
	39	56.7	II	61.1	Z	16.1	40.6
	40	56.6	II	61.6	Z	16.1	40.5
	41	56.6	II	62.2	Z	16.1	40.5
	42	56.5	II	62.7	Z	16.1	40.4
	43	56.5	II	63.1	Z	16.1	40.4
	44	56.5	II	63.6	Z	16.1	40.4
	45	56.4	II	64.1	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R218b	4	53.4	N/A	19.9	Y	-	N/A
	5	54.5	N/A	22.0	Y	-	N/A
	6	55.2	N/A	23.9	Y	-	N/A
	7	55.8	II	25.8	Y	15.3	40.5
	8	56.1	II	27.7	Y	15.3	40.8
	9	56.5	II	29.5	Y	15.3	41.2
	10	56.6	II	31.2	Y	15.3	41.3
	11	56.7	II	32.9	Y	15.3	41.4
	12	56.9	II	34.5	Y	15.3	41.6
	13	56.9	II	36.1	Y	15.3	41.6
	14	56.9	II	37.5	Y	15.3	41.6
	15	56.8	II	39.0	Y	15.3	41.5
	16	56.8	II	40.4	Y	15.3	41.5
	17	56.8	II	41.7	Y	15.3	41.5
	18	56.8	II	43.0	Y	15.3	41.5
	19	56.8	II	44.2	Y	15.3	41.5
	20	56.8	II	45.4	Z	16.1	40.7
	21	56.8	II	46.5	Z	16.1	40.7
	22	-	-	-	-	-	-
	23	56.8	II	49.2	Z	16.1	40.7
	24	56.8	II	50.2	Z	16.1	40.7
	25	56.7	II	51.1	Z	16.1	40.6
	26	56.7	II	52.0	Z	16.1	40.6
	27	56.7	II	52.9	Z	16.1	40.6
	28	56.6	II	53.7	Z	16.1	40.5
	29	56.6	II	54.5	Z	16.1	40.5
	30	56.7	II	55.3	Z	16.1	40.6
	31	56.7	II	56.0	Z	16.1	40.6
	32	56.7	II	56.8	Z	16.1	40.6
	33	56.8	II	57.4	Z	16.1	40.7
	34	56.7	II	58.1	Z	16.1	40.6
	35	56.8	II	58.7	Z	16.1	40.7
	36	56.8	II	59.4	Z	16.1	40.7
	37	56.7	II	59.9	Z	16.1	40.6
	38	56.7	II	60.5	Z	16.1	40.6
	39	56.7	II	61.1	Z	16.1	40.6
	40	56.6	II	61.6	Z	16.1	40.5
	41	56.6	II	62.1	Z	16.1	40.5
	42	56.5	II	62.6	Z	16.1	40.4
	43	56.5	II	63.1	Z	16.1	40.4
	44	56.5	II	63.6	Z	16.1	40.4
	45	56.5	II	64.0	Z	16.1	40.4

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Project number:	**276006-12**
Project :	**Po Shek Wu Road**
Title:	**Balcony Attenuation for Railway Noise**

NSR	Floor	Noise Levels Without Acoustic Balcony, dB(A)	Balcony Type [2]	Acoustic Balcony Performance			Noise Levels With Acoustic Balcony, dB(A)
				Inclination Angle [1]	Inclination Angle Type	Attenuation, dB(A) [3]	
R218c	4	53.4	N/A	19.9	Y	-	N/A
	5	54.5	N/A	21.9	Y	-	N/A
	6	55.2	N/A	23.9	Y	-	N/A
	7	55.7	II	25.8	Y	15.3	40.4
	8	56.1	II	27.7	Y	15.3	40.8
	9	56.5	II	29.5	Y	15.3	41.2
	10	56.6	II	31.2	Y	15.3	41.3
	11	56.7	II	32.9	Y	15.3	41.4
	12	56.8	II	34.5	Y	15.3	41.5
	13	56.9	II	36.0	Y	15.3	41.6
	14	56.9	II	37.5	Y	15.3	41.6
	15	56.8	II	39.0	Y	15.3	41.5
	16	56.8	II	40.4	Y	15.3	41.5
	17	56.8	II	41.7	Y	15.3	41.5
	18	56.8	II	42.9	Y	15.3	41.5
	19	56.8	II	44.2	Y	15.3	41.5
	20	56.8	II	45.3	Z	16.1	40.7
	21	56.8	II	46.5	Z	16.1	40.7
	22	-	-	-	-	-	-
	23	56.8	II	49.2	Z	16.1	40.7
	24	56.8	II	50.2	Z	16.1	40.7
	25	56.7	II	51.1	Z	16.1	40.6
	26	56.7	II	52.0	Z	16.1	40.6
	27	56.6	II	52.9	Z	16.1	40.5
	28	56.6	II	53.7	Z	16.1	40.5
	29	56.6	II	54.5	Z	16.1	40.5
	30	56.7	II	55.3	Z	16.1	40.6
	31	56.7	II	56.0	Z	16.1	40.6
	32	56.7	II	56.7	Z	16.1	40.6
	33	56.7	II	57.4	Z	16.1	40.6
	34	56.7	II	58.1	Z	16.1	40.6
	35	56.8	II	58.7	Z	16.1	40.7
	36	56.8	II	59.3	Z	16.1	40.7
	37	56.7	II	59.9	Z	16.1	40.6
	38	56.7	II	60.5	Z	16.1	40.6
	39	56.7	II	61.1	Z	16.1	40.6
	40	56.6	II	61.6	Z	16.1	40.5
	41	56.6	II	62.1	Z	16.1	40.5
	42	56.5	II	62.6	Z	16.1	40.4
	43	56.5	II	63.1	Z	16.1	40.4
	44	56.5	II	63.6	Z	16.1	40.4
	45	56.4	II	64.0	Z	16.1	40.3

Note:

Noise exceedance

Balcony type required

Inclination Angle Type X: the inclination angle is below 15°

Inclination Angle Type Y: the inclination angle is above 15° and below 45°

Inclination Angle Type Z: the inclination angle is above 45°

[1] Inclination angle is calculated from the source line of East Rail Line to the NSR. The position of noise source is set as the furthest track for conservative assessment.

[2] Acoustic Balcony Type I: with basic shell only (no additional treatment)
Acoustic Balcony Type II: with acoustic lining (wall and ceiling)
Acoustic Balcony Type IV: with acoustic lining (wall and ceiling) and projected inclined soild panel (designed as planter)

Appendix 5.6

Predicted $L_{eq(30mins)}$ for Residential Block (Mitigated Case)

Project no: 276006-12
Project name: Po Shek Wu Road, Sheung Shui
Title: Rail Noise Assessment Result Summary - Leq Night-time (Mitigated)

NSR	R103f	R105b	R110a	R110b	R111b	R111c	R112a	R112b	R113b	R113c	R114a	R114b	R115b	R115c	R116a	R123b
ASR	B	B	B	B	B	B	B	B	B	B	B	B	B	B	C	C
Criteria	45	45	45	45	45	45	45	45	45	45	45	45	45	45	50	50
45	-	-	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.4	40.4	40.4	40.5	-	-
44	-	-	40.4	40.3	40.4	40.4	40.3	40.3	40.4	40.4	40.4	40.4	40.5	40.5	-	-
43	-	-	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.5	40.6	-	-
42	-	-	40.4	40.4	40.4	40.4	40.4	40.4	40.5	40.5	40.5	40.5	40.6	40.6	-	-
41	-	-	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.6	40.7	-	-
40	-	-	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.6	40.6	40.7	40.7	-	-
39	-	-	40.6	40.5	40.6	40.6	40.5	40.5	40.6	40.6	40.6	40.7	40.7	40.8	-	-
38	-	-	40.6	40.6	40.6	40.6	40.5	40.5	40.6	40.6	40.7	40.7	40.8	40.8	-	-
37	-	-	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.7	40.7	40.8	40.8	-	-
36	-	-	40.7	40.6	40.7	40.7	40.6	40.6	40.7	40.7	40.7	40.7	40.8	40.8	-	-
35	-	-	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.8	40.8	40.9	40.9	-	-
34	-	-	40.6	40.6	40.6	40.6	40.6	40.6	40.7	40.8	40.8	40.8	40.9	41.0	-	-
33	-	-	40.6	40.6	40.6	40.6	40.6	40.7	40.7	40.8	40.8	40.9	41.0	41.0	-	-
32	-	-	40.6	40.6	40.6	40.6	40.6	40.7	40.7	40.7	40.8	40.9	41.0	41.0	-	-
31	-	-	40.6	40.6	40.6	40.6	40.6	40.7	40.7	40.7	40.8	40.8	41.0	41.1	-	-
30	-	-	40.6	40.6	40.6	40.6	40.6	40.7	40.7	40.7	40.8	40.8	41.0	41.0	-	-
29	-	-	40.5	40.5	40.5	40.5	40.5	40.6	40.7	40.7	40.8	40.8	41.0	41.0	-	-
28	-	-	40.5	40.5	40.5	40.5	40.5	40.5	40.6	40.7	40.8	40.8	40.9	41.0	-	-
27	-	-	40.5	40.5	40.5	40.5	40.5	40.5	40.6	40.6	40.7	40.8	40.9	41.0	-	-
26	-	-	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.7	40.8	40.9	41.0	-	-
25	-	-	40.6	40.6	40.6	40.6	40.6	40.7	40.7	40.7	40.8	40.8	40.9	41.0	-	-
24	-	-	40.7	40.6	40.7	40.7	40.7	40.7	40.7	40.7	40.8	40.8	41.0	41.1	-	-
23	-	-	40.6	40.6	40.7	40.7	40.7	40.7	40.7	40.8	40.8	40.9	41.0	41.1	-	-
22	REFUGE FLOOR (22/F)															
21	-	-	40.6	40.6	40.7	40.6	40.6	40.7	40.7	40.7	40.9	40.9	41.0	41.1	-	-
20	-	-	40.7	40.6	40.7	40.7	40.6	40.7	40.7	40.7	40.8	40.9	41.0	41.1	-	-
19	-	-	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	40.8	40.9	41.0	41.1	-	-
18	-	-	41.4	41.4	41.4	41.5	41.5	41.5	41.5	41.6	41.6	41.7	41.9	41.9	-	-
17	-	-	41.5	41.5	41.5	41.5	41.5	41.5	41.6	41.6	41.6	41.7	41.9	41.9	-	-
16	-	-	41.5	41.5	41.5	41.5	41.5	41.5	41.6	41.6	41.7	41.7	43.6	43.6	-	-
15	-	-	41.5	41.5	41.5	41.5	41.5	41.5	41.6	41.6	41.7	41.7	43.5	43.6	-	-
14	-	-	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.6	41.7	41.7	43.5	43.6	-	-
13	-	-	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.6	41.7	41.7	43.5	43.6	-	-
12	-	-	41.5	41.5	41.5	41.5	41.4	41.5	41.5	41.6	41.7	41.7	43.5	43.6	-	-
11	-	-	41.2	41.2	41.2	41.2	41.1	41.1	41.2	41.3	41.4	41.5	43.4	43.5	-	-
10	-	-	41.2	41.1	41.1	41.1	40.9	41.0	41.0	41.0	41.1	41.2	43.1	43.2	-	-
9	-	-	41.0	41.0	40.9	40.9	40.7	40.7	40.8	40.8	40.9	41.0	42.9	43.0	-	-
8	-	-	40.6	40.6	40.5	40.5	40.3	40.4	40.4	40.5	40.6	40.7	42.7	42.7	-	-
7	-	-	40.2	40.2	-	-	-	-	-	-	40.2	40.3	42.2	42.4	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	41.8	41.9	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Min	-	-	40.2	40.2	40.3	40.3	40.3	40.3	40.3	40.3	40.2	40.3	40.4	40.5	-	-
Max	-	-	41.5	41.5	41.5	41.5	41.5	41.5	41.6	41.6	41.7	41.7	43.6	43.6	-	-

-	As there are no predicted exceedance in basecase scenario, no EAB3.0 are proposed
	Noise sensitive receivers with exceedance (≥70.5 dB(A))
X	Noise sensitive receivers applied with acoustic balcony (Type 1)
X	Noise sensitive receivers applied with acoustic balcony (Type 2)
X	Noise sensitive receivers applied with acoustic balcony (Type 4)

(These predicted noise levels are the equivalent noise levels at 1m from the external facade after accounting the reduction in noise levels inside the flat offered by the proposed acoustic balcony)

Project no: 276006-12
Project name: Po Shek Wu Road, Sheung Shui
Title: Rail Noise Assessment Result Summary - Leq Night-time (Mitigated)

NSR	R201a	R204f	R205a	R212d	R213a	R213b	R214b	R214c	R215a	R215b	R216b	R216c	R217a	R217b	R218b	R218c	R223c
ASR	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Criteria	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
45	-	-	-	-	40.4	40.4	40.3	40.4	40.3	40.3	40.3	40.3	40.3	40.3	40.4	40.3	-
44	-	-	-	-	40.4	40.4	40.4	40.4	40.4	40.4	40.3	40.3	40.4	40.4	40.4	40.4	-
43	-	-	-	-	40.5	40.5	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	-
42	-	-	-	-	40.5	40.5	40.5	40.5	40.5	40.4	40.4	40.4	40.4	40.4	40.4	40.4	-
41	-	-	-	-	40.5	40.6	40.5	40.5	40.5	40.5	40.4	40.4	40.5	40.5	40.5	40.5	-
40	-	-	-	-	40.6	40.6	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	-
39	-	-	-	-	40.6	40.6	40.6	40.6	40.6	40.5	40.5	40.5	40.6	40.6	40.6	40.6	-
38	-	-	-	-	40.7	40.7	40.6	40.6	40.6	40.6	40.5	40.5	40.6	40.6	40.6	40.6	-
37	-	-	-	-	40.7	40.7	40.7	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	-
36	-	-	-	-	40.7	40.7	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.7	40.7	-
35	-	-	-	-	40.7	40.7	40.7	40.7	40.7	40.7	40.6	40.6	40.7	40.7	40.7	40.7	-
34	-	-	-	-	40.8	40.8	40.7	40.7	40.7	40.7	40.6	40.6	40.6	40.6	40.6	40.6	-
33	-	-	-	-	40.8	40.8	40.7	40.7	40.7	40.7	40.6	40.6	40.6	40.6	40.7	40.6	-
32	-	-	-	-	40.8	40.8	40.7	40.7	40.7	40.6	40.6	40.6	40.6	40.6	40.6	40.6	-
31	-	-	-	-	40.8	40.8	40.7	40.7	40.6	40.6	40.6	40.5	40.6	40.6	40.6	40.6	-
30	-	-	-	-	40.8	40.8	40.7	40.6	40.6	40.6	40.5	40.5	40.6	40.6	40.6	40.6	-
29	-	-	-	-	40.7	40.7	40.6	40.6	40.6	40.6	40.5	40.5	40.5	40.5	40.5	40.5	-
28	-	-	-	-	40.7	40.7	40.6	40.6	40.5	40.5	40.5	40.4	40.5	40.5	40.5	40.5	-
27	-	-	-	-	40.7	40.6	40.5	40.6	40.5	40.5	40.5	40.5	40.5	40.5	40.6	40.5	-
26	-	-	-	-	40.6	40.6	40.6	40.6	40.6	40.5	40.5	40.6	40.6	40.6	40.6	40.6	-
25	-	-	-	-	40.7	40.7	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	-
24	-	-	-	-	40.7	40.7	40.6	40.6	40.6	40.6	40.6	40.6	40.7	40.6	40.7	40.7	-
23	-	-	-	-	40.8	40.8	40.6	40.6	40.6	40.6	40.6	40.6	40.7	40.7	40.7	40.7	-
22	REFUGE FLOOR (22/F)																
21	-	-	-	-	40.7	40.7	40.7	40.7	40.6	40.6	40.6	40.6	40.6	40.6	40.7	40.7	-
20	-	-	-	-	40.7	40.7	40.7	40.7	40.6	40.6	40.6	40.6	40.7	40.7	40.7	40.7	-
19	-	-	-	-	40.7	40.7	40.7	40.6	40.6	41.4	41.4	41.4	41.5	41.5	41.5	41.5	-
18	-	-	-	-	41.5	41.5	41.5	41.5	41.4	41.4	41.4	41.4	41.5	41.5	41.5	41.5	-
17	-	-	-	-	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.4	41.5	41.5	41.5	41.5	-
16	-	-	-	-	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.4	41.5	41.5	41.5	41.5	-
15	-	-	-	-	41.5	41.5	41.5	41.5	41.5	41.5	41.4	41.4	41.5	41.5	41.5	41.5	-
14	-	-	-	-	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.6	41.6	41.6	-
13	-	-	-	-	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.6	41.6	41.6	41.6	-
12	-	-	-	-	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.6	41.5	-
11	-	-	-	-	41.5	41.5	41.5	41.5	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	-
10	-	-	-	-	41.4	41.4	41.4	41.4	41.3	41.4	41.4	41.3	41.3	41.3	41.3	41.3	-
9	-	-	-	-	41.3	41.3	41.3	41.3	41.3	41.3	41.2	41.2	41.2	41.2	41.2	41.2	-
8	-	-	-	-	41.2	41.2	41.1	41.1	41.0	41.0	40.9	40.9	40.9	40.9	40.8	40.8	-
7	-	-	-	-	40.8	40.8	40.7	40.7	40.7	40.6	40.5	40.5	40.6	40.5	40.5	40.4	-
6	-	-	-	-	40.4	40.3	40.3	40.2	40.2	40.1	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Min	-	-	-	-	40.4	40.3	40.3	40.2	40.2	40.1	40.3	40.3	40.3	40.3	40.4	40.3	-
Max	-	-	-	-	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.6	41.6	41.6	41.6	-

-	As there are no predicted exceedance in basecase scenario, no EAB3.0 are proposed
	Noise sensitive receivers with exceedance (≥70.5 dB(A))
X	Noise sensitive receivers applied with acoustic balcony (Type 1)
X	Noise sensitive receivers applied with acoustic balcony (Type 2)
X	Noise sensitive receivers applied with acoustic balcony (Type 4)

(These predicted noise levels are the equivalent noise levels at 1m from the external facade after accounting the reduction in noise levels inside the flat offered by the proposed acoustic balcony)

Appendix 5.7

Predicted L_{max} for Residential Block

Project no: 276006-12
Project name: Po Shek Wu Road, Sheung Shui
Title: Rail Noise Assessment Result Summary - Lmax Daytime & Evening

Day

NSR	R103f	R105b	R110a	R110b	R111b	R111c	R112a	R112b	R113b	R113c	R114a	R114b	R115b	R115c	R116a	R123b
ASR	B	B	B	B	B	B	B	B	B	B	B	B	B	B	C	C
Criteria	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
45	73.5	73.4	75.1	75.1	75.1	75.1	75.5	75.6	75.7	75.7	75.7	75.9	75.9	76	73.6	74.2
44	73.5	73.5	75.2	75.2	75.2	75.2	75.6	75.7	75.8	75.8	75.8	76	76	76.1	73.7	74.2
43	73.6	73.6	75.3	75.3	75.3	75.3	75.7	75.8	75.9	75.9	75.9	76.1	76.1	76.2	73.8	74.3
42	73.7	73.6	75.4	75.4	75.4	75.4	75.8	75.9	75.9	76	76	76.2	76.2	76.3	73.8	74.4
41	73.7	73.7	75.5	75.5	75.5	75.5	75.9	76	76	76.1	76.1	76.3	76.4	76.4	73.9	74.4
40	73.8	73.8	75.6	75.6	75.6	75.6	76	76.1	76.1	76.2	76.2	76.4	76.5	76.5	73.9	74.5
39	73.9	73.9	75.7	75.7	75.7	75.7	76.1	76.2	76.3	76.3	76.3	76.5	76.6	76.6	74	74.6
38	74	73.9	75.8	75.8	75.8	75.8	76.2	76.3	76.4	76.4	76.5	76.6	76.7	76.7	74.1	74.6
37	74	74	75.9	75.9	75.9	75.9	76.3	76.4	76.5	76.5	76.6	76.7	76.8	76.8	74.1	74.7
36	74.1	74.1	76	76	76	76	76.4	76.5	76.6	76.6	76.7	76.8	76.9	76.9	74.2	74.8
35	74.2	74.1	76.1	76.1	76.1	76.1	76.5	76.6	76.7	76.7	76.8	76.9	77	77.1	74.2	74.8
34	74.2	74.2	76.3	76.3	76.3	76.3	76.6	76.7	76.8	76.8	76.9	77	77.1	77.2	74.3	74.9
33	74.3	74.3	76.4	76.4	76.4	76.4	76.7	76.8	76.9	76.9	77	77.2	77.3	77.3	74.3	75
32	74.4	74.3	76.5	76.5	76.5	76.5	76.8	76.9	77	77	77.1	77.3	77.4	77.4	74.4	75
31	74.4	74.4	76.6	76.6	76.6	76.6	76.9	77	77.1	77.2	77.2	77.4	77.5	77.5	74.5	75.1
30	74.5	74.5	76.7	76.7	76.7	76.7	77	77.1	77.2	77.3	77.3	77.5	77.6	77.7	74.5	75.2
29	74.6	74.5	76.8	76.8	76.8	76.8	77.1	77.2	77.3	77.4	77.5	77.6	77.7	77.8	74.6	75.2
28	74.7	74.6	77	77	77	77	77.2	77.3	77.4	77.5	77.6	77.7	77.9	77.9	74.6	75.3
27	74.7	74.7	77.1	77.1	77.1	77.1	77.3	77.4	77.6	77.6	77.7	77.9	78	78	74.7	75.4
26	74.8	74.7	77.2	77.2	77.2	77.2	77.4	77.5	77.7	77.7	77.8	78	78.1	78.2	74.7	75.3
25	74.9	74.8	77.3	77.3	77.3	77.3	77.6	77.6	77.8	77.9	77.9	78.1	78.2	78.3	74.8	75.4
24	74.9	74.9	77.5	77.5	77.5	77.5	77.7	77.7	77.9	78	78.1	78.2	78.4	78.4	74.8	75.5
23	75	74.9	77.6	77.6	77.6	77.6	77.8	77.8	78	78.1	78.2	78.4	78.5	78.6	74.9	75.4
22	REFUGE FLOOR (22/F)															
21	75.2	75.1	77.9	77.9	77.9	77.9	78	78.1	78.3	78.4	78.5	78.7	78.9	78.9	75	75.4
20	75.3	75.2	78	78	78	78	78.2	78.2	78.4	78.5	78.6	78.8	79	79.1	75.1	75.3
19	75.4	75.2	78.2	78.2	78.2	78.2	78.3	78.3	78.5	78.6	78.7	78.9	79.1	79.2	75.1	75.3
18	75.3	75.2	78.3	78.3	78.3	78.3	78.4	78.5	78.7	78.8	78.9	79.1	79.3	79.3	75.1	75.2
17	75.1	75.2	78.4	78.4	78.4	78.4	78.5	78.6	78.8	78.9	79	79.2	79.4	79.5	75.2	75
16	74.9	75.2	78.6	78.6	78.6	78.5	78.6	78.7	78.9	79	79.1	79.3	79.5	79.6	75.2	74.9
15	74.4	75	78.7	78.7	78.7	78.7	78.7	78.8	79	79.1	79.2	79.4	79.7	79.7	75.2	74.6
14	73.8	74.7	78.8	78.8	78.8	78.8	78.8	78.9	79.1	79.2	79.4	79.6	79.8	79.9	75.2	74.4
13	73	74.2	78.9	78.9	78.9	78.9	78.9	79	79.2	79.3	79.5	79.7	79.9	80	75.2	74.1
12	72.1	73.5	79	79	79	79	79	79.1	79.3	79.4	79.6	79.8	80	80.2	75.1	73.9
11	71.1	72.6	79.2	79.2	79.2	79.2	79.1	79.2	79.4	79.5	79.7	79.9	80.2	80.3	74.9	73.6
10	70.3	71.5	79.3	79.3	79.3	79.3	79.1	79.3	79.5	79.7	79.8	80	80.3	80.4	74.8	73.3
9	70	70.6	79.4	79.4	79.4	79.4	79.2	79.3	79.6	79.8	79.9	80.1	80.4	80.5	74.5	73
8	69.7	69.9	79.3	79.3	79.3	79.3	79.3	79.4	79.7	79.9	80	80.2	80.5	80.7	74.2	72.5
7	68.8	69.7	79.1	79.1	79.1	79.1	79.3	79.5	79.8	79.9	80.1	80.4	80.6	80.8	73.8	72.4
6	67.7	68.9	78.4	78.4	78.4	78.4	78.7	79.6	79.9	80	80.2	80.4	80.8	80.9	73.4	72.3
5	66.6	67.9	77.1	77.1	77.1	77	77.4	79.4	80	80.1	80.3	80.5	80.9	81	73	72.4
4	65.7	66.7	75.3	75.2	75	74.9	75.5	76.8	78.7	79.1	79.5	79.8	80.8	81.1	72.7	72.4

Min	65.7	66.7	75.2	75.2	75	74.9	75.5	75.7	75.8	75.8	75.8	76	76	76.1	72.7	72.3
Max	75.4	75.2	79.4	79.4	79.4	79.4	79.3	79.6	80	80.1	80.3	80.5	80.9	81.1	75.2	75.5

Project no: 276006-12
Project name: Po Shek Wu Road, Sheung Shui
Title: Rail Noise Assessment Result Summary - Lmax Daytime & Evening

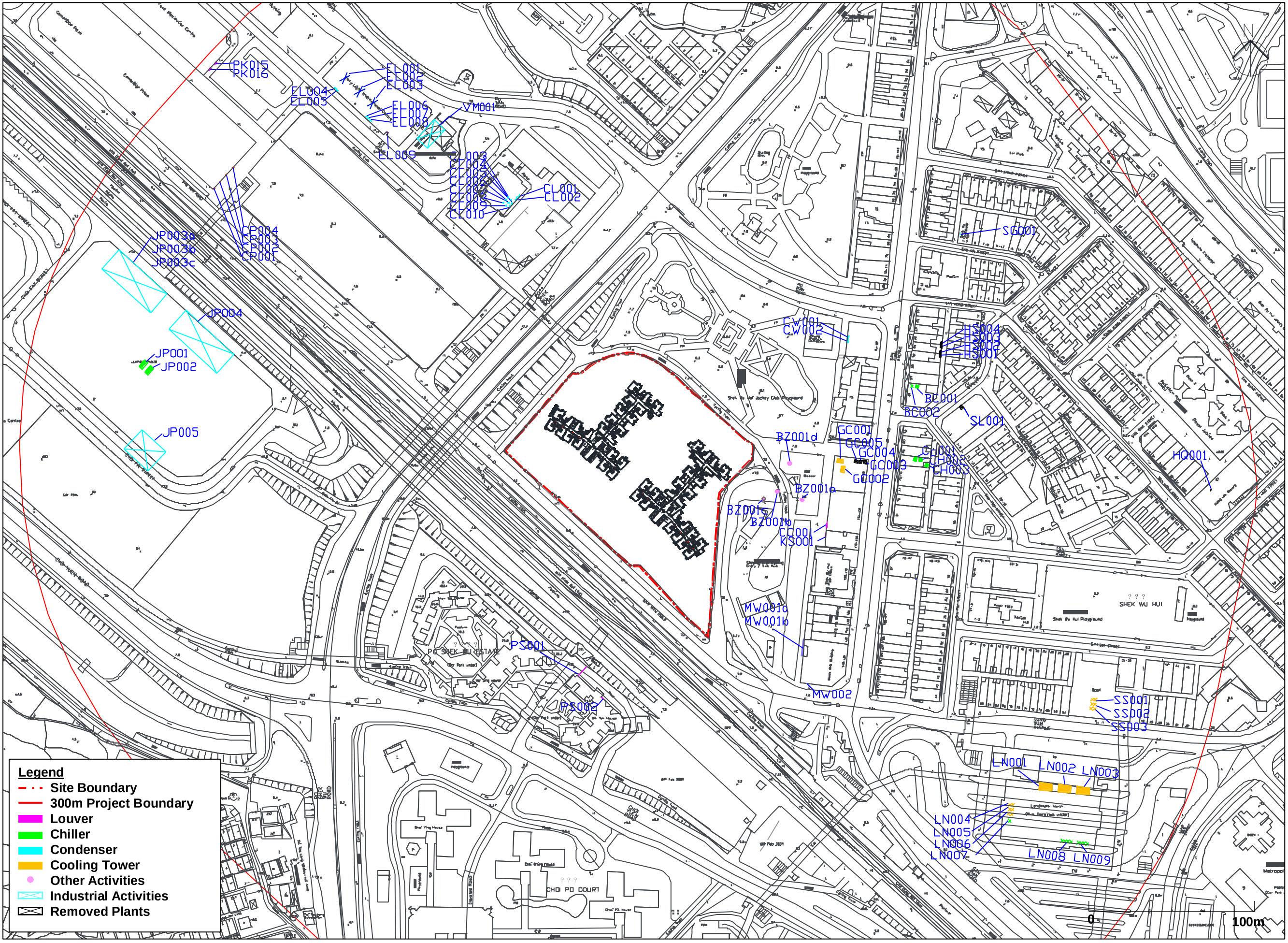
Day

NSR	R201a	R204f	R205a	R212d	R213a	R213b	R214b	R214c	R215a	R215b	R216b	R216c	R217a	R217b	R218b	R218c	R223c
ASR	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Criteria	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
45	73.5	73.1	72.6	73.7	75.2	75.2	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	72.9
44	73.6	73.2	72.7	73.8	75.3	75.3	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	73
43	73.6	73.2	72.7	73.9	75.4	75.4	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	73
42	73.7	73.3	72.8	73.9	75.5	75.5	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	72.9
41	73.8	73.4	72.8	74	75.6	75.6	75.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	73
40	73.9	73.4	72.9	74.1	75.7	75.7	75.7	75.7	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	73
39	73.9	73.5	72.9	74.2	75.8	75.8	75.8	75.8	75.8	75.7	75.7	75.7	75.7	75.7	75.7	75.7	72.9
38	74	73.5	73	74.2	75.9	75.9	75.9	75.9	75.9	75.9	75.8	75.8	75.8	75.8	75.8	75.8	72.9
37	74.1	73.6	73.1	74.3	76	76	76	76	76	76	75.9	75.9	75.9	75.9	75.9	75.9	72.9
36	74.1	73.7	73.1	74.4	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76	76	76	76	76	72.9
35	74.2	73.7	73.2	74.5	76.3	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.1	76.1	76.1	76.1	72.7
34	74.3	73.8	73.2	74.5	76.4	76.4	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	72.7
33	74.4	73.9	73.3	74.6	76.5	76.5	76.5	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	72.7
32	74.4	73.9	73.3	74.7	76.6	76.6	76.6	76.6	76.6	76.5	76.5	76.5	76.5	76.5	76.5	76.5	72.5
31	74.5	74	73.4	74.8	76.7	76.7	76.7	76.7	76.7	76.7	76.6	76.6	76.6	76.6	76.6	76.6	72.5
30	74.6	74	73.4	74.8	76.9	76.8	76.8	76.8	76.8	76.8	76.7	76.7	76.7	76.7	76.7	76.7	72.3
29	74.6	74.1	73.5	74.9	77	77	76.9	76.9	76.9	76.9	76.9	76.9	76.8	76.8	76.8	76.8	72.2
28	74.7	74.2	73.5	75	77.1	77.1	77.1	77.1	77	77	77	77	77	77	77	77	72.2
27	74.8	74.2	73.6	75	77.2	77.2	77.2	77.2	77.2	77.1	77.1	77.1	77.1	77.1	77.1	77.1	72
26	74.8	74.3	73.6	75.1	77.4	77.4	77.3	77.3	77.3	77.3	77.2	77.2	77.2	77.2	77.2	77.2	72
25	74.9	74.3	73.7	75.2	77.5	77.5	77.4	77.4	77.4	77.4	77.4	77.4	77.3	77.3	77.3	77.3	71.9
24	75	74.4	73.7	75.3	77.6	77.6	77.6	77.6	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	71.8
23	75	74.5	74.2	75.3	77.8	77.7	77.7	77.7	77.7	77.7	77.6	77.6	77.6	77.6	77.6	77.6	71.8
22	REFUGE FLOOR (22/F)																
21	75.2	74.7	74.1	75.5	78.1	78.1	78.1	78	78	78	78	77.9	77.9	77.9	77.9	77.9	71.8
20	75.4	74.6	73.9	75.6	78.2	78.2	78.2	78.2	78.1	78.1	78.1	78.1	78	78.1	78	78	71.8
19	75.4	74.4	73.8	75.6	78.4	78.4	78.3	78.3	78.3	78.3	78.2	78.2	78.2	78.2	78.2	78.2	71.9
18	75.4	74.1	73.4	75.7	78.5	78.5	78.5	78.4	78.4	78.4	78.3	78.3	78.3	78.3	78.3	78.3	71.9
17	75.2	73.6	73	75.8	78.7	78.6	78.6	78.6	78.5	78.5	78.5	78.5	78.4	78.4	78.4	78.4	72
16	75	72.9	72.6	75.8	78.8	78.8	78.7	78.7	78.7	78.7	78.6	78.6	78.6	78.6	78.6	78.6	72
15	74.6	72.8	72.7	75.8	78.9	78.9	78.9	78.8	78.8	78.8	78.7	78.7	78.7	78.7	78.7	78.7	71.9
14	73.9	72.8	72.7	75.7	79.1	79	79	79	78.9	78.9	78.9	78.8	78.8	78.8	78.8	78.8	71.4
13	73.1	72.9	72.7	75.6	79.2	79.2	79.1	79.1	79.1	79	79	79	78.9	78.9	78.9	78.9	71.1
12	72.3	72.9	72.7	75.1	79.3	79.3	79.2	79.2	79.2	79.2	79.1	79.1	79.1	79.1	79.1	79.1	70.7
11	71.2	72.9	72.7	74.6	79.5	79.4	79.4	79.3	79.3	79.3	79.2	79.2	79.2	79.2	79.2	79.2	70.3
10	70.4	72.9	72.7	74.3	79.6	79.6	79.5	79.5	79.4	79.4	79.3	79.3	79.3	79.3	79.3	79.3	69.9
9	70.1	72.9	72.8	74.3	79.7	79.7	79.6	79.6	79.6	79.5	79.5	79.4	79.4	79.4	79.4	79.4	69.4
8	69.7	72.9	72.8	74.4	79.7	79.7	79.6	79.6	79.5	79.5	79.5	79.3	79.3	79.3	79.3	79.3	69.1
7	68.8	73	72.8	74.4	79.7	79.6	79.4	79.4	79.4	79.3	79.2	79.1	79.1	79.1	79.1	79.1	68.7
6	67.8	73	72.8	74.4	79.2	79.1	79	78.9	78.8	78.8	78.6	78.4	78.4	78.4	78.4	78.4	67.8
5	66.8	73	72.8	74.4	78.1	78	77.9	77.8	77.7	77.6	77.4	77.2	77.1	77.1	77.2	77.1	66.9
4	65.8	73	72.8	74.4	76.5	76.5	76.4	76.3	76.2	76.1	75.8	75.7	75.5	75.6	75.6	75.6	66

Min	65.8	72.8	72.6	73.7	75.2	75.2	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	66
Max	75.4	74.7	74.2	75.8	79.7	79.7	79.6	79.6	79.6	79.5	79.5	79.4	79.4	79.4	79.4	79.4	73

Appendix 6.1

Site Survey Record for Identified Fixed Noise Sources

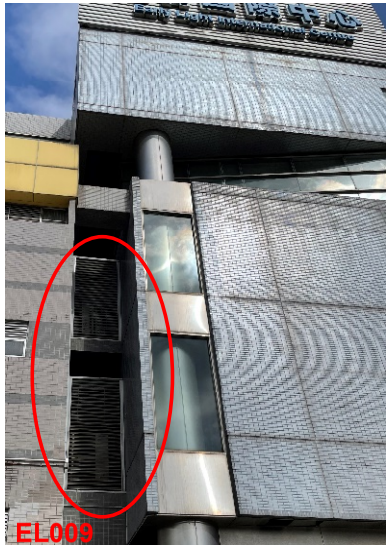

PK015
PK016
EL004
EL005
EL001
EL002
EL003
EL006
EL007
EL008
EL009
VM001
CL003
CL004
CL005
CL006
CL007
CL008
CL009
CL010
CL001
CL002
JP003a
JP003b
JP003c
CP004
CP003
CP002
CP001
JP004
JP001
JP002
JP005
CW001
CW002
SG001
HH004
HH003
HH002
HH001
BC001
BC002
SL001
HQ001
GC001
GC005
GC004
GC003
GC002
CH001
CH002
CH003
BZ001d
BZ001a
BZ001c
BZ001b
CC001
KS001
MW001c
MW001b
MW002
PS001
PS002
SS001
SS002
SS003
LN001
LN002
LN003
LN004
LN005
LN006
LN007
LN008
LN009
PO SHEK WU ESTATE
SHEK WU HUI
CHOI PO COURT
Legend
Site Boundary
300m Project Boundary
Louver
Chiller
Condenser
Cooling Tower
Other Activities
Industrial Activities
Removed Plants
0
100m

Noise Source ID: EL001-008

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Early Light International Centre (旭日國際中心)	6 Nov 2015 11 Nov 2015 12 Nov 2015 13 Nov 2015 17 Nov 2015 18 Nov 2015 19 Nov 2015 23 Nov 2015 27 Nov 2015 2 Aug 2018 10 Aug 2018 16 Dec 2021 10 Jan 2024	Office / Warehouse	• Chiller on rooftop (x3) • Condenser on rooftop (x5)	• As advised by property management office, site access was not allowed. • No nighttime building operation as advised by the operator and verified by nighttime site visit.

Noise Source ID: EL009

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Early Light International Centre (旭日國際中心)	6 Nov 2015 11 Nov 2015 12 Nov 2015 13 Nov 2015 17 Nov 2015 18 Nov 2015 19 Nov 2015 23 Nov 2015 27 Nov 2015 2 Aug 2018 10 Aug 2018 16 Dec 2021 10 Jan 2024	Office / Warehouse	• Louvers on facade (x2)	• 2 louvers on facade facing Ka Fu Close operated during daytime only. • No nighttime building operation as advised by the operators and verified by nighttime site visit.



Noise Source ID: VM001

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Sheung Shui Vegetable Marketing & Credit Co-operative Society (上水蔬菜合作社)	6 Nov 2015 11 Nov 2015 12 Nov 2015 13 Nov 2015 17 Nov 2015 18 Nov 2015 19 Nov 2015 23 Nov 2015 27 Nov 2015 2 Aug 2018 10 Aug 2018 16 Dec 2021 4 Jan 2024 10 Jan 2024	Vegetable trading	• Loading and unloading on G/F	• Based on the site observation and advised by operator, goods loading and unloading activity was conducted during daytime (0700-0730) only. No nighttime operation as advised by the operators and verified by nighttime visit.

Noise Source ID: CL001-010

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
CLP North Region Office / Sheung Shui Depot (中華電力有限公司北區辦事處 / 上水運作中心)	6 Nov 2015 11 Nov 2015 12 Nov 2015 13 Nov 2015 17 Nov 2015 18 Nov 2015 19 Nov 2015 23 Nov 2015 27 Nov 2015 2 Aug 2018 10 Aug 2018 16 Dec 2021 4 Jan 2024	Office	• Condensers on rooftop (x10)	• Based on the site observation and confirmed by the CLP officer, the condensers operated during 09:00-19:00. • Condensers CL002 and CL009 were identified in operation during site visit.

Noise Source ID: JP001-002

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Jumbo Plaza – Building rooftop (珍寶廣場 – 天台)	6 Nov 2015 11 Nov 2015 12 Nov 2015 13 Nov 2015 17 Nov 2015 18 Nov 2015 19 Nov 2015 23 Nov 2015 27 Nov 2015 2 Aug 2018 10 Aug 2018 16 Dec 2021 10 Jan 2024	Workshop / Warehouse	• Chillers on rooftop (x2)	• Based on the site observation, only one of the chillers (JP002) on rooftop was in operation during daytime. • No night-time operation was advised by the property management officer and verified by night-time site visit. • The roof of Jumbo Plaza was being used for the storage of cars for sale, but not for public parking. Based on site observation, there was no major operation on the roof. Therefore, it is not considered as fixed noise sources.

