香港軒尼詩道一三九號中國海外大廈二十九樓 電話 Tel:(852)3122 6300 博真 Fax:(852)2877 1522

By Hand

ORT014918

Our Ref.: HK/2012/08/CDB/EN10.05/004484

Date

Wanchai, Hong Kong

Your Ref : (9) in EP2/H4/S3/15 Pt.39

n 9 OCT 2015

Environmental Protection Department The EIA Ordinance Register Office 27/F, Southorn Centre 130 Hennessy Road

TO WHOM IT MAY CONCERN

Dear Sir,

Contract No. HK/2012/08 Wan Chai Development Phase II -Central - Wan Chai Bypass at Wan Chai West

Submission of Noise Management Plan (Rev. 2) under Further Environmental Permit No.: FEP-01/376/2009

Referring to your above referenced letter dated 31 August 2015, we are pleased to submit herewith the following documents pursuant to Condition 2.9 of Part C of the FEP-01/376/2009 for your perusal:

- 1. Noise Management Plan (Rev. 2) (4 Hard Copies and 1 Electronic Copy);
- 2. Letter of Certification from Environmental Team (Lam Geotechnics Limited); and
- 3. Letter of Verification from Independent Environmental Checker (ENVIRON Hong Kong Limited).

Should you have any enquiries, please feel free to contact our Mr. James MA at 9130 9549.

Yours faithfully, For and on behalf of

China State - Leader Joint Venture

Keith Tse Site Agent

Encl.

c.c. - AACL - H.O.

- AECOM
- CEDD Mr. Stephen Lo (By Email)
- Mr Raymond Dai (By Email)
- IEC Mr. David Yeung (By Email)

KT/CN/PL/KOC/JM/rc Kon Ju



Ref.: AACWBIECEM00_0_7243L.15

8 October 2015

China State – Leader Joint Venture 29/F, China Overseas Building, 139 Hennessey Road, Wan Chai, Hong Kong By Post and Fax (2877 1522)

Attention: Site Agent, Keith Tse

Dear Sir,

Re: FEP-01/376/2009

Contract No. HK/2012/08

Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai

West

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Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 2.9 of FEP-01/376/2009.

Please feel free to contact the undersigned should you have any queries.

Yours sincerely,

David Yeung

Independent Environmental Checker

c.c.

CEDD Attn: Mr. Stephen Lo by fax: 2577 5040
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Lam Geotechnics Limited

Ground Investigation & Instrumentation Professionals

Ref

G1120/CS/L1107/FEP-01/376/2009

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Ramboll Environ

- Mr. David Yeung

(By Fax: 3548 6988)









Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai West Contract No. HK/2012/08

Noise Management Plan

for FEP-01/376/2009

Revision: 2

Revision	Date of Issue	Remarks	Prepared by	Checked by
0	10 Apr 2015	Revised as per ET's comments	James MA	Keith TSE
1	17 Jul 2015	Revised as per EPD's comments	James MA	Keith TSE
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- 6 Mitigation of Environmental Impacts

Appendices

Appendix I	Site Layout Plan Showing the Relevant Noise Sensitive Receiver
Appendix II	Types and Number of Powered Mechanical Equipment
Appendix III	Multiple Phase Construction Schedule
Appendix IV	Details of a Typical Noise Barrier



1 Introduction

Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai West (Contract No. HK/2012/08) is part of the Central - Wan Chai Bypass (CWB) including Road P2 and other roads which are classified as primary/district distributor roads covered under the Environmental Permit No. EP-376/2009.

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Under Condition 2.9 of Part C of the FEP-01/376/2009, a noise management plan has to be prepared and deposited by the permit holder to the EPD at least two weeks prior to the commencement of construction of the corresponding component(s) of the project.

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Noise impacts have been assessed in accordance with the criteria and methodology given in the Technical Memoranda made under the Noise Control Ordinance (NCO).

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Uses	Noise Level in Leq(30min), dB(A)
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In order to evaluate the construction noise impact from the project (Contract No. HK/2012/08), representative noise sensitive receiver (NSR) for this project is selected for assessment and summarized in Table 3. The site layout plan (scale 1:1000) of the project works area under the FEP-01/376/2009 showing the relevant NSR is shown in Appendix I.

Table 3 List of Relevant NSR Selected for Noise Assessment

Relevant NSR	Use	Nearest Distance from Works Boundary
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Performing Arts		
(Open Arena)		
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^{*:} NSR as identified in the WDII&CWB EIA Report (Register No.: AEIAR-125/2008) but this NSR has been changed from an open arena to an indoor central air-conditioned environment (photo as shown in Appendix I). As this NSR does not rely on opened windows for ventilation, the construction noise criteria as stipulated in the EIAO-TM and the construction noise impact



assessment are not applicable.

5 Construction Noise

The construction tasks which have emission of construction noise are shown as below and they belong to the same category of roadworks as shown in the approved EIA:

- At-grade roadworks;
- Resurfacing:
- Roads for temporary traffic diversion.

Types and number of powered mechanical equipment (PME) which would be used on site are shown in Appendix II.

6 Mitigation of Environmental Impacts

To reduce the noise during normal daytime working hours, it is recommended that the following noise reduction measures will be considered as far as practicable during construction:

6.1 Quiet Powered Mechanical Equipment (QPME)

Uses of the following QPME will be considered during construction phase of this Project to reduce noise impact:

- Excavator, wheeled/tracked
- Asphalt paver
- Road roller
- Roller, vibratory
- Dump truck

6.2 Multiple-phase Construction Schedule

The multiple-phase construction schedule as shown in Appendix III will be adopted as far as practicable during the construction.

6.3 Noise Reduction at Source



In order to reduce the noise generated by the stationary PME, movable acoustic shelter, flexible noise barriers and acoustic blanket will be considered for roadside works, if necessary.

The barrier and shelter are made of a sheeting not less than 5kg/m² or baffles which comprise of sound absorbing lining and lmm thick steel (or 10mm thick plywood) backing.

Typical details of the noise barrier are shown in Appendix IV.

