

The Jockey Club CPS Limited

Central Police Station Conservation
and Revitalisation Project:
First Annual EM&A Review Report
(1 November 2011 to 31 October
2012)

Issue Date: October 2013

Environmental Resources Management

16/F



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Reference 0095646

For and on behalf of ERM-Hong Kong, Limited
Approved by: <u>Frank Wan</u>
Signed: <u></u>
Position: <u>Partner</u>
Certified by: <u></u> (Environmental Team Leader – Winnie Ko)
Date: <u>28 October 2013</u>

This report has been prepared by ERM-Hong Kong, Limited with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

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Date: 11 November 2013

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By Email and Post

ERM-Hong Kong Limited,
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Attn: Ms Winnie Ko

Dear Winnie,

Central Police Station Conservation and Revitalization Project Verification of First Annual EM&A Report

We refer to your letter dated 8 November 2013 regarding the First Annual EM&A Report. Atkins China Ltd. verifies, in the capacity of Independent Environmental Checker, that the report, in principle, conforms the requirements provided in Section 10.5 of the EM&A Manual.

Yours sincerely,
For Atkins China Ltd.



Sharifah Or
Independent Environmental Checker

c.c. HKJC – Mr. Kenneth Lee,
Rocco Design Architect – Mr. Charles Kung,

By Email
By Email

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EXECUTIVE SUMMARY

The construction works of **Central Police Station Conservation and Revitalisation Project** commenced on 24 October 2011. This is the first annual Environmental Monitoring and Audit (EM&A) review report summarising the EM&A works carried out during the period from 1 November 2011 and 31 October 2012 in accordance with the EM&A Manual.

Environmental Monitoring and Audit Progress

A summary of the monitoring activities undertaken in this reporting period is listed below:

- Construction Noise Monitoring during normal weekdays at each monitoring station 60 times
- Joint Environmental Site Inspection 12 times
- Joint Heritage Site Inspection 12 times
- Landscape & Visual Monitoring 12 times
- Tree Inspection 13 times
- Vibration monitoring for demolition works 96 times
- Vibration monitoring for trial piling works 91 times
- Vibration monitoring for pipe/bored piling works 53 times
- Vibration monitoring for other construction works 143 times

Noise

60 sets of 30-minute construction noise measurements were carried out at each of the monitoring stations (NM2 and NM6) during normal weekdays of the reporting period. Seven exceedances of Action Level of construction noise (complaints received) were recorded during the reporting period. No exceedance of Limit Level of construction noise was recorded.

Cultural Heritage

Vibration measurements for demolition works were carried out for 96 times during the reporting period. 91 vibration measurement events for trial piling works and 53 vibration measurement events for pipe/bored piling works were undertaken during the reporting period. Additionally, a total of 143 numbers of vibration monitoring events for underpinning, strengthening and structural alteration works at Block 8 were carried out throughout the first construction year.

No exceedance of Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

Twelve monthly heritage site inspections were conducted and the Contractor has generally implemented the necessary protection measures as recommended.

Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. Thirteen monthly tree inspections have been conducted by the arborist during the reporting period. Most recommended actions have been performed by the Contractor as advised in the reporting period.

Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. 3869.06 tonnes of inert C&D materials and 336.02 tonnes of non-inert C&D materials were generated during the reporting period. The non-inert C&D materials and general refuse generated from the Project were disposed of at the SENT Landfill. 255,393 kg of metals, 1410 kg of paper/cardboard packaging and 6 kg of plastics waste were produced and sent to recyclers for recycling. 7040 kg of solid chemical waste and 45 L of liquid chemical waste were generated and collected by licenced chemical waste collector during the reporting period.

Environmental Site Inspection

Twelve joint environmental site inspections were carried out by the representatives of the Contractor, the IEC and the ET during the reporting period. The Contractor has generally implemented the mitigation measures as recommended.