Noise Source ID: JP003-005

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Jumbo Plaza (珍寶廣場)	6 Nov 2015 11 Nov 2015 12 Nov 2015 13 Nov 2015 17 Nov 2015 18 Nov 2015 19 Nov 2015 23 Nov 2015 27 Nov 2015 2 Aug 2018 10 Aug 2018 16 Dec 2021 10 Jan 2024	Workshop / Warehouse	• Scania (Repairing workshop for heavy vehicles on G/F) • Vannex (Recycling workshop on G/F) • Warehouse on G/F	• Based on the site observation and as advised by operator, the opening hour of Scania workshop is 08:30-19:00. (No night-time operation) • Vehicle repairing activities were observed. The approximate operation time (within 30 min.) of the following equipment/activities are as follows: - Air gun: ~30 s. - Electric screwing machine: ~30 s. - Hammering: ~30 s. • Based on the site observation, the opening hour of Vannex workshop is 09:30-17:30 (No night-time operation) • Based on the site observation, the opening hour of Warehouse is 0930-17:30 (No night-time operation) • No major activities were observed during the latest site visit on 10 Jan 2024 but the workshop nature remains unchanged.


JP003a – 003c


JP004

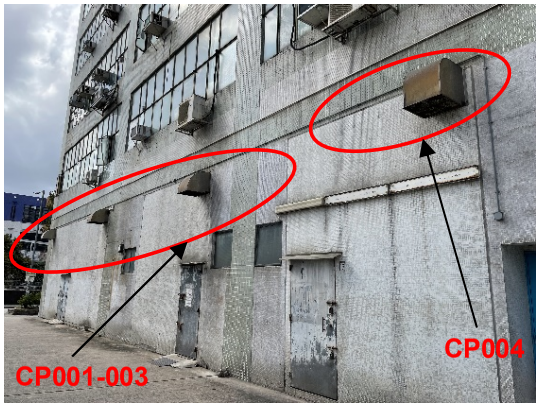
JP005

Noise Source ID: PK015-016

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Park'n Shop Sheung Shui Fresh Food Distribution Centre (上水百佳新鮮食品分發中心)	6 Nov 2015 11 Nov 2015 12 Nov 2015 13 Nov 2015 17 Nov 2015 18 Nov 2015 19 Nov 2015 23 Nov 2015 27 Nov 2015 2 Aug 2018 10 Aug 2018 16 Dec 2021 10 Jan 2024	Warehouse	• Louvers on facade (x2)	• Based on the site observation as advised by property management officer, there is 24 hours operation for louvers.

Noise Source ID: CP001-004

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Cambridge Plaza (劍橋廣場)	6 Nov 2015 11 Nov 2015 12 Nov 2015 13 Nov 2015 17 Nov 2015 18 Nov 2015 19 Nov 2015 23 Nov 2015 27 Nov 2015 2 Aug 2018 10 Aug 2018 16 Dec 2021 10 Jan 2024	Industrial	• Exhaust fans on facade (x4)	• Based on the site observation, 3 exhaust fans (CP001-003) operated during daytime and night-time. • No operation was observed for CP004.



Noise Source ID: BC001-002

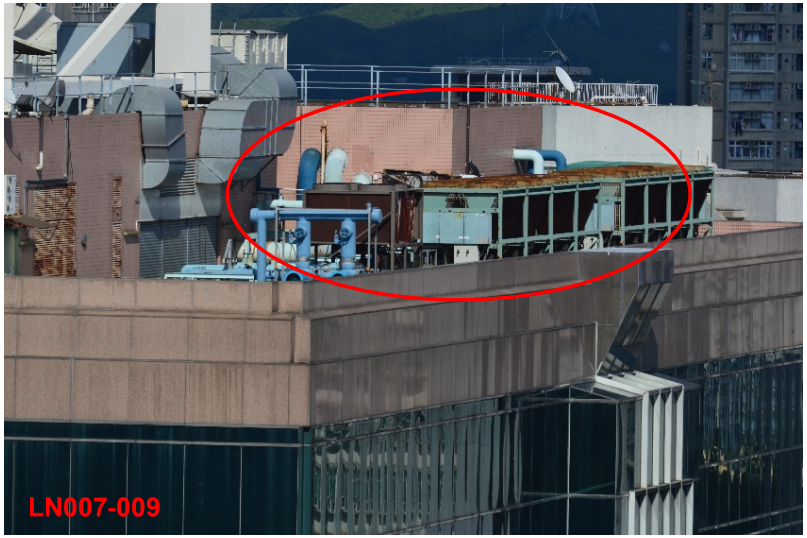
Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Bank of China (Hong Kong) Sheung Shui Branch (中國銀行(香港)上水分行)	6 Nov 2015 11 Nov 2015 12 Nov 2015 13 Nov 2015 17 Nov 2015 18 Nov 2015 19 Nov 2015 23 Nov 2015 27 Nov 2015 23 Aug 2016 12 Sep 2016 30 Sep 2016 2 Aug 2018 10 Aug 2018 16 Dec 2021	Commercial	• Chillers on rooftop (x2)	• Access not allowed. • No night-time business operation was observed during site visit. • The 2 chillers operated during daytime only.

Noise Source ID: CW001-002

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Chuen Wo Building (全和大樓)	6 Nov 2015 11 Nov 2015 12 Nov 2015 13 Nov 2015 17 Nov 2015 18 Nov 2015 19 Nov 2015 23 Nov 2015 27 Nov 2015 23 Aug 2016 08 Sep 2016 12 Sep 2016 30 Sep 2016 2 Aug 2018 10 Aug 2018 16 Dec 2021	Commercial on ground floor	• Condensers on facade (x2)	• No night-time operation was observed during site visit. • The 2 condensers operated during daytime only.

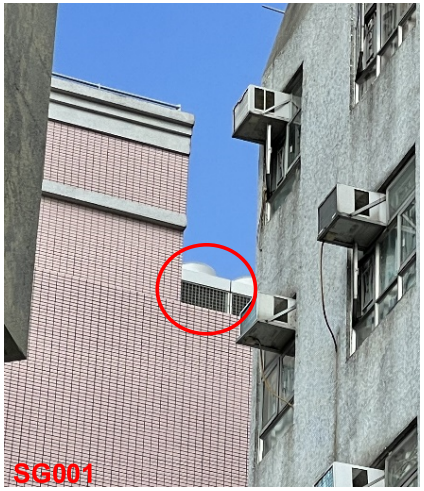
Noise Source ID: LN001-009

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Landmark North (上水廣場)	23 Aug 2016 08 Sep 2016 12 Sep 2016 30 Sep 2016 2 Aug 2018 10 Aug 2018 16 Dec 2021	Shopping mall	• Cooling towers on rooftop (x6) • Chillers on rooftop (x3)	• Access not allowed. • No night-time operation was confirmed by property management officer.



Noise Source ID: SG001

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Shek Wu Hui Gospel Hall (石湖墟福音堂)	08 Sep 2016 12 Sep 2016 30 Sep 2016 2 Aug 2018 10 Aug 2018 16 Dec 2021	Church	• Chiller on rooftop	• Access not allowed. • No night-time operation as confirmed by gospel hall's staff.



Noise Source ID: SS001-003

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Sheung Shui Spot (上水匯)	23 Aug 2016 08 Sep 2016 12 Sep 2016 30 Sep 2016 2 Aug 2018 10 Aug 2018 16 Dec 2021	Shopping mall	• Cooling towers on rooftop (x3)	• Access not allowed • No night-time operation as confirmed by property management officer.

Noise Source ID: CC001

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Cheung Chi Hang Building (張知行大廈)	5 April 2017 2 Aug 2018 10 Aug 2018 16 Dec 2021 10 Jan 2022	Commercial	• Exhaust fans on facade (x2) • Condensers (x8)	• Based on site observation, the exhaust fans and condensers operated during daytime only. No night-time operation was observed.

Noise Source ID: KS001

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Kam Shing Building (金誠大廈)	16 Dec 2021 10 Jan 2022	Commercial	• Louvers on facade	• Based on site observation, the louvers operated during daytime only. No night-time operation was observed.

Noise Source ID: GC001-002

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Golden City Seafood Restaurant (金都海鮮酒家)	5 April 2017 2 Aug 2018 10 Aug 2018 16 Dec 2021	Commercial	• GC001-002: Cooling Towers on rooftop (x2) • GC003-005: Condensers on rooftop (x3) – no longer available	• During the site visit dated 16 Dec 2021, the 3 condensers (GC003-005) identified in Year 2017/2018 were removed. • For GC001-002, nighttime operation was observed during nighttime visit. During site visit on 16 Dec 2021, only GC001 was in operation during nighttime.

Photo Record in 2018:

Photo Record in 2021:

Noise Source ID: MW001a-001b

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Moon Wah Building (滿華大廈)	6 Nov 2015 11 Nov 2015 12 Nov 2015 13 Nov 2015 17 Nov 2015 18 Nov 2015 19 Nov 2015 23 Nov 2015 27 Nov 2015 23 Aug 2016 08 Sep 2016 12 Sep 2016 30 Sep 2016 2 Aug 2018 10 Aug 2018 16 Dec 2021 10 Jan 2022	Commercial	• Louvers, chillers/ cooling tower	• Nighttime operation was observed during nighttime visit.

Noise Source ID: MW002

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Moon Wah Building (滿華大廈)	16 Dec 2021 10 Jan 2022	Commercial	• Louver on facade	• No nighttime operation was observed during nighttime visit.

Noise Source ID: BZ001a-001d

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Shek Wu Hui Agricultural Produce Bazaar (石湖墟農產品分銷店)	23 Aug 2016 08 Sept 2016 12 Sept 2016 30 Sept 2016 20 Oct 2016 10 Nov 2016 5 April 2017 2 Aug 2018 10 Aug 2018 16 Dec 2021 28 Dec 2021 6 Jan 2022 10 Jan 2022	Market	• Loading and unloading • Pumper truck for fisheries stores • Pumper truck for street sweeping • Crowd noise	• The bazaar operation hours are from 6 am to 11am and FEHD street cleaning staff will start working from 11am to 12pm everyday. • Pumper truck operation was observed along with bazaar operation. • Pumper truck for street sweeping was observed after bazaar operation (only during daytime operation). As advised by the operator, the pumper truck will only be located at designated parking location.


BZ001a


BZ001b


BZ001d

BZ001c

Noise Source: CH001-003

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Chong Hing Bank(創興銀行上水分行)	2 Aug 2018 10 Aug 2018 16 Dec 2021	Commercial	• Condensers on rooftop (x3)	• No night-time operation was observed during site visit. • The 3 condensers operated during daytime only.

Noise Source: PS001-002

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Po Shek Wu Estate Retail and Restaurant (寶石湖邨商舖)	16 Dec 2021 18 Dec 2021 23 Dec 2021 28 Dec 2021	Retails	• Louver on facade	• New sources after occupation of Po Shek Wu Estate. • Night-time operation was observed for PS002 during site visit.

Noise Source ID: HS001-004 (Removed)

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Ex-Hang Seng Bank San Fung Avenue Branch (前恒生銀行新豐路分行)	6 Nov 2015 11 Nov 2015 12 Nov 2015 13 Nov 2015 17 Nov 2015 18 Nov 2015 19 Nov 2015 23 Nov 2015 27 Nov 2015 23 Aug 2016 08 Sep 2016 12 Sep 2016 30 Sep 2016 2 Aug 2018 10 Aug 2018 16 Dec 2021	Commercial on ground floor	Small condensers on facade (x4)	• During the site visit dated 16 Dec 2021, the condensers HS001 – HS002 and HS-003 – HS004 identified in Year 2015/16 were removed and replaced by 4 quiet and smaller condensers. No significant noise from the small condensers was observed.

Photo Record in Year 2016:

Photo Record in 2021:

Noise Source ID: SL001 (Removed)

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Shun Chung Lau (愼忠樓)	23 Aug 2016 08 Sep 2016 12 Sep 2016 30 Sep 2016 2 Aug 2018 10 Aug 2018 16 Dec 2021	Commercial	• Condenser on podium (x1)	• During the site visit dated 16 Dec 2021, the condenser SL001 identified in Year 2016 was removed.

Photo Record in Year 2016/2018:

Photo Record in 2021:

Noise Source: HQ001 (Removed)

Name	Date of observation	Type of industrial operation	Noisy activities /sources based on site observation and/or employees information	Site record and/or information provided by operators / employees
Hang Lok Square (行樂坊)	08 Sep 2016 12 Sep 2016 30 Sep 2016 2 Aug 2018 10 Aug 2018 16 Dec 2021	Shopping Mall	• Condenser on rooftop (x1)	• During the site visit dated 16 Dec 2021, the condenser HQ001 identified in Year 2016/2018 was removed and replaced by a quiet and smaller condenser. No significant noise from the small condenser was observed.

Photo Record in Year 2016/2018:

Photo Record in 2021:

Appendix 6.2

Measured Sound Pressure Level (SPL) for Fixed Noise Sources

Project: Po Shek Wu Road
Project number: 276006-12
Title: Inventory of Fixed Noise Sources

Source Location	Source Description	Source ID	Source Height, mPD	Max Measured SPL, dB(A)	Measured Distance (m)	Operation Period		Assumptions	Remarks
						Daytime	Nighttime		
Early Light International Centre	Chiller on rooftop	EL001	32.1	82.4	5	Y	N	Reference was made to the measured SPL for plant of similar type, size (LxWxH=~4mx2mx2m), number of fans (8 fans), nature (chiller) and scale from other HKHA project (i.e. HC006 in EAS for A20 Proposed Public Housing Development at Sheung Shui Area 30).	As advised by property management office, site access was not allowed. No nighttime building operation as advised by the operator and verified by nighttime site visit.
		EL002	32.1	82.4	5	Y	N		
		EL003	32.1	82.4	5	Y	N		
	Condenser on rooftop	EL004	32.1	61.6	3	Y	N	Reference was made to the measured SPL for plant of similar type , size (LxWxH=~2mx1mx1.5m), number of fans (2 fans), nature (condenser) and scale from previous PSW Road EAS report dated October 2018 for Scheme 7-B Option 15C.	
		EL005	32.1	61.6	3	Y	N		
		EL006	32.1	61.6	3	Y	N		
		EL007	32.1	61.6	3	Y	N		
		EL008	32.1	61.6	3	Y	N		
Early Light International Centre (Louver on facade)	Louvers on façade	EL009	16.1	63.3	5	Y	N	-	No nighttime building operation was advised by the operator and verified by nighttime site visit.
Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading on G/F	VM001	9.1	68.8	7	Y	N	-	No nighttime operation was advised by the operators and verified by nighttime visit.
CLP Region Office (Rooftop)	Condensers on rooftop	CL001	20.8	62.2	3	Y	N	Assume the same measured SPL as CL002 for plant of similar type, size (LxWxH=~2mx1mx2m), number of fans (2 fans), nature (condenser) and scale.	No nighttime operation was advised by the CLP officer. During site visit, only CL002 was in operation. Therefore, measurement was conducted for CL002.
		CL002	20.8	62.2	3	Y	N	-	
		CL003	20.8	61.7	2	Y	N	Assume the same measured SPL as CL009 for plant of similar type, size (LxWxH=~2mx1mx2m), number of fans (1 fan), nature (condenser) and scale.	No nighttime operation was confirmed by the CLP officer. During site visit, only CL009 was in operation. Therefore, measurement was conducted for CL009.
		CL004	20.8	61.7	2	Y	N		
		CL005	20.8	61.7	2	Y	N		
		CL006	20.8	61.7	2	Y	N		
		CL007	20.8	61.7	2	Y	N		
		CL008	20.8	61.7	2	Y	N		
		CL009	20.8	61.7	2	Y	N	-	
		CL010	20.8	61.7	2	Y	N	Assume the same measured SPL as CL009 for plant of similar type, size (LxWxH=~2mx1mx2m), number of fans (1 fan), nature (condenser) and scale.	
Jumbo Plaza (Rooftop)	Chillers on rooftop	JP001	27.6	80.5	7	Y	N	Assume the same measured SPL as JP002 for plant of similar type, size (LxWxH=~4mx2mx2m), number of fans (8 fans), nature (chiller) and scale.	No nighttime operation was confirmed by property management office and verified by nighttime visit. During site visit, only JP002 was in operation. Therefore, measurement was conducted for JP002.
		JP002	27.6	80.5	7	Y	N	-	
Jumbo Plaza (Scania to San Wan Road)	Air gun	JP003a	7.6	67.6	10	Y	N	No major activities were observed during the latest site visit on 10 Jan 2024 but the workshop nature remains unchanged. Assume the same sound pressure level as conducted on 10 Aug 2018 for conservative assessment purpose. The approximate observed total operating time (within 30 mins) of the noise emitting activities is around 30s. 2 mins operating time is assumed for calculation for conservative assessment purpose.	No nighttime operation was advised by operators and verified by nighttime visit.
	Electric screwing machine	JP003b	7.6	88.6	5	Y	N		
	Hammering	JP003c	7.6	80.5	3	Y	N		
Jumbo Plaza (Vannex to San Wan Road)	Recycling works	JP004	7.6	68.7	3	Y	N	No major activities were observed during the latest site visit on 10 Jan 2024 but the workshop nature remains unchanged. Assume the same sound pressure level as conducted on 10 Aug 2018 for conservative assessment purpose.	No nighttime operation was advised by operators and verified by nighttime visit.
Jumbo Plaza (Warehouse to Choi Fai Street)	Loading and unloading	JP005	7.6	64.7	8	Y	N	No major activities were observed during the latest site visit on 10 Jan 2024 but the workshop nature remains unchanged. Assume the same sound pressure level as conducted on 10 Aug 2018 for conservative assessment purpose.	No nighttime operation was advised by operators and verified by nighttime visit.

Project: Po Shek Wu Road
Project number: 276006-12
Title: Inventory of Fixed Noise Sources

Source Location	Source Description	Source ID	Source Height, mPD	Max Measured SPL, dB(A)	Measured Distance (m)	Operation Period		Assumptions	Remarks
						Daytime	Nighttime		
Park'n Sheung Shui Fresh Food Distribution Centre	Louvers on façade	PK015	31.6	74.1	1	Y	Y	Reference was made to measured SPL for plant of similar type, size (LxW=~1mx1m), nature (louver) and scale from other HKHA project (i.e. PK019 in EAS for A20 Proposed Public Housing Development at Sheung Shui Area 30).	Nighttime operation confirmed by the engineering manager and verified by site visits.
		PK016	31.6	74.1	1	Y	Y		
Cambridge Plaza	Exhaust fans on façade	CP001	10.7	75.4	1	Y	Y	-	Nighttime operation was observed during nighttime visit.
		CP002	10.7	70.9	1	Y	Y	-	
		CP003	10.7	73.7	1	Y	Y	-	
		CP004	10.7	75.4	1	Y	Y	Assume the same measured SPL as CP001 for plant of similar type, size (LxW=~0.5mx0.5m), nature (exhaust fan) and scale.	
Bank of China (Rooftop)	Chillers on rooftop	BC001	19.7	61.7	7	Y	N	Measurement was conducted for BC001 and BC002 together. Assumed same measured SPL for plant of similar nature for conservative assessment.	No nighttime operation was observed during nighttime visit.
		BC002	19.7	61.7	7	Y	N		
Chuen Wo Building (Facade)	Condensers on façade	CW001	11.6	59.0	3	Y	N	-	No nighttime operation was observed during nighttime visit. During site visit, only CW001was in operation. Therefore, measurement was conducted for CW001.
		CW002	11.6	59.0	3	Y	N	Assume the same measured SPL as CW001 due to similar nature for plant of similar type, size (LxWxH=~1mx1mx1.5m), number of fans (1 fan), nature (condenser) and scale.	
Landmark North	Cooling Towers on rooftop	LN001	101.0	72.0	2	Y	N	Reference was made to measured SPL for plant of similar type, size (LxWxH=~7mx4mx6m), number of fans (1 fan), nature (cooling tower) and scale from other HKHA project (i.e. CHK01 in EAS for A1 Proposed Public Housing Development at On Muk Street).	Access not allowed. No nighttime operation was confirmed by property management office.
		LN002	101.0	72.0	2	Y	N		
		LN003	101.0	72.0	2	Y	N		
		LN004	101.0	72.0	2	Y	N		
		LN005	101.0	72.0	2	Y	N		
		LN006	101.0	72.0	2	Y	N		
	Chiller on rooftop	LN007	101.0	71.0	3	Y	N	Conservative reference was made from a 6-fan chiller in other HKHA projects, as no relevant data for 4-fan chiller is available. Reference was made to measured SPL for plant of similar type, size (LxWxH=~4mx2mx2m), number of fans (6 fans), nature (chiller) and scale from other HKHA project (i.e. COP01 in EAS for A1 Proposed Public Housing Development at On Muk Street).	
		LN008	101.0	75.0	2	Y	N	Reference was made to measured SPL for plant of similar type, size (LxWxH=~8mx2mx2m), number of fans (16 fans), nature (chiller) and scale from other HKHA project (i.e. COP06 in EAS for A1 Proposed Public Housing Development at On Muk Street).	
		LN009	101.0	75.0	2	Y	N		
Shek Wu Hui Gospel Hall (Rooftop)	Chillers on rooftop	SG001	32.2	80.5	7	Y	N	Reference was made to measured SPL for plant of similar type, size (LxWxH=~4mx2mx2m), number of fans (8 fans), nature (chillers) and scale, from other HKHA project (i.e. JP001 in EAS forA20 Proposed Public Housing Development at Sheung Shui Area 30).	Access not allowed. No nighttime operation was confirmed by hall's staff.
Sheung Shui Spot	Cooling Towers on rooftop	SS001	88.8	72.0	2	Y	N	Reference was made to measured SPL for plant of similar type, size (LxWxH=~7mx4mx6m), number of fans (1 fan), nature (cooling tower) and scale, from other HKHA project (i.e. CHK01 in EAS for A1 Proposed Public Housing Development at On Muk Street).	Access not allowed. No nighttime operation was confirmed by property management office.
		SS002	88.8	72.0	2	Y	N		
		SS003	88.8	72.0	2	Y	N		
Cheung Chi Hang Building	Exhaust fans on façade/ Condensers	CC001	13.7	65.2	3	Y	N	-	No nighttime operation was observed during nighttime visit.
Kam Shing Building	Louvers on façade	KS001	11.7	67.4	3	Y	N	-	No nighttime operation was observed during nighttime visit.
Golden City Seafood Restaurant	Cooling Towers on rooftop	GC001	25.7	52.3	10	Y	Y	-	Nighttime operation was observed during nighttime visit. During site visit, only GC001 was in operation during nighttime. Therefore, measurement was conducted for GC001.
		GC002	25.7	52.3	10	Y	Y	Assumed the same measured SPL as GC001 for plant of similar type, size (DxH = ~3mx2.5m & DxH = ~1.9mx2m), number of fans (2 fans), nature (cooling towers) and scale	

Project: Po Shek Wu Road
Project number: 276006-12
Title: Inventory of Fixed Noise Sources

Source Location	Source Description	Source ID	Source Height, mPD	Max Measured SPL, dB(A)	Measured Distance (m)	Operation Period		Assumptions	Remarks
						Daytime	Nighttime		
Moon Wah Building	Louvers, Chillers/Cooling Tower	MW001a	9.7	69.5	4	Y	Y	-	Nighttime operation was observed during nighttime visit.
		MW001b	9.7	71.1	3	Y	Y	-	
	Louver on façade	MW002	11.6	80.2	1	Y	N	-	No nighttime operation was observed during nighttime visit.
Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	BZ001a	7.8	66.5	3	Y	Y	-	Bazaar operation was observed from 6am to 11am.
	Pumper Truck for fisheries stores	BZ001b	7.5	70.5	2	Y	Y	-	Pumper truck operation was observed along with bazaar operation.
	Pumper Truck for street sweeping	BZ001c	7.5	81.1	4	Y	N	-	Pumper truck for street sweeping was observed after bazaar closed (i.e. 11am).
	Crowd noise	BZ001d	7.8	63.8	5	Y	Y	-	Bazaar operation was observed from 6am to 11am.
Chong Hing Bank	Condensers on rooftop	CH001	19.7	66.3	3	Y	N	Reference was made to the measured SPL for plant of similar type , size (LxWxH=~1mx1mx1.7m), number of fans (1 fan), nature (condenser) and scale, i.e. HQ001 from previous PSW Road EAS report dated October 2018 for Scheme 7-B Option 15C.	Access not allowed. No nighttime operation was observed during nighttime visit.
		CH002	19.7	66.3	3	Y	N		
		CH003	19.7	66.3	3	Y	N		
Po Shek Wu Estate	Louvers on façade	PS001	13.2	71.8	2	Y	N	-	No nighttime operation was observed during nighttime visit.
		PS002	13.2	55.3	2	Y	Y	-	Nighttime operation was observed during nighttime visit.

Appendix 6.3

Methodology and Assumptions for Fixed Noise Impact Assessment

Noise Measurement for Different Identified Noise Sources

1. Sound Pressure Level (SPL) from each fixed noise source was taken on site. The assumptions and details of noise measurement are summarized as follow:

Identified Noise Sources	**Assumptions / Details**
Early Light International Centre	● Point Sources ● Operation: Chillers and condensers on rooftop, and louvers on facade ● Operation Period: Daytime only (confirmed by operator and site visits)
Sheung Shui Vegetable Marketing & Credit Co-operative Society	● Point Source ● Operation: Loading and unloading at G/F ● Operation Period: Daytime only (confirmed by operator and site visits)
CLP Region Office/ Sheung Shui Depot	● Point Sources ● Operation: Condensers on rooftop ● Operation Period: Daytime only (confirmed by property management office and site visits)
Jumbo Plaza	● Point Sources ● Operation: Chillers on rooftop ● Operation Period: Daytime only (confirmed by operators and site visits)
Jumbo Plaza (Scania)	● Point Sources ● Operation: Air gun, electric screwing and hammering at G/F ● Operation Period: Daytime only (confirmed by operators and site visits)
Jumbo Plaza (Vannex)	● Point Source ● Operation: Recycling works at G/F ● Operation Period: Daytime only (confirmed by site visits)
Jumbo Plaza (Warehouse)	● Point Source ● Operation: Loading and unloading at G/F ● Operation Period: Daytime only (confirmed by site visits)
Park'n Shop Sheung Shui Fresh Food Distribution Centre	● Point Source ● Operation: Louvers on facade ● Operation Period: Daytime and Night-time (confirmed by property management office and site visits)
Cambridge Plaza	● Point Sources ● Operation: Exhaust fans on facade ● Operation Period: Daytime and Night-time (confirmed by operators and site visits)
Bank of China (Hong Kong) Sheung Shui Branch	● Point Sources ● Operation: Chillers on rooftop ● Operation Period: Daytime only (confirmed by site visits)

Identified Noise Sources	**Assumptions / Details**
Chuen Wo Building	● Point Sources ● Operation: Condensers on facade Operation Period: Daytime only (confirmed by site visits)
Landmark North	● Point Sources ● Operation: Cooling towers and chillers on rooftop Operation Period: Daytime only (confirmed by property management office)
Shek Wu Hui Gospel Hall	● Point Sources ● Operation: Chiller on rooftop ● Operation Period: Daytime only (confirmed by staffs)
Sheung Shui Spot	● Point Sources ● Operation: Exhaust fans on façade and condensers ● Operation Period: Daytime only (confirmed by property management office)
Cheung Chi Hang Building	● Point Sources ● Operation: Louvers on facade ● Operation Period: Daytime only (confirmed by site visits)
Kam Shing Building	● Point Sources ● Operation: Louvers on façade ● Operation Period: Daytime only (confirmed by visits)
Golden City Seafood Restaurant	● Point Sources ● Operation: Cooling towers on rooftop ● Operation Period: Daytime and Night-time (confirmed by site visits)
Moon Wah Building	● Point Sources ● Operation: Louvers, chillers/cooling towers on façade and louver on facade ● Operation Period: Daytime and Night-time (confirmed by site visits); one of the louvers operates Daytime only (confirmed by site visits)
Shek Wu Hui Agricultural Produce Bazaar	● Point Sources ● Operation: Loading and unloading, pumper trucks for fisheries stores in the bazaar and street sweeping and crowd noise ● Operation Period: Daytime and Night-time (confirmed by site visits); pumper truck for street sweeping does not have night-time operation (confirmed by site visits)
Chong Hing Bank	● Point Sources ● Operation: Condensers on rooftop ● Operation Period: Daytime only (confirmed by site visits)
Po Shek Wu Estate	● Point Sources ● Operation: Louvers on façade ● Operation Period: Daytime and Night-time (confirmed by site visits); one of the louvers operates Daytime only (confirmed by site visits)

Calculation of Predicted SPL at NSRs

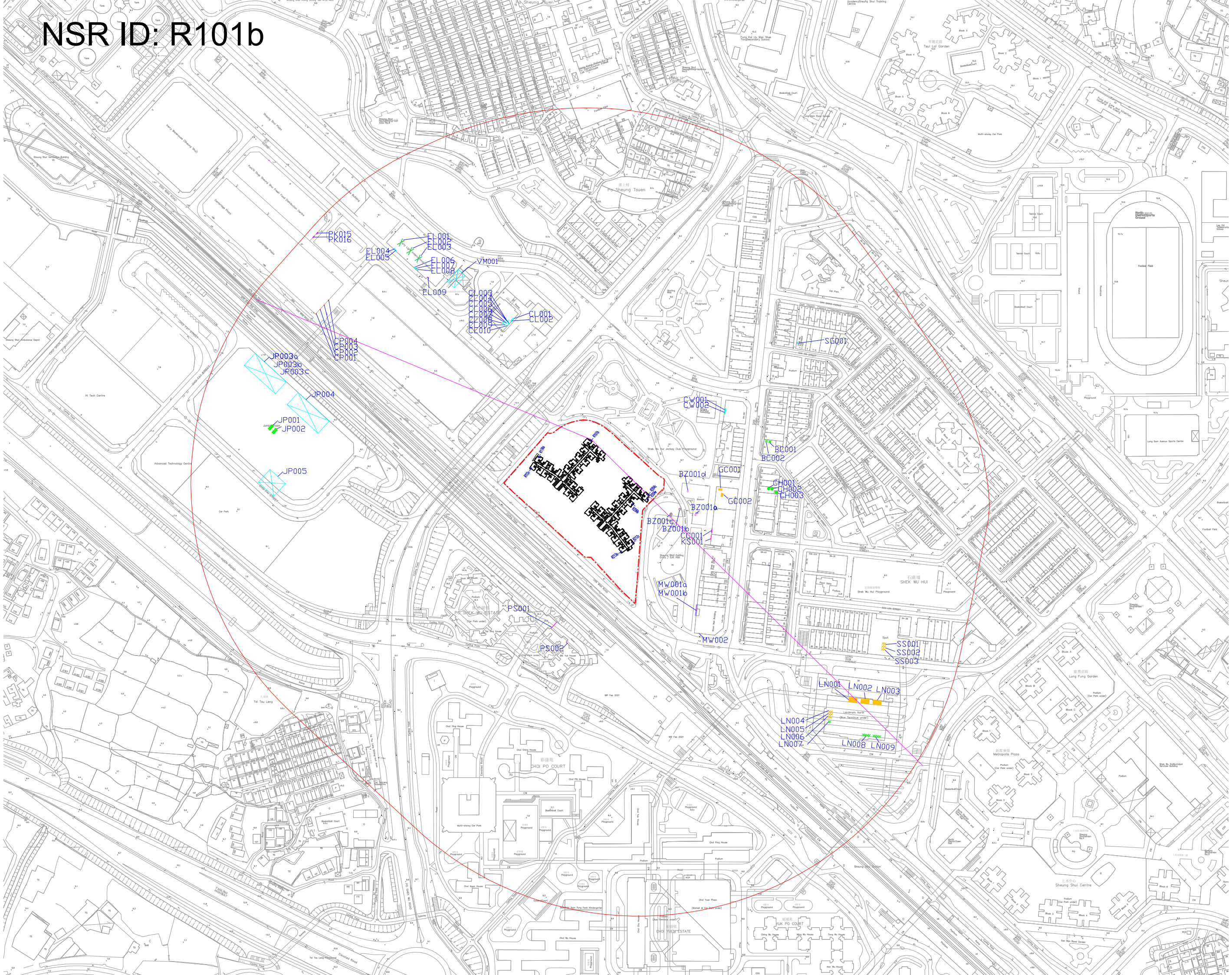
2. Predicted daytime and night-time SPLs at NSRs are corrected from the measured SPL with the following parameters:

Correction	Calculation / Assumption (dB(A))
Distance Correction	-[20 log (d / $d_{measure}$)] *where* d = shortest slant distance from NSR to center of noise source; and $d_{measure}$ = horizontal distance from measurement location to center of noise source
Time Correction	[10 log (t / 30)] *where* t = worst operating time of the noise source (mins) Only applied to operation activities of Jumbo Plaza (Scania)
Tonality Correction	Tonal character has been identified due to the operation of the street washing vehicle at the bazaar and a +6dB(A) correction has been applied. No tonal character has been identified for other sources.
Intermittency Correction	No intermittent character has been identified for all noise sources and therefore no correction has been applied.
Impulsiveness Correction	No impulsiveness character has been identified for all noise sources and therefore no correction has been applied.
Directivity Correction	During the fixed noise measurement for the sources with directional characteristics, such as louvres and exhaust fans, the microphone was pointed to the source directly (at 0^0). No reduction due to directivity has been applied for conservative assessment.
Facade Correction	+3dB(A)
Screening Effect Correction	-5 dB(A) screening correction is applied for partial screening.

Appendix 6.4

Calculation of Fixed Noise Levels at Receivers for Residential Blocks (Basecase Scenario)

NSR ID: R101b


PK015
PK016
EL001
EL002
EL003
EL004
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EL008
EL009
VM001
CL001
CL002
CL003
CL004
CL005
CL006
CL007
CL008
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CL010
CP004
CP003
CP002
CP001
JP003a
JP003b
JP003c
JP004
JP001
JP002
JP005
CW001
CW002
BC001
BC002
GC001
GC002
BZ001d
BZ001a
BZ001c
BZ001b
CH001
CH002
CH003
CC001
KS001
MW001a
MW001b
MW002
PS001
PS002
SG001
SS001
SS002
SS003
LN001
LN002
LN003
LN004
LN005
LN006
LN007
LN008
LN009
Po Sheung Tsuen
Tsui Lai Garden
SHEK WU HUI
Lung Fung Garden
Metropolis Plaza
Sheung Shui Centre
CHOI PO COURT
CHOI YUEN ESTATE
YUK PO COURT
Tai Tau Leng
Advanced Technology Centre
Car Park

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R101b**
NSR x coord:	**830967.2**
NSR y coord:	**840591.2**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	264	30	-	-34	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	252	30	-	-34	-	3		51	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	241	30	-	-34	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	264	30	-	-39	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	262	30	-	-39	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	238	30	-	-38	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	236	30	-	-38	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	234	30	-	-38	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	222	30	-	-33	-	3		33	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	204	30	-	-29	-	3		43	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	139	30	-	-35	-	3		30	-	-
CL002			Y	N	62.2	2.5	830890	840706	21	139	30	-	-35	-	3		30	-	-
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	142	30	-	-40	-	3		25	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	140	30	-	-39	-	3		25	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	138	30	-	-39	-	3		25	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	142	30	-	-40	-	3		25	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	140	30	-	-39	-	3		25	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	141	30	-	-39	-	3		25	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	139	30	-	-39	-	3		25	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	137	30	-	-39	-	3		25	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	330	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	331	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	292	30	-	-49	-	3		29	29	-
CP002			Y	Y	70.9	1.0	830706	840716	11	290	30	-	-49	-	3		25	25	-
CP003			Y	Y	73.7	1.0	830710	840721	11	289	30	-	-49	-	3		27	27	-
CP004			Y	Y	75.4	1.0	830714	840725	11	287	30	-	-49	-	3		29	29	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	309	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	305	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	325	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	325	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	325	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	270	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	317	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	168	30	-	-28	-	3		37	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	172	30	-	-28	-	3		37	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	133	30	-	-33	-	3		29	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	132	30	-	-33	-	3		29	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	174	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	193	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	214	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	361	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	361	30	-	-45	-	3		30	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	361	30	-	-45	-	3		30	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	361	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	361	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	361	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	361	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	393	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	401	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	220	30	-	-30	-	3		54	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	347	30	-	-45	-	3		30	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	348	30	-	-45	-	3		30	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	349	30	-	-45	-	3		30	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	146	30	-	-34	-	3		34	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	150	30	-	-34	-	3		36	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	133	30	-	-22	-	3		33	33	-
GC002			Y	Y	52.3	10.0	831092	840538	26	136	30	-	-23	-	3		33	33	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	126	30	-	-32	-	3		37	37	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	111	30	-	-35	-	3		39	39	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	107	30	-	-30	-	3	6	60	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	108	30	-	-27	-	3		40	40	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	177	30	-	-35	-	3		34	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	180	30	-	-36	-	3		34	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	185	30	-	-36	-	3		34	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	183	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	197	30	-	-	-	-		-	-	No line of sight.

Tonality	0	0
Total SPL	63	45
Criteria ANL	70	60
Exceedance	-	-

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R101b**
NSR x coord:	**830967.2**
NSR y coord:	**840591.2**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	265	30	-	-34	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	253	30	-	-34	-	3		51	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	243	30	-	-34	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	265	30	-	-39	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	263	30	-	-39	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	239	30	-	-38	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	237	30	-	-38	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	236	30	-	-38	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	226	30	-	-33	-	3		33	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	209	30	-	-29	-	3		42	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	144	30	-	-35	-	3		30	-	-
CL002			Y	N	62.2	2.5	830890	840706	21	144	30	-	-35	-	3		30	-	-
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	147	30	-	-40	-	3		25	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	145	30	-	-40	-	3		25	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	143	30	-	-40	-	3		25	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	147	30	-	-40	-	3		25	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	145	30	-	-40	-	3		25	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	146	30	-	-40	-	3		25	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	144	30	-	-40	-	3		25	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	143	30	-	-40	-	3		25	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	332	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	332	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	295	30	-	-49	-	3		29	29	-
CP002			Y	Y	70.9	1.0	830706	840716	11	294	30	-	-49	-	3		25	25	-
CP003			Y	Y	73.7	1.0	830710	840721	11	292	30	-	-49	-	3		27	27	-
CP004			Y	Y	75.4	1.0	830714	840725	11	291	30	-	-49	-	3		29	29	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	310	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	307	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	328	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	328	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	328	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	274	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	320	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	173	30	-	-28	-	3		37	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	176	30	-	-28	-	3		37	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	140	30	-	-33	-	3		29	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	140	30	-	-33	-	3		29	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	180	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	199	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	218	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	356	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	356	30	-	-45	-	3		30	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	356	30	-	-45	-	3		30	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	356	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	356	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	356	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	357	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	389	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	397	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	222	30	-	-30	-	3		53	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	343	30	-	-45	-	3		30	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	345	30	-	-45	-	3		30	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	346	30	-	-45	-	3		30	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	152	30	-	-34	-	3		34	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	156	30	-	-34	-	3		36	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	137	30	-	-23	-	3		33	33	-
GC002			Y	Y	52.3	10.0	831092	840538	26	140	30	-	-23	-	3		32	32	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	134	30	-	-33	-	3		37	37	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	120	30	-	-36	-	3		38	38	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	117	30	-	-30	-	3	6	60	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	117	30	-	-27	-	3		39	39	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	181	30	-	-36	-	3		34	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	184	30	-	-36	-	3		34	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	189	30	-	-36	-	3		33	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	188	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	202	30	-	-	-	-		-	-	No line of sight.