6.4 Other Mitigation Measures

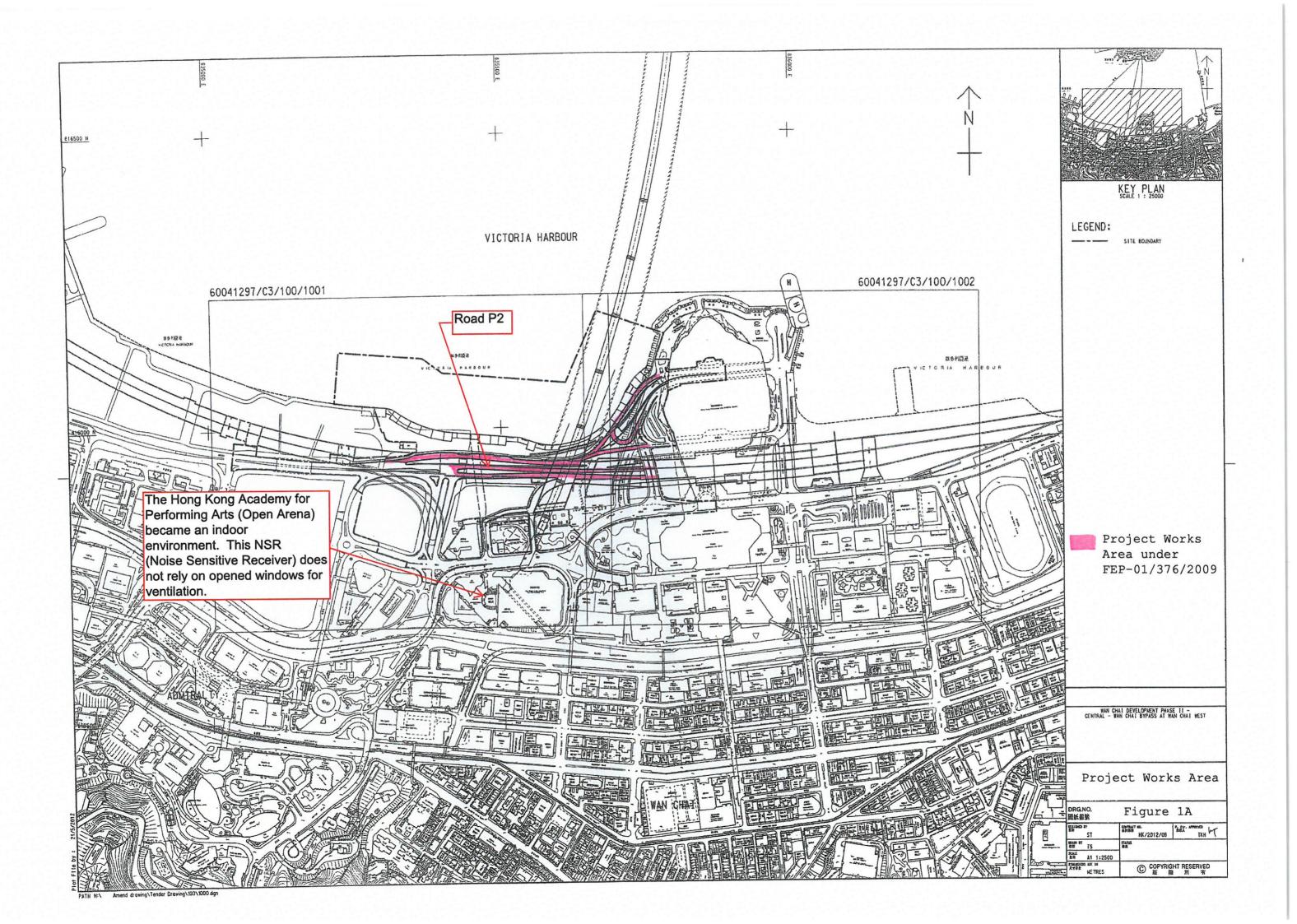
The following good practices will be adopted when practical to alleviate noise impact:

- All PME to be used on site should be properly maintained;
- Silencers or mufflers on construction equipment should be utilized if possible and should be properly maintained.
- Mobile plant should be sited as far as away from NSRs as possible;
- Starting up the engines of all plant simultaneously should be avoided:
- PME known to emit noise strongly in one direction should, where possible, be orientated so that the noise is directed away from the nearby NSRs;
- Close liaison and communication with the neighbourhood including HKAPA should be maintained.



Appendix I

Site Layout Plan Showing the Relevant Noise Sensitive Receiver





HKAPA (Open Arena)



HKAPA (Current Status)



Appendix II

Types and Number of Powered Mechanical Equipment

Tentative List of Powered Mechanical Equipment

Powered Mechanical Equipment	No.
Excavator	2
Dump truck	2
Craned lorry	2
Asphalt paver	2
Road roller	1
Roller, vibratory	1
Piling, vibrating hammer	1