Environmental Exceedance/Non-conformance/Compliant/Summons and Prosecution

Seven exceedances of the Action Level of construction noise (complaints received) were recorded during the reporting period. No exceedance of the Limit Level of construction noise was recorded at designated monitoring stations during the reporting period.

No exceedance of the Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

One enquiry was received during the reporting period.

No non-compliance event was recorded during the reporting period.

Seven complaints were received during the reporting period.

No summons/prosecutions were received in this reporting period.

ERM-Hong Kong, Limited (ERM) was appointed by the Jockey Club CPS Limited (the CPS Ltd) as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme for the **Central Police Station Conservation and Revitalisation Project** (the Project).

1.1 PURPOSE OF THE REPORT

This is the first annual EM&A review report, which summarises the impact monitoring results and audit findings for the EM&A programme during the first year of the construction period from 1 November 2011 to 31 October 2012.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1 : Introduction

details the scope and structure of the report.

Section 2 : Project Information

summarises background and scope of the Project, site description, project organization and contract details, construction programme, the construction works undertaken and the status of Environmental Permit(s)/License(s) during the reporting period.

Section 3 : Environmental Monitoring Requirements

summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, Event/ Action Plans, environmental mitigation measures as recommended in the EIA report, and relevant environmental requirements.

Section 4 : Implementation Status on Environmental Mitigation Measures

summarises the implementation of environmental protection measures during the reporting period.

Section 5 : Monitoring Results

summarises the monitoring and waste management results obtained in the reporting period.

Section 6 : Environmental Site Inspection

summarises the audit findings of the monthly site inspections undertaken within the reporting period.

Section 7: **Environmental Non-conformance**

summarises any monitoring exceedance, environmental complaints and environmental summons received within the reporting period.

Section 8: **Review of the EM&A Data and EIA Predictions**

compares the monitoring data and waste quantity against predictions in the approved Project EIA report.

Section 9: **Conclusions**

2 PROJECT INFORMATION

2.1 BACKGROUND

The Chief Executive (CE)'s 2007-2008 Policy Address highlighted revitalisation as the guiding principle of heritage conservation and the Project was among one of the specific proposals put forward by the CE in the same Policy Address. At the meeting of the Executive Council (ExCo) on 15 July 2008, the ExCo advised and the CE ordered that Government should enter into a partnership with the Hong Kong Jockey Club (HKJC) in the form of an agreement (or agreements) to take forward the conservation and revitalisation of the CPS project based on various guiding parameters. The Project is now being undertaken in partnership with the Development Bureau of the HKSAR Government. The HKJC has taken on board the decision at the ExCo meeting and further investigated the design and implementation of the Project. The Project is now implemented by the CPS Limited.

2.2 SITE DESCRIPTION

The location of the Project Site is shown in *Annex A1*. The Site is bounded by Hollywood Road to the north, Arbuthnot Road to the east, Chancery Lane to the south and Old Bailey Street to the west.

The Site comprises three Declared Monuments designated under the *Antiquities and Monuments Ordinance* in 1995. They are:

- Central Police Station;
- Former Central Magistracy; and
- Victoria Prison Compound.

They are collectively named the Central Police Station (CPS). *Annex A2* shows the location of the Declared Monuments within CPS and the buildings within the CPS.

2.3 CONSTRUCTION ACTIVITIES

A summary of the major construction activities undertaken in this reporting period is shown in *Table 2.1*.