Tonality	0	0
Total SPL	62	44
Criteria ANL	70	60
Exceedance	-	-

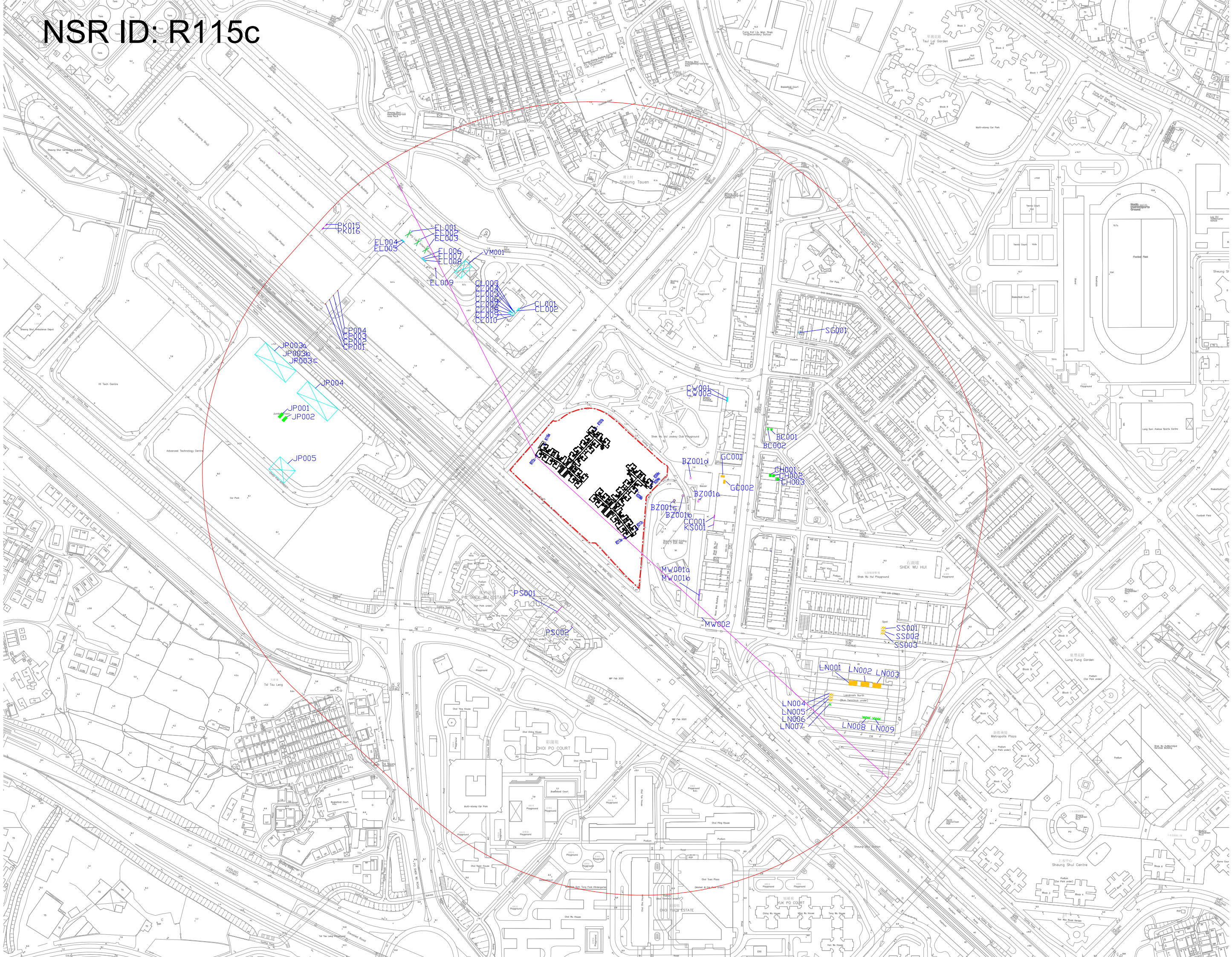
Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R101b**
NSR x coord:	**830967.2**
NSR y coord:	**840591.2**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	270	30	-	-35	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	258	30	-	-34	-	3		51	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	247	30	-	-34	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	270	30	-	-39	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	268	30	-	-39	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	244	30	-	-38	-	3		26	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	242	30	-	-38	-	3		26	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	241	30	-	-38	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	233	30	-	-33	-	3		33	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	217	30	-	-30	-	3		42	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	154	30	-	-36	-	3		29	-	-
CL002			Y	N	62.2	2.5	830890	840706	21	154	30	-	-36	-	3		29	-	-
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	157	30	-	-40	-	3		24	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	155	30	-	-40	-	3		24	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	153	30	-	-40	-	3		25	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	157	30	-	-40	-	3		24	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	155	30	-	-40	-	3		24	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	156	30	-	-40	-	3		24	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	154	30	-	-40	-	3		24	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	153	30	-	-40	-	3		25	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	335	30	-	-51	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	336	30	-	-51	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	301	30	-	-50	-	3		29	29	-
CP002			Y	Y	70.9	1.0	830706	840716	11	300	30	-	-50	-	3		24	24	-
CP003			Y	Y	73.7	1.0	830710	840721	11	298	30	-	-49	-	3		27	27	-
CP004			Y	Y	75.4	1.0	830714	840725	11	297	30	-	-49	-	3		29	29	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	315	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	311	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	334	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	334	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	334	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	281	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	326	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	181	30	-	-28	-	3		36	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	185	30	-	-28	-	3		36	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	152	30	-	-34	-	3		28	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	152	30	-	-34	-	3		28	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	190	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	208	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	226	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	354	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	354	30	-	-45	-	3		30	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	354	30	-	-45	-	3		30	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	354	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	354	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	354	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	355	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	387	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	395	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	227	30	-	-30	-	3		53	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	342	30	-	-45	-	3		30	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	344	30	-	-45	-	3		30	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	345	30	-	-45	-	3		30	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	163	30	-	-35	-	3		34	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	167	30	-	-35	-	3		35	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	147	30	-	-23	-	3		32	32	-
GC002			Y	Y	52.3	10.0	831092	840538	26	150	30	-	-24	-	3		32	32	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	147	30	-	-34	-	3		36	36	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	135	30	-	-37	-	3		37	37	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	132	30	-	-32	-	3	6	59	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	132	30	-	-28	-	3		38	38	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	189	30	-	-36	-	3		33	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	192	30	-	-36	-	3		33	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	197	30	-	-36	-	3		33	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	197	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	210	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		61	43	
															Criteria ANL		70	60	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R101b**
NSR x coord:	**830967.2**
NSR y coord:	**840591.2**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	286	30	-	-35	-	3		50	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	275	30	-	-35	-	3		51	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	265	30	-	-35	-	3		51	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	286	30	-	-40	-	3		25	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	285	30	-	-40	-	3		25	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	262	30	-	-39	-	3		26	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	261	30	-	-39	-	3		26	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	259	30	-	-39	-	3		26	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	255	30	-	-34	-	3		32	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	243	30	-	-31	-	3		41	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	185	30	-	-37	-	3		28	-	-
CL002			Y	N	62.2	2.5	830890	840706	21	185	30	-	-37	-	3		28	-	-
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	188	30	-	-42	-	3		23	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	186	30	-	-42	-	3		23	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	184	30	-	-42	-	3		23	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	187	30	-	-42	-	3		23	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	186	30	-	-42	-	3		23	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	187	30	-	-42	-	3		23	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	185	30	-	-42	-	3		23	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	184	30	-	-42	-	3		23	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	349	30	-	-51	-	3		26	26	-
PK016			Y	Y	74.1	1.0	830700	840786	32	349	30	-	-51	-	3		26	26	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	320	30	-	-50	-	3		28	28	-
CP002			Y	Y	70.9	1.0	830706	840716	11	319	30	-	-50	-	3		24	24	-
CP003			Y	Y	73.7	1.0	830710	840721	11	317	30	-	-50	-	3		27	27	-
CP004			Y	Y	75.4	1.0	830714	840725	11	316	30	-	-50	-	3		28	28	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	330	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	326	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	351	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	351	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	351	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	302	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	344	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	209	30	-	-29	-	3		35	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	211	30	-	-30	-	3		35	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	186	30	-	-36	-	3		26	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	186	30	-	-36	-	3		26	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	219	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	234	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	250	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	357	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	357	30	-	-45	-	3		30	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	357	30	-	-45	-	3		30	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	357	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	357	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	357	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	357	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	390	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	397	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	246	30	-	-31	-	3		53	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	347	30	-	-45	-	3		30	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	348	30	-	-45	-	3		30	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	349	30	-	-45	-	3		30	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	194	30	-	-36	-	3		32	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	198	30	-	-36	-	3		34	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	177	30	-	-25	-	3		30	30	-
GC002			Y	Y	52.3	10.0	831092	840538	26	180	30	-	-25	-	3		30	30	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	183	30	-	-36	-	3		34	34	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	174	30	-	-39	-	3		35	35	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	172	30	-	-34	-	3	6	56	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	172	30	-	-31	-	3		36	36	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	216	30	-	-37	-	3		32	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	218	30	-	-37	-	3		32	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	222	30	-	-37	-	3		32	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	224	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	236	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		60	42	
															Criteria ANL		70	60	
															Exceedance		-	-	

NSR ID: R115c


PK015
PK016
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CH003
BZ001d
BZ001a
BZ001c
BZ001b
CC001
KS001
MW001a
MW001b
MW002
PS001
PS002
SS001
SS002
SS003
LN001
LN002
LN003
LN004
LN005
LN006
LN007
LN008
LN009

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R115c**
NSR x coord:	**830908.2**
NSR y coord:	**840562.6**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	251	30	-	-34	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	240	30	-	-34	-	3		52	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	229	30	-	-33	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	249	30	-	-38	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	247	30	-	-38	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	224	30	-	-37	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	222	30	-	-37	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	220	30	-	-37	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	210	30	-	-32	-	3		34	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	198	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	146	30	-	-	-	-		-	-	No line of sight.
CL002			Y	N	62.2	2.5	830890	840706	21	145	30	-	-	-	-		-	-	No line of sight.
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	146	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	145	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	142	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	145	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	143	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	144	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	142	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	141	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	306	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	306	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	255	30	-	-48	-	3		30	30	-
CP002			Y	Y	70.9	1.0	830706	840716	11	255	30	-	-48	-	3		26	26	-
CP003			Y	Y	73.7	1.0	830710	840721	11	254	30	-	-48	-	3		29	29	-
CP004			Y	Y	75.4	1.0	830714	840725	11	254	30	-	-48	-	3		30	30	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	253	30	-	-31	-	3		52	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	249	30	-	-31	-	3		52	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	276	2	-12	-29	-	3		30	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	276	2	-12	-35	-	3		45	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	276	2	-12	-39	-	3		32	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	218	8	-	-37	-	3		34	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	255	30	-	-30	-	3		38	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	229	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	232	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	197	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	196	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	197	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	210	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	227	30	-	-47	-	3		36	-	-
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	387	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	387	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	387	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	387	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	387	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	387	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	382	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	417	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	425	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	285	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	383	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	384	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	385	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	185	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	187	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	184	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	186	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	167	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	151	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	144	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	155	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	230	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	233	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	237	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	153	30	-	-38	-	3		37	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	171	30	-	-39	-	3		20	20	-
															Tonality		0	0	
															Total SPL		59	36	
															Criteria ANL		70	60	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R115c**
NSR x coord:	**830908.2**
NSR y coord:	**840562.6**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	253	30	-	-34	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	241	30	-	-34	-	3		52	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	231	30	-	-33	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	251	30	-	-38	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	249	30	-	-38	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	226	30	-	-38	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	224	30	-	-37	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	222	30	-	-37	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	214	30	-	-33	-	3		34	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	203	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	151	30	-	-	-	-		-	-	No line of sight.
CL002			Y	N	62.2	2.5	830890	840706	21	150	30	-	-	-	-		-	-	No line of sight.
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	151	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	150	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	147	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	150	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	148	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	149	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	147	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	146	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	307	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	307	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	259	30	-	-48	-	3		30	30	-
CP002			Y	Y	70.9	1.0	830706	840716	11	259	30	-	-48	-	3		26	26	-
CP003			Y	Y	73.7	1.0	830710	840721	11	258	30	-	-48	-	3		28	28	-
CP004			Y	Y	75.4	1.0	830714	840725	11	258	30	-	-48	-	3		30	30	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	255	30	-	-31	-	3		52	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	251	30	-	-31	-	3		52	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	280	2	-12	-29	-	3		30	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	280	2	-12	-35	-	3		45	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	280	2	-12	-39	-	3		32	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	223	30	-	-37	-	3		34	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	259	30	-	-30	-	3		37	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	232	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	235	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	202	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	201	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	202	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	215	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	231	30	-	-47	-	3		36	-	-
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	378	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	413	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	422	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	287	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	380	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	381	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	382	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	190	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	192	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	187	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	189	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	173	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	158	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	151	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	162	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	233	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	237	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	241	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	158	30	-	-38	-	3		37	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	176	30	-	-39	-	3		19	19	-
															Tonality		0	0	
															Total SPL		59	36	
															Criteria ANL		70	60	
															Exceedance		-	-	

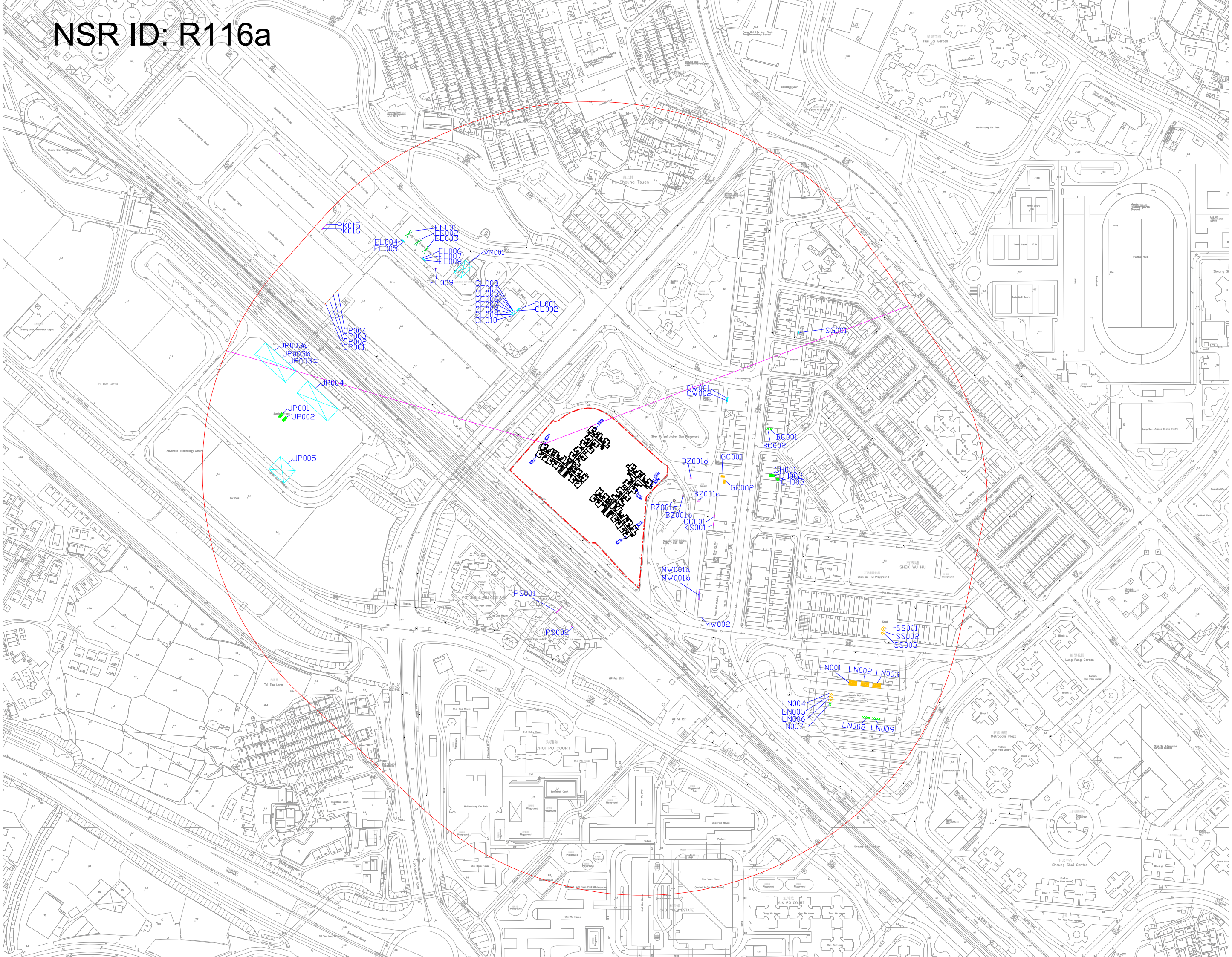
Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R115c**
NSR x coord:	**830908.2**
NSR y coord:	**840562.6**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	257	30	-	-34	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	246	30	-	-34	-	3		52	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	236	30	-	-33	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	255	30	-	-39	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	254	30	-	-39	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	231	30	-	-38	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	229	30	-	-38	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	227	30	-	-38	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	221	30	-	-33	-	3		33	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	212	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	161	30	-	-	-	-		-	-	No line of sight.
CL002			Y	N	62.2	2.5	830890	840706	21	160	30	-	-	-	-		-	-	No line of sight.
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	161	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	159	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	157	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	160	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	158	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	158	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	157	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	156	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	311	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	311	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	266	30	-	-49	-	3		30	30	-
CP002			Y	Y	70.9	1.0	830706	840716	11	266	30	-	-48	-	3		25	25	-
CP003			Y	Y	73.7	1.0	830710	840721	11	265	30	-	-48	-	3		28	28	-
CP004			Y	Y	75.4	1.0	830714	840725	11	265	30	-	-48	-	3		30	30	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	260	30	-	-31	-	3		52	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	256	30	-	-31	-	3		52	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	286	2	-12	-29	-	3		30	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	286	2	-12	-35	-	3		45	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	286	2	-12	-40	-	3		32	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	232	30	-	-38	-	3		34	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	267	30	-	-30	-	3		37	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	239	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	242	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	210	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	210	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	211	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	224	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	239	30	-	-48	-	3		36	-	-
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	381	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	381	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	381	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	381	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	381	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	381	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	376	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	412	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	420	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	291	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	379	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	380	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	380	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	199	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	201	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	194	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	196	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	183	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	169	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	163	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	173	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	240	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	243	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	247	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	169	30	-	-39	-	3		36	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	186	30	-	-39	-	3		19	19	-
															Tonality		0	0	
															Total SPL		59	36	
															Criteria ANL		70	60	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R115c**
NSR x coord:	**830908.2**
NSR y coord:	**840562.6**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	275	30	-	-35	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	264	30	-	-34	-	3		51	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	255	30	-	-34	-	3		51	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	273	30	-	-39	-	3		25	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	271	30	-	-39	-	3		25	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	250	30	-	-38	-	3		26	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	249	30	-	-38	-	3		26	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	247	30	-	-38	-	3		26	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	245	30	-	-34	-	3		33	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	238	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	191	30	-	-	-	-		-	-	No line of sight.
CL002			Y	N	62.2	2.5	830890	840706	21	190	30	-	-	-	-		-	-	No line of sight.
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	191	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	189	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	188	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	190	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	188	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	189	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	187	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	187	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	326	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	325	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	287	30	-	-49	-	3		29	29	-
CP002			Y	Y	70.9	1.0	830706	840716	11	287	30	-	-49	-	3		25	25	-
CP003			Y	Y	73.7	1.0	830710	840721	11	286	30	-	-49	-	3		28	28	-
CP004			Y	Y	75.4	1.0	830714	840725	11	286	30	-	-49	-	3		29	29	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	278	30	-	-32	-	3		52	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	274	30	-	-32	-	3		52	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	306	2	-12	-30	-	3		29	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	306	2	-12	-36	-	3		44	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	306	2	-12	-40	-	3		32	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	256	30	-	-39	-	3		33	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	288	30	-	-31	-	3		37	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	260	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	263	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	236	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	235	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	237	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	248	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	262	30	-	-48	-	3		35	-	-
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	378	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	414	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	422	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	306	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	383	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	383	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	384	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	225	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	228	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	218	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	220	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	214	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	202	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	197	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	204	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	261	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	264	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	268	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	200	30	-	-40	-	3		35	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	214	30	-	-41	-	3		18	18	-
															Tonality		0	0	
															Total SPL		58	36	
															Criteria ANL		70	60	
															Exceedance		-	-	

NSR ID: R116a


PK015
PK016
EL004
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KS001
MW001a
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MW002
PS001
PS002
SS001
SS002
SS003
LN001
LN002
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LN008
LN009

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R116a**
NSR x coord:	**830916.9**
NSR y coord:	**840575.6**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	245	30	-	-34	-	3		52	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	233	30	-	-33	-	3		52	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	222	30	-	-33	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	243	30	-	-38	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	241	30	-	-38	-	3		27	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	217	30	-	-37	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	216	30	-	-37	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	214	30	-	-37	-	3		28	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	203	30	-	-32	-	3		34	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	190	30	-	-29	-	3		43	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	135	30	-	-35	-	3		31	-	-
CL002			Y	N	62.2	2.5	830890	840706	21	133	30	-	-35	-	3		31	-	-
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	135	30	-	-39	-	3		26	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	134	30	-	-39	-	3		26	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	131	30	-	-39	-	3		26	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	134	30	-	-39	-	3		26	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	132	30	-	-39	-	3		26	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	133	30	-	-39	-	3		26	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	131	30	-	-39	-	3		26	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	130	30	-	-39	-	3		26	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	303	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	302	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	255	30	-	-48	-	3		30	30	-
CP002			Y	Y	70.9	1.0	830706	840716	11	254	30	-	-48	-	3		26	26	-
CP003			Y	Y	73.7	1.0	830710	840721	11	254	30	-	-48	-	3		29	29	-
CP004			Y	Y	75.4	1.0	830714	840725	11	253	30	-	-48	-	3		30	30	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	260	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	256	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	280	2	-12	-29	-	3		30	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	280	2	-12	-35	-	3		45	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	280	2	-12	-39	-	3		32	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	223	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	265	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	219	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	222	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	185	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	184	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	198	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	213	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	230	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	388	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	388	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	388	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	388	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	388	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	388	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	384	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	418	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	427	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	272	30	-	-32	-	3		52	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	381	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	382	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	383	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	181	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	184	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	177	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	180	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	162	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	146	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	141	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	149	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	223	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	226	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	230	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	164	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	182	30	-	-	-	-		-	-	No line of sight.

Tonality	0	0
Total SPL	58	36
Criteria ANL	70	60
Exceedance	-	-

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R116a**
NSR x coord:	**830916.9**
NSR y coord:	**840575.6**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	246	30	-	-34	-	3		52	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	234	30	-	-33	-	3		52	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	224	30	-	-33	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	244	30	-	-38	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	243	30	-	-38	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	219	30	-	-37	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	217	30	-	-37	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	216	30	-	-37	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	207	30	-	-32	-	3		34	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	195	30	-	-29	-	3		43	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	140	30	-	-35	-	3		30	-	-
CL002			Y	N	62.2	2.5	830890	840706	21	139	30	-	-35	-	3		30	-	-
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	141	30	-	-39	-	3		25	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	139	30	-	-39	-	3		25	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	137	30	-	-39	-	3		26	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	139	30	-	-39	-	3		25	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	138	30	-	-39	-	3		25	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	138	30	-	-39	-	3		25	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	136	30	-	-39	-	3		26	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	135	30	-	-39	-	3		26	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	304	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	304	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	259	30	-	-48	-	3		30	30	-
CP002			Y	Y	70.9	1.0	830706	840716	11	258	30	-	-48	-	3		26	26	-
CP003			Y	Y	73.7	1.0	830710	840721	11	257	30	-	-48	-	3		28	28	-
CP004			Y	Y	75.4	1.0	830714	840725	11	257	30	-	-48	-	3		30	30	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	262	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	258	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	284	2	-12	-29	-	3		30	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	284	2	-12	-35	-	3		45	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	284	2	-12	-40	-	3		32	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	228	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	269	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	222	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	226	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	190	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	190	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	203	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	217	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	234	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	380	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	415	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	423	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	273	30	-	-32	-	3		52	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	378	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	379	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	380	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	186	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	189	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	180	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	183	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	169	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	154	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	148	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	156	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	226	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	229	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	234	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	170	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	187	30	-	-	-	-		-	-	No line of sight.

Tonality	0	0
Total SPL	58	36
Criteria ANL	70	60
Exceedance	-	-

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R116a**
NSR x coord:	**830916.9**
NSR y coord:	**840575.6**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**C**

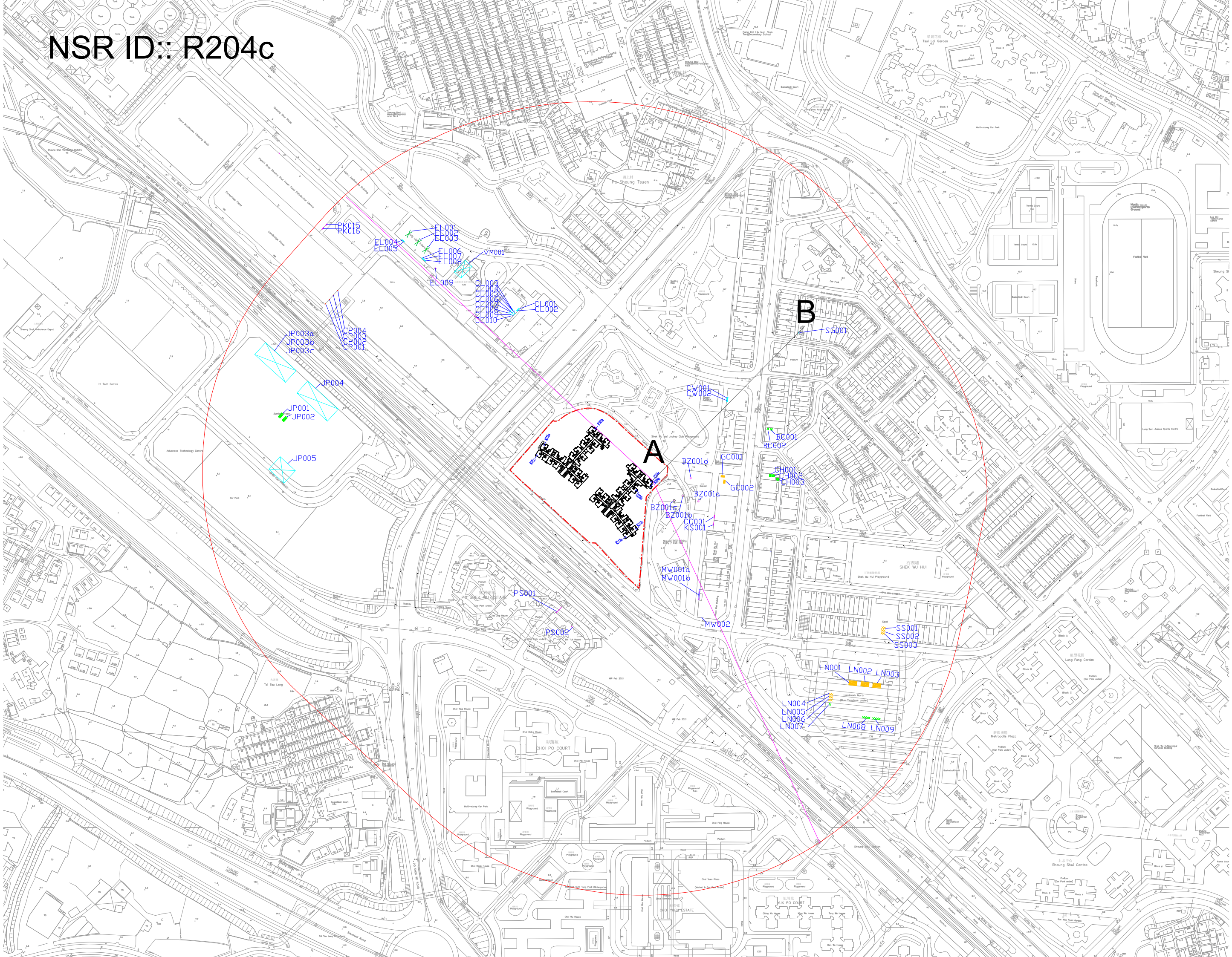
Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	251	30	-	-34	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	240	30	-	-34	-	3		52	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	230	30	-	-33	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	249	30	-	-38	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	248	30	-	-38	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	225	30	-	-37	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	223	30	-	-37	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	221	30	-	-37	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	215	30	-	-33	-	3		34	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	204	30	-	-29	-	3		42	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	150	30	-	-36	-	3		30	-	-
CL002			Y	N	62.2	2.5	830890	840706	21	149	30	-	-36	-	3		30	-	-
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	151	30	-	-40	-	3		25	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	149	30	-	-40	-	3		25	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	147	30	-	-40	-	3		25	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	150	30	-	-40	-	3		25	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	148	30	-	-40	-	3		25	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	149	30	-	-40	-	3		25	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	147	30	-	-40	-	3		25	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	146	30	-	-40	-	3		25	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	308	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	308	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	266	30	-	-48	-	3		30	30	-
CP002			Y	Y	70.9	1.0	830706	840716	11	265	30	-	-48	-	3		25	25	-
CP003			Y	Y	73.7	1.0	830710	840721	11	264	30	-	-48	-	3		28	28	-
CP004			Y	Y	75.4	1.0	830714	840725	11	264	30	-	-48	-	3		30	30	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	267	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	263	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	290	2	-12	-29	-	3		30	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	290	2	-12	-35	-	3		45	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	290	2	-12	-40	-	3		32	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	236	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	276	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	229	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	232	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	199	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	199	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	212	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	226	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	242	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	382	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	382	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	382	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	382	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	382	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	382	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	378	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	413	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	422	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	278	30	-	-32	-	3		52	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	377	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	378	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	379	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	195	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	198	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	188	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	190	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	180	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	166	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	160	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	167	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	233	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	236	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	240	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	180	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	196	30	-	-	-	-		-	-	No line of sight.

Tonality	0	0
Total SPL	58	36
Criteria ANL	70	60
Exceedance	-	-

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R116a**
NSR x coord:	**830916.9**
NSR y coord:	**840575.6**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	269	30	-	-35	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	258	30	-	-34	-	3		51	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	249	30	-	-34	-	3		51	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	267	30	-	-39	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	266	30	-	-39	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	244	30	-	-38	-	3		26	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	243	30	-	-38	-	3		26	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	241	30	-	-38	-	3		26	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	239	30	-	-34	-	3		33	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	231	30	-	-30	-	3		41	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	182	30	-	-37	-	3		28	-	-
CL002			Y	N	62.2	2.5	830890	840706	21	181	30	-	-37	-	3		28	-	-
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	183	30	-	-42	-	3		23	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	181	30	-	-42	-	3		23	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	179	30	-	-42	-	3		23	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	182	30	-	-42	-	3		23	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	180	30	-	-42	-	3		23	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	181	30	-	-42	-	3		23	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	179	30	-	-42	-	3		23	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	179	30	-	-42	-	3		23	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	323	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	322	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	287	30	-	-49	-	3		29	29	-
CP002			Y	Y	70.9	1.0	830706	840716	11	286	30	-	-49	-	3		25	25	-
CP003			Y	Y	73.7	1.0	830710	840721	11	285	30	-	-49	-	3		28	28	-
CP004			Y	Y	75.4	1.0	830714	840725	11	285	30	-	-49	-	3		29	29	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	284	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	281	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	310	2	-12	-30	-	3		29	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	310	2	-12	-36	-	3		44	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	310	2	-12	-40	-	3		31	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	260	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	297	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	251	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	254	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	227	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	226	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	238	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	250	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	265	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	380	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	415	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	423	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	294	30	-	-32	-	3		51	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	381	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	382	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	383	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	222	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	225	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	213	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	215	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	210	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	198	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	194	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	200	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	255	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	258	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	261	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	209	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	223	30	-	-	-	-		-	-	No line of sight.

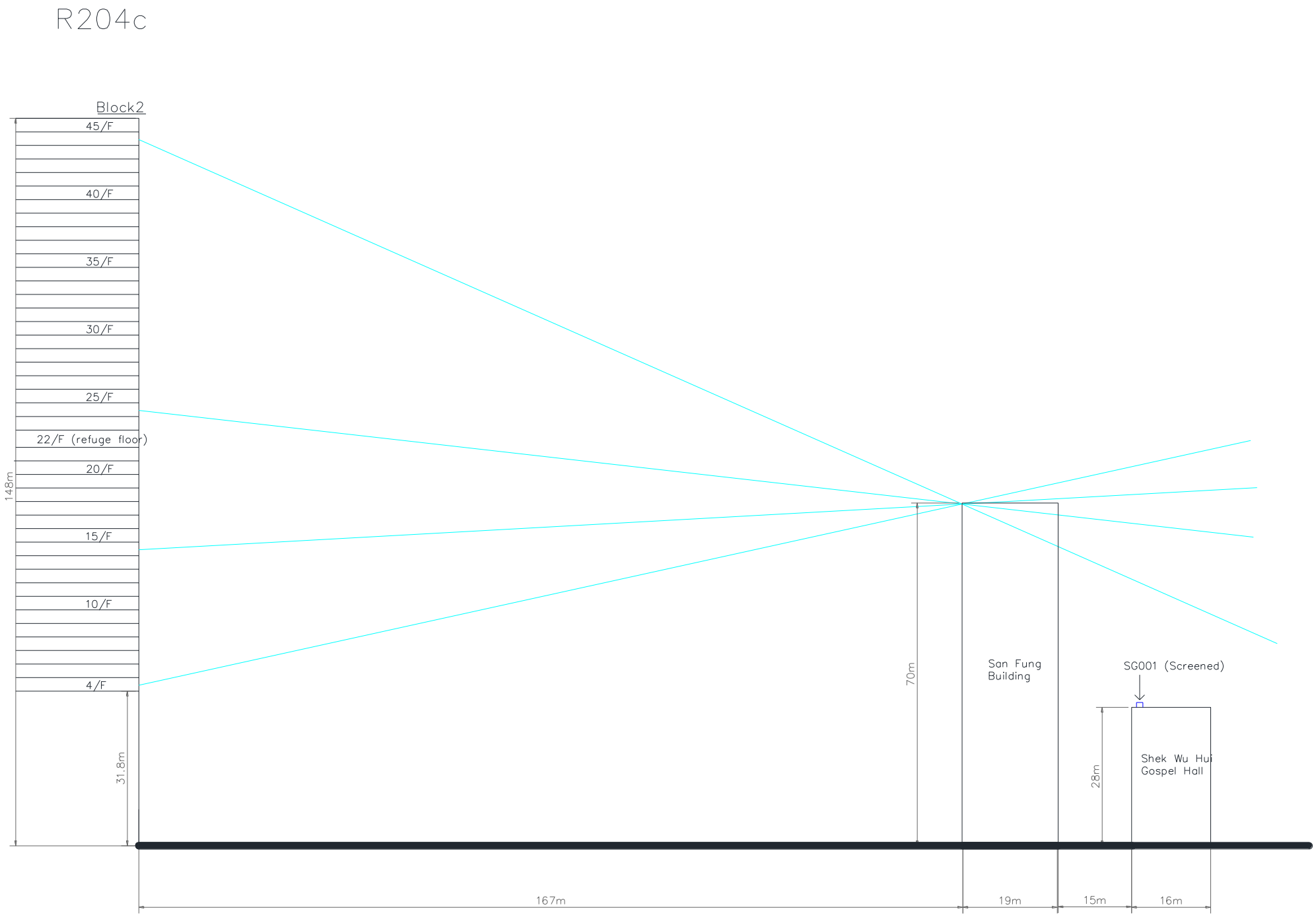
Tonality	0	0
Total SPL	58	36
Criteria ANL	70	60
Exceedance	-	-



NSR ID:: R204c

A
B
JP001
JP002
JP003a
JP003b
JP003c
JP004
JP005
CP003
CP004
CP005
CP006
PR015
EL004
EL005
EL001
EL003
EL006
EL008
EL009
YM001
CZ002
CZ003
CZ004
CZ005
CZ006
CZ007
CL001
CL002
PS001
PS002
MW001a
MW001b
MW002
BZ001a
BZ001b
BZ001c
BZ001d
BZ002
CS001
KS001
GC001
GC002
CW001
CW002
CH001
CH002
CH003
BC001
BC002
SG001
LN001
LN002
LN003
LN004
LN005
LN006
LN007
LN008
LN009
SS001
SS002
SS003
CHOI PO COURT
SHEK WU HUI
Tin Ping Road
Po Shek Wu Road
Sheung Shui Town

NSR ID: R204c (Section A-B)



Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204c**
NSR x coord:	**831022.2**
NSR y coord:	**840539.5**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	339	30	-	-37	-	3		49	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	327	30	-	-36	-	3		49	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	316	30	-	-36	-	3		49	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	339	30	-	-41	-	3		24	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	337	30	-	-41	-	3		24	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	313	30	-	-40	-	3		24	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	311	30	-	-40	-	3		24	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	309	30	-	-40	-	3		24	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	297	30	-	-35	-	3		31	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	278	30	-	-32	-	3		40	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	213	30	-	-39	-	3		27	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	213	30	-	-39	-	3		27	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	217	30	-	-43	-	3		22	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	214	30	-	-43	-	3		22	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	212	30	-	-43	-	3		22	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	216	30	-	-43	-	3		22	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	214	30	-	-43	-	3		22	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	216	30	-	-43	-	3		22	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	214	30	-	-43	-	3		22	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	212	30	-	-43	-	3		22	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	405	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	406	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	364	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	363	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	362	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	360	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	369	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	365	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	391	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	391	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	391	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	334	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	368	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	124	30	-	-25	-	3		40	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	127	30	-	-25	-	3		40	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	111	30	-	-31	-	3		31	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	109	30	-	-31	-	3		31	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	102	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	123	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	144	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	287	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	287	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	287	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	287	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	287	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	287	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	288	30	-	-40	-	3		34	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	319	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	327	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	204	30	-	-29	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	274	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	275	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	276	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	73	30	-	-28	-	3		41	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	76	30	-	-28	-	3		42	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	69	30	-	-17	-	3		39	39	-
GC002			Y	Y	52.3	10.0	831092	840538	26	71	30	-	-17	-	3		38	38	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	55	30	-	-25	-	3		44	44	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	42	30	-	-26	-	3		47	47	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	39	30	-	-21	-	3	6	69	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	45	30	-	-19	-	3		48	48	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	116	30	-	-32	-	3		38	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	119	30	-	-32	-	3		37	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	123	30	-	-32	-	3		37	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	157	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	165	30	-	-	-	-		-	-	No line of sight.
																Tonality	0	0	
																Total SPL	70	52	
																Criteria ANL	65	55	
																Exceedance	5	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204c**
NSR x coord:	**831022.2**
NSR y coord:	**840539.5**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	340	30	-	-37	-	3		49	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	328	30	-	-36	-	3		49	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	318	30	-	-36	-	3		49	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	340	30	-	-41	-	3		24	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	339	30	-	-41	-	3		24	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	314	30	-	-40	-	3		24	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	312	30	-	-40	-	3		24	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	311	30	-	-40	-	3		24	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	300	30	-	-36	-	3		31	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	282	30	-	-32	-	3		40	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	216	30	-	-39	-	3		26	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	216	30	-	-39	-	3		26	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	220	30	-	-43	-	3		21	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	218	30	-	-43	-	3		21	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	216	30	-	-43	-	3		22	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	220	30	-	-43	-	3		21	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	217	30	-	-43	-	3		21	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	219	30	-	-43	-	3		21	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	217	30	-	-43	-	3		21	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	215	30	-	-43	-	3		22	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	406	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	407	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	367	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	366	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	364	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	363	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	370	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	366	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	337	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	371	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	130	30	-	-25	-	3		39	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	133	30	-	-26	-	3		39	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	119	30	-	-32	-	3		30	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	118	30	-	-32	-	3		30	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	112	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	131	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	151	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	282	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	315	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	322	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	206	30	-	-29	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	269	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	270	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	272	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	84	30	-	-29	-	3		39	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	88	30	-	-29	-	3		41	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	77	30	-	-18	-	3		38	38	-
GC002			Y	Y	52.3	10.0	831092	840538	26	78	30	-	-18	-	3		37	37	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	72	30	-	-28	-	3		42	42	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	63	30	-	-30	-	3		44	44	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	60	30	-	-25	-	3	6	65	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	65	30	-	-22	-	3		45	45	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	122	30	-	-32	-	3		37	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	125	30	-	-32	-	3		37	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	129	30	-	-33	-	3		37	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	163	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	170	30	-	-	-	-		-	-	No line of sight.
																Tonality	0	0	
																Total SPL	66	49	
																Criteria ANL	65	55	
																Exceedance	1	-	