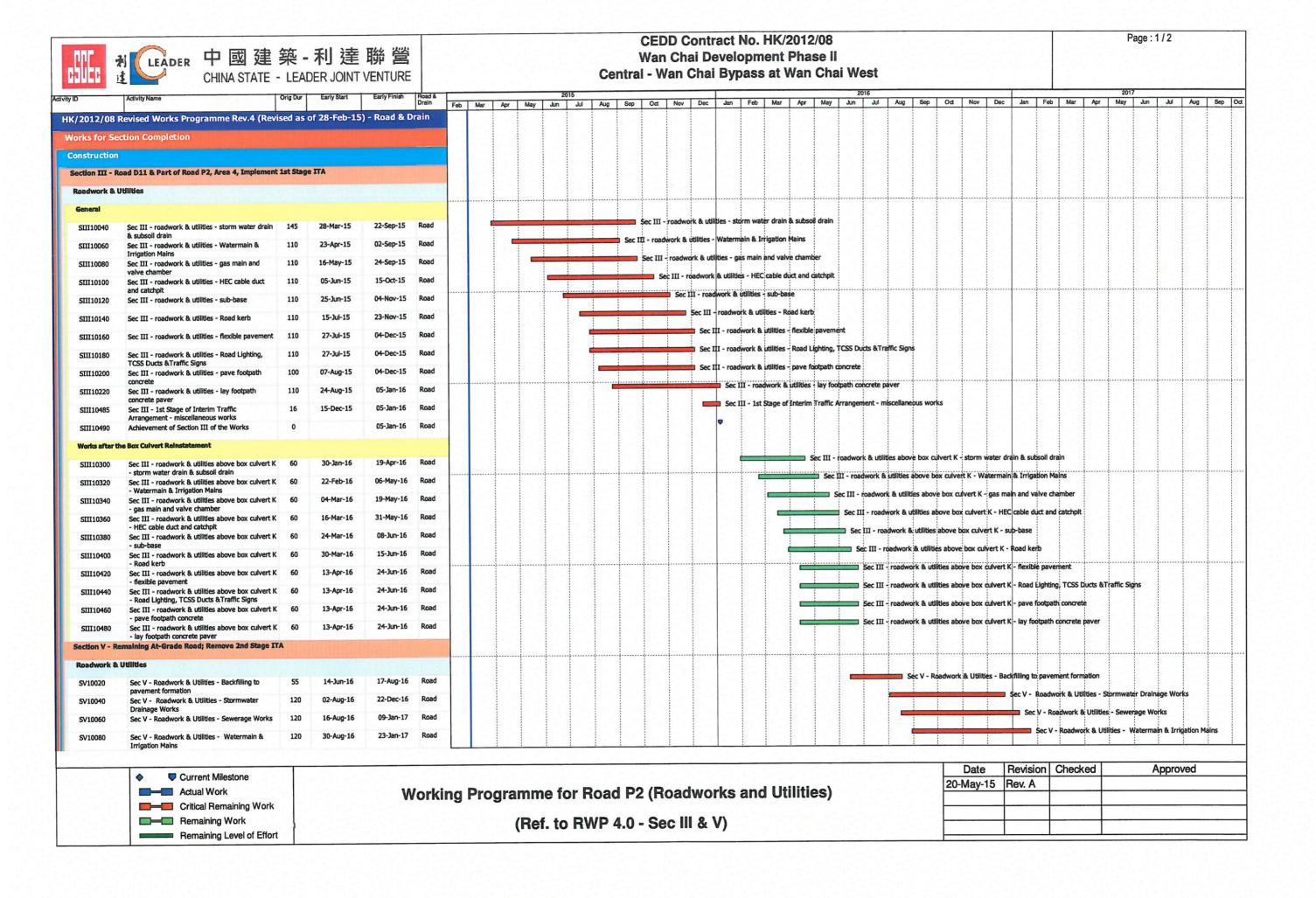


Appendix III

Multiple Phase Construction Schedule



Phase	Working Sequence
General	
1 (May 2015 to Jan 2016)	Earthworks
2 (May 2015 to Jan 2016)	Drainage
3 (May 2015 to Jan 2016)	Watermain
4 (May 2015 to Jan 2016)	Utilities
5 (May 2015 to Jan 2016)	Road including bitumen laying and resurfacing
6 (May 2015 to Jan 2016)	Interim traffic arrangement
Works after box culvert rein	statement
1 (Feb 2016 to Jun 2016)	Earthworks
2 (Feb 2016 to Jun 2016)	Drainage
3 (Feb 2016 to Jun 2016)	Watermain
4 (Feb 2016 to Jun 2016)	Utilities
5 (Feb 2016 to Jun 2016)	Road including bitumen laying and resurfacing
Remaining works	
1 (Jul 2016 to May 2017)	Earthworks
2 (Jul 2016 to May 2017)	Drainage
3 (Jul 2016 to May 2017)	Watermain
4 (Jul 2016 to May 2017)	Utilities
5 (Jul 2016 to May 2017)	Road including bitumen laying and resurfacing