Table 2.1 Summary of Construction Activities undertaken in this Reporting Period

Construction Activities Undertaken	
1st Quarter	
•	Erection of hoarding/ site gantry at Arbutnot Road
•	Precautionary works to buildings to be demolished (including Block 16&18, Minor Buildings and Revetment Wall)
•	Precautionary works for asbestos removal
•	Sundry enabling/opening up works
•	Trial pit setting out works
•	Demolition works (Phase 1) – Block 8A & 18 and minor structures
•	Precautionary works to buildings to be demolished (Phase 2)
•	Asbestos removal (Phase 1)
	Precautionary works for Asbestos removal (Phase 2)
2nd Quarter	
•	Demolition works (Stage 1 and 2)
•	Modification of site gantry and forming of car ramp
•	Asbestos abatement work (Phase 2)
•	Sundry enabling/opening up works
•	Trial pit excavation works
•	Installation of piezometers
•	Trial piling works and preservation by record
3rd Quarter	
•	Demolition works (Stage 2)
•	Underpinning works, strengthening works and structural alteration works (Blocks 8 and Block 17);
•	Trial piling works (including grouting works); and
•	Preservation by record.
4th Quarter	
•	Underpinning works, strengthening works and structural alteration works at Block 8;
•	Trial piling works (loading test) near Block 14;
•	Trial piling works near Block 17;
•	Piling works at Old Bailey Wing (OBW);
•	Demolition works at the G/F of Block 17;
•	Preservation by record at the G/F of Block 17;
•	Ground improvement (grouting) works at Block 17;
•	Demolition works at Block 8 (internal wall and slab); and
•	Scaffolding erection at Block 1

2.4 CONSTRUCTION PROGRAMME

The most updated construction programme for the Project is presented in *Annex H*.

2.5 PROJECT ORGANISATION AND MANAGEMENT STRUCTURE

The Project organization chart, hotline number and contact details are shown in *Annex B*.

2.6

STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project since the granting of the EP in April 2011 is presented in *Table 2.2*.

Table 2.2 Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Environmental Permit (EP)	EP-408/2011	-	superseded by EP-408/2001/A
	EP-408/2011/A	-	superseded by EP-408/2001/B
	EP-408/2011/B	Throughout the Contract	Permit granted on 22 March 2012
Notification of Construction Works as required under <i>Air Pollution Control (Construction Dust) Regulation</i>	Ref. No. 332920	Throughout the Contract	-
Registration of Waste Producer under <i>Waste Disposal Ordinance</i>	Waste Producer No.: 5213-122-G2347-25	Throughout the Contract	-
Effluent Discharge License under <i>Water Pollution Control Ordinance</i>	License No. WT00010633-2011	21 Oct 2011 - 31 Oct 2016	-
Notification of Commencement of Asbestos Abatement Work under <i>Air Pollution Control Ordinance</i>	-	Throughout the Contract	EPD's letter (EPD's ref.: (5) in EPAC/A/4/000/23 3 II) dated 2 December 2011 satisfied that the content of the asbestos abatement plan (Report No.: 0210/11/ED/0078A) is in accordance with the APCO
Approval of Asbestos Abatement Work (Phase 2)	-	Earliest commencement date on 26 January 2012.	EPD's letter (EPD's ref.:() in EPAC/A/4/000/23 3) dated 18 January 2012.
Construction Noise Permit (CNP)	GW-RS0734-12	11 July 2012 at 0200 hours to 2 August 2012 at 0400 hours	Expired.
	GW-RS0839-12	13 August 2012 at 1900 hours to 31 December 2012 at 0700 hours	Expired.

3.1 NOISE MONITORING

3.1.1 Monitoring Location

The construction noise monitoring locations are given in *Table 3.1* and shown in *Annex C*.

Table 3.1 Construction Phase Noise Monitoring Locations

Monitoring Location	Proposed Construction Noise Monitoring Station			
	ID in EM&A Manual	ID	Type of Measurement	Remark
Rooftop of Ho Fook Building	N2	NM2	Façade	-
Rooftop of Chancery Mansion	---	NM6	Façade	Accesses to the original proposed monitoring location in the EM&A Manual, Chancery House (N5), were rejected; alternative location of Chancery Mansion (N6), were therefore proposed and approved by the Authorised Person (AP), the Independent Environmental Checker (IEC) and EPD.

The noise sensitive receivers are also shown in *Annex C*.

3.1.2 Monitoring Parameters, Frequency and Programme

Weekly construction noise monitoring was conducted in accordance with the requirements stipulated in the EM&A Manual.