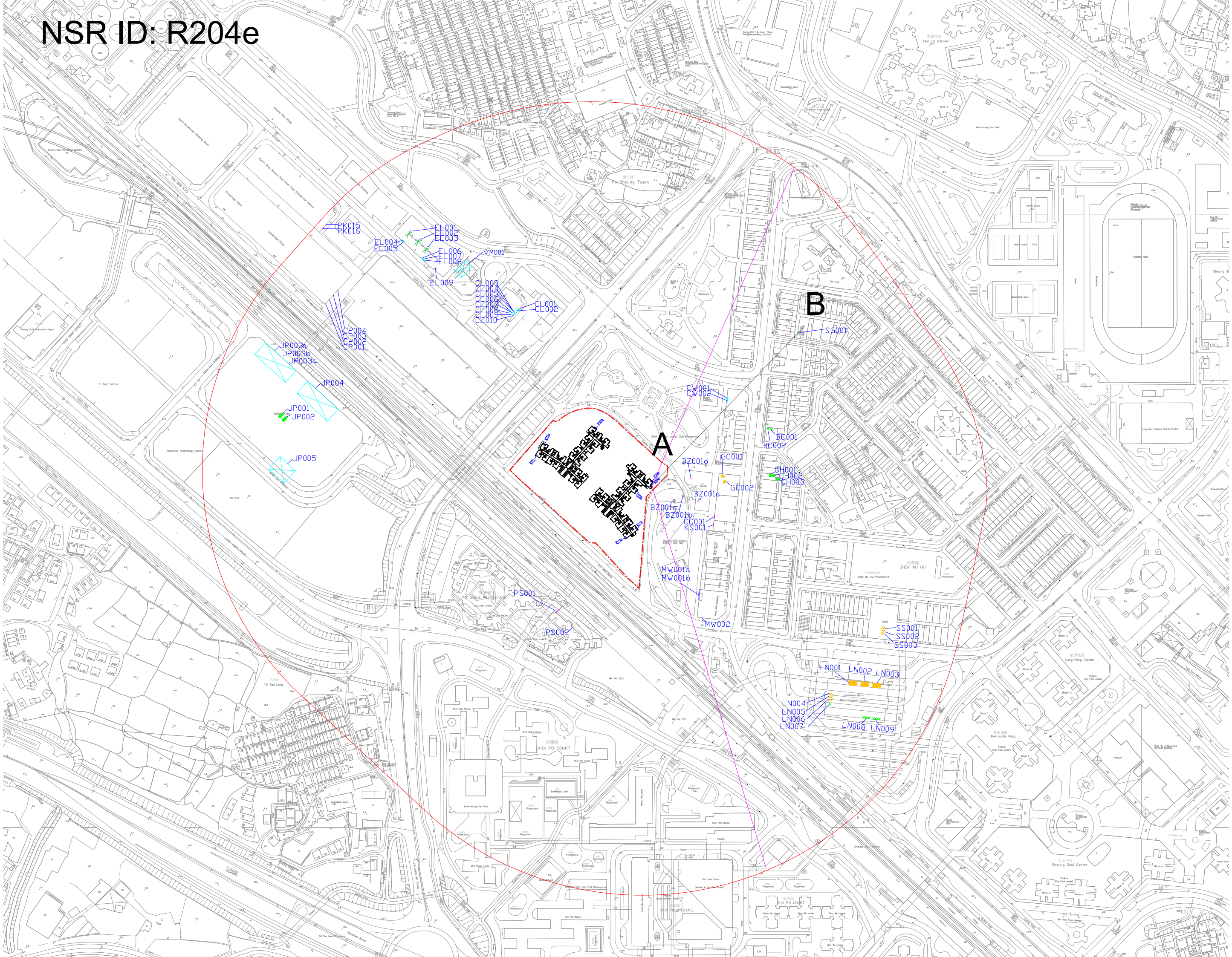
Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204c**
NSR x coord:	**831022.2**
NSR y coord:	**840539.5**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	344	30	-	-37	-	3		49	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	332	30	-	-36	-	3		49	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	321	30	-	-36	-	3		49	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	344	30	-	-41	-	3		23	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	342	30	-	-41	-	3		23	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	318	30	-	-41	-	3		24	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	316	30	-	-40	-	3		24	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	314	30	-	-40	-	3		24	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	305	30	-	-36	-	3		31	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	289	30	-	-32	-	3		39	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	223	30	-	-39	-	3		26	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	223	30	-	-39	-	3		26	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	227	30	-	-44	-	3		21	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	225	30	-	-44	-	3		21	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	223	30	-	-43	-	3		21	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	226	30	-	-44	-	3		21	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	224	30	-	-43	-	3		21	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	226	30	-	-44	-	3		21	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	224	30	-	-43	-	3		21	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	222	30	-	-43	-	3		21	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	409	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	410	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	372	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	370	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	369	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	368	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	374	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	370	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	398	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	398	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	398	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	343	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	376	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	142	30	-	-26	-	3		39	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	144	30	-	-26	-	3		38	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	133	30	-	-33	-	3		29	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	132	30	-	-33	-	3		29	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	127	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	144	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	162	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	280	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	312	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	320	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	212	30	-	-30	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	268	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	269	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	270	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	103	30	-	-31	-	3		38	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	106	30	-	-31	-	3		39	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	93	30	-	-19	-	3		36	36	-
GC002			Y	Y	52.3	10.0	831092	840538	26	94	30	-	-19	-	3		36	36	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	95	30	-	-30	-	3		40	40	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	88	30	-	-33	-	3		41	41	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	86	30	-	-28	-	3	6	62	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	89	30	-	-25	-	3		42	42	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	134	30	-	-33	-	3		36	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	137	30	-	-33	-	3		36	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	140	30	-	-33	-	3		36	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	173	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	180	30	-	-	-	-		-	-	No line of sight.
																Tonality	0	0	
																Total SPL	63	46	
																Criteria ANL	65	55	
																Exceedance	-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204c**
NSR x coord:	**831022.2**
NSR y coord:	**840539.5**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	357	30	-	-37	-	3		48	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	346	30	-	-37	-	3		49	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	335	30	-	-37	-	3		49	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	357	30	-	-42	-	3		23	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	355	30	-	-41	-	3		23	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	332	30	-	-41	-	3		24	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	331	30	-	-41	-	3		24	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	329	30	-	-41	-	3		24	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	323	30	-	-36	-	3		30	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	308	30	-	-33	-	3		39	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	246	30	-	-40	-	3		25	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	245	30	-	-40	-	3		25	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	249	30	-	-44	-	3		20	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	247	30	-	-44	-	3		20	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	245	30	-	-44	-	3		20	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	249	30	-	-44	-	3		20	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	247	30	-	-44	-	3		20	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	248	30	-	-44	-	3		20	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	246	30	-	-44	-	3		20	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	245	30	-	-44	-	3		20	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	421	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	421	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	387	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	386	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	385	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	383	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	387	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	383	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	413	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	413	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	413	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	360	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	392	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	175	30	-	-28	-	3		37	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	177	30	-	-28	-	3		37	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	171	30	-	-35	-	3		27	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	170	30	-	-35	-	3		27	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	167	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	180	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	194	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	283	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	315	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	323	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	233	30	-	-30	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	273	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	275	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	276	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	148	30	-	-34	-	3		34	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	151	30	-	-34	-	3		36	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	137	30	-	-23	-	3		33	33	-
GC002			Y	Y	52.3	10.0	831092	840538	26	137	30	-	-23	-	3		33	33	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	145	30	-	-34	-	3		36	36	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	140	30	-	-37	-	3		37	37	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	139	30	-	-32	-	3	6	58	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	141	30	-	-29	-	3		38	38	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	169	30	-	-35	-	3		34	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	171	30	-	-35	-	3		34	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	174	30	-	-35	-	3		34	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	203	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	209	30	-	-	-	-		-	-	No line of sight.
																Tonality	0	0	
																Total SPL	60	43	
																Criteria ANL	65	55	
																Exceedance	-	-	

NSR ID: R204e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PK015
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CH003
MW001a
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PS001
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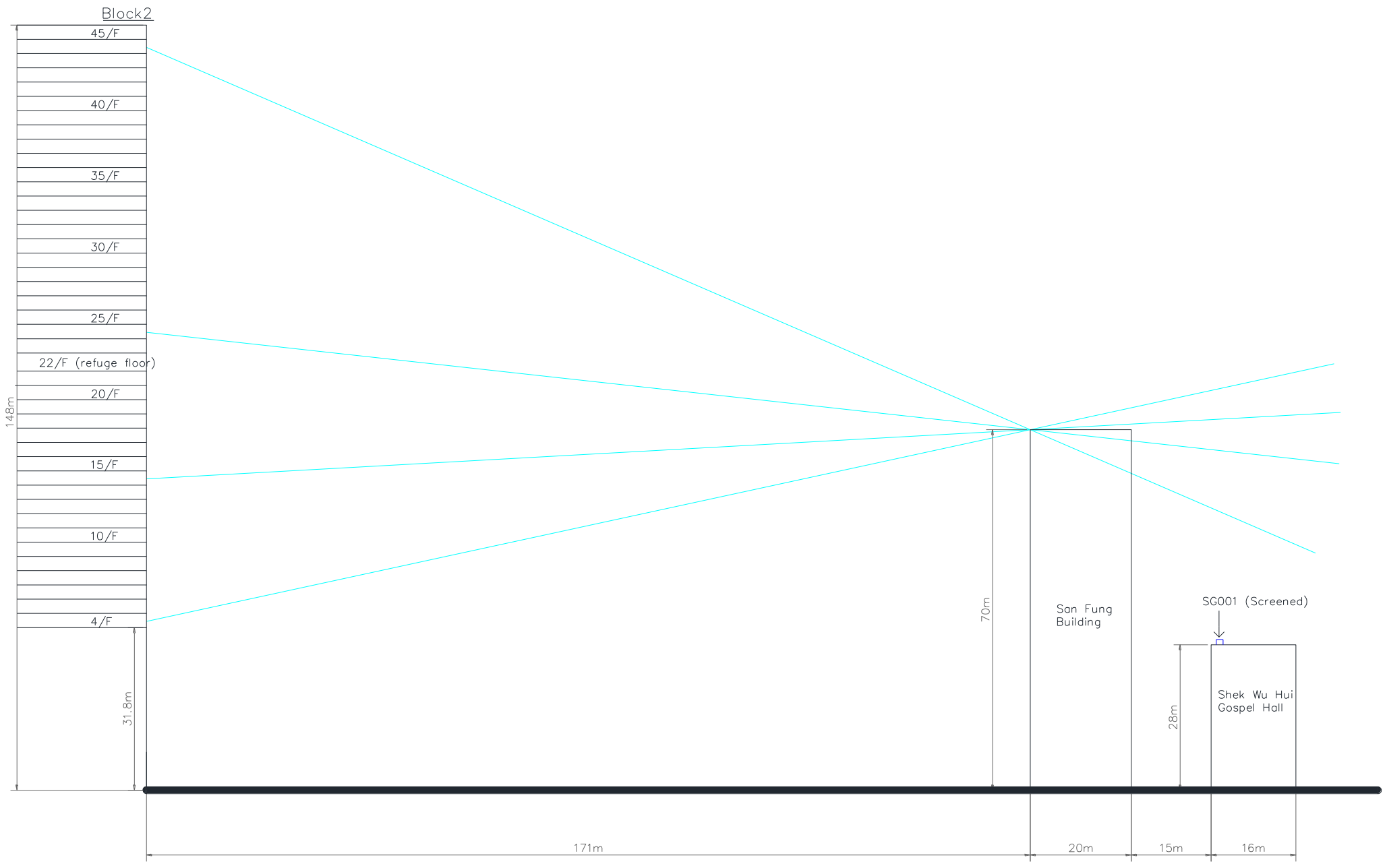
SHEK WU HUI
CHOI PO COURT
Po Sheung Tsuen

NSR ID: R204e (Section A-B)

R204e



Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204e**
NSR x coord:	**831021.5**
NSR y coord:	**840534.9**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	342	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	330	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	319	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	342	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	340	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	316	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	314	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	312	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	300	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	281	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	216	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	216	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	220	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	218	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	215	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	219	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	217	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	219	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	217	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	215	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	408	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	408	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	366	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	365	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	363	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	362	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	369	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	365	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	392	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	392	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	392	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	334	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	368	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	127	30	-	-25	-	3		40	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	130	30	-	-25	-	3		39	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	115	30	-	-32	-	3		30	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	113	30	-	-32	-	3		30	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	98	30	-	-28	-	3		45	45	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	119	30	-	-32	-	3		42	42	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	140	30	-	-43	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	284	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	284	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	284	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	284	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	284	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	284	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	285	30	-	-40	-	3		34	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	316	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	324	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	208	30	-	-29	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	272	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	273	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	274	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	71	30	-	-27	-	3		41	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	74	30	-	-28	-	3		43	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	70	30	-	-17	-	3		38	38	-
GC002			Y	Y	52.3	10.0	831092	840538	26	71	30	-	-17	-	3		38	38	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	54	30	-	-25	-	3		44	44	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	41	30	-	-26	-	3		47	47	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	37	30	-	-20	-	3	6	70	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	46	30	-	-19	-	3		48	48	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	117	30	-	-32	-	3		37	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	120	30	-	-32	-	3		37	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	124	30	-	-32	-	3		37	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	153	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	160	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		70	53	
															Criteria ANL		65	55	
															Exceedance		5	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204e**
NSR x coord:	**831021.5**
NSR y coord:	**840534.9**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	343	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	331	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	320	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	343	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	341	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	317	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	315	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	313	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	303	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	285	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	220	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	219	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	223	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	221	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	219	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	223	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	220	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	222	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	220	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	218	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	409	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	409	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	368	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	367	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	366	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	365	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	371	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	366	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	338	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	371	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	133	30	-	-26	-	3		39	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	135	30	-	-26	-	3		39	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	123	30	-	-32	-	3		30	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	121	30	-	-32	-	3		30	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	108	30	-	-29	-	3		44	44	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	127	30	-	-33	-	3		42	42	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	147	30	-	-43	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	279	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	312	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	319	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	210	30	-	-30	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	267	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	269	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	270	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	83	30	-	-29	-	3		39	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	86	30	-	-29	-	3		41	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	78	30	-	-18	-	3		37	37	-
GC002			Y	Y	52.3	10.0	831092	840538	26	79	30	-	-18	-	3		37	37	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	71	30	-	-28	-	3		42	42	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	62	30	-	-30	-	3		44	44	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	59	30	-	-25	-	3	6	66	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	65	30	-	-22	-	3		44	44	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	123	30	-	-32	-	3		37	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	126	30	-	-32	-	3		37	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	130	30	-	-33	-	3		37	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	159	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	166	30	-	-	-	-		-	-	No line of sight.

Tonality	0	0
Total SPL	66	51
Criteria ANL	65	55
Exceedance	1	-

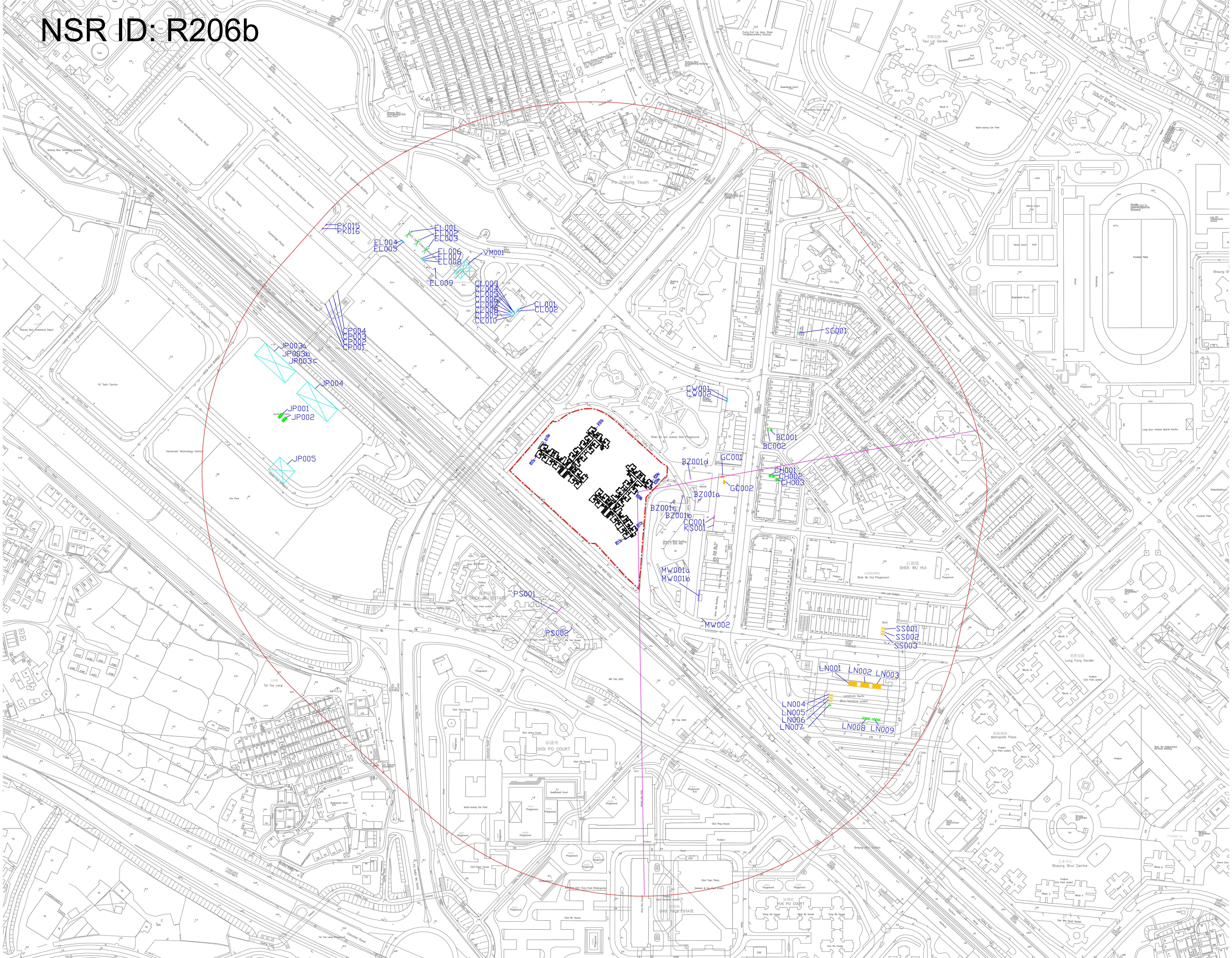
Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204e**
NSR x coord:	**831021.5**
NSR y coord:	**840534.9**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	347	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	335	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	324	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	347	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	345	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	321	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	319	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	317	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	308	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	292	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	226	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	226	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	230	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	228	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	226	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	229	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	227	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	229	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	227	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	225	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	412	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	412	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	373	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	372	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	371	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	370	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	374	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	370	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	399	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	399	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	399	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	343	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	376	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	144	30	-	-26	-	3		38	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	146	30	-	-26	-	3		38	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	137	30	-	-33	-	3		29	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	135	30	-	-33	-	3		29	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	124	30	-	-30	-	3		43	43	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	141	30	-	-33	-	3		41	41	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	158	30	-	-44	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	276	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	276	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	276	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	276	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	276	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	276	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	277	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	309	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	317	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	215	30	-	-30	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	266	30	-	-42	-	3		33	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	267	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	268	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	102	30	-	-31	-	3		38	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	105	30	-	-31	-	3		40	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	94	30	-	-19	-	3		36	36	-
GC002			Y	Y	52.3	10.0	831092	840538	26	95	30	-	-20	-	3		36	36	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	94	30	-	-30	-	3		40	40	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	87	30	-	-33	-	3		41	41	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	85	30	-	-28	-	3	6	62	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	90	30	-	-25	-	3		42	42	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	135	30	-	-33	-	3		36	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	138	30	-	-33	-	3		36	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	141	30	-	-33	-	3		36	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	170	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	176	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		63	49	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204e**
NSR x coord:	**831021.5**
NSR y coord:	**840534.9**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	360	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	348	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	338	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	360	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	358	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	335	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	333	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	331	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	326	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	311	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	249	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	248	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	252	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	250	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	248	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	251	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	249	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	251	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	249	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	247	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	423	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	423	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	389	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	387	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	386	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	385	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	387	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	383	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	414	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	414	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	414	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	360	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	391	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	177	30	-	-28	-	3		37	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	179	30	-	-28	-	3		37	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	174	30	-	-35	-	3		27	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	172	30	-	-35	-	3		27	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	165	30	-	-32	-	3		40	40	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	178	30	-	-35	-	3		39	39	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	191	30	-	-46	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	280	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	312	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	320	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	236	30	-	-31	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	272	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	273	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	274	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	147	30	-	-34	-	3		34	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	150	30	-	-34	-	3		36	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	137	30	-	-23	-	3		33	33	-
GC002			Y	Y	52.3	10.0	831092	840538	26	138	30	-	-23	-	3		33	33	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	144	30	-	-34	-	3		36	36	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	140	30	-	-37	-	3		37	37	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	139	30	-	-32	-	3	6	58	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	141	30	-	-29	-	3		38	38	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	170	30	-	-35	-	3		34	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	172	30	-	-35	-	3		34	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	175	30	-	-35	-	3		34	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	200	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	206	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		59	46	
															Criteria ANL		65	55	
															Exceedance		-	-	

NSR ID: R206b



PK015
PK016
EL001
EL002
EL003
EL004
EL005
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EL007
EL008
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VM001
CL001
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CP001
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JP003a
JP003b
JP003c
JP004
JP001
JP002
JP005
CW001
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BC001
BC002
BZ001d
GC001
GC002
CH001
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CH003
BZ001a
BZ001c
BZ001b
CC001
KS001
SG001
MW001a
MW001b
MW002
PS001
PS002
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SS003
LN001
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LN004
LN005
LN006
LN007
LN008
LN009
SHEK WU HUI
CHOI PO COURT
Po Sheung Tsuen

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R206b**
NSR x coord:	**831007.5**
NSR y coord:	**840528.8**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	337	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	325	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	314	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	336	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	335	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	310	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	309	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	307	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	295	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	277	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	213	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	213	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	216	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	214	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	212	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	216	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	214	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	215	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	213	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	211	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	401	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	401	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	357	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	356	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	355	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	354	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	357	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	352	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	380	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	380	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	380	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	323	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	354	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	142	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	145	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	128	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	127	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	102	30	-	-28	-	3		44	44	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	120	30	-	-32	-	3		42	42	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	140	30	-	-43	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	290	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	290	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	290	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	290	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	290	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	290	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	289	30	-	-40	-	3		34	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	322	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	330	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	222	30	-	-30	-	3		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	281	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	282	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	283	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	81	30	-	-29	-	3		40	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	83	30	-	-29	-	3		42	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	85	30	-	-19	-	3		37	37	-
GC002			Y	Y	52.3	10.0	831092	840538	26	86	30	-	-19	-	3		37	37	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	65	30	-	-27	-	3		43	43	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	51	30	-	-28	-	3		45	45	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	45	30	-	-22	-	3	6	68	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	59	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	131	30	-	-33	-	3		36	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	134	30	-	-33	-	3		36	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	138	30	-	-33	-	3		36	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	140	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	149	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		68	50	
															Criteria ANL		65	55	
															Exceedance		3	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R206b**
NSR x coord:	**831007.5**
NSR y coord:	**840528.8**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	338	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	326	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	315	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	338	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	336	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	312	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	310	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	308	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	298	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	281	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	217	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	216	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	220	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	217	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	215	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	219	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	217	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	219	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	216	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	215	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	402	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	402	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	359	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	358	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	357	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	356	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	358	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	354	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	383	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	383	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	383	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	326	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	357	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	147	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	150	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	136	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	134	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	111	30	-	-29	-	3		44	44	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	128	30	-	-33	-	3		41	41	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	147	30	-	-43	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	284	30	-	-40	-	3		34	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	317	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	325	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	224	30	-	-30	-	3		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	276	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	277	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	279	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	92	30	-	-30	-	3		38	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	94	30	-	-30	-	3		40	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	91	30	-	-19	-	3		36	36	-
GC002			Y	Y	52.3	10.0	831092	840538	26	92	30	-	-19	-	3		36	36	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	80	30	-	-29	-	3		41	41	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	69	30	-	-31	-	3		43	43	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	65	30	-	-25	-	3	6	65	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	75	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	137	30	-	-33	-	3		36	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	140	30	-	-33	-	3		36	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	143	30	-	-34	-	3		36	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	147	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	155	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		65	49	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R206b**
NSR x coord:	**831007.5**
NSR y coord:	**840528.8**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**B**

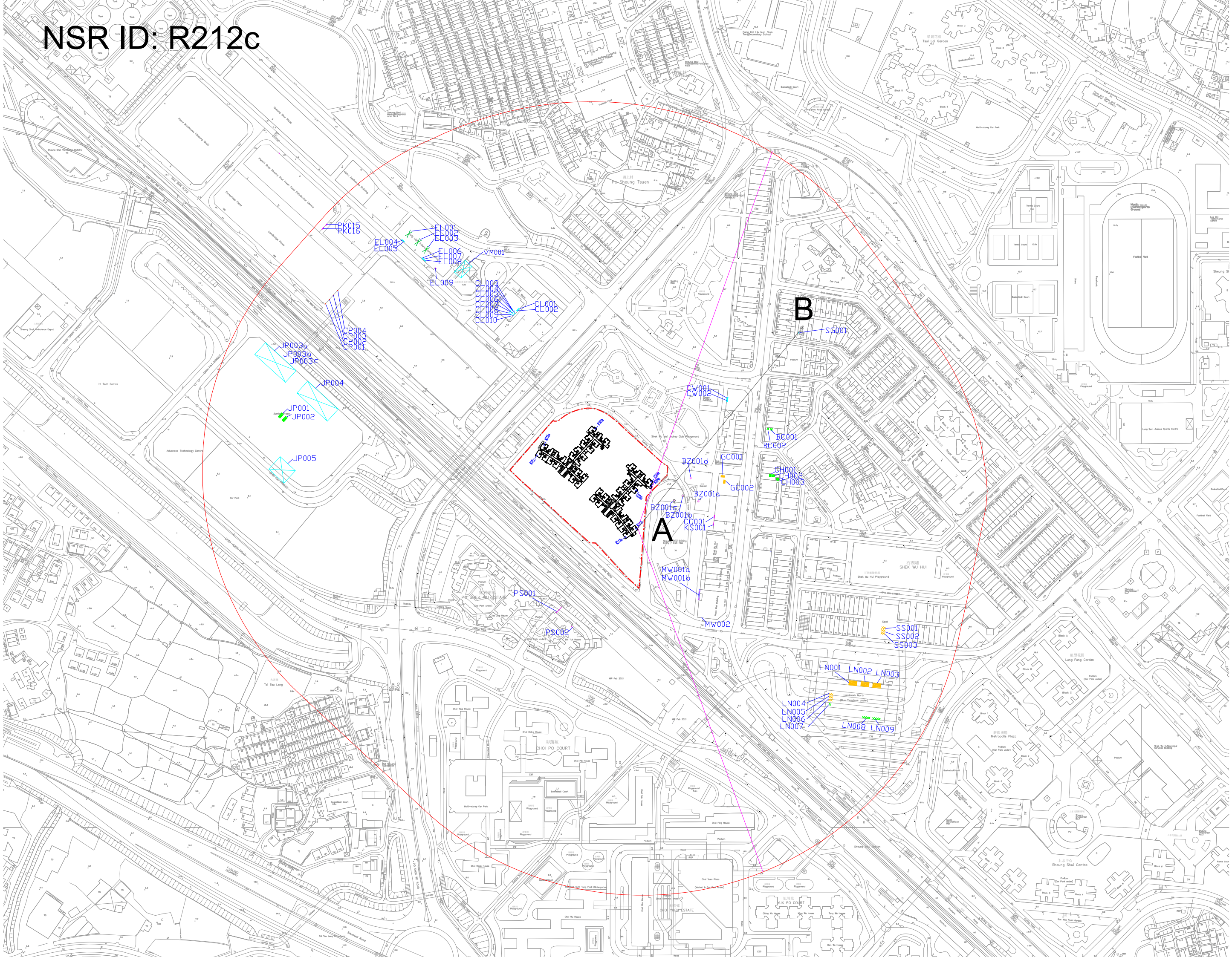
Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	342	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	330	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	319	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	341	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	339	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	316	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	314	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	312	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	303	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	287	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	224	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	223	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	226	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	224	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	222	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	226	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	224	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	226	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	223	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	222	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	405	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	405	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	364	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	363	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	362	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	361	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	362	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	357	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	388	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	388	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	388	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	332	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	362	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	157	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	160	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	148	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	147	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	127	30	-	-30	-	3		42	42	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	142	30	-	-33	-	3		41	41	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	159	30	-	-44	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	281	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	315	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	323	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	229	30	-	-30	-	3		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	275	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	276	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	277	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	109	30	-	-31	-	3		37	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	112	30	-	-31	-	3		39	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	105	30	-	-20	-	3		35	35	-
GC002			Y	Y	52.3	10.0	831092	840538	26	106	30	-	-21	-	3		35	35	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	101	30	-	-31	-	3		39	39	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	93	30	-	-33	-	3		40	40	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	89	30	-	-28	-	3	6	62	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	97	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	148	30	-	-34	-	3		35	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	151	30	-	-34	-	3		35	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	154	30	-	-34	-	3		35	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	158	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	166	30	-	-	-	-		-	-	No line of sight.

Tonality	0	0
Total SPL	62	47
Criteria ANL	65	55
Exceedance	-	-

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R206b**
NSR x coord:	**831007.5**
NSR y coord:	**840528.8**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	355	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	343	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	333	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	355	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	353	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	330	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	328	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	326	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	321	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	307	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	246	30	-	-	-	-		-	-	No line of sight.
CL002			Y	N	62.2	2.5	830890	840706	21	245	30	-	-	-	-		-	-	No line of sight.
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	249	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	247	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	245	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	248	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	246	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	248	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	246	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	244	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	416	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	416	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	380	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	379	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	378	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	377	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	375	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	371	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	403	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	403	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	403	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	349	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	378	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	188	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	190	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	183	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	182	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	167	30	-	-32	-	3		40	40	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	178	30	-	-35	-	3		39	39	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	191	30	-	-46	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	284	30	-	-40	-	3		34	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	317	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	325	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	249	30	-	-31	-	3		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	280	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	281	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	282	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	152	30	-	-34	-	3		34	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	155	30	-	-34	-	3		36	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	145	30	-	-23	-	3		32	32	-
GC002			Y	Y	52.3	10.0	831092	840538	26	146	30	-	-23	-	3		32	32	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	149	30	-	-34	-	3		36	36	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	143	30	-	-37	-	3		36	36	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	141	30	-	-32	-	3	6	58	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	146	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	180	30	-	-36	-	3		34	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	182	30	-	-36	-	3		34	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	185	30	-	-36	-	3		33	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	191	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	197	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		58	45	
															Criteria ANL		65	55	
															Exceedance		-	-	

NSR ID: R212c


PK015
PK016
EL004
EL005
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KS001
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MW001a
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PS001
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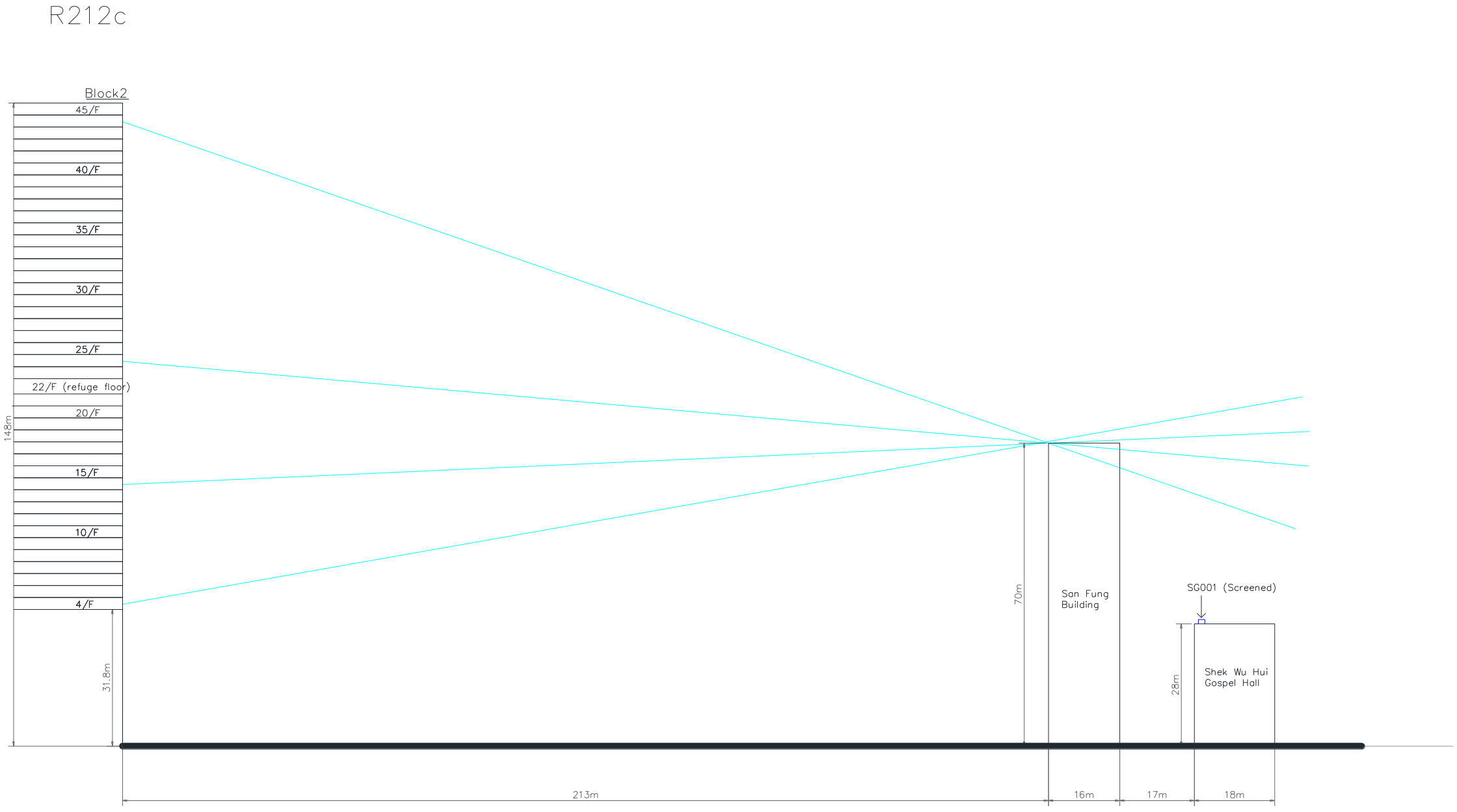
NSR ID: R212c (Section A-B)



Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R212c**
NSR x coord:	**831007.6**
NSR y coord:	**840493.0**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	365	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	353	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	342	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	364	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	362	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	338	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	336	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	334	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	322	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	306	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	244	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	243	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	247	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	245	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	242	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	246	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	244	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	245	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	243	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	242	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	425	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	425	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	376	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	376	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	375	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	375	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	366	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	361	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	335	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	357	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	161	30	-	-27	-	3		37	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	163	30	-	-27	-	3		37	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	156	30	-	-34	-	3		28	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	154	30	-	-34	-	3		28	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	78	30	-	-26	-	3		47	47	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	92	30	-	-30	-	3		44	44	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	110	30	-	-41	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	264	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	298	30	-	-43	-	3		35	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	306	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	248	30	-	-31	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	265	30	-	-42	-	3		33	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	266	30	-	-42	-	3		33	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	267	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	78	30	-	-28	-	3		40	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	77	30	-	-28	-	3		42	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	98	30	-	-20	-	3		36	36	-
GC002			Y	Y	52.3	10.0	831092	840538	26	96	30	-	-20	-	3		36	36	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	70	30	-	-27	-	3		42	42	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	60	30	-	-30	-	3		44	44	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	51.51	30	-	-23	-	3	6	67	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	76	30	-	-24	-	3		43	43	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	140	30	-	-33	-	3		36	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	143	30	-	-34	-	3		36	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	145	30	-	-34	-	3		36	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	113	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	118	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		67	52	
															Criteria ANL		65	55	
															Exceedance		2	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R212c**
NSR x coord:	**831007.6**
NSR y coord:	**840493.0**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	366	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	354	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	343	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	365	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	363	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	339	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	337	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	335	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	325	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	310	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	247	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	246	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	250	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	247	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	245	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	249	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	247	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	248	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	246	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	244	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	426	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	426	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	379	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	378	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	378	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	377	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	367	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	363	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	397	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	397	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	397	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	338	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	360	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	165	30	-	-27	-	3		37	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	168	30	-	-28	-	3		37	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	162	30	-	-35	-	3		27	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	160	30	-	-35	-	3		27	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	90	30	-	-27	-	3		45	45	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	102	30	-	-31	-	3		43	43	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	118	30	-	-41	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	258	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	293	30	-	-43	-	3		35	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	302	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	250	30	-	-31	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	261	30	-	-42	-	3		33	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	262	30	-	-42	-	3		33	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	262	30	-	-42	-	3		33	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	89	30	-	-29	-	3		39	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	89	30	-	-29	-	3		41	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	103	30	-	-20	-	3		35	35	-
GC002			Y	Y	52.3	10.0	831092	840538	26	102	30	-	-20	-	3		35	35	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	84	30	-	-29	-	3		41	41	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	76	30	-	-32	-	3		42	42	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	69	30	-	-26	-	3	6	64	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	89	30	-	-25	-	3		42	42	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	145	30	-	-34	-	3		36	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	148	30	-	-34	-	3		35	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	150	30	-	-34	-	3		35	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	121	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	125	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		64	50	
															Criteria ANL		65	55	
															Exceedance		-	-	

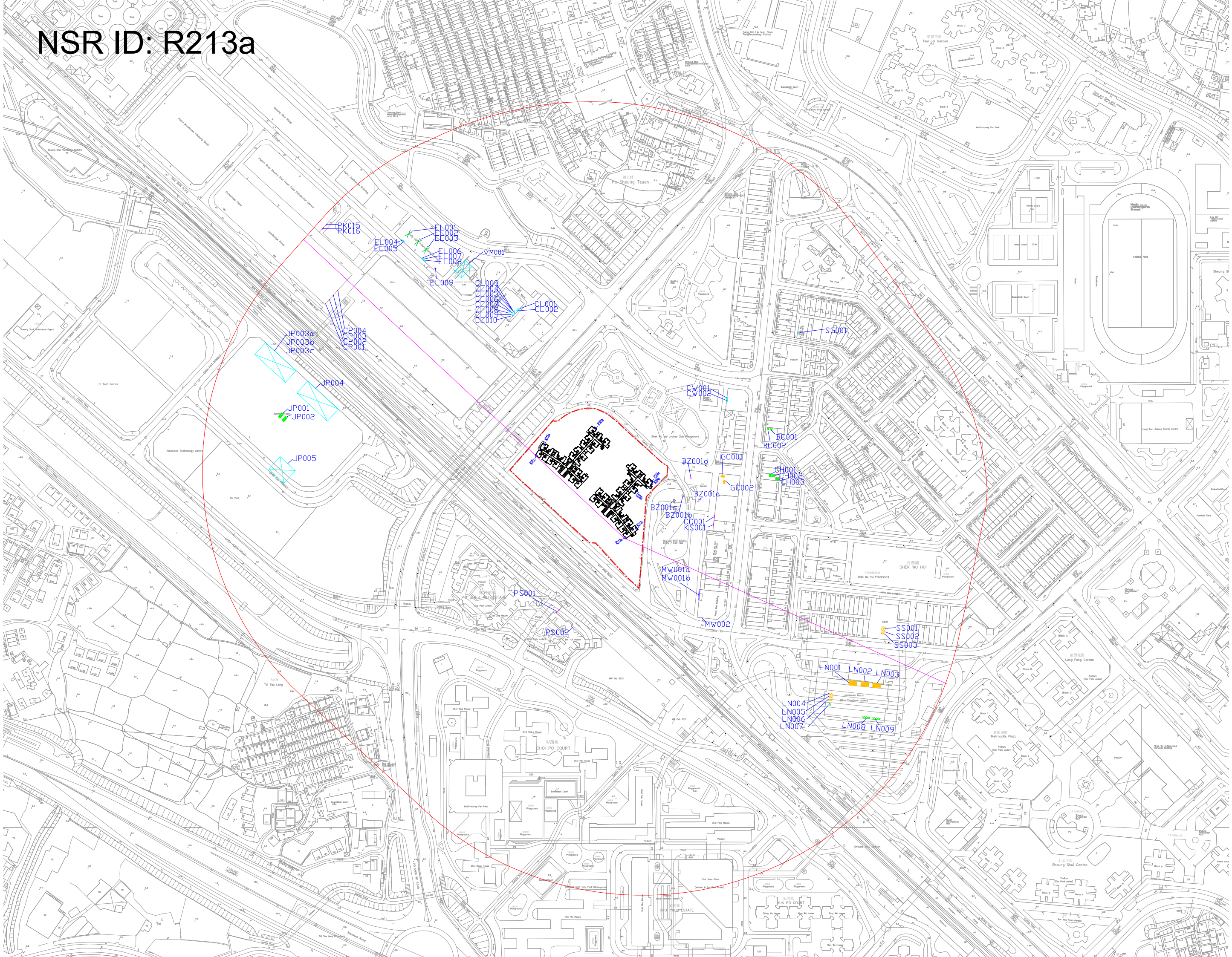
Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R212c**
NSR x coord:	**831007.6**
NSR y coord:	**840493.0**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	369	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	357	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	347	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	368	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	366	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	342	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	341	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	339	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	330	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	315	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	253	30	-	-	-	-		-	-	No line of sight.
CL002			Y	N	62.2	2.5	830890	840706	21	252	30	-	-	-	-		-	-	No line of sight.
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	256	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	253	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	251	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	255	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	253	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	254	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	252	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	251	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	429	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	429	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	384	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	383	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	383	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	382	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	371	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	366	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	401	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	401	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	401	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	344	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	366	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	174	30	-	-28	-	3		37	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	177	30	-	-28	-	3		37	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	173	30	-	-35	-	3		27	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	171	30	-	-35	-	3		27	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	109	30	-	-29	-	3		44	44	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	119	30	-	-32	-	3		42	42	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	133	30	-	-42	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	260	30	-	-42	-	3		33	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	260	30	-	-42	-	3		33	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	260	30	-	-42	-	3		33	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	260	30	-	-42	-	3		33	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	260	30	-	-42	-	3		33	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	260	30	-	-42	-	3		33	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	256	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	291	30	-	-43	-	3		35	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	299	30	-	-43	-	3		35	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	255	30	-	-31	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	259	30	-	-42	-	3		33	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	260	30	-	-42	-	3		33	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	261	30	-	-42	-	3		33	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	107	30	-	-31	-	3		37	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	107	30	-	-31	-	3		39	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	116	30	-	-21	-	3		34	34	-
GC002			Y	Y	52.3	10.0	831092	840538	26	115	30	-	-21	-	3		34	34	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	104	30	-	-31	-	3		39	39	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	98	30	-	-34	-	3		40	40	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	93	30	-	-28	-	3	6	62	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	108	30	-	-27	-	3		40	40	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	156	30	-	-34	-	3		35	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	158	30	-	-34	-	3		35	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	160	30	-	-35	-	3		35	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	134	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	139	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		62	49	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R212c**
NSR x coord:	**831007.6**
NSR y coord:	**840493.0**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	381	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	370	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	360	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	380	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	379	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	356	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	354	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	352	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	346	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	334	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	273	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	272	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	275	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	273	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	271	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	275	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	273	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	274	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	272	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	271	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	440	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	440	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	399	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	398	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	398	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	397	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	384	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	379	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	416	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	416	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	416	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	361	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	382	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	203	30	-	-29	-	3		35	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	204	30	-	-29	-	3		35	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	203	30	-	-37	-	3		25	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	202	30	-	-37	-	3		25	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	153	30	-	-32	-	3		41	41	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	161	30	-	-35	-	3		40	40	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	171	30	-	-45	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	259	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	293	30	-	-43	-	3		35	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	302	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	272	30	-	-32	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	265	30	-	-42	-	3		33	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	266	30	-	-42	-	3		33	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	267	30	-	-42	-	3		33	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	150	30	-	-34	-	3		34	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	152	30	-	-34	-	3		36	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	153	30	-	-24	-	3		32	32	-
GC002			Y	Y	52.3	10.0	831092	840538	26	152	30	-	-24	-	3		32	32	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	151	30	-	-34	-	3		35	35	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	147	30	-	-37	-	3		36	36	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	143	30	-	-32	-	3	6	58	-	-
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	153	30	-	-30	-	3		37	37	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	187	30	-	-36	-	3		33	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	189	30	-	-36	-	3		33	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	191	30	-	-36	-	3		33	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	171	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	175	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		58	46	
															Criteria ANL		65	55	
															Exceedance		-	-	