中國建築-利達聯營 CHINA STATE - LEADER JOINT VENTURE

CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

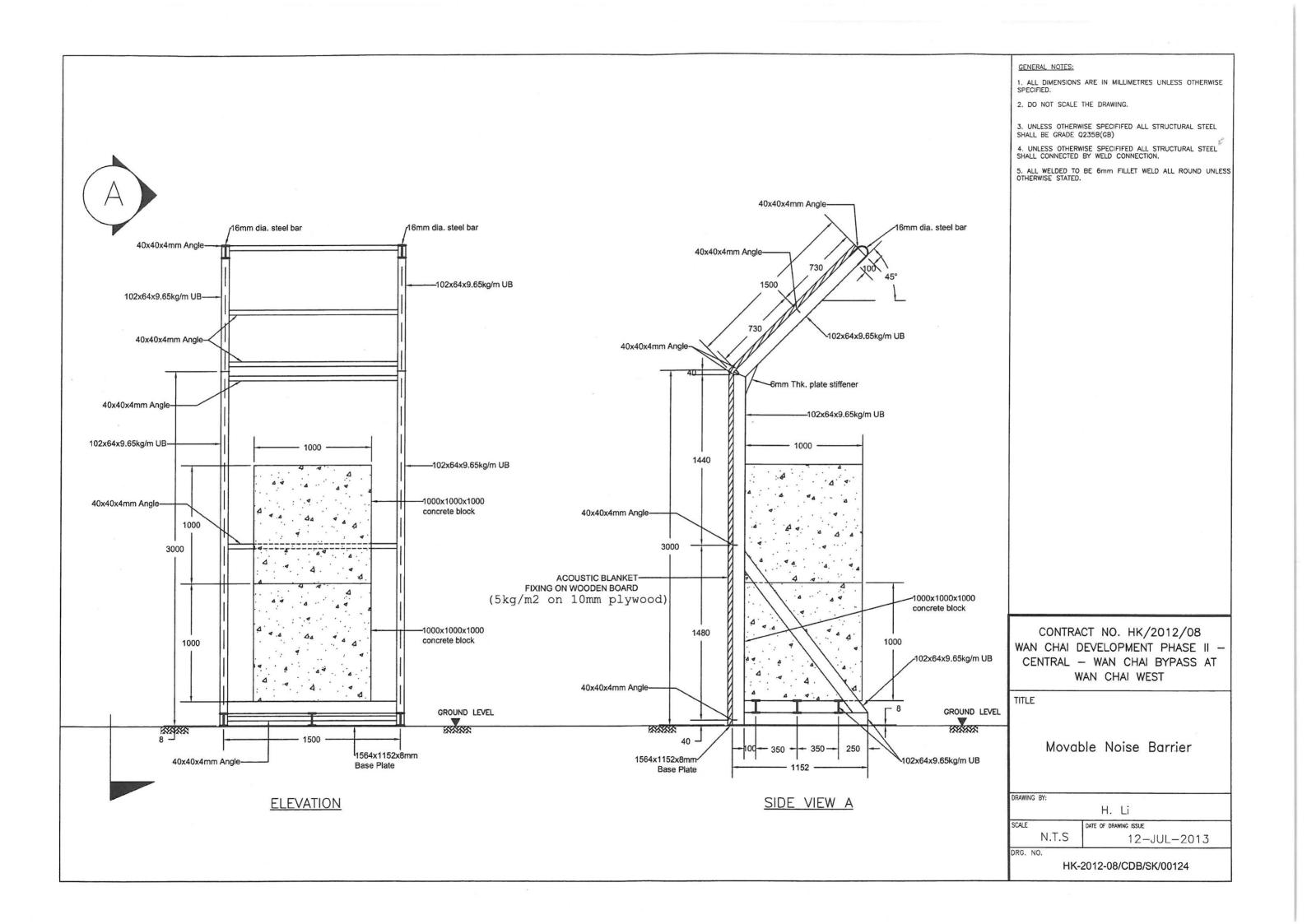
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- ID	Activity Name	Orig Dur	Early Start	Early Finish	Road &	1					2015											2	016											2017				
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SV10100	Sec V - Roadwork & Utilities - Gas Main	90	13-Sep-16	31-Dec-16	Road																				-	1			Se		Roadworl							
SV10120	Sec V - Roadwork & Utilities - HEC cable duct and drawpit	90	28-Sep-16	16-Jan-17	Road																								İ					HEC cal				fraum
SV10140	Sec V - Roadwork & Utilities - Telecom cable duct and drawpit	90	14-Oct-16	04-Feb-17	Road																					-			I		Sec y			vork & Ut				
SV10160	Sec V - Roadwork & Utilities - lay & compact sub-base	110	28-Oct-16	14-Mar-17	Road																													dwork &				
SV10180	Sec V - Roadwork & Utilities - construct road kerb	110	05-Nov-16	22-Mar-17	Road			ļ																	ļ									oadwork				
SV10200	Sec V - Roadwork & Utilities - flexible pavement	110	14-Nov-16	30-Mar-17	Road																						_		Т									
SV10220	Sec V - Roadwork & Utilities - footpath paving block	110	24-Nov-16	11-Apr-17	Road																													- Roadwo				
SV10240	Sec V - Roadwork & Utilities - concrete footpath	72	02-Dec-16	04-Mar-17	Road																								T									
SV10260	Sec V - Roadwork & Utilities - construct surface channel	72	02-Dec-16	04-Mar-17	Road																								Ť			Sec V - I	Roadwor	k & Utilit				
SV10280	Sec V - Roadwork & Utilities - Road Lighting, TCSS Ducts &Traffic Signs	72	11-Feb-17	12-May-17	Road																	ļ												Sec V	Rodun	OK & U	unues	- Rue
SV10300	Achievement of Section V of the Works	0		12-May-17	Road																		1			1							,					



Appendix IV

Details of a Typical Noise Barrier



Description

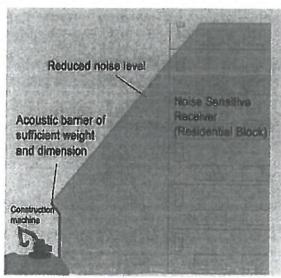
Wilhams WB Barrier is a high-density mineral loaded thermoplastic polymer plasticised with phalate esters and containing mineral filters. Black in colour, ecologically neutural and recycloble.

- Available in sheet or roll form
- Flexible and easily cut
- Easy to handle and install
- Available in 3 standard weights (5 kg/m³, 7.5 kg/m³ & 10 kg/m³)
- Provide a cost effective sound barrier solution
- Available with self-adhesive backing or Class 'O' foil facing
- Clip on quick install track available (see installation guide for details)

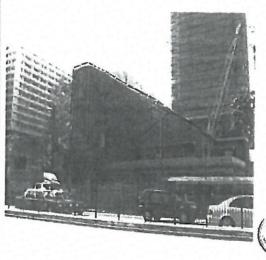
Application

WB Acoustic barrier material could be used as temporary noise barrier at construction site to screen the noise from construction machineries or noisy activities to nearby noise sensitive receivers. Acoustic barrier installed in the transmission path between noise sources (eg. pumps, excavator, generators, etc.) and noise sensitive receivers could screen part of the noise and create a quiet zone at the receiver side.

Noise reduction of barrier could be enhanced by using sound absorptive material facing noise source side. Withams fire rated PUNF form could be one of the recommended material.



Temporary Noise Barrier for Construction Site



Temporary Noise Barrier Screening Noise to Sensitive Receivers (Former Marine Police Headquarter, TST)



Physical Information

	Model					
	W85	W810				
Available Surface Density: /	5kg/m²	10kg/m²				
Nominal Thickness:	2,0mm	4,5mm				
Size (mm):	5000x1200	2000x1200				
-	(Roll size)	(Sheet size)				

 Available in other custom modulates upon request Self adhesive backing and factory applied foam combination is also available.

Technical Information

Wilhorns WB barrier material conforms to the following specifications:

ù	Tensile strength	:	88kPo
100	Indentation Hardness		15AN

■ Operating Temperature : (\$latic) -30 to 65℃

Fire Resistance Properties :

8S 476: PI5: 1979 (Ignitability) - P

BS 476 ; P112 ; 1997 (Ignitability) - No Substained Ignition BS 476 ; P17 ; 1987 - Class 1 (With Alum, Foll Facing) Flammability (FMVSS302) - Self Extinguishing

Installation Guidelines

Wilhams WB barrier is simple to install either direct to the noise source or in conjunction with a spaced layer, the product can be laid directly. The barrier can be fixed in placed by mechanical means i.e. pins, hangers or banding, or bonding using a polyurethane based contact adhesive (Wilhams Type A7153).

For WB borrier material supplied with a self-adhesive backing, it is important to ensure that the surface is clean and free from dust and grease. After aligning the barrier material, peel back the release paper and adhere to the surface. Note, self-adhesive versions should not be relied on as the only method of support when fixing in a vertical or inverted position and additional means of support must be employed.

Snop on installation track for WB barrier (as picture shown) is also available for ease of lixing.