The construction noise levels were measured in terms of A-weighted equivalent continuous sound pressure level (L_{eq}) in decibels dB(A). $L_{eq(30min)}$ were used as the monitoring parameter for the time period in between 0700 – 1900 hours on normal weekdays. Supplementary information for data auditing, two statistical sound levels L_{10} and L_{90} ; the levels exceeded for 10 and 90 percent of the time respectively, were also recorded during the monitoring for reference. The measured noise levels were logged in every 5 minutes throughout the impact monitoring period.

3.1.3 Monitoring Equipment and Methodology

Construction noise measurements were conducted in accordance with the calibration and measurement procedures as stated in *Annex – General Calibration and Measurement Procedures of Technical Memorandum on Noise from Construction Work other than Percussive Piling (GW-TM)* issued under the *Noise Control Ordinance (NCO) (Cap 400)*.

The sound level meters and calibrator used for the noise measurement, as listed in *Table 3.2*, complies with IEC 651: 1979 and 804:1985 (Type 1) specification. The calibration certificates of the sound level meters are included in *Annex D*.

Table 3.2 *Noise Monitoring Equipment*

Monitoring Stations	Monitoring Equipment (Sound Level Meter and Calibrator)
NM2, NM6	<u>Calibrator</u> Rion NC-73 (S/N 10997142)
	<u>Sound Level Meter</u> Rion-NA27 (S/N 00201194)
	Rion-NL52 (S/N 00710259)
	Rion NL-31 (S/N 00603867)

Immediately prior to and following the noise measurements, the accuracy of the measurement equipment was checked using an acoustic calibrator generating a known sound pressure level at a known frequency.

Measurements were accepted as the calibration level from before and after the noise measurement agree to within 1.0 dB.

3.1.4 *Event / Action Plan*

Table 3.3 *Action and Limit Levels for Construction Noise Monitoring*

Noise Monitoring Location	Action Level	Limit Level, $L_{eq(30mins), dB(A)}$	Remark
NM2, NM6	When one documented complaint is received from any one of the sensitive receivers	75 (note)	Applicable during 0700 – 1900 hours on normal weekdays.

Notes:

- Acceptable Noise Levels for Area Sensitivity Rating of A/B/C. Limit Level is reduced to 70dB(A) for schools and 65dB(A) during school examination periods.
- If works are to be carried out during restricted hours, the conditions stipulated in the CNP issued by the NCA have to be followed.

The Event / Action Plan (EAP) for noise monitoring is presented in *Annex E*.

3.1.5 *Mitigation Measures*

The mitigation measures in accordance with the EP, EIA and EM&A Manual and their implementation status are presented in *Annex F*.

3.2 CULTURAL HERITAGE

3.2.1 Vibration Monitoring

In accordance with the EM&A Manual, vibration monitoring is required and the vibration control limits and vibration monitoring proposal are defined by a specialist for AMO's approval.

Baseline Monitoring

A set of initial readings should be recorded prior to commencement of each stage of demolition works or trial piling works. The baseline vibration monitoring should be conducted for duration of 5 minutes on the measurement day(s) at each vibration monitoring location.

Vibration Monitoring for Demolition Works

There are five phases/stages of vibration monitoring to be carried out for demolition works, namely Initial Reading Phase, Monitoring Stage 1, Monitoring Stage 2, Monitoring Stage 3 and Monitoring Stage 4. The monitoring location is shown in *Annex K*. The vibration monitoring should be conducted for duration of 5 minutes on the days with demolition works at each vibration monitoring location.

Vibration Monitoring for Trial Piling and Pipe/Bored Piling Works

Vibration monitoring for trial piling works and pipe/bored piling works is required. The monitoring location is shown in *Annex K*. The vibration monitoring should be conducted for duration of 5 minutes on the days with trial piling works or pipe/bored piling works at each vibration monitoring location.

Vibration Monitoring for Other Construction Works

Vibration monitoring for specific construction works other than demolition works, trial piling works and pipe/bored piling works is also required in accordance with Building Department's requirement. The monitoring location is shown in *Annex L*. The number and location of monitoring location will depend on the location of the specific construction works. The vibration monitoring should be conducted for duration of 5 minutes on a daily basis (working day) at each vibration monitoring location.