NSR ID: R213a


PK015
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PS001
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LN009

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R213a**
NSR x coord:	**830994.4**
NSR y coord:	**840483.1**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	365	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	353	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	342	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	363	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	361	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	338	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	336	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	334	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	322	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	307	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	247	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	246	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	249	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	247	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	245	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	248	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	246	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	248	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	245	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	244	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	423	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	423	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	372	30	-	-51	-	3		27	27	-
CP002			Y	Y	70.9	1.0	830706	840716	11	371	30	-	-51	-	3		23	23	-
CP003			Y	Y	73.7	1.0	830710	840721	11	371	30	-	-51	-	3		25	25	-
CP004			Y	Y	75.4	1.0	830714	840725	11	371	30	-	-51	-	3		27	27	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	356	30	-	-34	-	3		49	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	352	30	-	-34	-	3		49	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	386	2	-12	-32	-	3		27	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	386	2	-12	-38	-	3		42	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	386	2	-12	-42	-	3		30	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	327	30	-	-41	-	3		31	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	346	30	-	-33	-	3		35	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	177	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	180	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	172	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	169	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	85	30	-	-27	-	3		46	46	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	95	30	-	-30	-	3		44	44	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	111	30	-	-41	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	274	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	274	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	274	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	274	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	274	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	274	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	268	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	302	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	311	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	264	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	274	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	275	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	275	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	93	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	91	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	114	30	-	-21	-	3		34	34	-
GC002			Y	Y	52.3	10.0	831092	840538	26	113	30	-	-21	-	3		34	34	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	85	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	75	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	66.38	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	91	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	156	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	159	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	161	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	97	30	-	-34	-	3		41	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	103	30	-	-34	-	3		24	24	-
															Tonality		0	0	
															Total SPL		55	49	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R213a**
NSR x coord:	**830994.4**
NSR y coord:	**840483.1**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	366	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	354	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	343	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	364	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	363	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	339	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	337	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	335	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	325	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	311	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	250	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	249	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	252	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	250	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	248	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	251	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	249	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	250	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	248	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	247	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	424	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	423	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	374	30	-	-51	-	3		27	27	-
CP002			Y	Y	70.9	1.0	830706	840716	11	374	30	-	-51	-	3		22	22	-
CP003			Y	Y	73.7	1.0	830710	840721	11	374	30	-	-51	-	3		25	25	-
CP004			Y	Y	75.4	1.0	830714	840725	11	374	30	-	-51	-	3		27	27	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	358	30	-	-34	-	3		49	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	353	30	-	-34	-	3		49	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	389	2	-12	-32	-	3		27	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	389	2	-12	-38	-	3		42	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	389	2	-12	-42	-	3		29	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	330	30	-	-41	-	3		31	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	349	30	-	-33	-	3		35	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	181	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	184	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	177	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	175	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	96	30	-	-28	-	3		45	45	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	105	30	-	-31	-	3		43	43	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	119	30	-	-42	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	262	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	297	30	-	-43	-	3		35	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	306	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	266	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	270	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	270	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	271	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	102	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	101	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	119	30	-	-22	-	3		34	34	-
GC002			Y	Y	52.3	10.0	831092	840538	26	118	30	-	-21	-	3		34	34	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	97	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	88	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	81.02	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	102	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	161	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	163	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	166	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	106	30	-	-34	-	3		40	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	111	30	-	-35	-	3		23	23	-
															Tonality		0	0	
															Total SPL		55	48	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R213a**
NSR x coord:	**830994.4**
NSR y coord:	**840483.1**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	369	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	357	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	347	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	368	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	366	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	342	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	340	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	339	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	330	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	317	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	256	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	255	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	258	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	256	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	254	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	257	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	255	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	256	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	254	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	253	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	427	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	426	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	379	30	-	-52	-	3		27	27	-
CP002			Y	Y	70.9	1.0	830706	840716	11	379	30	-	-52	-	3		22	22	-
CP003			Y	Y	73.7	1.0	830710	840721	11	379	30	-	-52	-	3		25	25	-
CP004			Y	Y	75.4	1.0	830714	840725	11	378	30	-	-52	-	3		27	27	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	362	30	-	-34	-	3		49	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	357	30	-	-34	-	3		49	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	394	2	-12	-32	-	3		27	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	394	2	-12	-38	-	3		42	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	394	2	-12	-42	-	3		29	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	336	30	-	-41	-	3		31	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	354	30	-	-33	-	3		35	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	190	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	192	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	187	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	185	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	114	30	-	-29	-	3		43	43	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	121	30	-	-32	-	3		42	42	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	133	30	-	-42	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	265	30	-	-42	-	3		33	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	265	30	-	-42	-	3		33	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	265	30	-	-42	-	3		33	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	265	30	-	-42	-	3		33	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	265	30	-	-42	-	3		33	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	265	30	-	-42	-	3		33	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	259	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	295	30	-	-43	-	3		35	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	304	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	270	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	268	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	269	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	269	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	118	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	117	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	130	30	-	-22	-	3		33	33	-
GC002			Y	Y	52.3	10.0	831092	840538	26	129	30	-	-22	-	3		33	33	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	115	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	108	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	101.77	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	119	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	170	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	173	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	175	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	121	30	-	-36	-	3		39	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	126	30	-	-36	-	3		22	22	-
															Tonality		0	0	
															Total SPL		54	46	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R213a**
NSR x coord:	**830994.4**
NSR y coord:	**840483.1**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**B**

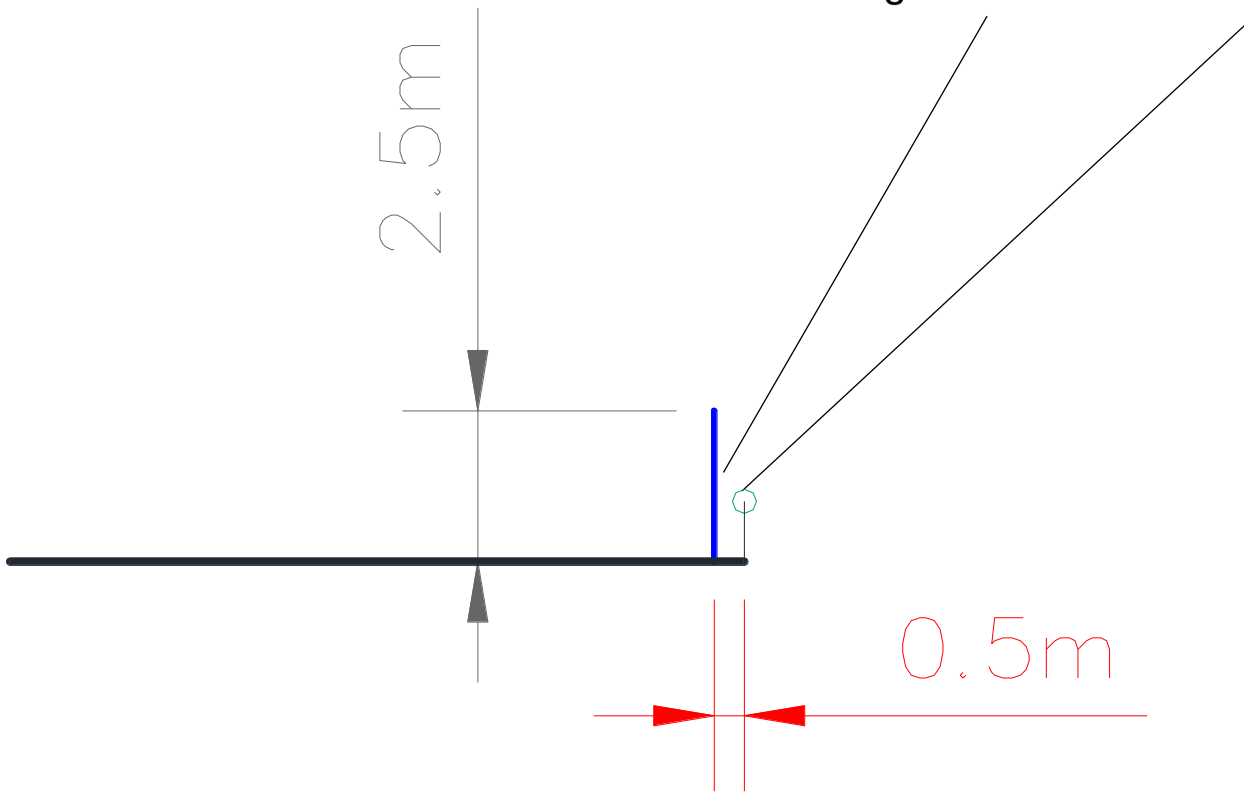
Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	381	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	370	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	360	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	380	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	378	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	356	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	354	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	352	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	346	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	335	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	276	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	275	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	278	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	276	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	274	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	277	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	275	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	276	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	274	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	273	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	437	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	437	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	394	30	-	-52	-	3		26	26	-
CP002			Y	Y	70.9	1.0	830706	840716	11	394	30	-	-52	-	3		22	22	-
CP003			Y	Y	73.7	1.0	830710	840721	11	394	30	-	-52	-	3		25	25	-
CP004			Y	Y	75.4	1.0	830714	840725	11	393	30	-	-52	-	3		27	27	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	375	30	-	-35	-	3		49	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	370	30	-	-34	-	3		49	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	409	2	-12	-32	-	3		27	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	409	2	-12	-38	-	3		42	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	409	2	-12	-43	-	3		29	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	353	30	-	-41	-	3		30	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	371	30	-	-33	-	3		34	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	216	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	218	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	215	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	214	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	157	30	-	-32	-	3		41	41	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	163	30	-	-35	-	3		39	39	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	171	30	-	-45	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	262	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	298	30	-	-43	-	3		35	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	306	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	287	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	274	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	274	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	275	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	158	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	159	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	164	30	-	-24	-	3		31	31	-
GC002			Y	Y	52.3	10.0	831092	840538	26	163	30	-	-24	-	3		31	31	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	158	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	154	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	149.40	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd noise	Y	Y	63.8	5.0	831059	840542	8	162	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	199	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	201	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	203	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	161	30	-	-38	-	3		37	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	165	30	-	-38	-	3		20	20	-
															Tonality		0	0	
															Total SPL		54	44	
															Criteria ANL		65	55	
															Exceedance		-	-	

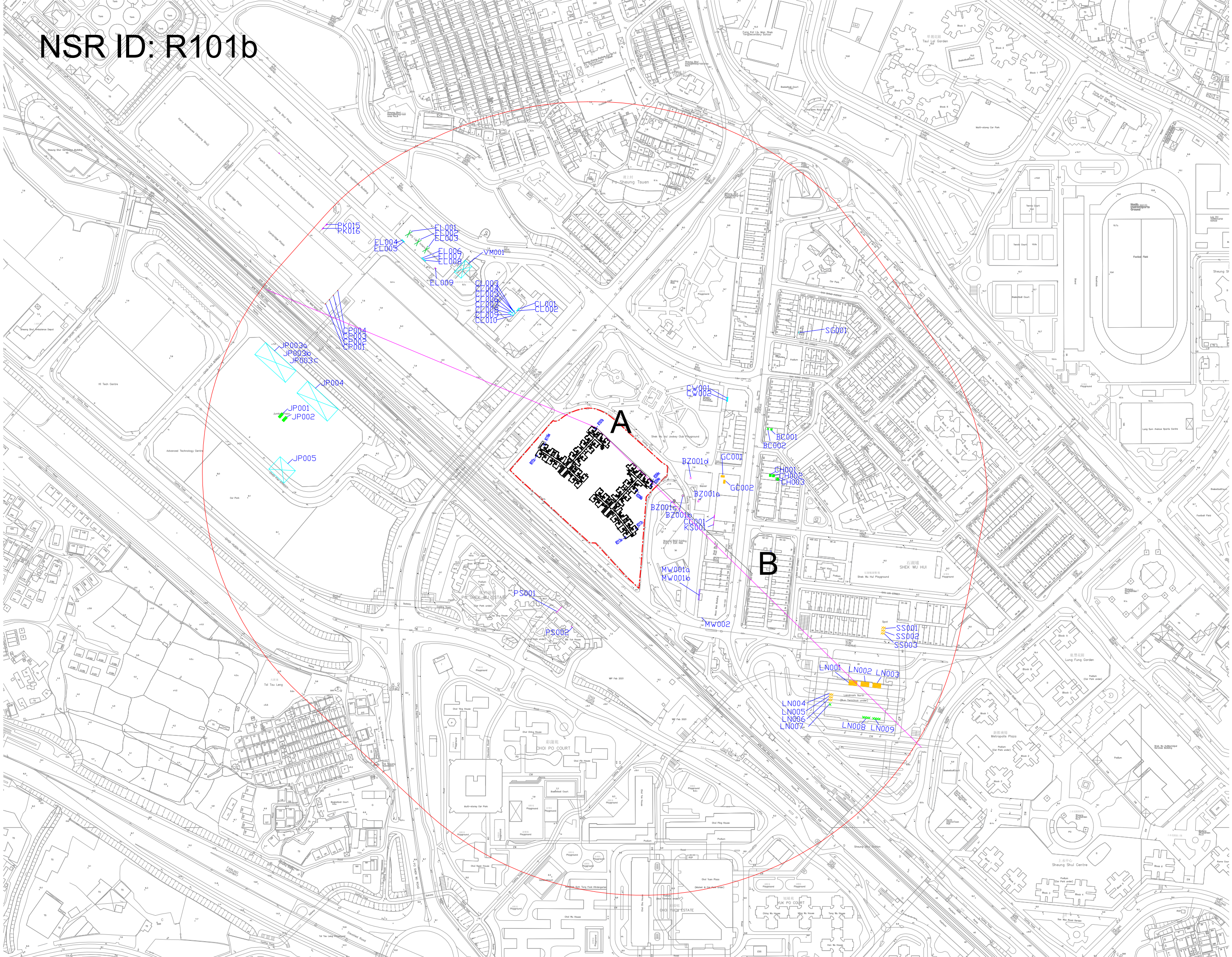
Appendix 6.5

Calculation of Fixed Noise Levels at Receivers for Residential Blocks (Mitigated Scenario)

Details of the proposed noise mitigation measures for screening the noisy part of the pump for the water tank on the vehicle

The noisy part of the pump for the water tank on the vehicle

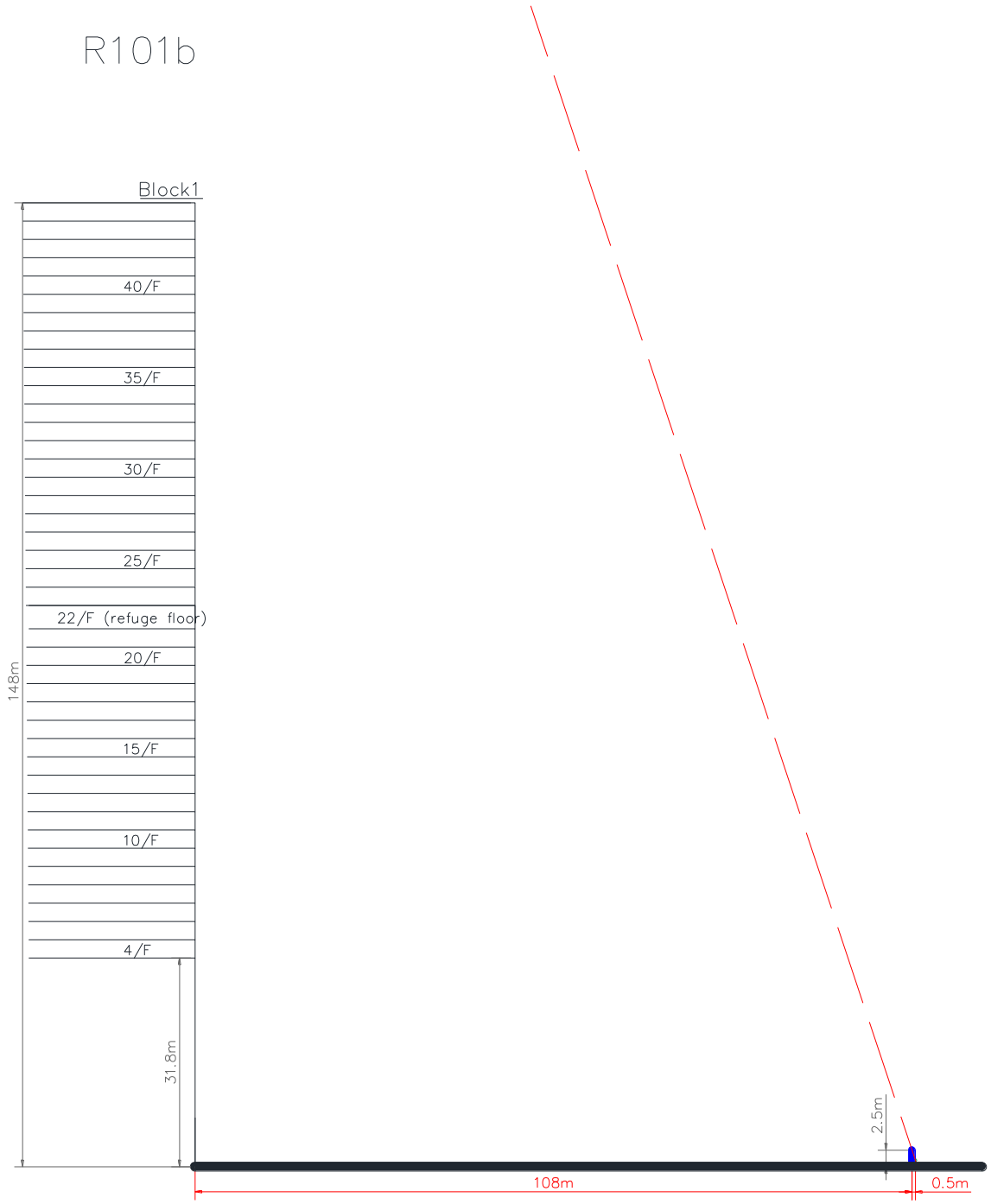




NSR ID: R101b

A
B
JP001
JP002
JP003a
JP003b
JP003c
JP004
JP005
PK015
EL004
EL005
EL001
EL003
EL008
EL009
YM001
CL001
CL002
PS001
PS002
MW001a
MW001b
MW002
BZ001a
BZ001b
BZ001c
BZ001d
KS001
CC001
GC001
GC002
CW001
CW002
BC001
BC002
CH001
CH002
CH003
SG001
LN001
LN002
LN003
LN004
LN005
LN006
LN007
LN008
LN009
SS001
SS002
SS003
CHOI PO COURT
SHEK WU HUI

NSR ID: R101b (Section A-B)



Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R101b**
NSR x coord:	**830967.2**
NSR y coord:	**840591.2**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	264	30	-	-34	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	252	30	-	-34	-	3		51	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	241	30	-	-34	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	264	30	-	-39	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	262	30	-	-39	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	238	30	-	-38	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	236	30	-	-38	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	234	30	-	-38	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	222	30	-	-33	-	3		33	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	204	30	-	-29	-	3		43	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	139	30	-	-35	-	3		30	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	139	30	-	-35	-	3		30	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	142	30	-	-40	-	3		25	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	140	30	-	-39	-	3		25	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	138	30	-	-39	-	3		25	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	142	30	-	-40	-	3		25	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	140	30	-	-39	-	3		25	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	141	30	-	-39	-	3		25	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	139	30	-	-39	-	3		25	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	137	30	-	-39	-	3		25	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	330	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	331	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	292	30	-	-49	-	3		29	29	-
CP002			Y	Y	70.9	1.0	830706	840716	11	290	30	-	-49	-	3		25	25	-
CP003			Y	Y	73.7	1.0	830710	840721	11	289	30	-	-49	-	3		27	27	-
CP004			Y	Y	75.4	1.0	830714	840725	11	287	30	-	-49	-	3		29	29	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	309	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	305	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	325	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	325	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	325	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	270	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	317	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	168	30	-	-28	-	3		37	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	172	30	-	-28	-	3		37	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	133	30	-	-33	-	3		29	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	132	30	-	-33	-	3		29	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	174	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	193	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	214	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	361	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	361	30	-	-45	-	3		30	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	361	30	-	-45	-	3		30	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	361	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	361	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	361	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	361	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	393	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	401	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	220	30	-	-30	-	3		54	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	347	30	-	-45	-	3		30	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	348	30	-	-45	-	3		30	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	349	30	-	-45	-	3		30	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	146	30	-	-34	-	3		34	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	150	30	-	-34	-	3		36	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	133	30	-	-22	-	3		33	33	-
GC002			Y	Y	52.3	10.0	831092	840538	26	136	30	-	-23	-	3		33	33	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	126	30	-	-32	-	3		37	37	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	111	30	-	-35	-	3		39	39	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	107	30	-	-30	-5	3	6	55	-	Screened
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	108	30	-	-27	-	3		40	40	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	177	30	-	-35	-	3		34	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	180	30	-	-36	-	3		34	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	185	30	-	-36	-	3		34	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	183	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	197	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		60	45	
															Criteria ANL		70	60	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R101b**
NSR x coord:	**830967.2**
NSR y coord:	**840591.2**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	265	30	-	-34	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	253	30	-	-34	-	3		51	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	243	30	-	-34	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	265	30	-	-39	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	263	30	-	-39	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	239	30	-	-38	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	237	30	-	-38	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	236	30	-	-38	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	226	30	-	-33	-	3		33	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	209	30	-	-29	-	3		42	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	144	30	-	-35	-	3		30	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	144	30	-	-35	-	3		30	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	147	30	-	-40	-	3		25	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	145	30	-	-40	-	3		25	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	143	30	-	-40	-	3		25	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	147	30	-	-40	-	3		25	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	145	30	-	-40	-	3		25	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	146	30	-	-40	-	3		25	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	144	30	-	-40	-	3		25	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	143	30	-	-40	-	3		25	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	332	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	332	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	295	30	-	-49	-	3		29	29	-
CP002			Y	Y	70.9	1.0	830706	840716	11	294	30	-	-49	-	3		25	25	-
CP003			Y	Y	73.7	1.0	830710	840721	11	292	30	-	-49	-	3		27	27	-
CP004			Y	Y	75.4	1.0	830714	840725	11	291	30	-	-49	-	3		29	29	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	310	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	307	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	328	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	328	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	328	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	274	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	320	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	173	30	-	-28	-	3		37	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	176	30	-	-28	-	3		37	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	140	30	-	-33	-	3		29	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	140	30	-	-33	-	3		29	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	180	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	199	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	218	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	356	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	356	30	-	-45	-	3		30	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	356	30	-	-45	-	3		30	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	356	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	356	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	356	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	357	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	389	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	397	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	222	30	-	-30	-	3		53	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	343	30	-	-45	-	3		30	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	345	30	-	-45	-	3		30	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	346	30	-	-45	-	3		30	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	152	30	-	-34	-	3		34	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	156	30	-	-34	-	3		36	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	137	30	-	-23	-	3		33	33	-
GC002			Y	Y	52.3	10.0	831092	840538	26	140	30	-	-23	-	3		32	32	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	134	30	-	-33	-	3		37	37	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	120	30	-	-36	-	3		38	38	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	117	30	-	-30	-5	3	6	55	-	Screened
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	117	30	-	-27	-	3		39	39	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	181	30	-	-36	-	3		34	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	184	30	-	-36	-	3		34	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	189	30	-	-36	-	3		33	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	188	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	202	30	-	-	-	-		-	-	No line of sight.
																Tonality	0	0	
																Total SPL	60	44	
																Criteria ANL	70	60	
																Exceedance	-	-	

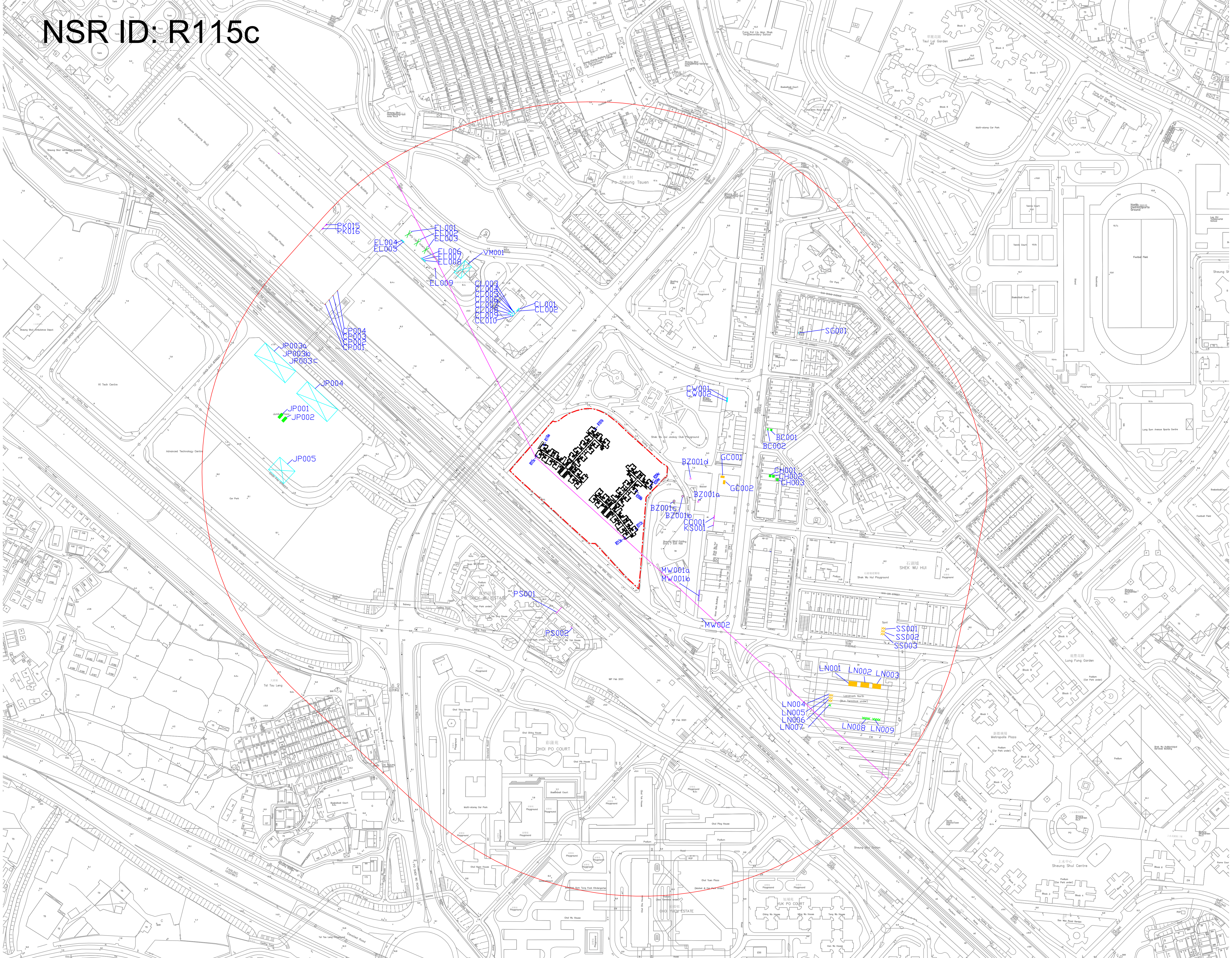
Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R101b**
NSR x coord:	**830967.2**
NSR y coord:	**840591.2**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	270	30	-	-35	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	258	30	-	-34	-	3		51	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	247	30	-	-34	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	270	30	-	-39	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	268	30	-	-39	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	244	30	-	-38	-	3		26	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	242	30	-	-38	-	3		26	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	241	30	-	-38	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	233	30	-	-33	-	3		33	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	217	30	-	-30	-	3		42	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	154	30	-	-36	-	3		29	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	154	30	-	-36	-	3		29	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	157	30	-	-40	-	3		24	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	155	30	-	-40	-	3		24	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	153	30	-	-40	-	3		25	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	157	30	-	-40	-	3		24	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	155	30	-	-40	-	3		24	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	156	30	-	-40	-	3		24	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	154	30	-	-40	-	3		24	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	153	30	-	-40	-	3		25	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	335	30	-	-51	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	336	30	-	-51	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	301	30	-	-50	-	3		29	29	-
CP002			Y	Y	70.9	1.0	830706	840716	11	300	30	-	-50	-	3		24	24	-
CP003			Y	Y	73.7	1.0	830710	840721	11	298	30	-	-49	-	3		27	27	-
CP004			Y	Y	75.4	1.0	830714	840725	11	297	30	-	-49	-	3		29	29	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	315	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	311	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	334	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	334	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	334	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	281	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	326	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	181	30	-	-28	-	3		36	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	185	30	-	-28	-	3		36	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	152	30	-	-34	-	3		28	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	152	30	-	-34	-	3		28	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	190	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	208	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	226	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	354	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	354	30	-	-45	-	3		30	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	354	30	-	-45	-	3		30	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	354	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	354	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	354	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	355	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	387	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	395	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	227	30	-	-30	-	3		53	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	342	30	-	-45	-	3		30	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	344	30	-	-45	-	3		30	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	345	30	-	-45	-	3		30	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	163	30	-	-35	-	3		34	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	167	30	-	-35	-	3		35	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	147	30	-	-23	-	3		32	32	-
GC002			Y	Y	52.3	10.0	831092	840538	26	150	30	-	-24	-	3		32	32	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	147	30	-	-34	-	3		36	36	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	135	30	-	-37	-	3		37	37	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	132	30	-	-32	-5	3	6	54	-	Screened
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	132	30	-	-28	-	3		38	38	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	189	30	-	-36	-	3		33	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	192	30	-	-36	-	3		33	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	197	30	-	-36	-	3		33	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	197	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	210	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		60	43	
															Criteria ANL		70	60	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R101b**
NSR x coord:	**830967.2**
NSR y coord:	**840591.2**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	286	30	-	-35	-	3		50	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	275	30	-	-35	-	3		51	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	265	30	-	-35	-	3		51	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	286	30	-	-40	-	3		25	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	285	30	-	-40	-	3		25	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	262	30	-	-39	-	3		26	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	261	30	-	-39	-	3		26	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	259	30	-	-39	-	3		26	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	255	30	-	-34	-	3		32	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	243	30	-	-31	-	3		41	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	185	30	-	-37	-	3		28	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	185	30	-	-37	-	3		28	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	188	30	-	-42	-	3		23	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	186	30	-	-42	-	3		23	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	184	30	-	-42	-	3		23	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	187	30	-	-42	-	3		23	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	186	30	-	-42	-	3		23	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	187	30	-	-42	-	3		23	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	185	30	-	-42	-	3		23	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	184	30	-	-42	-	3		23	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	349	30	-	-51	-	3		26	26	-
PK016			Y	Y	74.1	1.0	830700	840786	32	349	30	-	-51	-	3		26	26	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	320	30	-	-50	-	3		28	28	-
CP002			Y	Y	70.9	1.0	830706	840716	11	319	30	-	-50	-	3		24	24	-
CP003			Y	Y	73.7	1.0	830710	840721	11	317	30	-	-50	-	3		27	27	-
CP004			Y	Y	75.4	1.0	830714	840725	11	316	30	-	-50	-	3		28	28	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	330	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	326	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	351	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	351	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	351	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	302	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	344	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	209	30	-	-29	-	3		35	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	211	30	-	-30	-	3		35	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	186	30	-	-36	-	3		26	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	186	30	-	-36	-	3		26	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	219	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	234	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	250	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	357	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	357	30	-	-45	-	3		30	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	357	30	-	-45	-	3		30	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	357	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	357	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	357	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	357	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	390	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	397	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	246	30	-	-31	-	3		53	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	347	30	-	-45	-	3		30	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	348	30	-	-45	-	3		30	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	349	30	-	-45	-	3		30	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	194	30	-	-36	-	3		32	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	198	30	-	-36	-	3		34	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	177	30	-	-25	-	3		30	30	-
GC002			Y	Y	52.3	10.0	831092	840538	26	180	30	-	-25	-	3		30	30	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	183	30	-	-36	-	3		34	34	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	174	30	-	-39	-	3		35	35	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	172	30	-	-34	-5	3	6	51	-	Screened
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	172	30	-	-31	-	3		36	36	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	216	30	-	-37	-	3		32	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	218	30	-	-37	-	3		32	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	222	30	-	-37	-	3		32	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	224	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	236	30	-	-	-	-		-	-	No line of sight.
																Tonality	0	0	
																Total SPL	59	42	
																Criteria ANL	70	60	
																Exceedance	-	-	

NSR ID: R115c



PK015
PK016
EL001
EL002
EL003
EL004
EL005
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EL007
EL008
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VM001
CL001
CL002
CL003
CL010
CP004
CP003
CP002
CP001
JP003a
JP003b
JP003c
JP004
JP001
JP002
JP005
CW001
CW002
BC001
BC002
BZ001d
GC001
GC002
CH001
CH002
CH003
BZ001a
BZ001c
BZ001b
CC001
KS001
SG001
MW001a
MW001b
MW002
PS001
PS002
SS001
SS002
SS003
LN001
LN002
LN003
LN004
LN005
LN006
LN007
LN008
LN009
SHEK WU HUI
CHOI PO COURT
Po Sheung Tsuen
Lung Fung Garden
Metropolis Plaza
Sheung Shui Centre

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R115c**
NSR x coord:	**830908.2**
NSR y coord:	**840562.6**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	251	30	-	-34	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	240	30	-	-34	-	3		52	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	229	30	-	-33	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	249	30	-	-38	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	247	30	-	-38	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	224	30	-	-37	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	222	30	-	-37	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	220	30	-	-37	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	210	30	-	-32	-	3		34	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	198	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	146	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	145	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	146	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	145	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	142	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	145	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	143	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	144	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	142	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	141	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	306	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	306	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	255	30	-	-48	-	3		30	30	-
CP002			Y	Y	70.9	1.0	830706	840716	11	255	30	-	-48	-	3		26	26	-
CP003			Y	Y	73.7	1.0	830710	840721	11	254	30	-	-48	-	3		29	29	-
CP004			Y	Y	75.4	1.0	830714	840725	11	254	30	-	-48	-	3		30	30	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	253	30	-	-31	-	3		52	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	249	30	-	-31	-	3		52	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	276	2	-12	-29	-	3		30	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	276	2	-12	-35	-	3		45	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	276	2	-12	-39	-	3		32	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	218	30	-	-37	-	3		34	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	255	30	-	-30	-	3		38	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	229	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	232	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	197	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	196	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	197	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	210	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	227	30	-	-47	-	3		36	-	-
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	387	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	387	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	387	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	387	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	387	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	387	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	382	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	417	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	425	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	285	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	383	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	384	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	385	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	185	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	187	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	184	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	186	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	167	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	151	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	144	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	155	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	230	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	233	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	237	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	153	30	-	-38	-	3		37	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	171	30	-	-39	-	3		20	20	-
															Tonality		0	0	
															Total SPL		59	36	
															Criteria ANL		70	60	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R115c**
NSR x coord:	**830908.2**
NSR y coord:	**840562.6**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	253	30	-	-34	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	241	30	-	-34	-	3		52	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	231	30	-	-33	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	251	30	-	-38	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	249	30	-	-38	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	226	30	-	-38	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	224	30	-	-37	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	222	30	-	-37	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	214	30	-	-33	-	3		34	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	203	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	151	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	150	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	151	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	150	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	147	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	150	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	148	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	149	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	147	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	146	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	307	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	307	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	259	30	-	-48	-	3		30	30	-
CP002			Y	Y	70.9	1.0	830706	840716	11	259	30	-	-48	-	3		26	26	-
CP003			Y	Y	73.7	1.0	830710	840721	11	258	30	-	-48	-	3		28	28	-
CP004			Y	Y	75.4	1.0	830714	840725	11	258	30	-	-48	-	3		30	30	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	255	30	-	-31	-	3		52	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	251	30	-	-31	-	3		52	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	280	2	-12	-29	-	3		30	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	280	2	-12	-35	-	3		45	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	280	2	-12	-39	-	3		32	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	223	30	-	-37	-	3		34	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	259	30	-	-30	-	3		37	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	232	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	235	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	202	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	201	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	202	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	215	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	231	30	-	-47	-	3		36	-	-
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	378	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	413	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	422	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	287	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	380	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	381	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	382	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	190	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	192	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	187	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	189	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	173	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	158	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	151	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	162	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	233	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	237	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	241	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	158	30	-	-38	-	3		37	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	176	30	-	-39	-	3		19	19	-
															Tonality		0	0	
															Total SPL		59	36	
															Criteria ANL		70	60	
															Exceedance		-	-	