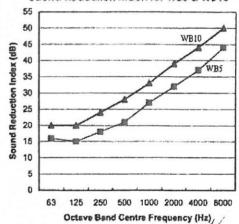
Acoustic Performance

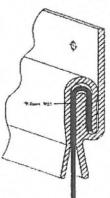
Withams WB banler material is a high performance acoustic material capable to reduce sound effectively. Sound Reduction Index [SRI] for material at respective density is shown below.

Model/ Surface		00	clave	Band	Cen	tro Fro	eque	ncy (H	2)
Weight	63	125	250	500	1000	2000	4000	8000	Ave. \$R
WB5 (5kg/m²)	16	15	18	21	27	32	37	44	26dB
WB10 (10kg/m²)	20	20	24	28	33	39	44	50	33dB

"Note: Rw - rating according to BS EN ISO 717-1: 1997

Sound Reduction Index for W85 & W810







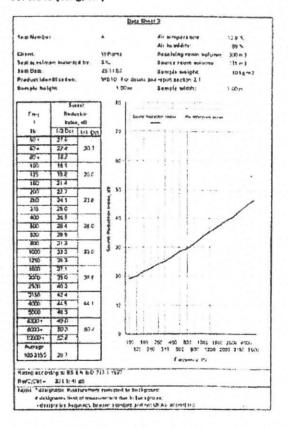
 Optional Quick Installation Track Available on Request

Technical Report on Acoustic Performance (Conducted by Sound Research Laboratories Limited)

For WB5 (5kg/m³)

Date Abert 1 ALE HEMBERATURE And Browning to Respining toom without Spinse even withins Test additives septemble by Test Date: Product slavelingson 26.11:07 Rangele weight L VES Syrdtysis sax imper society 3 i 100/m Bample width 26 11:07 Signi Sample Imight And zer hdia eff La Du Lin Ge HAV 161 45 33 1.21 14.3 14.1 18 h 18 d 18 d 300 351 16.1 19.7 21.3 430 121 20.1 20.1 800 1000 26 à 1200 1600 F.2 3000 211 2000 23.5 21 7 JIMI KA 4000 30,0 5780 26.8 43004 40.6 42001 40.1 2: 1 445 2 140 200 400 400 500 1000 1010 2014 6000 128 200 516 801 800 1256 2117 3160 2600 100-2150 223 Requests Hi Rabing at cording to 99 \$4 (80 f) f 1:1961 Reciffet - Ethanister and ereit fallen greife F the openion form of the enterior of the 16 Euchgrant of the designation of the terror of the terro

For WB10 (10kg/ m1)



*Note: R. - Rating according to BS EN ISO 717-1: 1997



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Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai West Contract No. HK/2012/08

Noise Management Plan

for FEP-01/376/2009

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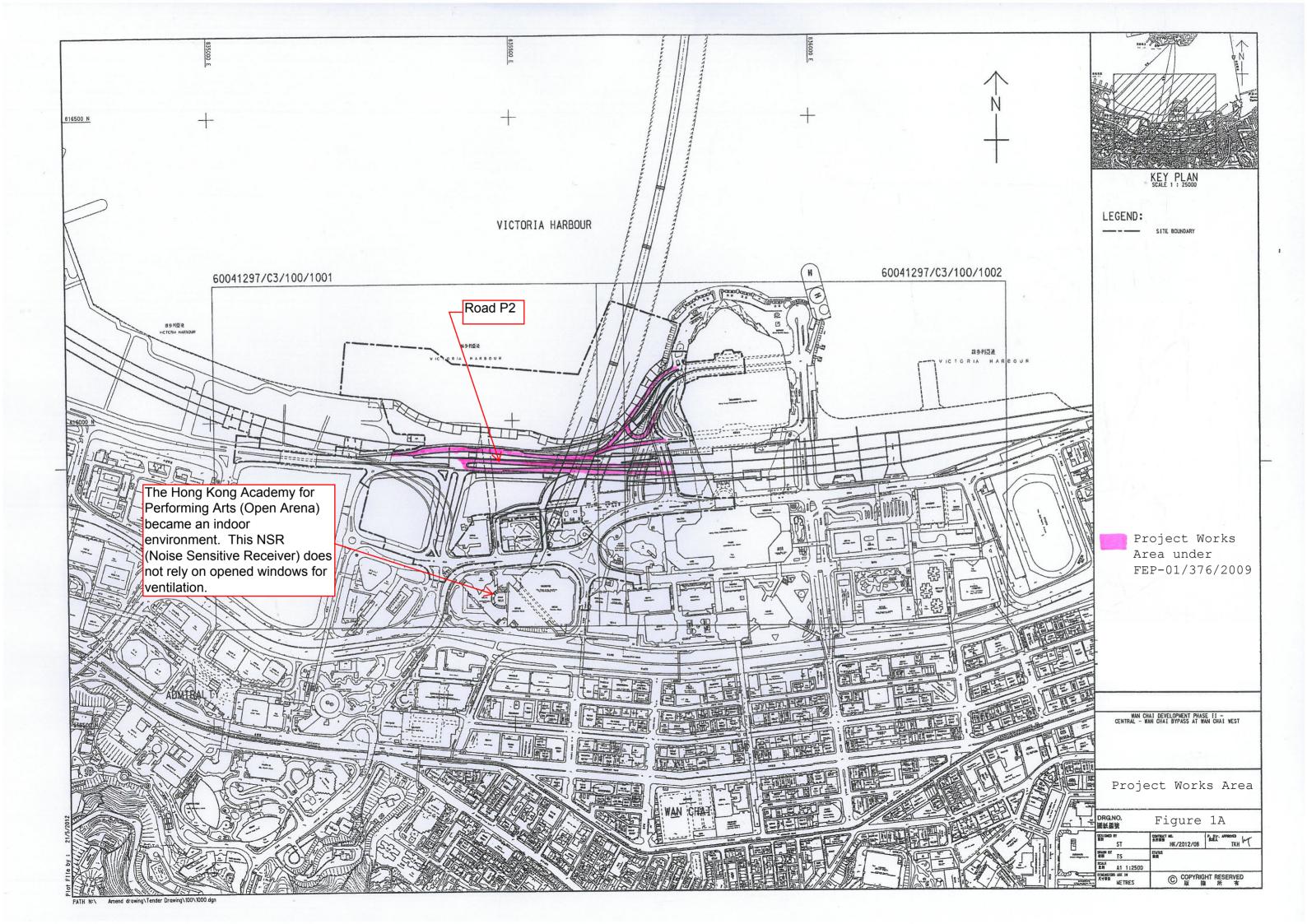
- All PME to be used on site should be properly maintained;
- Silencers or mufflers on construction equipment should be utilized if possible and should be properly maintained.
- Mobile plant should be sited as far as away from NSRs as possible;
- Starting up the engines of all plant simultaneously should be avoided;
- PME known to emit noise strongly in one direction should, where possible, be orientated so that the noise is directed away from the nearby NSRs;
- Close liaison and communication with the neighbourhood including HKAPA should be maintained.