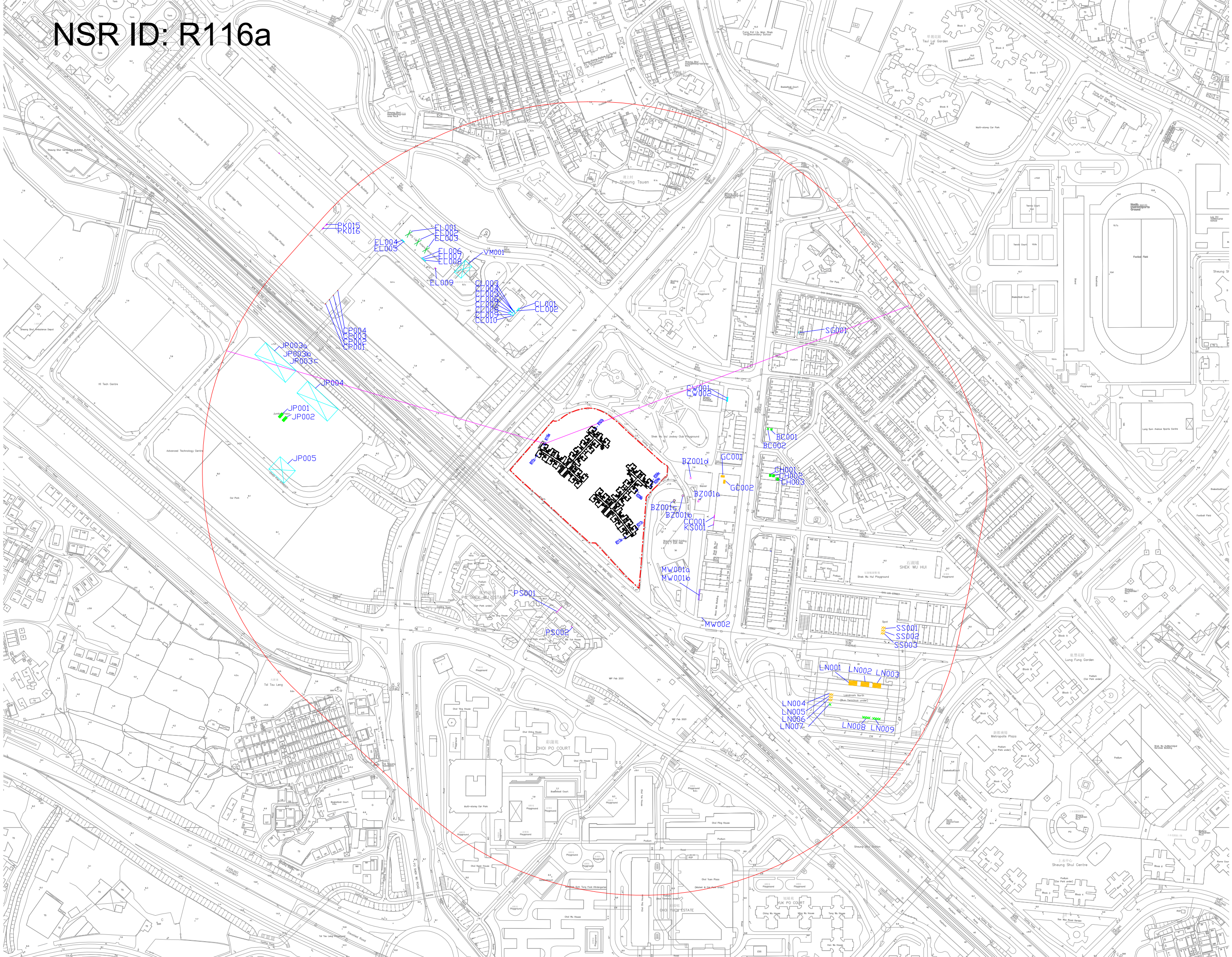
Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R115c**
NSR x coord:	**830908.2**
NSR y coord:	**840562.6**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	257	30	-	-34	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	246	30	-	-34	-	3		52	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	236	30	-	-33	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	255	30	-	-39	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	254	30	-	-39	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	231	30	-	-38	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	229	30	-	-38	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	227	30	-	-38	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	221	30	-	-33	-	3		33	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	212	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	161	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	160	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	161	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	159	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	157	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	160	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	158	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	158	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	157	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	156	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	311	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	311	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	266	30	-	-49	-	3		30	30	-
CP002			Y	Y	70.9	1.0	830706	840716	11	266	30	-	-48	-	3		25	25	-
CP003			Y	Y	73.7	1.0	830710	840721	11	265	30	-	-48	-	3		28	28	-
CP004			Y	Y	75.4	1.0	830714	840725	11	265	30	-	-48	-	3		30	30	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	260	30	-	-31	-	3		52	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	256	30	-	-31	-	3		52	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	286	2	-12	-29	-	3		30	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	286	2	-12	-35	-	3		45	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	286	2	-12	-40	-	3		32	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	232	30	-	-38	-	3		34	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	267	30	-	-30	-	3		37	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	239	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	242	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	210	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	210	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	211	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	224	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	239	30	-	-48	-	3		36	-	-
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	381	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	381	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	381	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	381	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	381	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	381	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	376	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	412	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	420	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	291	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	379	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	380	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	380	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	199	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	201	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	194	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	196	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	183	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	169	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	163	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	173	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	240	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	243	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	247	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	169	30	-	-39	-	3		36	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	186	30	-	-39	-	3		19	19	-
															Tonality		0	0	
															Total SPL		59	36	
															Criteria ANL		70	60	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R115c**
NSR x coord:	**830908.2**
NSR y coord:	**840562.6**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	275	30	-	-35	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	264	30	-	-34	-	3		51	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	255	30	-	-34	-	3		51	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	273	30	-	-39	-	3		25	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	271	30	-	-39	-	3		25	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	250	30	-	-38	-	3		26	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	249	30	-	-38	-	3		26	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	247	30	-	-38	-	3		26	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	245	30	-	-34	-	3		33	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	238	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	191	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	190	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	191	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	189	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	188	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	190	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	188	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	189	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	187	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	187	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	326	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	325	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	287	30	-	-49	-	3		29	29	-
CP002			Y	Y	70.9	1.0	830706	840716	11	287	30	-	-49	-	3		25	25	-
CP003			Y	Y	73.7	1.0	830710	840721	11	286	30	-	-49	-	3		28	28	-
CP004			Y	Y	75.4	1.0	830714	840725	11	286	30	-	-49	-	3		29	29	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	278	30	-	-32	-	3		52	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	274	30	-	-32	-	3		52	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	306	2	-12	-30	-	3		29	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	306	2	-12	-36	-	3		44	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	306	2	-12	-40	-	3		32	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	256	30	-	-39	-	3		33	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	288	30	-	-31	-	3		37	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	260	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	263	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	236	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	235	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	237	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	248	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	262	30	-	-48	-	3		35	-	-
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	383	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	378	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	414	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	422	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	306	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	383	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	383	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	384	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	225	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	228	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	218	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	220	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	214	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	202	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	197	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	204	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	261	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	264	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	268	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	200	30	-	-40	-	3		35	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	214	30	-	-41	-	3		18	18	-
															Tonality		0	0	
															Total SPL		58	36	
															Criteria ANL		70	60	
															Exceedance		-	-	

NSR ID: R116a


PK015
PK016
EL004
EL005
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JP003a
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BZ001a
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CC001
KS001
MW001a
MW001b
MW002
PS001
PS002
SS001
SS002
SS003
LN001
LN002
LN003
LN004
LN005
LN006
LN007
LN008
LN009

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R116a**
NSR x coord:	**830916.9**
NSR y coord:	**840575.6**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	245	30	-	-34	-	3		52	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	233	30	-	-33	-	3		52	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	222	30	-	-33	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	243	30	-	-38	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	241	30	-	-38	-	3		27	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	217	30	-	-37	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	216	30	-	-37	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	214	30	-	-37	-	3		28	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	203	30	-	-32	-	3		34	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	190	30	-	-29	-	3		43	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	135	30	-	-35	-	3		31	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	133	30	-	-35	-	3		31	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	135	30	-	-39	-	3		26	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	134	30	-	-39	-	3		26	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	131	30	-	-39	-	3		26	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	134	30	-	-39	-	3		26	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	132	30	-	-39	-	3		26	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	133	30	-	-39	-	3		26	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	131	30	-	-39	-	3		26	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	130	30	-	-39	-	3		26	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	303	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	302	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	255	30	-	-48	-	3		30	30	-
CP002			Y	Y	70.9	1.0	830706	840716	11	254	30	-	-48	-	3		26	26	-
CP003			Y	Y	73.7	1.0	830710	840721	11	254	30	-	-48	-	3		29	29	-
CP004			Y	Y	75.4	1.0	830714	840725	11	253	30	-	-48	-	3		30	30	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	260	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	256	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	280	2	-12	-29	-	3		30	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	280	2	-12	-35	-	3		45	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	280	2	-12	-39	-	3		32	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	223	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	265	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	219	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	222	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	185	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	184	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	198	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	213	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	230	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	388	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	388	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	388	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	388	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	388	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	388	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	384	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	418	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	427	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	272	30	-	-32	-	3		52	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	381	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	382	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	383	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	181	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	184	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	177	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	180	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	162	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	146	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	141	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	149	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	223	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	226	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	230	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	164	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	182	30	-	-	-	-		-	-	No line of sight.
																Tonality	0	0	
																Total SPL	58	36	
																Criteria ANL	70	60	
																Exceedance	-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R116a**
NSR x coord:	**830916.9**
NSR y coord:	**840575.6**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**C**

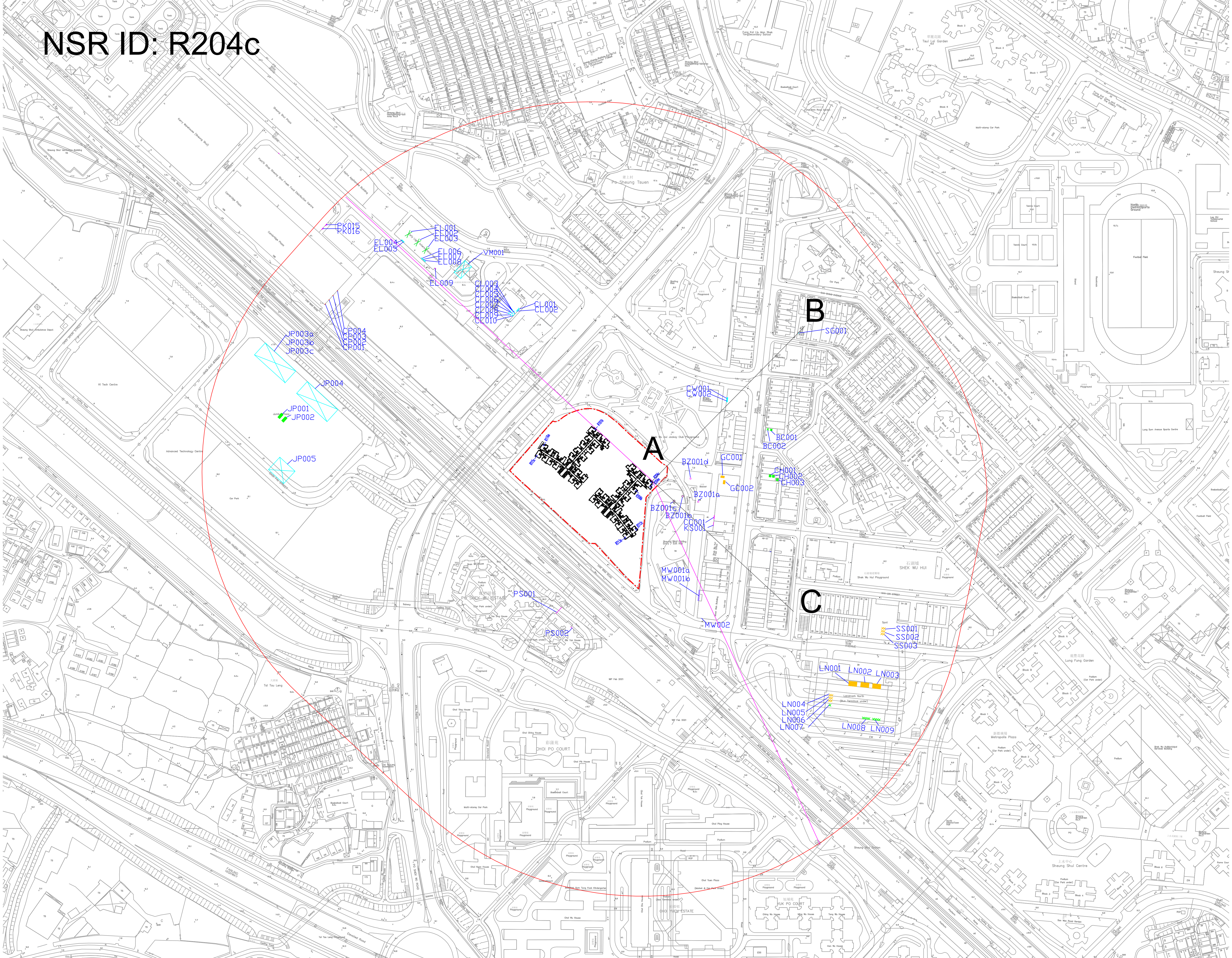
Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	246	30	-	-34	-	3		52	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	234	30	-	-33	-	3		52	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	224	30	-	-33	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	244	30	-	-38	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	243	30	-	-38	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	219	30	-	-37	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	217	30	-	-37	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	216	30	-	-37	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	207	30	-	-32	-	3		34	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	195	30	-	-29	-	3		43	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	140	30	-	-35	-	3		30	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	139	30	-	-35	-	3		30	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	141	30	-	-39	-	3		25	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	139	30	-	-39	-	3		25	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	137	30	-	-39	-	3		26	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	139	30	-	-39	-	3		25	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	138	30	-	-39	-	3		25	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	138	30	-	-39	-	3		25	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	136	30	-	-39	-	3		26	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	135	30	-	-39	-	3		26	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	304	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	304	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	259	30	-	-48	-	3		30	30	-
CP002			Y	Y	70.9	1.0	830706	840716	11	258	30	-	-48	-	3		26	26	-
CP003			Y	Y	73.7	1.0	830710	840721	11	257	30	-	-48	-	3		28	28	-
CP004			Y	Y	75.4	1.0	830714	840725	11	257	30	-	-48	-	3		30	30	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	262	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	258	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	284	2	-12	-29	-	3		30	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	284	2	-12	-35	-	3		45	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	284	2	-12	-40	-	3		32	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	228	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	269	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	222	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	226	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	190	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	190	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	203	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	217	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	234	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	380	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	415	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	423	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	273	30	-	-32	-	3		52	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	378	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	379	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	380	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	186	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	189	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	180	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	183	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	169	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	154	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	148	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	156	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	226	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	229	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	234	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	170	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	187	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		58	36	
															Criteria ANL		70	60	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R116a**
NSR x coord:	**830916.9**
NSR y coord:	**840575.6**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	251	30	-	-34	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	240	30	-	-34	-	3		52	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	230	30	-	-33	-	3		52	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	249	30	-	-38	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	248	30	-	-38	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	225	30	-	-37	-	3		27	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	223	30	-	-37	-	3		27	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	221	30	-	-37	-	3		27	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	215	30	-	-33	-	3		34	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	204	30	-	-29	-	3		42	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	150	30	-	-36	-	3		30	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	149	30	-	-36	-	3		30	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	151	30	-	-40	-	3		25	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	149	30	-	-40	-	3		25	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	147	30	-	-40	-	3		25	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	150	30	-	-40	-	3		25	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	148	30	-	-40	-	3		25	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	149	30	-	-40	-	3		25	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	147	30	-	-40	-	3		25	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	146	30	-	-40	-	3		25	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	308	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	308	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	266	30	-	-48	-	3		30	30	-
CP002			Y	Y	70.9	1.0	830706	840716	11	265	30	-	-48	-	3		25	25	-
CP003			Y	Y	73.7	1.0	830710	840721	11	264	30	-	-48	-	3		28	28	-
CP004			Y	Y	75.4	1.0	830714	840725	11	264	30	-	-48	-	3		30	30	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	267	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	263	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	290	2	-12	-29	-	3		30	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	290	2	-12	-35	-	3		45	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	290	2	-12	-40	-	3		32	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	236	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	276	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	229	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	232	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	199	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	199	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	212	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	226	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	242	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	382	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	382	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	382	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	382	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	382	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	382	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	378	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	413	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	422	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	278	30	-	-32	-	3		52	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	377	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	378	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	379	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	195	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	198	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	188	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	190	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	180	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	166	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	160	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	167	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	233	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	236	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	240	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	180	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	196	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		58	36	
															Criteria ANL		70	60	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R116a**
NSR x coord:	**830916.9**
NSR y coord:	**840575.6**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**C**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	269	30	-	-35	-	3		51	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	258	30	-	-34	-	3		51	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	249	30	-	-34	-	3		51	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	267	30	-	-39	-	3		26	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	266	30	-	-39	-	3		26	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	244	30	-	-38	-	3		26	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	243	30	-	-38	-	3		26	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	241	30	-	-38	-	3		26	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	239	30	-	-34	-	3		33	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	231	30	-	-30	-	3		41	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	182	30	-	-37	-	3		28	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	181	30	-	-37	-	3		28	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	183	30	-	-42	-	3		23	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	181	30	-	-42	-	3		23	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	179	30	-	-42	-	3		23	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	182	30	-	-42	-	3		23	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	180	30	-	-42	-	3		23	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	181	30	-	-42	-	3		23	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	179	30	-	-42	-	3		23	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	179	30	-	-42	-	3		23	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	323	30	-	-50	-	3		27	27	-
PK016			Y	Y	74.1	1.0	830700	840786	32	322	30	-	-50	-	3		27	27	-
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	287	30	-	-49	-	3		29	29	-
CP002			Y	Y	70.9	1.0	830706	840716	11	286	30	-	-49	-	3		25	25	-
CP003			Y	Y	73.7	1.0	830710	840721	11	285	30	-	-49	-	3		28	28	-
CP004			Y	Y	75.4	1.0	830714	840725	11	285	30	-	-49	-	3		29	29	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	284	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	281	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	310	2	-12	-30	-	3		29	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	310	2	-12	-36	-	3		44	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	310	2	-12	-40	-	3		31	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	260	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	297	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	251	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	254	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	227	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	226	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	238	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	250	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	265	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN002			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN003			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN004			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN005			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN006			Y	N	72.0	2.0	831218	840341	101	384	30	-	-	-	-		-	-	No line of sight.
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	380	30	-	-	-	-		-	-	No line of sight.
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	415	30	-	-	-	-		-	-	No line of sight.
LN009			Y	N	75.0	2.0	831241	840307	101	423	30	-	-	-	-		-	-	No line of sight.
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	294	30	-	-32	-	3		51	-	-
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	381	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	382	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	383	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	222	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	225	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	213	30	-	-	-	-		-	-	No line of sight.
GC002			Y	Y	52.3	10.0	831092	840538	26	215	30	-	-	-	-		-	-	No line of sight.
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	210	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	198	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	194	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	200	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	255	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	258	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	261	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	209	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	223	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		58	36	
															Criteria ANL		70	60	
															Exceedance		-	-	


NSR ID: R204c
A
B
C
PK015
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EL001
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CL001
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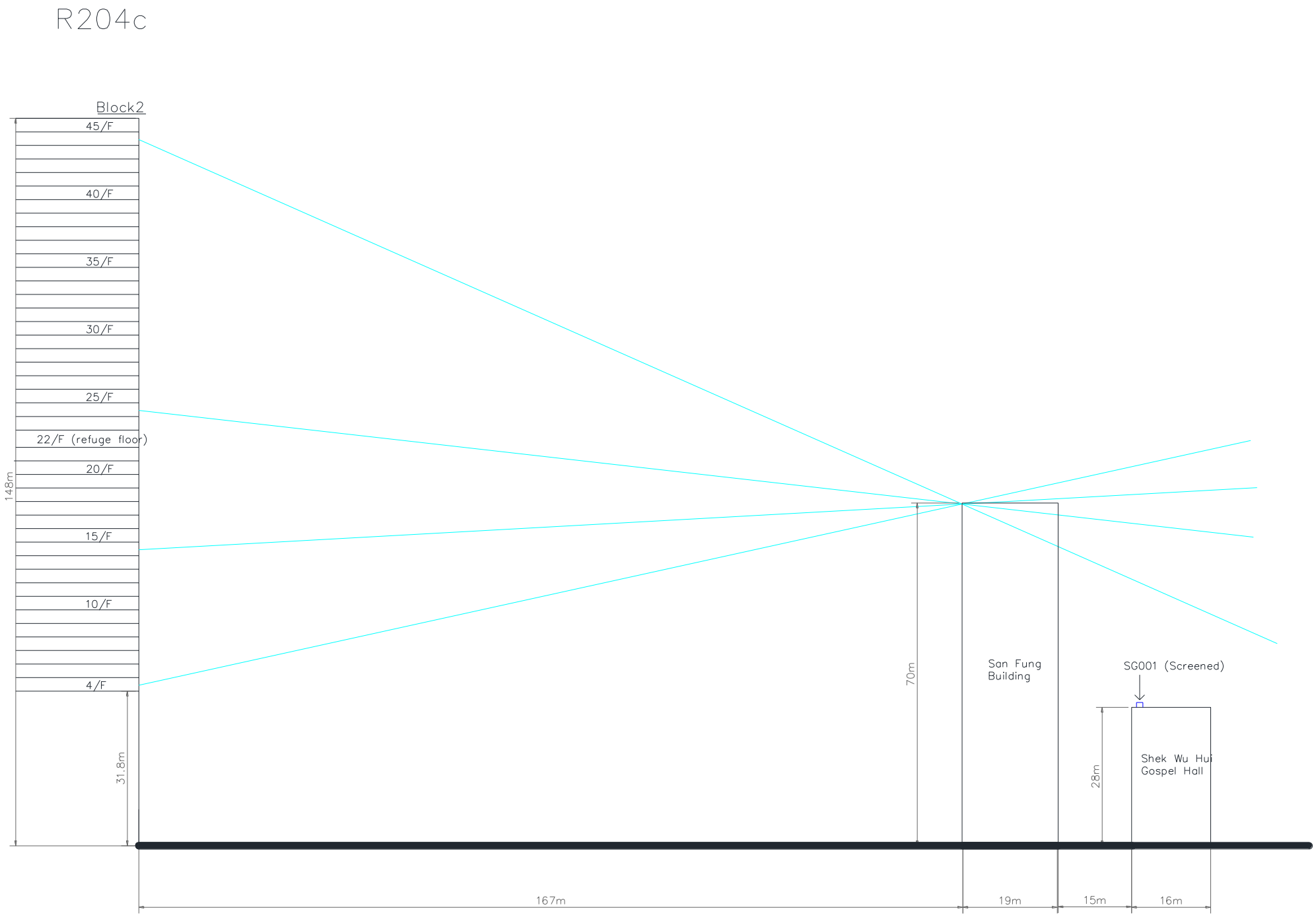
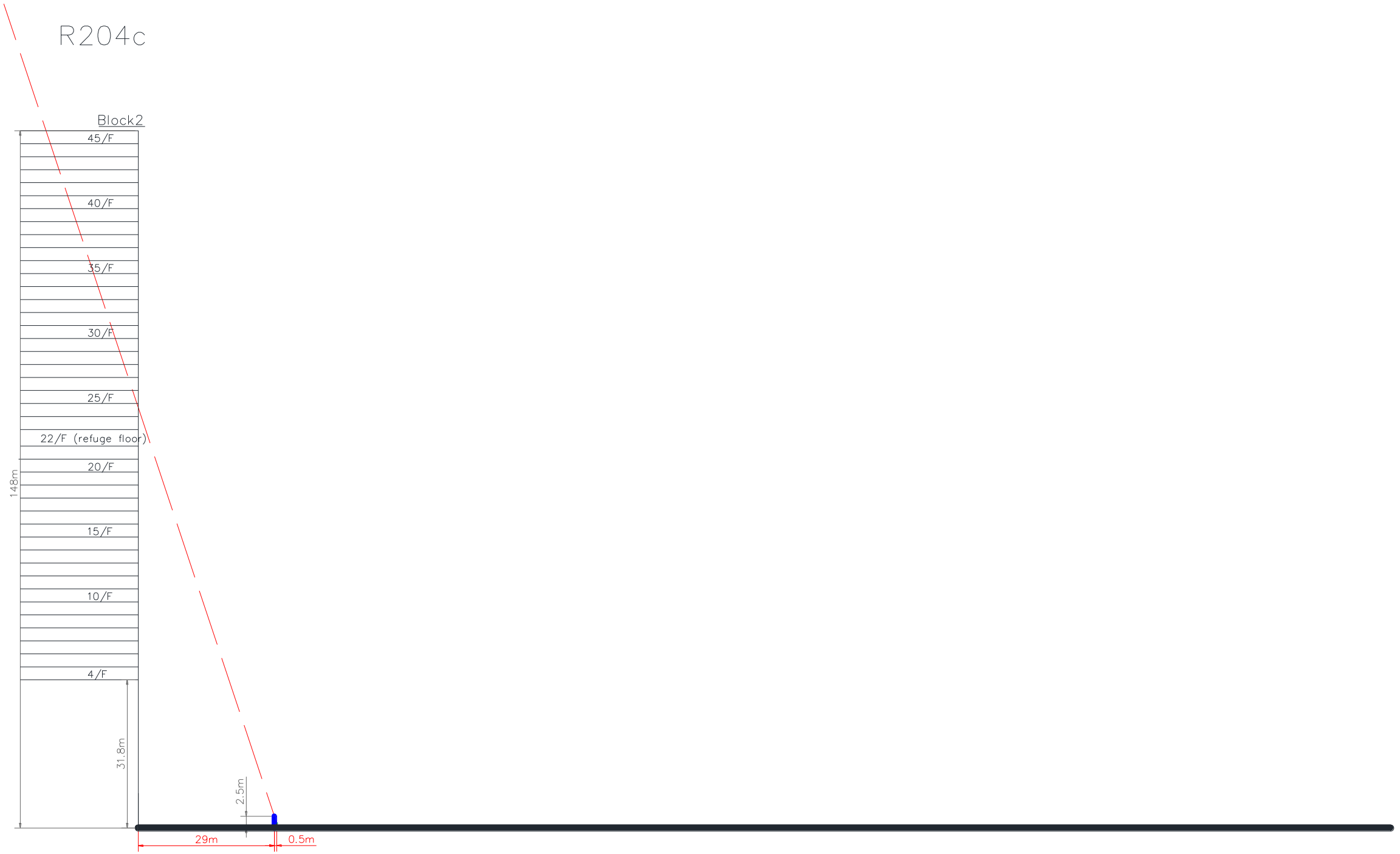
LN006
LN007
LN008
LN009
SHEK WU HUI
Po Sheung Tsuen
CHOI PO COURT
Sheung Shui Centre
Metropolis Plaza
Lung Fung Garden

NSR ID: R204c (Section A-B)



NSR ID: R204c (Section A-C)



Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204c**
NSR x coord:	**831022.2**
NSR y coord:	**840539.5**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	339	30	-	-37	-	3		49	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	327	30	-	-36	-	3		49	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	316	30	-	-36	-	3		49	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	339	30	-	-41	-	3		24	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	337	30	-	-41	-	3		24	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	313	30	-	-40	-	3		24	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	311	30	-	-40	-	3		24	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	309	30	-	-40	-	3		24	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	297	30	-	-35	-	3		31	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	278	30	-	-32	-	3		40	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	213	30	-	-39	-	3		27	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	213	30	-	-39	-	3		27	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	217	30	-	-43	-	3		22	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	214	30	-	-43	-	3		22	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	212	30	-	-43	-	3		22	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	216	30	-	-43	-	3		22	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	214	30	-	-43	-	3		22	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	216	30	-	-43	-	3		22	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	214	30	-	-43	-	3		22	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	212	30	-	-43	-	3		22	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	405	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	406	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	364	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	363	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	362	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	360	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	369	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	365	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	391	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	391	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	391	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	334	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	368	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	124	30	-	-25	-	3		40	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	127	30	-	-25	-	3		40	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	111	30	-	-31	-	3		31	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	109	30	-	-31	-	3		31	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	102	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	123	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	144	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	287	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	287	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	287	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	287	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	287	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	287	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	288	30	-	-40	-	3		34	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	319	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	327	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	204	30	-	-29	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	274	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	275	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	276	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	73	30	-	-28	-	3		41	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	76	30	-	-28	-	3		42	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	69	30	-	-17	-	3		39	39	-
GC002			Y	Y	52.3	10.0	831092	840538	26	71	30	-	-17	-	3		38	38	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	55	30	-	-25	-	3		44	44	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	42	30	-	-26	-	3		47	47	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	39	30	-	-21	-5	3	6	64	-	Screened
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	45	30	-	-19	-	3		48	48	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	116	30	-	-32	-	3		38	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	119	30	-	-32	-	3		37	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	123	30	-	-32	-	3		37	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	157	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	165	30	-	-	-	-		-	-	No line of sight.
																Tonality	0	0	
																Total SPL	65	52	
																Criteria ANL	65	55	
																Exceedance	-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204c**
NSR x coord:	**831022.2**
NSR y coord:	**840539.5**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	340	30	-	-37	-	3		49	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	328	30	-	-36	-	3		49	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	318	30	-	-36	-	3		49	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	340	30	-	-41	-	3		24	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	339	30	-	-41	-	3		24	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	314	30	-	-40	-	3		24	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	312	30	-	-40	-	3		24	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	311	30	-	-40	-	3		24	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	300	30	-	-36	-	3		31	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	282	30	-	-32	-	3		40	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	216	30	-	-39	-	3		26	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	216	30	-	-39	-	3		26	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	220	30	-	-43	-	3		21	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	218	30	-	-43	-	3		21	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	216	30	-	-43	-	3		22	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	220	30	-	-43	-	3		21	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	217	30	-	-43	-	3		21	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	219	30	-	-43	-	3		21	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	217	30	-	-43	-	3		21	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	215	30	-	-43	-	3		22	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	406	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	407	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	367	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	366	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	364	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	363	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	370	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	366	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	337	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	371	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	130	30	-	-25	-	3		39	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	133	30	-	-26	-	3		39	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	119	30	-	-32	-	3		30	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	118	30	-	-32	-	3		30	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	112	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	131	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	151	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	282	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	315	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	322	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	206	30	-	-29	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	269	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	270	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	272	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	84	30	-	-29	-	3		39	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	88	30	-	-29	-	3		41	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	77	30	-	-18	-	3		38	38	-
GC002			Y	Y	52.3	10.0	831092	840538	26	78	30	-	-18	-	3		37	37	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	72	30	-	-28	-	3		42	42	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	63	30	-	-30	-	3		44	44	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	60	30	-	-25	-5	3	6	60	-	Screened
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	65	30	-	-22	-	3		45	45	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	122	30	-	-32	-	3		37	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	125	30	-	-32	-	3		37	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	129	30	-	-33	-	3		37	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	163	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	170	30	-	-	-	-		-	-	No line of sight.
																Tonality	0	0	
																Total SPL	62	49	
																Criteria ANL	65	55	
																Exceedance	-	-	

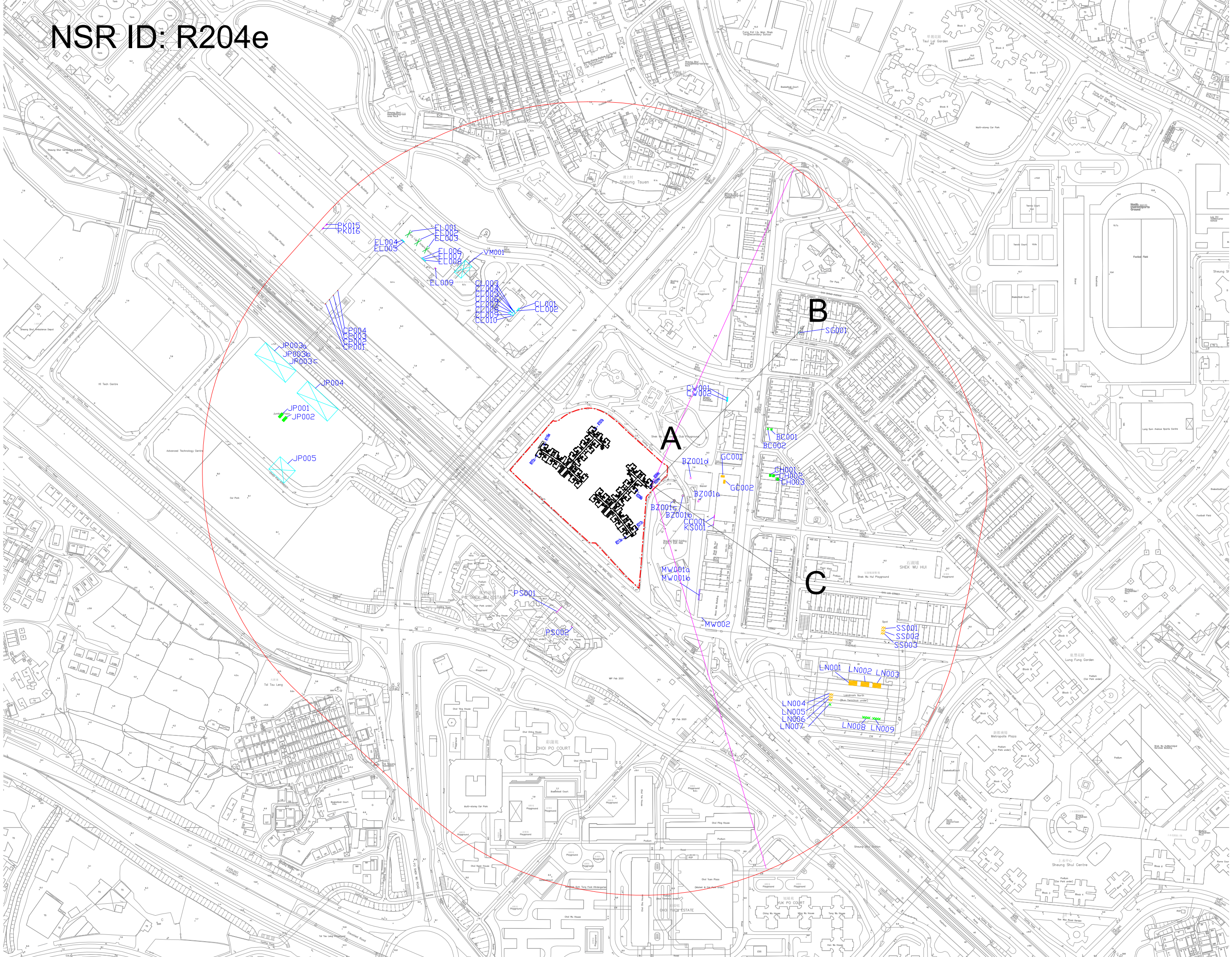
Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204c**
NSR x coord:	**831022.2**
NSR y coord:	**840539.5**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	344	30	-	-37	-	3		49	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	332	30	-	-36	-	3		49	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	321	30	-	-36	-	3		49	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	344	30	-	-41	-	3		23	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	342	30	-	-41	-	3		23	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	318	30	-	-41	-	3		24	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	316	30	-	-40	-	3		24	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	314	30	-	-40	-	3		24	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	305	30	-	-36	-	3		31	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	289	30	-	-32	-	3		39	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	223	30	-	-39	-	3		26	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	223	30	-	-39	-	3		26	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	227	30	-	-44	-	3		21	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	225	30	-	-44	-	3		21	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	223	30	-	-43	-	3		21	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	226	30	-	-44	-	3		21	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	224	30	-	-43	-	3		21	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	226	30	-	-44	-	3		21	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	224	30	-	-43	-	3		21	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	222	30	-	-43	-	3		21	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	409	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	410	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	372	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	370	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	369	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	368	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	374	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	370	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	398	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	398	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	398	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	343	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	376	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	142	30	-	-26	-	3		39	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	144	30	-	-26	-	3		38	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	133	30	-	-33	-	3		29	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	132	30	-	-33	-	3		29	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	127	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	144	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	162	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	280	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	312	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	320	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	212	30	-	-30	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	268	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	269	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	270	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	103	30	-	-31	-	3		38	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	106	30	-	-31	-	3		39	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	93	30	-	-19	-	3		36	36	-
GC002			Y	Y	52.3	10.0	831092	840538	26	94	30	-	-19	-	3		36	36	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	95	30	-	-30	-	3		40	40	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	88	30	-	-33	-	3		41	41	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	86	30	-	-28	-	3	6	62	-	-
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	89	30	-	-25	-	3		42	42	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	134	30	-	-33	-	3		36	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	137	30	-	-33	-	3		36	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	140	30	-	-33	-	3		36	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	173	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	180	30	-	-	-	-		-	-	No line of sight.
																Tonality	0	0	
																Total SPL	63	46	
																Criteria ANL	65	55	
																Exceedance	-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204c**
NSR x coord:	**831022.2**
NSR y coord:	**840539.5**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	357	30	-	-37	-	3		48	-	-
EL002			Y	N	82.4	5.0	830793	840772	32	346	30	-	-37	-	3		49	-	-
EL003			Y	N	82.4	5.0	830801	840765	32	335	30	-	-37	-	3		49	-	-
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	357	30	-	-42	-	3		23	-	-
EL005			Y	N	61.6	3.0	830779	840773	32	355	30	-	-41	-	3		23	-	-
EL006			Y	N	61.6	3.0	830797	840757	32	332	30	-	-41	-	3		24	-	-
EL007			Y	N	61.6	3.0	830798	840756	32	331	30	-	-41	-	3		24	-	-
EL008			Y	N	61.6	3.0	830800	840754	32	329	30	-	-41	-	3		24	-	-
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	323	30	-	-36	-	3		30	-	-
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	308	30	-	-33	-	3		39	-	-
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	246	30	-	-40	-	3		25	-	-
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	245	30	-	-40	-	3		25	-	-
CL003			Y	N	61.7	1.5	830885	840707	21	249	30	-	-44	-	3		20	-	-
CL004			Y	N	61.7	1.5	830887	840705	21	247	30	-	-44	-	3		20	-	-
CL005			Y	N	61.7	1.5	830887	840703	21	245	30	-	-44	-	3		20	-	-
CL006			Y	N	61.7	1.5	830883	840705	21	249	30	-	-44	-	3		20	-	-
CL007			Y	N	61.7	1.5	830885	840703	21	247	30	-	-44	-	3		20	-	-
CL008			Y	N	61.7	1.5	830882	840703	21	248	30	-	-44	-	3		20	-	-
CL009			Y	N	61.7	1.5	830884	840702	21	246	30	-	-44	-	3		20	-	-
CL010			Y	N	61.7	1.5	830886	840701	21	245	30	-	-44	-	3		20	-	-
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	421	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	421	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	387	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	386	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	385	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	383	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	387	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	383	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	413	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	413	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	413	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	360	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	392	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	175	30	-	-28	-	3		37	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	177	30	-	-28	-	3		37	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	171	30	-	-35	-	3		27	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	170	30	-	-35	-	3		27	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	167	30	-	-	-	-		-	-	No line of sight.
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	180	30	-	-	-	-		-	-	No line of sight.
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	194	30	-	-	-	-		-	-	No line of sight.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	283	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	315	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	323	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	233	30	-	-30	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	273	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	275	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	276	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	148	30	-	-34	-	3		34	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	151	30	-	-34	-	3		36	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	137	30	-	-23	-	3		33	33	-
GC002			Y	Y	52.3	10.0	831092	840538	26	137	30	-	-23	-	3		33	33	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	145	30	-	-34	-	3		36	36	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	140	30	-	-37	-	3		37	37	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	139	30	-	-32	-	3	6	58	-	-
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	141	30	-	-29	-	3		38	38	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	169	30	-	-35	-	3		34	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	171	30	-	-35	-	3		34	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	174	30	-	-35	-	3		34	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	203	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	209	30	-	-	-	-		-	-	No line of sight.
																Tonality	0	0	
																Total SPL	60	43	
																Criteria ANL	65	55	
																Exceedance	-	-	

NSR ID: R204e


A
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PK015
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BC001
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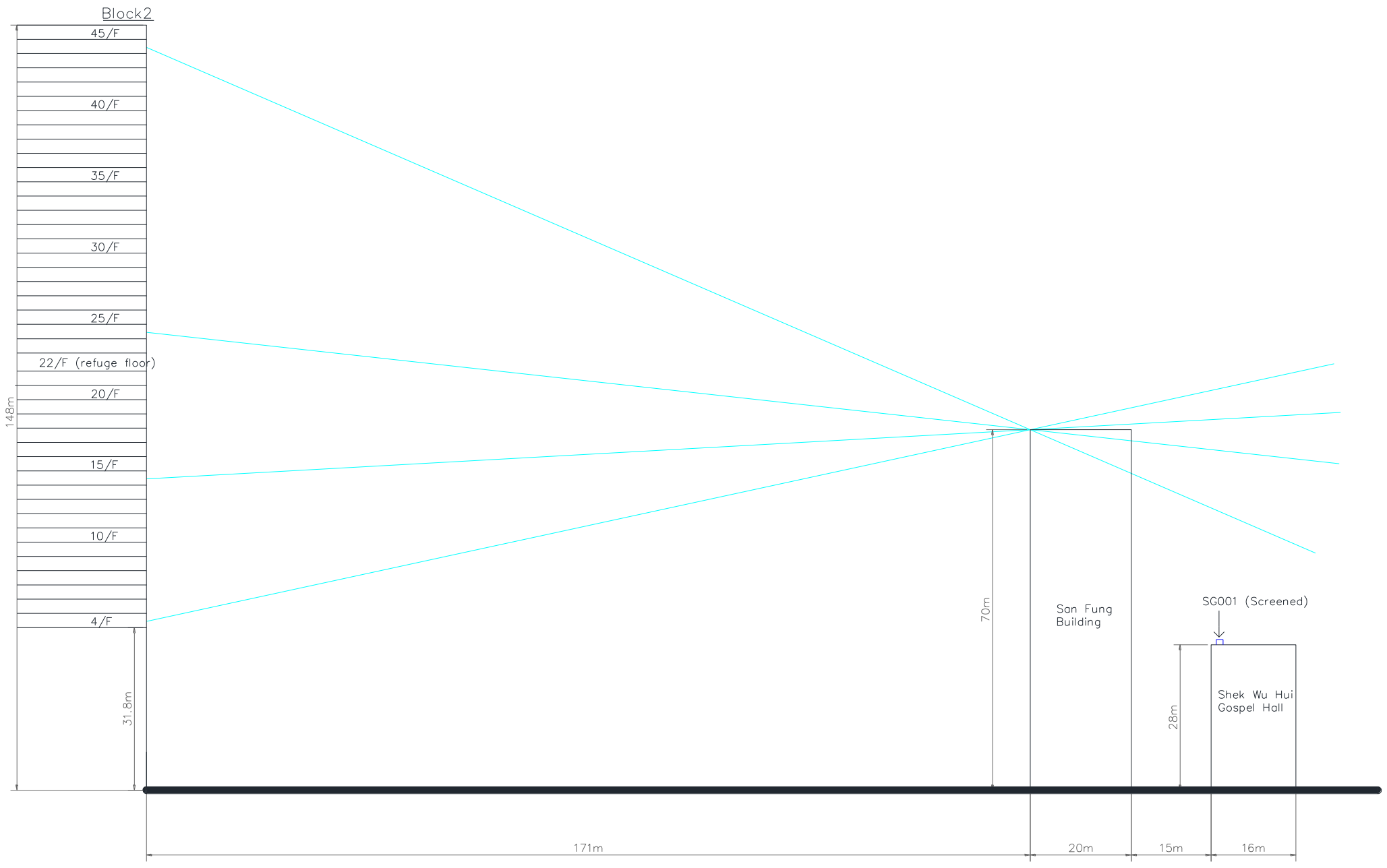
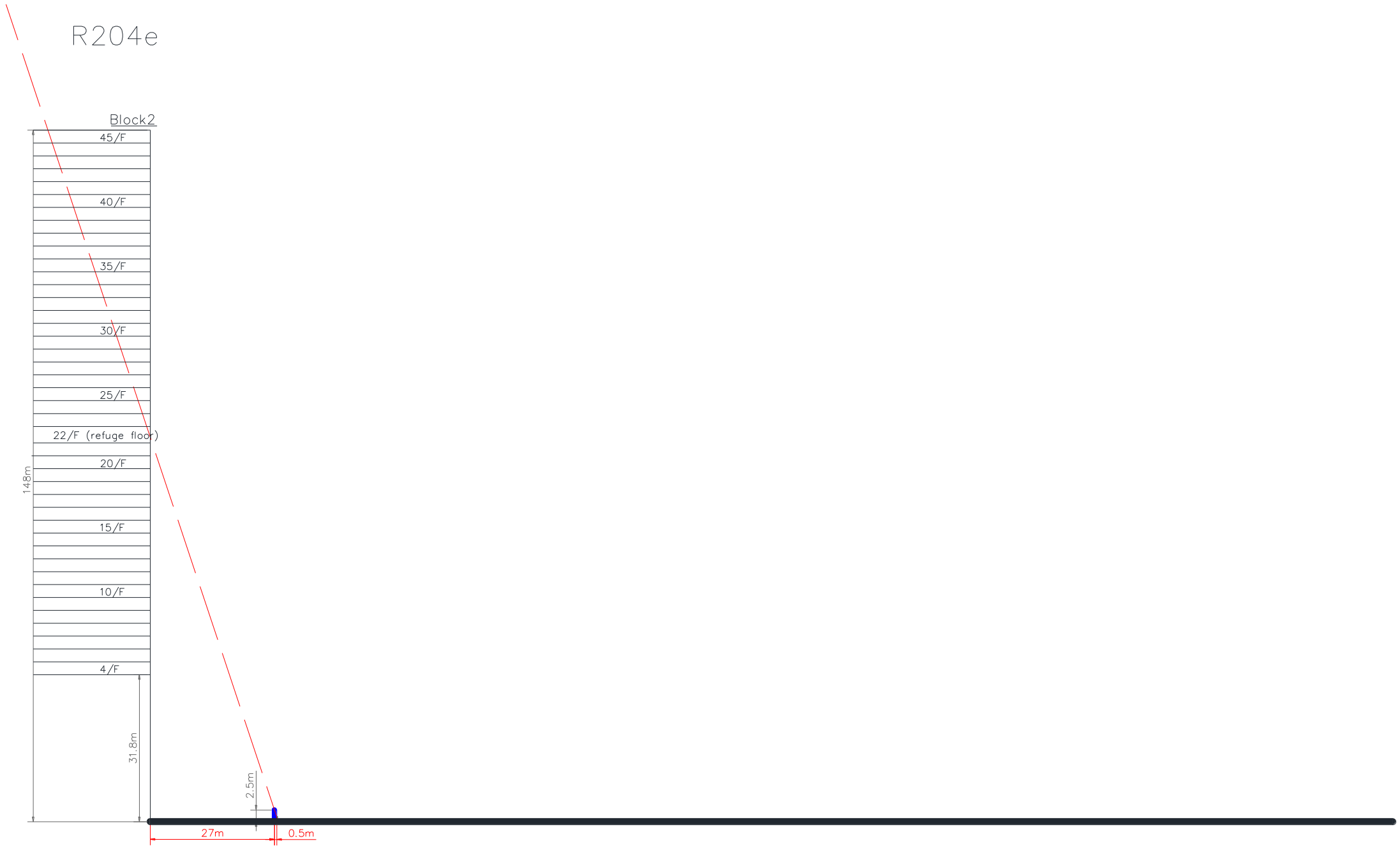
NSR ID: R204e (Section A-B)

R204e



NSR ID: R204e (Section A-C)



Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204e**
NSR x coord:	**831021.5**
NSR y coord:	**840534.9**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	342	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	330	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	319	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	342	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	340	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	316	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	314	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	312	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	300	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	281	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	216	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	216	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	220	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	218	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	215	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	219	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	217	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	219	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	217	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	215	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	408	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	408	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	366	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	365	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	363	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	362	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	369	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	365	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	392	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	392	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	392	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	334	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	368	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	127	30	-	-25	-	3		40	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	130	30	-	-25	-	3		39	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	115	30	-	-32	-	3		30	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	113	30	-	-32	-	3		30	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	98	30	-	-28	-	3		45	45	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	119	30	-	-32	-	3		42	42	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	140	30	-	-43	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	284	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	284	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	284	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	284	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	284	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	284	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	285	30	-	-40	-	3		34	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	316	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	324	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	208	30	-	-29	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	272	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	273	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	274	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	71	30	-	-27	-	3		41	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	74	30	-	-28	-	3		43	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	70	30	-	-17	-	3		38	38	-
GC002			Y	Y	52.3	10.0	831092	840538	26	71	30	-	-17	-	3		38	38	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	54	30	-	-25	-	3		44	44	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	41	30	-	-26	-	3		47	47	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	37	30	-	-20	-5	3	6	65	-	Screened
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	46	30	-	-19	-	3		48	48	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	117	30	-	-32	-	3		37	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	120	30	-	-32	-	3		37	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	124	30	-	-32	-	3		37	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	153	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	160	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		65	53	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204e**
NSR x coord:	**831021.5**
NSR y coord:	**840534.9**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	343	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	331	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	320	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	343	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	341	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	317	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	315	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	313	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	303	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	285	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	220	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	219	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	223	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	221	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	219	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	223	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	220	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	222	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	220	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	218	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	409	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	409	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	368	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	367	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	366	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	365	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	371	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	366	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	338	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	371	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	133	30	-	-26	-	3		39	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	135	30	-	-26	-	3		39	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	123	30	-	-32	-	3		30	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	121	30	-	-32	-	3		30	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	108	30	-	-29	-	3		44	44	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	127	30	-	-33	-	3		42	42	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	147	30	-	-43	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	279	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	312	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	319	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	210	30	-	-30	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	267	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	269	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	270	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	83	30	-	-29	-	3		39	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	86	30	-	-29	-	3		41	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	78	30	-	-18	-	3		37	37	-
GC002			Y	Y	52.3	10.0	831092	840538	26	79	30	-	-18	-	3		37	37	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	71	30	-	-28	-	3		42	42	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	62	30	-	-30	-	3		44	44	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	59	30	-	-25	-5	3	6	61	-	Screened
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	65	30	-	-22	-	3		44	44	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	123	30	-	-32	-	3		37	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	126	30	-	-32	-	3		37	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	130	30	-	-33	-	3		37	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	159	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	166	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		61	51	
															Criteria ANL		65	55	
															Exceedance		-	-	

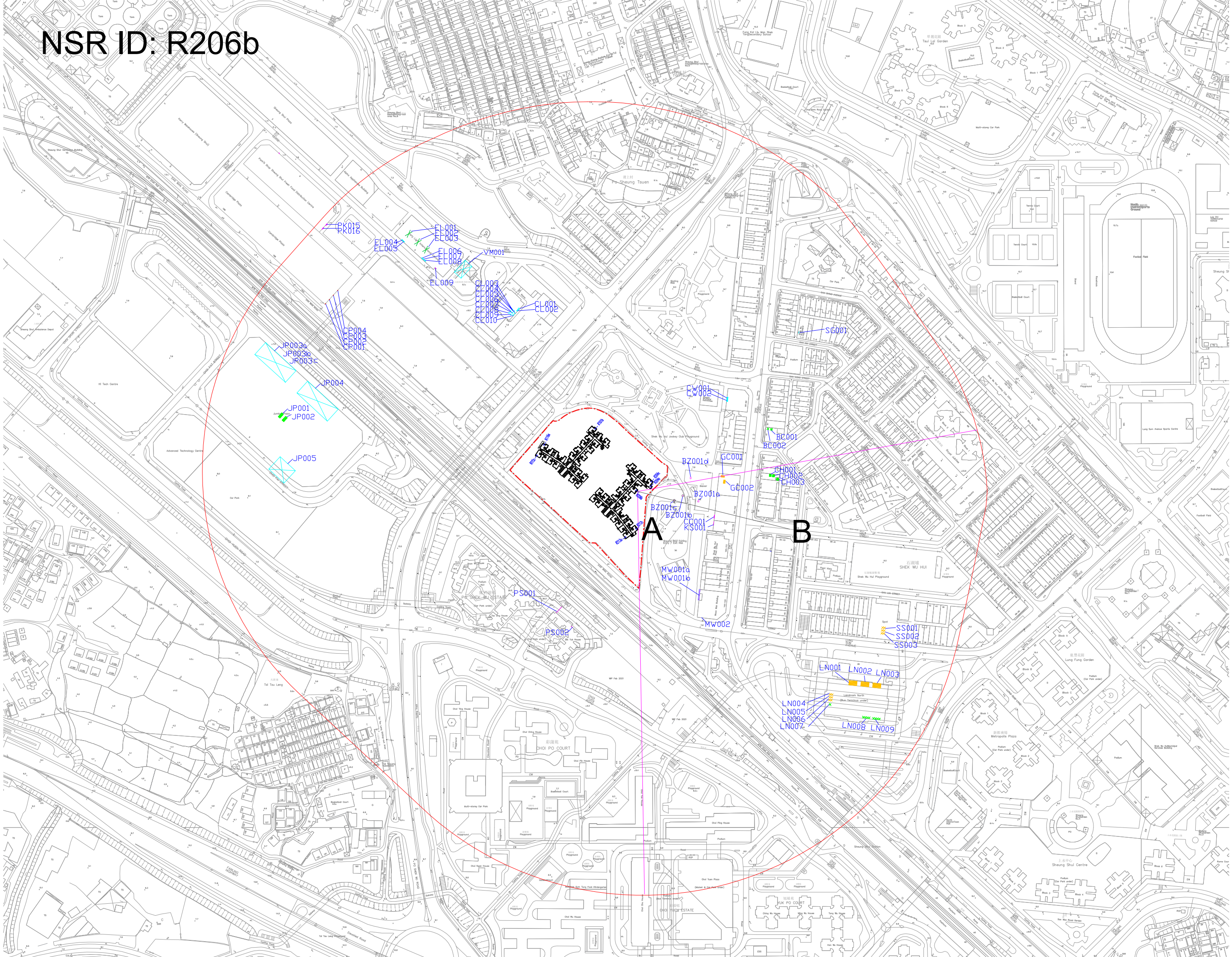
Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204e**
NSR x coord:	**831021.5**
NSR y coord:	**840534.9**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	347	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	335	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	324	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	347	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	345	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	321	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	319	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	317	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	308	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	292	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	226	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	226	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	230	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	228	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	226	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	229	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	227	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	229	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	227	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	225	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	412	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	412	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	373	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	372	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	371	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	370	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	374	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	370	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	399	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	399	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	399	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	343	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	376	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	144	30	-	-26	-	3		38	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	146	30	-	-26	-	3		38	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	137	30	-	-33	-	3		29	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	135	30	-	-33	-	3		29	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	124	30	-	-30	-	3		43	43	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	141	30	-	-33	-	3		41	41	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	158	30	-	-44	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	276	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	276	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	276	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	276	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	276	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	276	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	277	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	309	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	317	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	215	30	-	-30	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	266	30	-	-42	-	3		33	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	267	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	268	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	102	30	-	-31	-	3		38	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	105	30	-	-31	-	3		40	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	94	30	-	-19	-	3		36	36	-
GC002			Y	Y	52.3	10.0	831092	840538	26	95	30	-	-20	-	3		36	36	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	94	30	-	-30	-	3		40	40	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	87	30	-	-33	-	3		41	41	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	85	30	-	-28	-	3	6	62	-	-
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	90	30	-	-25	-	3		42	42	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	135	30	-	-33	-	3		36	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	138	30	-	-33	-	3		36	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	141	30	-	-33	-	3		36	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	170	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	176	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		63	49	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R204e**
NSR x coord:	**831021.5**
NSR y coord:	**840534.9**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	360	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	348	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	338	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	360	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	358	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	335	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	333	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	331	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	326	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	311	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	249	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	248	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	252	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	250	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	248	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	251	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	249	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	251	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	249	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	247	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	423	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	423	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	389	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	387	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	386	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	385	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	387	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	383	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	414	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	414	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	414	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	360	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	391	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	177	30	-	-28	-	3		37	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	179	30	-	-28	-	3		37	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	174	30	-	-35	-	3		27	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	172	30	-	-35	-	3		27	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	165	30	-	-32	-	3		40	40	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	178	30	-	-35	-	3		39	39	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	191	30	-	-46	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	279	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	280	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	312	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	320	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	236	30	-	-31	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	272	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	273	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	274	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	147	30	-	-34	-	3		34	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	150	30	-	-34	-	3		36	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	137	30	-	-23	-	3		33	33	-
GC002			Y	Y	52.3	10.0	831092	840538	26	138	30	-	-23	-	3		33	33	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	144	30	-	-34	-	3		36	36	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	140	30	-	-37	-	3		37	37	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	139	30	-	-32	-	3	6	58	-	-
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	141	30	-	-29	-	3		38	38	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	170	30	-	-35	-	3		34	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	172	30	-	-35	-	3		34	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	175	30	-	-35	-	3		34	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	200	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	206	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		59	46	
															Criteria ANL		65	55	
															Exceedance		-	-	

NSR ID: R206b


PK015
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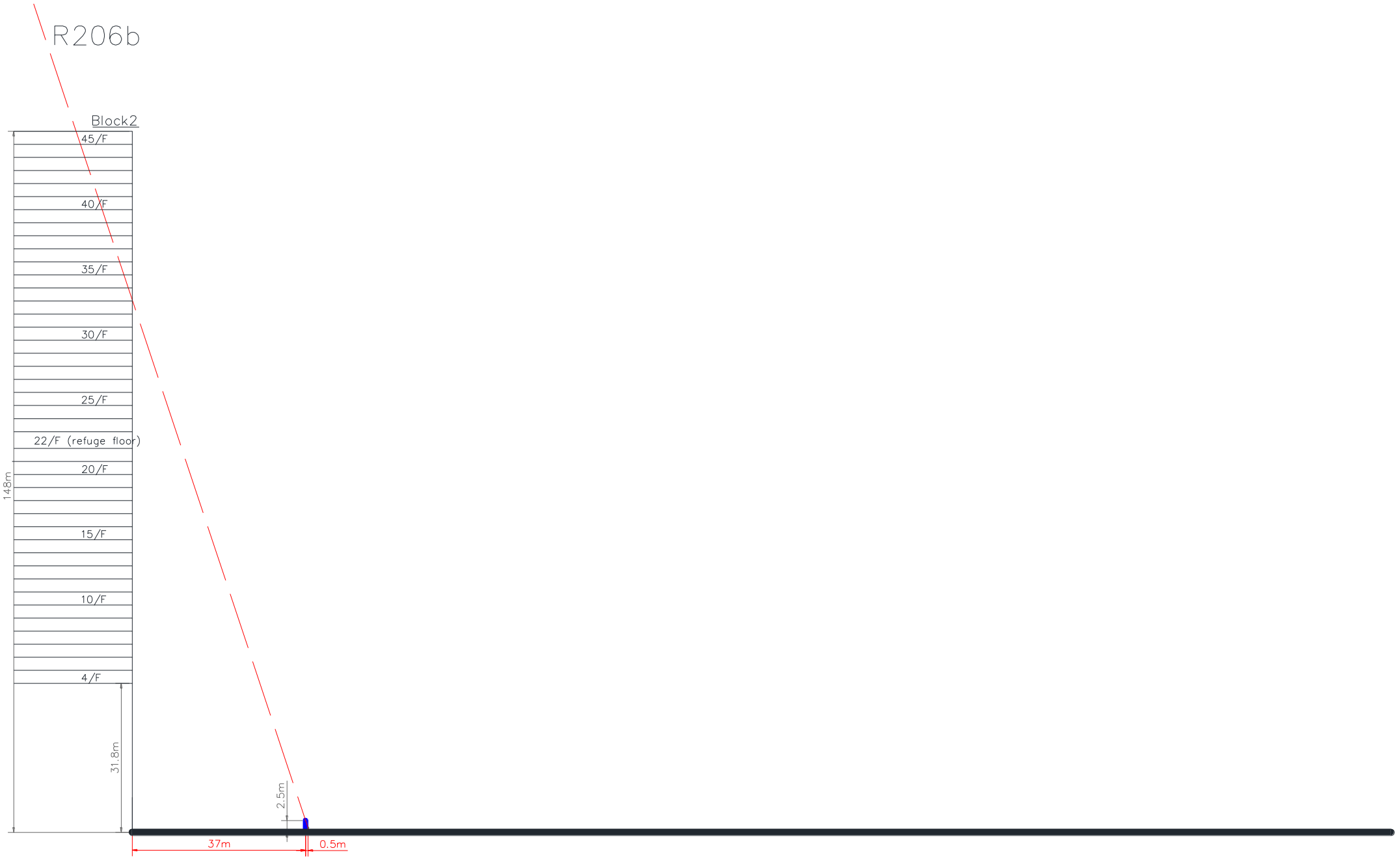
NSR ID: R206b (Section A-B)



Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R206b**
NSR x coord:	**831007.5**
NSR y coord:	**840528.8**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	337	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	325	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	314	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	336	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	335	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	310	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	309	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	307	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	295	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	277	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	213	30	-	-	-	-		-	-	No line of sight.
CL002			Y	N	62.2	2.5	830890	840706	21	213	30	-	-	-	-		-	-	No line of sight.
CL003		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	61.7	1.5	830885	840707	21	216	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	214	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	212	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	216	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	214	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	215	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	213	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	211	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	401	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	401	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	357	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	356	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	355	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	354	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	357	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	352	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	380	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	380	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	380	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	323	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	354	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	142	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	145	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	128	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	127	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	102	30	-	-28	-	3		44	44	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	120	30	-	-32	-	3		42	42	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	140	30	-	-43	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	290	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	290	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	290	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	290	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	290	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	290	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	289	30	-	-40	-	3		34	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	322	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	330	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	222	30	-	-30	-	3		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	281	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	282	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	283	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	81	30	-	-29	-	3		40	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	83	30	-	-29	-	3		42	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	85	30	-	-19	-	3		37	37	-
GC002			Y	Y	52.3	10.0	831092	840538	26	86	30	-	-19	-	3		37	37	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	65	30	-	-27	-	3		43	43	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	51	30	-	-28	-	3		45	45	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	45	30	-	-22	-5	3	6	63	-	Screened
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	59	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	131	30	-	-33	-	3		36	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	134	30	-	-33	-	3		36	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	138	30	-	-33	-	3		36	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	140	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	149	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		63	50	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R206b**
NSR x coord:	**831007.5**
NSR y coord:	**840528.8**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	338	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	326	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	315	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	338	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	336	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	312	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	310	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	308	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	298	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	281	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	217	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	216	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	220	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	217	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	215	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	219	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	217	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	219	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	216	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	215	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	402	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	402	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	359	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	358	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	357	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	356	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	358	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	354	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	383	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	383	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	383	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	326	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	357	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	147	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	150	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	136	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	134	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	111	30	-	-29	-	3		44	44	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	128	30	-	-33	-	3		41	41	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	147	30	-	-43	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	284	30	-	-40	-	3		34	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	317	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	325	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	224	30	-	-30	-	3		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	276	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	277	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	279	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	92	30	-	-30	-	3		38	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	94	30	-	-30	-	3		40	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	91	30	-	-19	-	3		36	36	-
GC002			Y	Y	52.3	10.0	831092	840538	26	92	30	-	-19	-	3		36	36	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	80	30	-	-29	-	3		41	41	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	69	30	-	-31	-	3		43	43	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	65	30	-	-25	-5	3	6	60	-	Screened
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	75	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	137	30	-	-33	-	3		36	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	140	30	-	-33	-	3		36	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	143	30	-	-34	-	3		36	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	147	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	155	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		60	49	
															Criteria ANL		65	55	
															Exceedance		-	-	

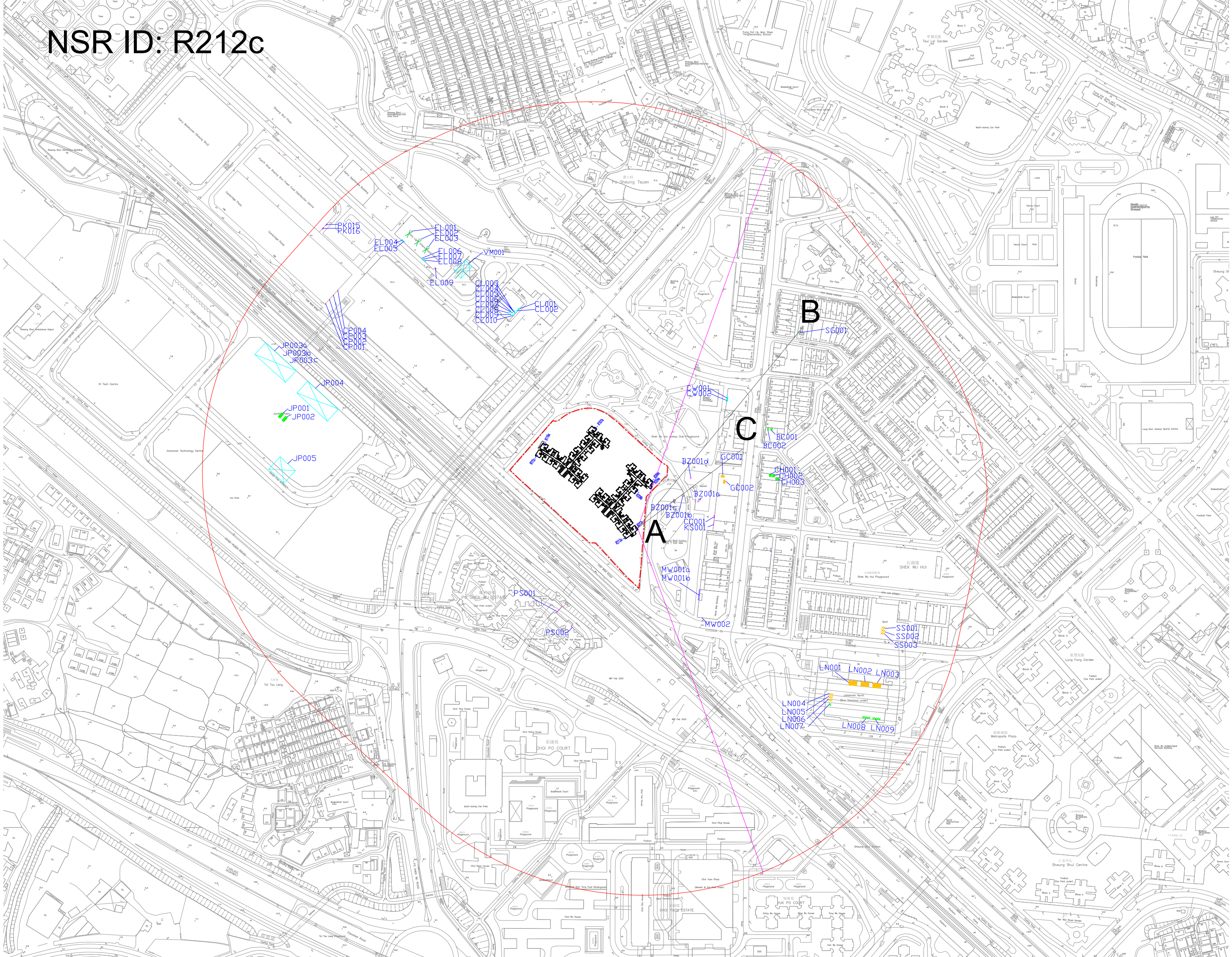
Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R206b**
NSR x coord:	**831007.5**
NSR y coord:	**840528.8**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	342	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	330	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	319	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	341	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	339	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	316	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	314	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	312	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	303	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	287	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	224	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	223	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	226	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	224	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	222	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	226	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	224	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	226	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	223	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	222	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	405	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	405	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	364	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	363	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	362	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	361	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	362	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	357	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	388	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	388	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	388	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	332	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	362	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	157	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	160	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	148	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	147	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	127	30	-	-30	-	3		42	42	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	142	30	-	-33	-	3		41	41	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	159	30	-	-44	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	282	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	281	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	315	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	323	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	229	30	-	-30	-	3		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	275	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	276	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	277	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	109	30	-	-31	-	3		37	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	112	30	-	-31	-	3		39	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	105	30	-	-20	-	3		35	35	-
GC002			Y	Y	52.3	10.0	831092	840538	26	106	30	-	-21	-	3		35	35	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	101	30	-	-31	-	3		39	39	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	93	30	-	-33	-	3		40	40	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	89	30	-	-28	-5	3	6	57	-	Screened
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	97	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	148	30	-	-34	-	3		35	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	151	30	-	-34	-	3		35	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	154	30	-	-34	-	3		35	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	158	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	166	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		58	47	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R206b**
NSR x coord:	**831007.5**
NSR y coord:	**840528.8**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	355	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	343	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	333	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	355	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	353	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	330	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	328	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	326	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	321	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	307	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	246	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	245	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	249	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	247	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	245	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	248	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	246	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	248	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	246	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	244	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	416	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	416	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	380	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	379	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	378	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	377	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	375	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	371	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	403	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	403	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	403	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	349	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	378	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	188	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	190	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	183	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	182	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	167	30	-	-32	-	3		40	40	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	178	30	-	-35	-	3		39	39	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	191	30	-	-46	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	285	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	284	30	-	-40	-	3		34	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	317	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	325	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	249	30	-	-31	-	3		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	280	30	-	-43	-	3		32	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	281	30	-	-43	-	3		32	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	282	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	152	30	-	-34	-	3		34	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	155	30	-	-34	-	3		36	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	145	30	-	-23	-	3		32	32	-
GC002			Y	Y	52.3	10.0	831092	840538	26	146	30	-	-23	-	3		32	32	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	149	30	-	-34	-	3		36	36	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	143	30	-	-37	-	3		36	36	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	141	30	-	-32	-	3	6	58	-	-
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	146	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	180	30	-	-36	-	3		34	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	182	30	-	-36	-	3		34	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	185	30	-	-36	-	3		33	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	191	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	197	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		58	45	
															Criteria ANL		65	55	
															Exceedance		-	-	

NSR ID: R212c


PK015
PK016
EL001
EL002
EL003
EL004
EL005
EL006
EL007
EL008
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VM001
CL003
CL004
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CP004
CP003
CP002
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JP003a
JP003b
JP003c
JP004
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SG001
CW001
CW002
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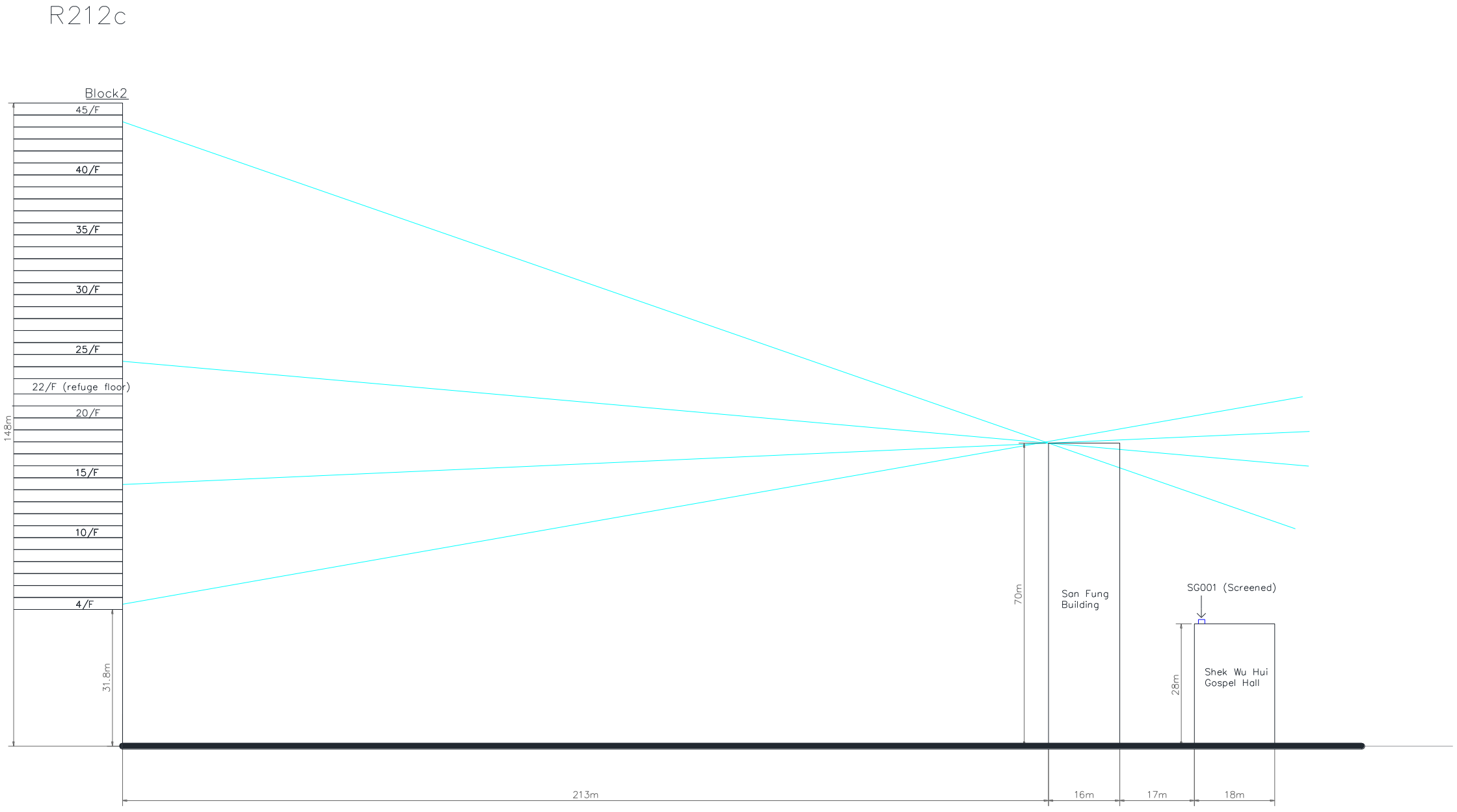
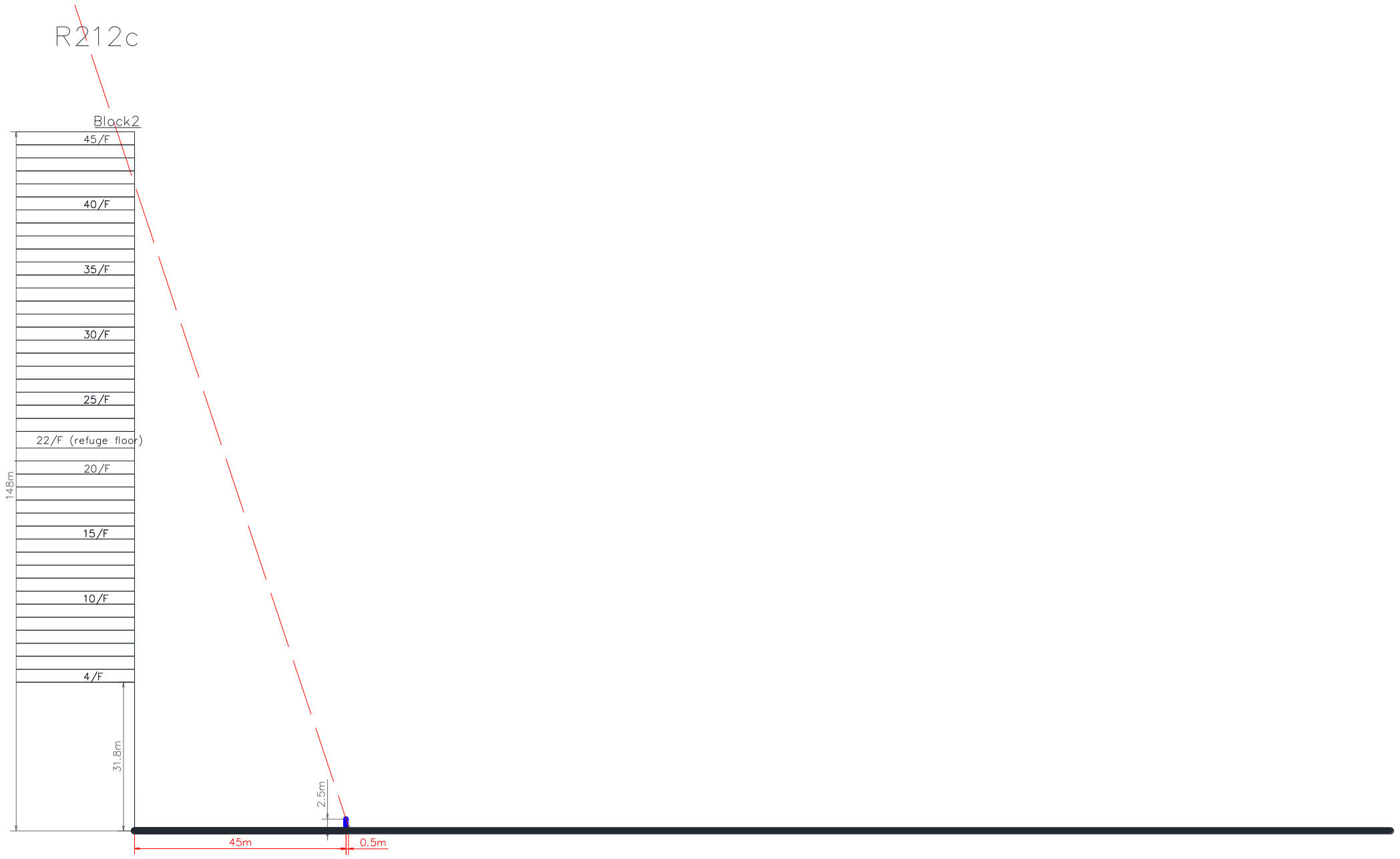
BC001
BC002
GC001
BZ001d
GC002
CH001
CH002
CH003
BZ001a
BZ001c
BZ001b
CC001
KS001
A
MW001a
MW001b
MW002
PS001
PS002
SS001
SS002
SS003
LN001
LN002
LN003
LN004
LN005
LN006
LN007
LN008
LN009
Po Sheung Tsuen
SHEK WU HUI
CHOI PO COURT
CHOI YUEN ESTATE
Sheung Shui Centre
Metropolis Plaza
Lung Fung Garden
Tai Tau Leng
Hi Tech Centre
Advanced Technology Centre

NSR ID: R212c (Section A-B)



NSR ID: R212c (Section A-C)



Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R212c**
NSR x coord:	**831007.6**
NSR y coord:	**840493.0**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	365	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	353	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	342	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	364	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	362	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	338	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	336	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	334	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	322	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	306	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	244	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	243	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	247	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	245	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	242	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	246	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	244	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	245	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	243	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	242	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	425	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	425	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	376	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	376	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	375	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	375	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	366	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	361	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	394	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	335	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	357	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	161	30	-	-27	-	3		37	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	163	30	-	-27	-	3		37	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	156	30	-	-34	-	3		28	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	154	30	-	-34	-	3		28	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	78	30	-	-26	-	3		47	47	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	92	30	-	-30	-	3		44	44	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	110	30	-	-41	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	264	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	298	30	-	-43	-	3		35	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	306	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	248	30	-	-31	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	265	30	-	-42	-	3		33	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	266	30	-	-42	-	3		33	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	267	30	-	-43	-	3		32	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	78	30	-	-28	-	3		40	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	77	30	-	-28	-	3		42	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	98	30	-	-20	-	3		36	36	-
GC002			Y	Y	52.3	10.0	831092	840538	26	96	30	-	-20	-	3		36	36	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	70	30	-	-27	-	3		42	42	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	60	30	-	-30	-	3		44	44	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	51.51	30	-	-23	-5	3	6	62	-	Screened
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	76	30	-	-24	-	3		43	43	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	140	30	-	-33	-	3		36	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	143	30	-	-34	-	3		36	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	145	30	-	-34	-	3		36	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	113	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	118	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		62	52	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R212c**
NSR x coord:	**831007.6**
NSR y coord:	**840493.0**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	366	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	354	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	343	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	365	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	363	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	339	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	337	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	335	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	325	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	310	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	247	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	246	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	250	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	247	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	245	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	249	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	247	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	248	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	246	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	244	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	426	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	426	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	379	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	378	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	378	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	377	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	367	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	363	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	397	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	397	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	397	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	338	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	360	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	165	30	-	-27	-	3		37	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	168	30	-	-28	-	3		37	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	162	30	-	-35	-	3		27	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	160	30	-	-35	-	3		27	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	90	30	-	-27	-	3		45	45	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	102	30	-	-31	-	3		43	43	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	118	30	-	-41	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	258	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	293	30	-	-43	-	3		35	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	302	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	250	30	-	-31	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	261	30	-	-42	-	3		33	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	262	30	-	-42	-	3		33	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	262	30	-	-42	-	3		33	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	89	30	-	-29	-	3		39	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	89	30	-	-29	-	3		41	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	103	30	-	-20	-	3		35	35	-
GC002			Y	Y	52.3	10.0	831092	840538	26	102	30	-	-20	-	3		35	35	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	84	30	-	-29	-	3		41	41	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	76	30	-	-32	-	3		42	42	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	69	30	-	-26	-5	3	6	59	-	Screened
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	89	30	-	-25	-	3		42	42	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	145	30	-	-34	-	3		36	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	148	30	-	-34	-	3		35	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	150	30	-	-34	-	3		35	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	121	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	125	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		60	50	
															Criteria ANL		65	55	
															Exceedance		-	-	