Contract No. HK/2012/08 Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai West Noise Management Plan



Appendix I

Site Layout Plan Showing the Relevant Noise Sensitive Receiver







HKAPA (Current Status)



Appendix II

Types and Number of Powered Mechanical Equipment

Tentative List of Powered Mechanical Equipment

Powered Mechanical Equipment	No.
Excavator	2
Dump truck	2
Craned lorry	2
Asphalt paver	2
Road roller	1
Roller, vibratory	1
Piling, vibrating hammer	1



Appendix III

Multiple Phase Construction Schedule



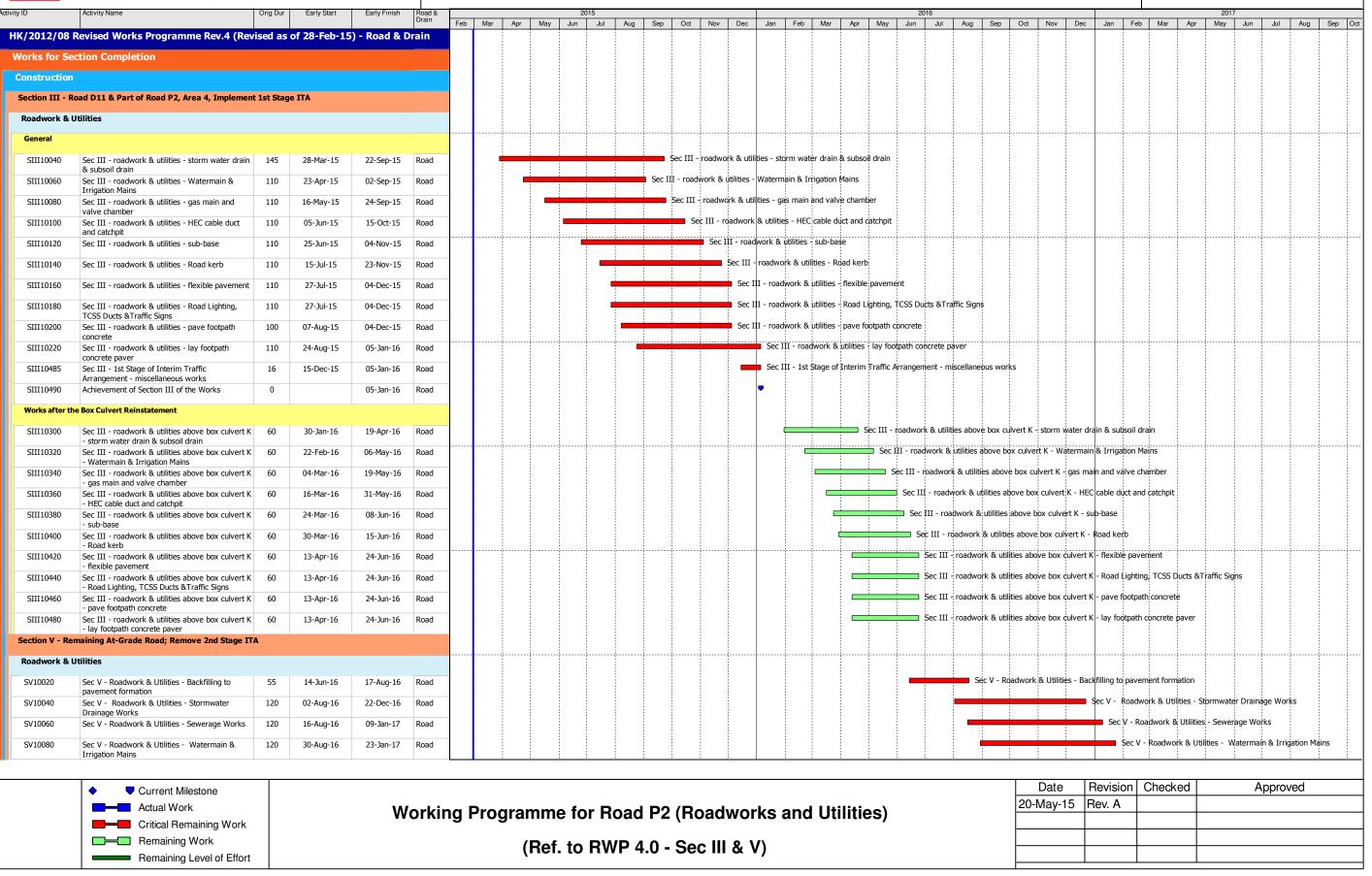
Phase	Working Sequence
General	
1 (May 2015 to Jan 2016)	Earthworks
2 (May 2015 to Jan 2016)	Drainage
3 (May 2015 to Jan 2016)	Watermain
4 (May 2015 to Jan 2016)	Utilities
5 (May 2015 to Jan 2016)	Road including bitumen laying and resurfacing
6 (May 2015 to Jan 2016)	Interim traffic arrangement
Works after box culvert reins	statement
1 (Feb 2016 to Jun 2016)	Earthworks
2 (Feb 2016 to Jun 2016)	Drainage
3 (Feb 2016 to Jun 2016)	Watermain
4 (Feb 2016 to Jun 2016)	Utilities
5 (Feb 2016 to Jun 2016)	Road including bitumen laying and resurfacing
Remaining works	
1 (Jul 2016 to May 2017)	Earthworks
2 (Jul 2016 to May 2017)	Drainage
3 (Jul 2016 to May 2017)	Watermain
4 (Jul 2016 to May 2017)	Utilities
5 (Jul 2016 to May 2017)	Road including bitumen laying and resurfacing