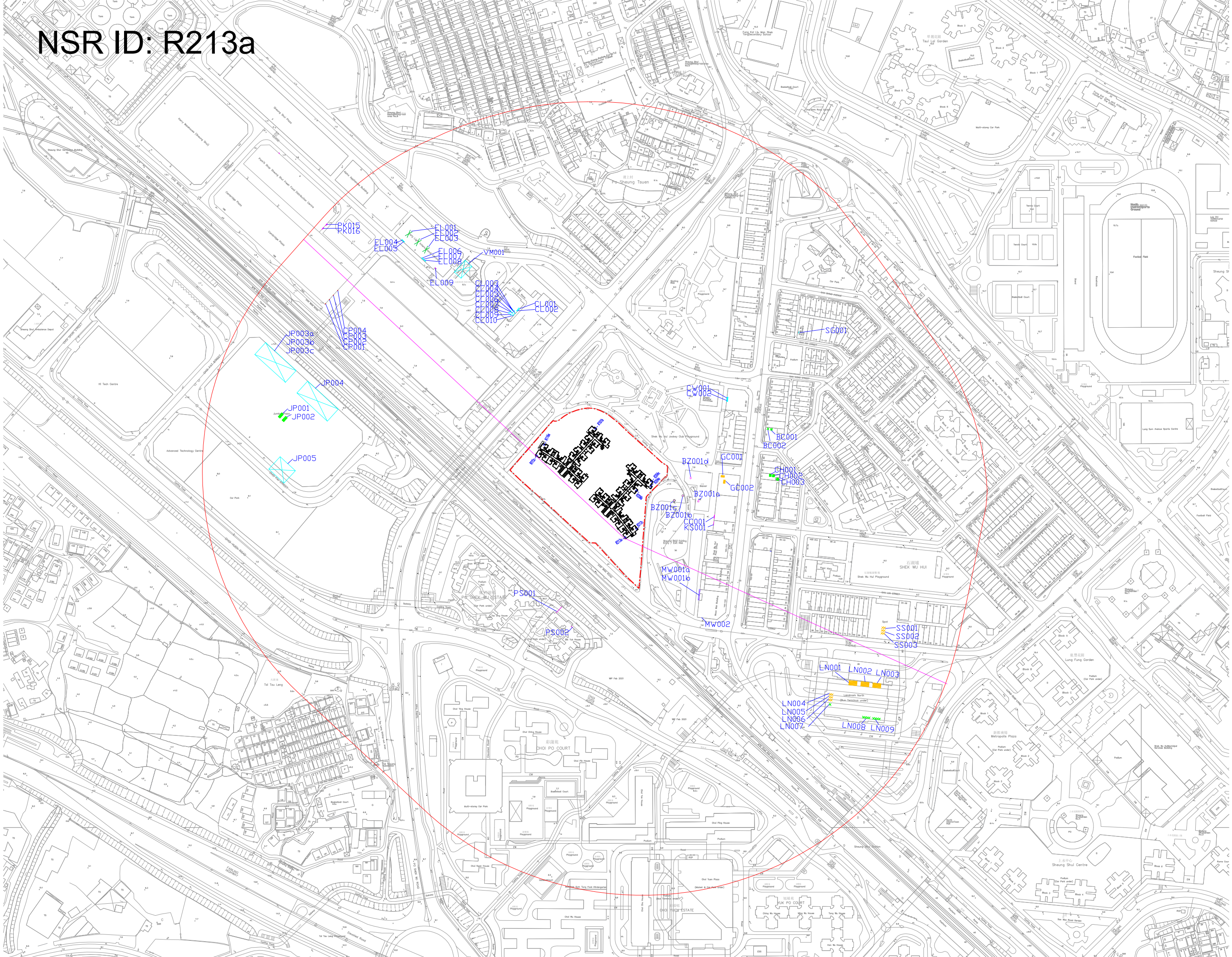
Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R212c**
NSR x coord:	**831007.6**
NSR y coord:	**840493.0**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	369	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	357	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	347	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	368	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	366	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	342	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	341	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	339	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	330	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	315	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	253	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	252	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	256	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	253	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	251	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	255	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	253	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	254	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	252	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	251	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	429	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	429	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	384	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	383	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	383	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	382	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	371	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	366	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	401	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	401	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	401	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	344	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	366	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	174	30	-	-28	-	3		37	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	177	30	-	-28	-	3		37	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	173	30	-	-35	-	3		27	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	171	30	-	-35	-	3		27	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	109	30	-	-29	-	3		44	44	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	119	30	-	-32	-	3		42	42	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	133	30	-	-42	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	260	30	-	-42	-	3		33	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	260	30	-	-42	-	3		33	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	260	30	-	-42	-	3		33	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	260	30	-	-42	-	3		33	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	260	30	-	-42	-	3		33	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	260	30	-	-42	-	3		33	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	256	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	291	30	-	-43	-	3		35	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	299	30	-	-43	-	3		35	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	255	30	-	-31	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	259	30	-	-42	-	3		33	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	260	30	-	-42	-	3		33	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	261	30	-	-42	-	3		33	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	107	30	-	-31	-	3		37	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	107	30	-	-31	-	3		39	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	116	30	-	-21	-	3		34	34	-
GC002			Y	Y	52.3	10.0	831092	840538	26	115	30	-	-21	-	3		34	34	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	104	30	-	-31	-	3		39	39	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	98	30	-	-34	-	3		40	40	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	93	30	-	-28	-5	3	6	57	-	Screened
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	108	30	-	-27	-	3		40	40	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	156	30	-	-34	-	3		35	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	158	30	-	-34	-	3		35	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	160	30	-	-35	-	3		35	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	134	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	139	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		58	49	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R212c**
NSR x coord:	**831007.6**
NSR y coord:	**840493.0**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	381	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	370	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	360	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	380	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	379	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	356	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	354	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	352	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	346	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	334	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	273	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	272	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	275	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	273	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	271	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	275	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	273	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	274	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	272	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	271	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	440	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	440	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	399	30	-	-	-	-		-	-	No line of sight.
CP002			Y	Y	70.9	1.0	830706	840716	11	398	30	-	-	-	-		-	-	No line of sight.
CP003			Y	Y	73.7	1.0	830710	840721	11	398	30	-	-	-	-		-	-	No line of sight.
CP004			Y	Y	75.4	1.0	830714	840725	11	397	30	-	-	-	-		-	-	No line of sight.
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	384	30	-	-	-	-		-	-	No line of sight.
JP002			Y	N	80.5	7.0	830662	840600	28	379	30	-	-	-	-		-	-	No line of sight.
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	416	2	-	-	-	-		-	-	No line of sight.
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	416	2	-	-	-	-		-	-	No line of sight.
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	416	2	-	-	-	-		-	-	No line of sight.
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	361	30	-	-	-	-		-	-	No line of sight.
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	382	30	-	-	-	-		-	-	No line of sight.
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	203	30	-	-29	-	3		35	-	-
BC002			Y	N	61.7	7.0	831138	840589	20	204	30	-	-29	-	3		35	-	-
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	203	30	-	-37	-	3		25	-	-
CW002			Y	N	59.0	3.0	831095	840618	12	202	30	-	-37	-	3		25	-	-
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	153	30	-	-32	-	3		41	41	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	161	30	-	-35	-	3		40	40	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	171	30	-	-45	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	263	30	-	-42	-	3		33	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	259	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	293	30	-	-43	-	3		35	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	302	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	272	30	-	-32	-	3		-	-	SG001 has been completely screened by San Fung Building.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	265	30	-	-42	-	3		33	-	-
SS002			Y	N	72.0	2.0	831248	840393	89	266	30	-	-42	-	3		33	-	-
SS003			Y	N	72.0	2.0	831247	840390	89	267	30	-	-42	-	3		33	-	-
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	150	30	-	-34	-	3		34	-	-
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	152	30	-	-34	-	3		36	-	-
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	153	30	-	-24	-	3		32	32	-
GC002			Y	Y	52.3	10.0	831092	840538	26	152	30	-	-24	-	3		32	32	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	151	30	-	-34	-	3		35	35	-
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	147	30	-	-37	-	3		36	36	-
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	143	30	-	-32	-	3	6	58	-	-
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	153	30	-	-30	-	3		37	37	-
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	187	30	-	-36	-	3		33	-	-
CH002			Y	N	66.3	3.0	831140	840544	20	189	30	-	-36	-	3		33	-	-
CH003			Y	N	66.3	3.0	831144	840541	20	191	30	-	-36	-	3		33	-	-
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	171	30	-	-	-	-		-	-	No line of sight.
PS002			Y	Y	55.3	2.0	830943	840396	13	175	30	-	-	-	-		-	-	No line of sight.
															Tonality		0	0	
															Total SPL		58	46	
															Criteria ANL		65	55	
															Exceedance		-	-	

NSR ID: R213a


PK015
PK016
EL004
EL005
EL001
EL002
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VM001
CL003
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JP003a
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BZ001a
BZ001c
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CC001
KS001
MW001a
MW001b
MW002
PS001
PS002
SS001
SS002
SS003
LN001
LN002
LN003
LN004
LN005
LN006
LN007
LN008
LN009

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R213a**
NSR x coord:	**830994.4**
NSR y coord:	**840483.1**
NSR floor (/F)	**4**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**33.00**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	365	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	353	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	342	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	363	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	361	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	338	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	336	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	334	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	322	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	307	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	247	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	246	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	249	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	247	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	245	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	248	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	246	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	248	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	245	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	244	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	423	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	423	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	372	30	-	-51	-	3		27	27	-
CP002			Y	Y	70.9	1.0	830706	840716	11	371	30	-	-51	-	3		23	23	-
CP003			Y	Y	73.7	1.0	830710	840721	11	371	30	-	-51	-	3		25	25	-
CP004			Y	Y	75.4	1.0	830714	840725	11	371	30	-	-51	-	3		27	27	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	356	30	-	-34	-	3		49	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	352	30	-	-34	-	3		49	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	386	2	-12	-32	-	3		27	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	386	2	-12	-38	-	3		42	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	386	2	-12	-42	-	3		30	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	327	30	-	-41	-	3		31	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	346	30	-	-33	-	3		35	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	177	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	180	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	172	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	169	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	85	30	-	-27	-	3		46	46	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	95	30	-	-30	-	3		44	44	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	111	30	-	-41	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	274	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	274	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	274	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	274	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	274	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	274	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	268	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	302	30	-	-44	-	3		34	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	311	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	264	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	274	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	275	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	275	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	93	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	91	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	114	30	-	-21	-	3		34	34	-
GC002			Y	Y	52.3	10.0	831092	840538	26	113	30	-	-21	-	3		34	34	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	85	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	75	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	66.38	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	91	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	156	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	159	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	161	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	97	30	-	-34	-	3		41	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	103	30	-	-34	-	3		24	24	-
															Tonality		0	0	
															Total SPL		55	49	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R213a**
NSR x coord:	**830994.4**
NSR y coord:	**840483.1**
NSR floor (/F)	**14**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**60.50**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	366	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	354	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	343	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	364	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	363	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	339	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	337	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	335	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	325	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	311	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	250	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	249	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	252	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	250	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	248	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	251	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	249	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	250	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	248	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	247	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	424	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	423	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	374	30	-	-51	-	3		27	27	-
CP002			Y	Y	70.9	1.0	830706	840716	11	374	30	-	-51	-	3		22	22	-
CP003			Y	Y	73.7	1.0	830710	840721	11	374	30	-	-51	-	3		25	25	-
CP004			Y	Y	75.4	1.0	830714	840725	11	374	30	-	-51	-	3		27	27	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	358	30	-	-34	-	3		49	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	353	30	-	-34	-	3		49	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	389	2	-12	-32	-	3		27	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	389	2	-12	-38	-	3		42	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	389	2	-12	-42	-	3		29	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	330	30	-	-41	-	3		31	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	349	30	-	-33	-	3		35	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	181	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	184	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	177	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	175	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	96	30	-	-28	-	3		45	45	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	105	30	-	-31	-	3		43	43	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	119	30	-	-42	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	262	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	297	30	-	-43	-	3		35	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	306	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	266	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	270	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	270	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	271	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	102	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	101	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	119	30	-	-22	-	3		34	34	-
GC002			Y	Y	52.3	10.0	831092	840538	26	118	30	-	-21	-	3		34	34	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	97	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	88	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	81.02	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	102	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	161	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	163	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	166	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	106	30	-	-34	-	3		40	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	111	30	-	-35	-	3		23	23	-
															Tonality		0	0	
															Total SPL		55	48	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R213a**
NSR x coord:	**830994.4**
NSR y coord:	**840483.1**
NSR floor (/F)	**24**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**88.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	369	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	357	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	347	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	368	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	366	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	342	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	340	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	339	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	330	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	317	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	256	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	255	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	258	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	256	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	254	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	257	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	255	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	256	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	254	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	253	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	427	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	426	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	379	30	-	-52	-	3		27	27	-
CP002			Y	Y	70.9	1.0	830706	840716	11	379	30	-	-52	-	3		22	22	-
CP003			Y	Y	73.7	1.0	830710	840721	11	379	30	-	-52	-	3		25	25	-
CP004			Y	Y	75.4	1.0	830714	840725	11	378	30	-	-52	-	3		27	27	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	362	30	-	-34	-	3		49	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	357	30	-	-34	-	3		49	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	394	2	-12	-32	-	3		27	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	394	2	-12	-38	-	3		42	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	394	2	-12	-42	-	3		29	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	336	30	-	-41	-	3		31	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	354	30	-	-33	-	3		35	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	190	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	192	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	187	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	185	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	114	30	-	-29	-	3		43	43	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	121	30	-	-32	-	3		42	42	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	133	30	-	-42	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	265	30	-	-42	-	3		33	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	265	30	-	-42	-	3		33	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	265	30	-	-42	-	3		33	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	265	30	-	-42	-	3		33	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	265	30	-	-42	-	3		33	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	265	30	-	-42	-	3		33	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	259	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	295	30	-	-43	-	3		35	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	304	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	270	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	268	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	269	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	269	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	118	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	117	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	130	30	-	-22	-	3		33	33	-
GC002			Y	Y	52.3	10.0	831092	840538	26	129	30	-	-22	-	3		33	33	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	115	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	108	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	101.77	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	119	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	170	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	173	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	175	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	121	30	-	-36	-	3		39	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	126	30	-	-36	-	3		22	22	-
															Tonality		0	0	
															Total SPL		54	46	
															Criteria ANL		65	55	
															Exceedance		-	-	

Project :	**Po Shek Wu Road**
Project number:	**276006-12**
Title:	**Fixed Noise Assessment**
Subtitle:	**Calculation of SPL at Assessment Points at Proposed Residential Blocks**
NSR ID:	**R213a**
NSR x coord:	**830994.4**
NSR y coord:	**840483.1**
NSR floor (/F)	**44**
1st res. floor level (mPD)	**31.8**
NSR height (mPD)	**143.75**
ASR	**B**

Noise Source ID	Description	Activities/Equipment	Operation		Max. Measured SPL, dB(A)	Measurement Dist. from Source, m	Source Location			Shortest separation distance from centre of source, m	Worst Operating Time (mins)	Correction, dB(A)					Predicted Daytime SPL, dB(A)	Predicted Nighttime SPL, dB(A)	Remark
			Daytime	Nighttime			X (m)	Y (m)	Z (mpd)			Time	Distance	Screening	Facade	Tonality			
EL001	Early Light International Centre	Chiller on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	82.4	5.0	830784	840781	32	381	30	-	-	-	-		-	-	No line of sight.
EL002			Y	N	82.4	5.0	830793	840772	32	370	30	-	-	-	-		-	-	No line of sight.
EL003			Y	N	82.4	5.0	830801	840765	32	360	30	-	-	-	-		-	-	No line of sight.
EL004		Condenser on rooftop (2 fans, LxWxH = ~2mx1mx1.5m)	Y	N	61.6	3.0	830778	840775	32	380	30	-	-	-	-		-	-	No line of sight.
EL005			Y	N	61.6	3.0	830779	840773	32	378	30	-	-	-	-		-	-	No line of sight.
EL006			Y	N	61.6	3.0	830797	840757	32	356	30	-	-	-	-		-	-	No line of sight.
EL007			Y	N	61.6	3.0	830798	840756	32	354	30	-	-	-	-		-	-	No line of sight.
EL008			Y	N	61.6	3.0	830800	840754	32	352	30	-	-	-	-		-	-	No line of sight.
EL009		Louvers (2 units) to Ka Fu Close (LxW = ~4mx0.5m)	Y	N	63.3	5.0	830810	840747	16	346	30	-	-	-	-		-	-	No line of sight.
VM001	Sheung Shui Vegetable Marketing & Credit Co-operative Society	Loading & unloading	Y	N	68.8	7.0	830837	840746	9	335	30	-	-	-	-		-	-	No line of sight.
CL001	CLP Region Office	Condensers on rooftop (2 fans, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830891	840707	21	276	30	-	-	-	-		-	-	No line of sight.
CL002		Condensers on rooftop (1 fan, LxWxH = ~2mx1mx2m)	Y	N	62.2	2.5	830890	840706	21	275	30	-	-	-	-		-	-	No line of sight.
CL003			Y	N	61.7	1.5	830885	840707	21	278	30	-	-	-	-		-	-	No line of sight.
CL004			Y	N	61.7	1.5	830887	840705	21	276	30	-	-	-	-		-	-	No line of sight.
CL005			Y	N	61.7	1.5	830887	840703	21	274	30	-	-	-	-		-	-	No line of sight.
CL006			Y	N	61.7	1.5	830883	840705	21	277	30	-	-	-	-		-	-	No line of sight.
CL007			Y	N	61.7	1.5	830885	840703	21	275	30	-	-	-	-		-	-	No line of sight.
CL008			Y	N	61.7	1.5	830882	840703	21	276	30	-	-	-	-		-	-	No line of sight.
CL009			Y	N	61.7	1.5	830884	840702	21	274	30	-	-	-	-		-	-	No line of sight.
CL010			Y	N	61.7	1.5	830886	840701	21	273	30	-	-	-	-		-	-	No line of sight.
PK015	Park'n Sheung Shui Fresh Food Distribution Centre	Louvers to Po Shek Wu Road (LxW = ~1mx1m)	Y	Y	74.1	1.0	830703	840790	32	437	30	-	-	-	-		-	-	No line of sight.
PK016			Y	Y	74.1	1.0	830700	840786	32	437	30	-	-	-	-		-	-	No line of sight.
CP001	Cambridge Plaza	Exhaust fans to Po Shek Wu Road (LxW = ~0.5mx0.5m)	Y	Y	75.4	1.0	830702	840712	11	394	30	-	-52	-	3		26	26	-
CP002			Y	Y	70.9	1.0	830706	840716	11	394	30	-	-52	-	3		22	22	-
CP003			Y	Y	73.7	1.0	830710	840721	11	394	30	-	-52	-	3		25	25	-
CP004			Y	Y	75.4	1.0	830714	840725	11	393	30	-	-52	-	3		27	27	-
JP001	Jumbo Plaza	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	830659	840603	28	375	30	-	-35	-	3		49	-	-
JP002			Y	N	80.5	7.0	830662	840600	28	370	30	-	-34	-	3		49	-	-
JP003a		Air gun	Y	N	67.6	10.0	830650	840657	8	409	2	-12	-32	-	3		27	-	-
JP003b		Electric screwing machine	Y	N	88.6	5.0	830650	840657	8	409	2	-12	-38	-	3		42	-	-
JP003c		Hammering	Y	N	80.5	3.0	830650	840657	8	409	2	-12	-43	-	3		29	-	-
JP004		Recycling works	Y	N	68.7	3.0	830700	840623	8	353	30	-	-41	-	3		30	-	-
JP005		Loading and unloading	Y	N	64.7	8.0	830655	840544	8	371	30	-	-33	-	3		34	-	-
BC001	Bank of China	Chillers on rooftop (2 fans, LxWxH = ~3mx1mx2m)	Y	N	61.7	7.0	831135	840590	20	216	30	-	-	-	-		-	-	No line of sight.
BC002			Y	N	61.7	7.0	831138	840589	20	218	30	-	-	-	-		-	-	No line of sight.
CW001	Chuen Wo Building	Condensers (1 fan, LxWxH = ~1mx1mx1.5m)	Y	N	59.0	3.0	831095	840620	12	215	30	-	-	-	-		-	-	No line of sight.
CW002			Y	N	59.0	3.0	831095	840618	12	214	30	-	-	-	-		-	-	No line of sight.
MW001a	Moon Wah Building	Louvers, Chiller and Cooling Tower	Y	Y	69.5	4.0	831071	840453	10	157	30	-	-32	-	3		41	41	-
MW001b		Louvers, Chiller and Cooling Tower	Y	Y	71.1	3.0	831068	840428	10	163	30	-	-35	-	3		39	39	-
MW002		Louver on façade (LxW = ~0.4mx0.2m)	Y	N	80.2	1.0	831070	840405	12	171	30	-	-45	-	3		-	-	MW002 has been completely screened by Moon Wah Building.
LN001	Landmark North	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN002			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN003			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN004			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN005			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN006			Y	N	72.0	2.0	831218	840341	101	268	30	-	-43	-	3		32	-	-
LN007		Chillers on rooftop (4 fans, LxWxH = ~2mx2mx3m)	Y	N	71.0	3.0	831196	840320	101	262	30	-	-39	-	3		35	-	-
LN008		Chillers on rooftop (16 fans, LxWxH = ~8mx2mx2m)	Y	N	75.0	2.0	831231	840308	101	298	30	-	-43	-	3		35	-	-
LN009			Y	N	75.0	2.0	831241	840307	101	306	30	-	-44	-	3		34	-	-
SG001	Shek Wu Hui Gospel Hall	Chillers on rooftop (8 fans, LxWxH = ~4mx2mx2m)	Y	N	80.5	7.0	831166	840684	32	287	30	-	-	-	-		-	-	No line of sight.
SS001	Sheung Shui Spot	Cooling Towers on rooftop (1 fan, LxWxH = ~7mx4mx6m)	Y	N	72.0	2.0	831248	840395	89	274	30	-	-	-	-		-	-	No line of sight.
SS002			Y	N	72.0	2.0	831248	840393	89	274	30	-	-	-	-		-	-	No line of sight.
SS003			Y	N	72.0	2.0	831247	840390	89	275	30	-	-	-	-		-	-	No line of sight.
CC001	Cheung Chi Hang Building	Exhaust fans on facade (LxW = ~3mx1m) & Condensers (8 units, LxW = ~1mx0.5m)	Y	N	65.2	3.0	831082	840504	14	158	30	-	-	-	-		-	-	No line of sight.
KS001	Kam Shing Building	Louvers on façade (LxW = ~4mx1m)	Y	N	67.4	3.0	831082	840498	12	159	30	-	-	-	-		-	-	No line of sight.
GC001	Golden City Seafood Restaurant	Cooling Towers (2 units/set) on rooftop (1 fan, DxH = ~3mx2.5m) & (1 fan, DxH = ~1.9mx2m)	Y	Y	52.3	10.0	831091	840543	26	164	30	-	-24	-	3		31	31	-
GC002			Y	Y	52.3	10.0	831092	840538	26	163	30	-	-24	-	3		31	31	-
BZ001a	Shek Wu Hui Agricultural Produce Bazaar	Loading and unloading	Y	Y	66.5	3.0	831067	840519	8	158	30	-	-	-	-		-	-	No line of sight.
BZ001b		Pumper Truck for fisheries stores in the bazaar	Y	Y	70.5	2.0	831052	840525	8	154	30	-	-	-	-		-	-	No line of sight.
BZ001c		Pumper Truck for street sweeping	Y	N	81.1	3.5	831043	840520	8	149.40	30	-	-	-	-	-	-	-	No line of sight.
BZ001d		Crowd Noise	Y	Y	63.8	5.0	831059	840542	8	162	30	-	-	-	-		-	-	No line of sight.
CH001	Chong Hing Bank	Condenser on rooftop (1 fan, LxWxH = ~1mx1mx1.7m)	Y	N	66.3	3.0	831137	840544	20	199	30	-	-	-	-		-	-	No line of sight.
CH002			Y	N	66.3	3.0	831140	840544	20	201	30	-	-	-	-		-	-	No line of sight.
CH003			Y	N	66.3	3.0	831144	840541	20	203	30	-	-	-	-		-	-	No line of sight.
PS001	Po Shek Wu Estate	Louvers on façade	Y	N	71.8	2.0	830931	840413	13	161	30	-	-38	-	3		37	-	-
PS002			Y	Y	55.3	2.0	830943	840396	13	165	30	-	-38	-	3		20	20	-
															Tonality		0	0	
															Total SPL		54	44	
															Criteria ANL		65	55	
															Exceedance		-	-	

Appendix 9.1

Historical Aerial Photos


N
Village Houses
Agricultural Land
Vacant Land
0 10 20 30 40 50
METRES
1 : 1000
Year 1973
Legend
Site boundary


N
Vacant Land
Formed land, with scattered container/temporary structure
0 10 20 30 40 50
METRES
1 : 1000
Year 1982
Legend
Site boundary


N
Vacant land
KMB bus depot
0 10 20 30 40 50
METRES
1 : 1000
Year 1993
Legend
Site boundary


N
KMB bus depot
0 10 20 30 40 50
METRES
1 : 1000
Year 2000
Legend
Site boundary


N
KMB bus depot
0 10 20 30 40 50
METRES
1 : 1000
Year 2015
Legend
Site boundary


N
KMB bus depot
0 10 20 30 40 50
METRES
1 : 1000
Year 2022
Legend
Site boundary

Appendix 9.2

EPD Letters

Our ref 276006-12/L002/IL/wp

ARUP

By Post and Fax (2685 1133)

Environmental Protection Department
Environmental Compliance Division
Regional Office (North),
10/F., Sha Tin Government Offices,
No. 1 Sheung To Che Road, Sha Tin,
New Territories

Level 5, Festival Walk
80 Tat Chee Avenue
Kowloon Tong, Kowloon
Hong Kong
t +852 2528 3031
d +852 2268 3215
f +852 2268 3380
isis.lai@arup.com
www.arup.com

For the attention of Mr. Lau Kok Yee, Leo

12 January 2022

Dear Mr. Lau,

Environmental Assessment Study for the Proposed Public Housing Development at Po Shek Wu Road, Sheung Shui
Request for Information on Chemical Spillage Accident

We have been recently appointed by Hong Kong Housing Authority (HKHA) to conduct an environmental assessment study for the Proposed Public Housing Development at Po Shek Wu Road, Sheung Shui (see Attachment 1). As part of the study, we are required to review the historical and present land use around the area and evaluate any potential land contamination issues in the Study Area as shown in Attachment 2.

It would be very much appreciated if you could provide us the following information for our assessment:

- The records of Chemical Waste Producers Registration within the Study Area; and
- Past and present chemical spillage / leakage records within the Study Area.

We would be grateful if you could provide a reply to us by 26 January 2020.

We look forward to receiving your reply. Should you have any queries, please do not hesitate to contact our Ms. Winnie Pak at 2908 4605. Thank you for your help in advance.

Yours sincerely,

Isis Lai
Consultant

cc HKHA - Mr. Gary Hong (CE/22), by fax: 3549 6537

香港房屋委員會
Hong Kong Housing Authority

Our Ref. : ( ) in HD(CE2) 140/111/01
Tel No. : 3549 6091
Fax No. : 3549 6537

Date : 15 Dec 2021

To Whom it may Concern

Dear Sir/Madam,

Proposed Public Housing Development at
Po Shek Wu Road, Sheung Shui

Environmental Assessment Study (EAS)

Housing Department (HD) is conducting an environmental assessment study (EAS) for the proposed Public Housing Development at Po Shek Wu Road, Sheung Shui.

This letter serves to confirm that Ove Arup & Partners Hong Kong Ltd. has been appointed by HD to conduct the EAS. I should be grateful if you could provide them with assistance for the study.

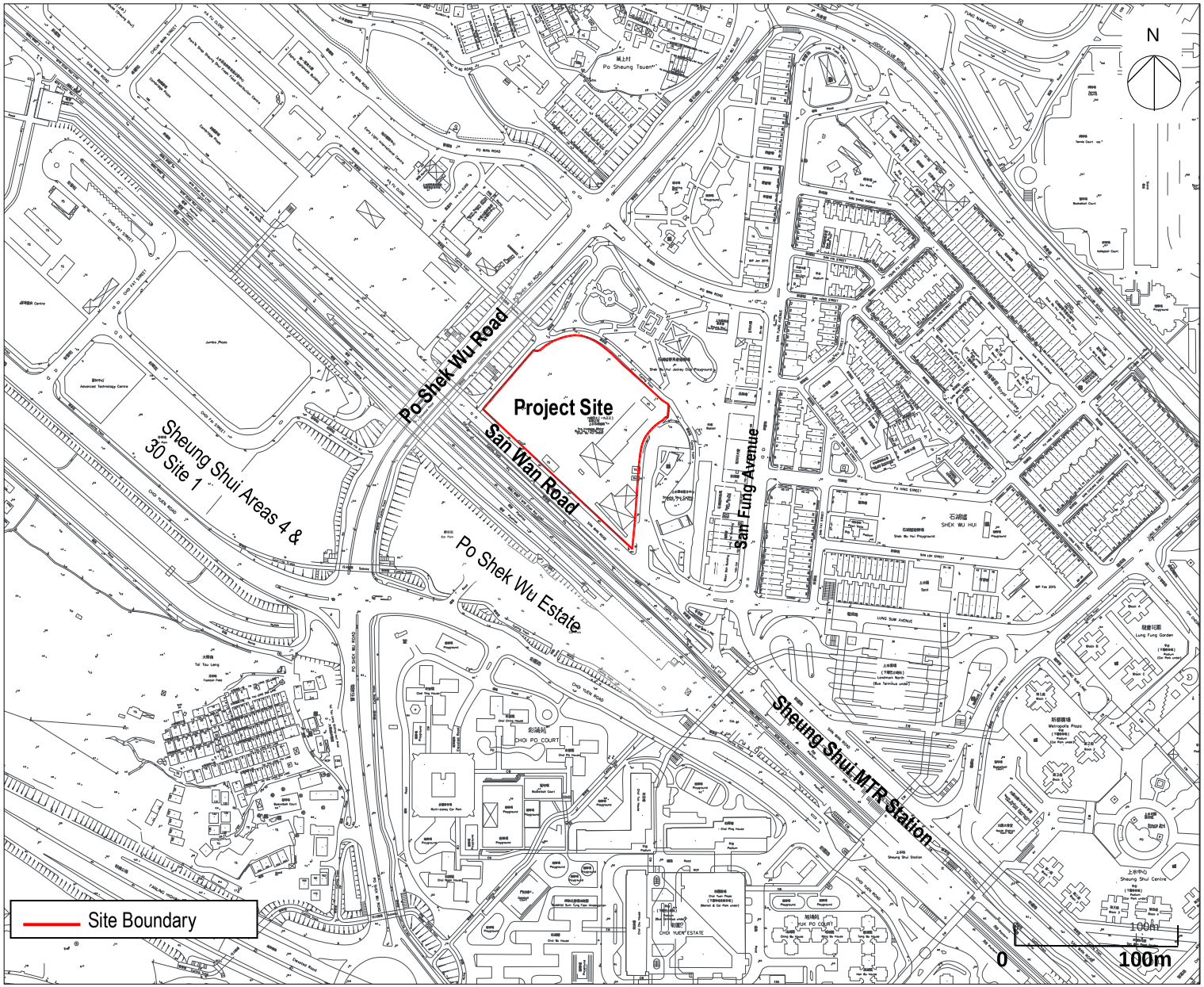
Should you have any enquiries, please feel free to contact the undersigned at 3549 6091. Thank you for your assistance in advance.

Yours faithfully,

(Gary Y. K. HONG)
Civil Engineer/22
for Director of Housing

File copy via SCE/1

香港九龍彌敦道750號始創中心13樓
13/F, Pioneer Centre, 750 Nathan Road, Kowloon, Hong Kong
互聯網網址：
Internet Homepage Address: http://www.housingauthority.gov.hk



Attachment 2

本署檔號
OUR REF: EP/RN/36412
來函檔號
YOUR REF: 276006-12/L002/IL/wp
電　　話
TEL. NO.: 2158 5842
圖文傳真
FAX NO : 2685 1133
網　　址
HOMEPAGE: http://www.epd.gov.hk

Environmental Protection Department
Environmental Compliance Division
Regional Office (North)
10/F, Sha Tin Government Offices,
No. 1 Sheung Wo Che Road,
Sha Tin, New Territories.

環境保護署
環保法規管理科
區域辦事處(北)
新界沙田
上禾輋路一號
沙田政府合署十樓

17 January 2022

Ove Arup & Partners Hong Kong Ltd.
Level 5, Festival Walk
80 Tat Chee Avenue
Kowloon Tong, Kowloon
Hong Kong
(Attn.: Isis Lai)

→ Write 276006-12

Dear Ms. Isis,

Environmental Assessment Study for the Proposed Public Housing Development at Po Shek Wu Road, Sheung Shui
Request for Information of Chemical Spillage Accident

I refer to your letter dated 12 January 2022 (Your Reference: 276006-12/L002/IL/wp) on the captioned.

Regarding your enquiries in the above letter, this Regional Office has no record of spillage or leakage of chemicals within the concerned sites for the past 5 years. You may like to check with other relevant parties or departments for such information as appropriate.

As registered chemical waste producers at the location are concerned, a register of chemical waste producers is available for inspection in the Territorial Control Office of this department. If you would like to inspect, please contact Mr. C. K. TSANG at 2835 1017 for making appointment to view the records.

pls arrange to inspect the record

Should you have any query on the matter, please contact the undersigned at 2158 5842.

Yours sincerely,

(Alice TANG)
Regional Office (North)
For Director of Environmental Protection

cc. TCO (Attn.: Mr. C. K. TSANG) Fax: 2305 0453

Appendix 9.3

FSD Letters

Our ref 276006-12/L001/IL/wp

ARUP

BY FAX (2311 0066) AND BY POST

Fire Services Department
Fire Services Headquarters Building
No.1 Hong Chong Road
Tsim Sha Tsui East
Kowloon

Attention: Director of Fire Services

Level 5, Festival Walk
80 Tat Chee Avenue
Kowloon Tong, Kowloon
Hong Kong
t +852 2528 3031
d +852 2268 3215
f +852 2268 3380
isis.lai@arup.com
www.arup.com

12 January 2022

Dear Sir/Madam,

Environmental Assessment Study for the Proposed Public Housing Development at Po Shek Wu Road, Sheung Shui
Request for Information on Dangerous Goods and Incident Records

We have been recently appointed by Hong Kong Housing Authority (HKHA) to conduct an environmental assessment study for the Proposed Public Housing Development at Po Shek Wu Road, Sheung Shui (see Attachment 1). As part of the study, we are required to review the historical and present land use around the area and evaluate any potential land contamination issues in the Study Area as shown in Attachment 2.

It would be very much appreciated if you could provide us the following information for our assessment:

- Records of Dangerous Goods License issued within the Study Area;
- Past and present incident records within the Study Area; and
- Any other information related to the use and/or storage of dangerous goods in the concerned area.

We would be grateful if you could provide a reply to us by 26 January 2022.

We look forward to receiving your reply. Should you have any queries, please do not hesitate to contact our Ms. Winnie Pak at 2908 4605. Thank you for your help in advance.

Yours faithfully,

Isis Lai
Consultant

cc HKHA - Mr. Gary Hong (CE/22), by fax: 3549 6537

香港房屋委員會
Hong Kong Housing Authority

Our Ref. : ( ) in HD(CE2) 140/111/01
Tel No. : 3549 6091
Fax No. : 3549 6537

Date : 15 Dec 2021

To Whom it may Concern

Dear Sir/Madam,

Proposed Public Housing Development at
Po Shek Wu Road, Sheung Shui

Environmental Assessment Study (EAS)

Housing Department (HD) is conducting an environmental assessment study (EAS) for the proposed Public Housing Development at Po Shek Wu Road, Sheung Shui.

This letter serves to confirm that Ove Arup & Partners Hong Kong Ltd. has been appointed by HD to conduct the EAS. I should be grateful if you could provide them with assistance for the study.

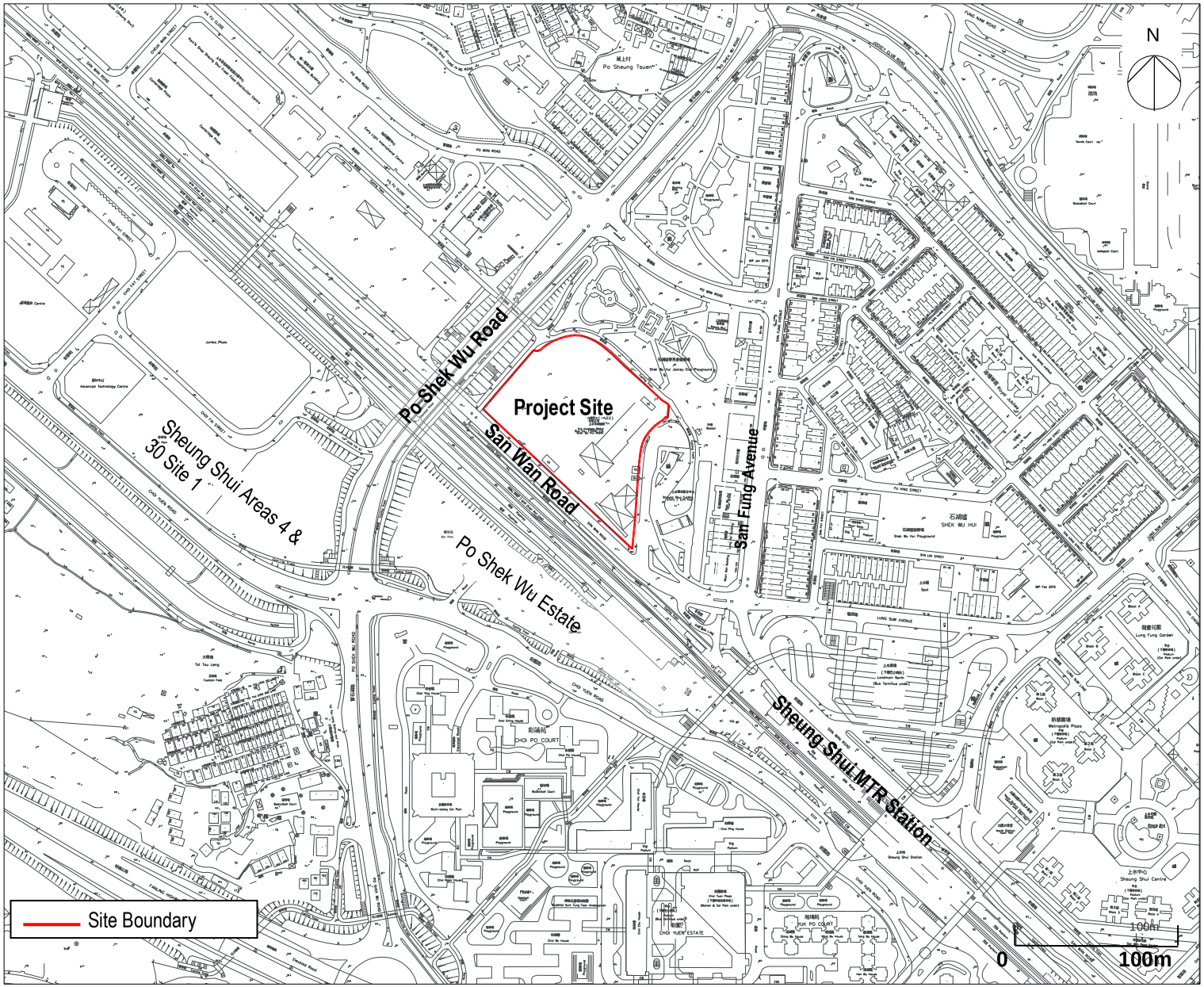
Should you have any enquiries, please feel free to contact the undersigned at 3549 6091. Thank you for your assistance in advance.

Yours faithfully,

(Gary Y. K. HONG)
Civil Engineer/22
for Director of Housing

File copy via SCE/1

香港九龍彌敦道750號始創中心13樓
13/F, Pioneer Centre, 750 Nathan Road, Kowloon, Hong Kong
互聯網網址：
Internet Homepage Address: http://www.housingauthority.gov.hk



Attachment 2

消 防 處
香港九龍尖沙咀東部廣華道 1 號
消防處總部大廈

FIRE SERVICES DEPARTMENT
FIRE SERVICES HEADQUARTERS BUILDING,
No.1 Hong Chong Road,
Tsim Sha Tsui East, Kowloon,
Hong Kong.

本處檔號 OUR REF. : (174) in FSD GR 6-5/4 R Pt. 38
來函檔號 YOUR REF. : 276006-12/L001/IL/wp
電子郵件 E-mail : hkfsdenq@hkfsd.gov.hk
圖文傳真 FAX NO. : 2739 5879
電 話 TEL NO. : 2733 7741

9 February 2022

ARUP
Level 5, Festival Walk,
80 Tat Chee Avenue,
Kowloon Tong, Kowloon
(Attn: Ms. Isis LAI, Consultant)

By fax (2268 3380) only

Dear Ms. LAI,

Enviromental Assessment Study for the Proposed Public Housing Development at Po Shek Wu Road, Sheung Shui
Request for Information of Dangerous Goods & Incident Records

I refer to your letter of 12.1.2022 regarding the captioned subject.

According to our record, from the year of 1990 to present moment, dangerous goods licenses have been issued by this department to the subject address, with details as shown in **Appendix A**. No incident record was found at the aforesaid location with your given conditions.

If you have further questions, please feel free to contact the undersigned.

Yours sincerely,

(NG Wing-chit)
for Director of Fire Services

Appendix A

Enviromental Assessment Study for the Proposed Public Housing Development at Po Shek Wu Road, Sheung Shui
Request for Information of Dangerous Goods & Incident Records

Item	Type of DG	Quantity	Storage Location
1.	Diesel Oils	20,000 litres	Temp. Bus Depot, Area 4A, Shek Wu Hui, Sheung Shui, N.T.