中國建築-利達聯營 CHINA STATE - LEADER JOINT VENTURE

CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

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中國建築-利達聯營 CHINA STATE - LEADER JOINT VENTURE

CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

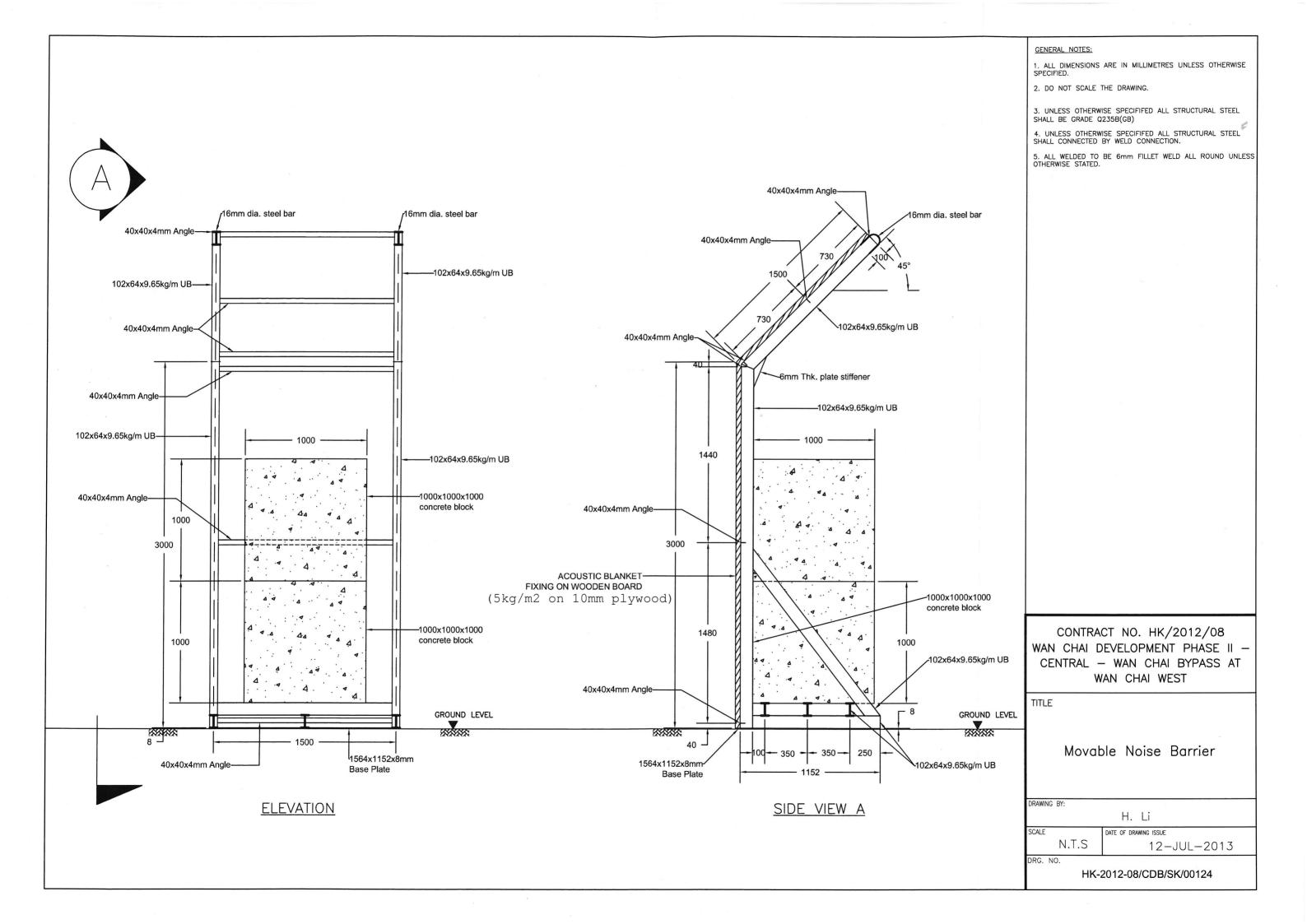
Page	:	2/	2
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ity ID	Activity Name	Orig Dur	Early Start	Early Finish	Road &						2015												20	16									2	017			
					Drain	Feb	Mar	Apr	May	Jun	ı Ju	I Au	ug S	Sep C	Oct N	Nov [Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr Ma	/ Jun	Jul	Aug	Sep
SV10100	Sec V - Roadwork & Utilities - Gas Main	90	13-Sep-16	31-Dec-16	Road																					_				Sec V	- Roadwoi	ork & Util	ties - Gas	Main .			
SV10120	Sec V - Roadwork & Utilities - HEC cable duct and drawpit	90	28-Sep-16	16-Jan-17	Road																									S	ec V - Road	dwork &	Utilities - F	EC cable	duct and d	rawpit	i
SV10140	Sec V - Roadwork & Utilities - Telecom cable duct and drawpit	90	14-Oct-16	04-Feb-17	Road																						_				Sec V -	Roadwo	rk & Utilitie	s - Teleco	om cable d	duct and d	drawp
SV10160	Sec V - Roadwork & Utilities - lay & compact sub-base	110	28-Oct-16	14-Mar-17	Road																						1						- Roadwoi				
SV10180	Sec V - Roadwork & Utilities - construct road kerb	110	05-Nov-16	22-Mar-17	Road																							_					V - Roadv				
SV10200	Sec V - Roadwork & Utilities - flexible pavement	110	14-Nov-16	30-Mar-17	Road																							_				9	ec V - Roa	lwork & L	Jtilities - fle	exible pav	iveme
SV10220	Sec V - Roadwork & Utilities - footpath paving block	110	24-Nov-16	11-Apr-17	Road																							•					Sec V - F	oadwork	& Utilities	- footpatt	th pav
SV10240	Sec V - Roadwork & Utilities - concrete footpath	72	02-Dec-16	04-Mar-17	Road																											Sec V -	Roadwork	& Utilities	- concrete	footpath	1
SV10260	Sec V - Roadwork & Utilities - construct surface channel	72	02-Dec-16	04-Mar-17	Road																											Sec V -	Roadwork	& Utilities	- construct	t surface	: chanr
SV10280	Sec V - Roadwork & Utilities - Road Lighting, TCSS Ducts &Traffic Signs	72	11-Feb-17	12-May-17	Road																										_			Sec V - R	oadwork 8	k Utilities	; - Roa
SV10300	Achievement of Section V of the Works	0		12-May-17	Road	1	T																		[1		1		1					1		



Appendix IV

Details of a Typical Noise Barrier



Description

Wilhams WB Barrier is a high-density mineral loaded thermoplastic polymer plasticised with phalate esters and containing mineral fillers. Black in colour, ecologically neutural and recycloble.

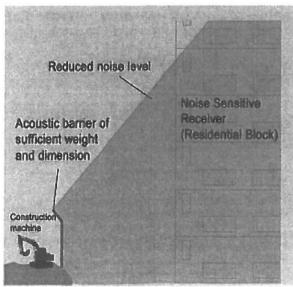
- Available in sheet or rall form
- Flexible and easily cut
- Easy to handle and install
- Available in 3 standard weights (5 kg/m², 7.5 kg/m² & 10 kg/m²)
- Provide a cost effective sound barrier solution
- Available with self-adhesive backing or Class 'O' foil facing
- Cip on quick install track available (see installation guide for details)



Application

WB Acoustic barrier material could be used as temporary noise barrier at construction site to screen the noise from construction machineries or noisy activities to nearby noise sensitive receivers. Acoustic barrier installed in the transmission path between noise sources (eg. pumps, excavator, generators, etc.) and noise sensitive receivers could screen part of the noise and create a quiet zone at the receiver side.

Naise reduction of barrier could be enhanced by using sound absorptive material facing noise source side. Wilhams fire rated PUNF foam could be one of the recommended material.



Temporary Noise Barrier for Construction Site



Temporary Noise Barrier Screening Noise to Sensitive Receivers (Former Marine Police Headquarter, TST)

Physical Information

	Model					
	WB5	W810				
Available Surface Density: Nominal Thickness: Size (mm):	5kg/m² 2.0mm 5000x1200 (Roll size)	10kg/m ² 4.5mm 2000x1200 (Sheet size)				

 Available in other custom made sizes upon request Self adhesive backing and factory applied foam combination is also available.

Technical Information

Wilhams WB barrier material conforms to the following specifications:

Þ	Tensile strength	1	88kPa
100	Indentation Hardness		156N

Operating Temperature : (Static) -30 to 65°C

Fire Resistance Properties : 8S 476 : Pt5 : 1979 (Ignitability) - P

BS 476 : P112 : 1997 (Ignitability) - No Substained Ignition

65 476 : Pt7 : 1987 - Class 1 (With Alum. Foll Facing) Flammability (FMVSS302) - Self Extinguishing

Installation Guidelines

Wilhams WB barrier is simple to install either direct to the noise source or in conjunction with a spaced layer, the product can be laid directly. The barrier can be fixed in placed by mechanical means i.e. pins, hangers or banding, or bonding using a polyurethane based contact adhesive (Wilhams Type A7153).

For WB barrier material supplied with a self-adhesive backing, it is important to ensure that the surface is clean and free from dust and grease. After aligning the barrier material, peel back the release paper and adhere to the surface. Note, self-adhesive versions should not be relied on as the only method of support when fixing in a vertical or inverted position and additional mechanical means of support must be employed.

Snap on installation track for WB barrier (as picture shown) is also available for ease of fixing.

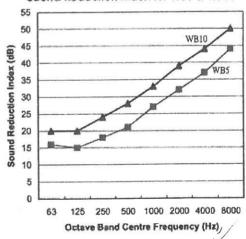
Acoustic Performance

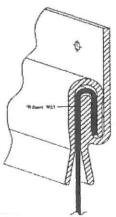
Withams WB barrier material is a high performance acoustic material capable to reduce sound effectively. Sound Reduction Index (SRI) for material at respective density is shown below.

Model/Surface		00	tave	Band	Cen	re Fro	quer	icy (H	z)
Weight	63	125	250	500	1000	2000	4000	8000	Ave. SRI
WB5 (5kg/m²)	16	15	18	21	27	32	37	44	26dB
WB10 (10kg/m²)	20	20	24	28	33	39	44	50	33dB

"Note: R_w - rating according to BS EN ISO 717-1: 1997

Sound Reduction Index for WB5 & WB10







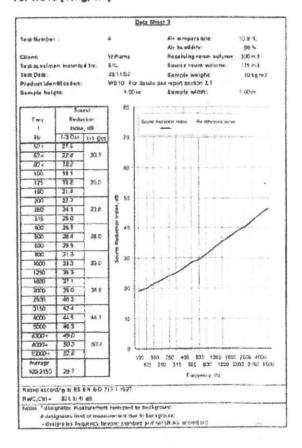
 Optional Quick Installation Track Available on Request

Technical Report on Acoustic Performance (Conducted by Sound Research Laboratories Limited)

For WB5 (5kg/m²)

Data Stept 1 All MINDAMENT Ais herrickite: Receiving speri universe Williams Sames soom, valstens Tem maximum mounted by 26.1 hAZ Rangele worght. WES- Der etitals, une fepati nochie I f Test Detr. Payalizet ida nithicali on Sample width 1 00 14 Sample height Kind action Name Assessment of the Park Administration of the kdos di 12 Da 110 Ga 163 18.5 15 Title. 13.1 15 0 14.3 1.25 11.7 18.3 350 316 19.5 72 1 22 8 71.1 EVI 000 24 9 100 20.0 20.4 26.6 1,790 160 311 21.7 2600 313 2.4 4(3(1) 1000 20.0 AXXVI 44 8 4200 i POKKA 463 TAGO 1950 400 BASC HARD HARD MEDI 2250 HERR B 2007 518 BOX BOX 1250 281E 316Q 2000 Awrest 223 100-2150 Bringsmirry, Ha Rading according to the \$20 tags 117 111967 Rec (List - Million mennennen ann name be beschinete e de regimbre derre el presententente des de Contégénicies sensigname destantes de parté autémit une ces les AS a

For WB10 (10kg/m²)



*Note: R_m - Rating according to BS EN ISO 717-1: 1997