Alert, Alarm and Action Levels

The Alert, Alarm and Action (AAA) Levels are to be implemented during the vibration monitoring and shown in *Table 3.4*.

Table 3.4 *Alert, Alarm and Action (AAA) Levels for Vibration Monitoring*

Instrument Type	Item Monitored	Alert Level	Alarm Level	Action Level
Vibration Monitoring	Horizontal Movement	2.0 mm/s	2.5 mm/s	3.0 mm/s

The Event / Action Plan (EAP) for vibration monitoring is shown in *Table 3.5*.

Table 3.5 *Event and Action Plan for Vibration Monitoring*

Events	Action
Exceedance of Alert Level	Notify Management Contractor
Exceedance of Alarm Level	Notify Authorised Person/ Resident Engineer
Exceedance of Action Level	Cease Works and submit mitigation

3.2.2 *Mitigation Measures*

Cultural heritage mitigation measures in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor and the implementation status is given in *Annex F*.

3.3 *LANDSCAPE AND VISUAL MONITORING*

In accordance with the EM&A Manual, inspections of affected trees were conducted by an experienced and appropriately trained arborist. All irregularities that deviate from the recommended tree protection measures or could impose deleterious impacts on the protected trees were reported. Besides, implementation of mitigation measures for landscape and visual resources recommended in the EIA Report were also monitored during the site inspection.

3.3.1 *Mitigation Measures*

Landscape and visual mitigation measures in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor and the implementation status is given in *Annex F*.

3.4 *ENVIRONMENTAL REQUIREMENTS IN CONTRACT DOCUMENTS*

The environmental requirements as specified in the contract documents were reviewed and were covered in the EIA's requirements.

IMPLEMENTATION STATUS ON ENVIRONMENTAL MITIGATION MEASURES

The Contractor has generally implemented the environmental mitigation measures and requirements as stated in the EIA Report, EM&A Manual, EP and the contract documents. The implementation status during the reporting period is summarised in *Annex F*.

Status of required submissions under the EP during the reporting period is presented in *Table 4.1*.

Table 4.1 *Status of Required Submissions*

<i>EP Condition</i>	Submission	Submission Date
Condition 1.11	Notification on Commencement of Construction of the Project	8 September 2011
Conditions 2.1 and 2.2	Notification on ET Leader and IEC employed	2 September 2011
Condition 2.3	<ul style="list-style-type: none"> • Deposition of "Proposal of Procedures for Handling Enquiries, Complaints and Request for Information Concerning the Environmental Effects of Construction Works of the Project" • Revised Proposal of Handling Procedures for Enquiries, Complaints and Request for Information Concerning the Environmental Effects of Construction Works of the Project • Proposal of Procedures for Handling Enquiries, Complaints and Request for Information Concerning the Environmental Effects of Construction Works of the Project 	23 November 2011 13 January 2012 6 March 2012
Condition 2.4	Notification on Management Organization of the Main Construction Company	6 October 2011
Condition 2.5	Deposition of Construction Programme and Location Plan	7 October 2011
Condition 3.3	Baseline Monitoring Report	7 October 2011
	Revised Baseline Monitoring Report	1 February 2012
Conditions 3.4	<ul style="list-style-type: none"> • First Monthly EM&A Report • Second Monthly EM&A Report • Third Monthly EM&A Report • Fourth Monthly EM&A Report • Fifth Monthly EM&A Report • Sixth Monthly EM&A Report • Seventh Monthly EM&A Report • Eighth Monthly EM&A Report • Ninth Monthly EM&A Report • Tenth Monthly EM&A Report • Eleventh Monthly EM&A Report 	14 December 2011 14 January 2012 14 February 2012 14 March 2012 17 April 2012 14 May 2012 14 June 2012 17 July 2012 14 August 2012 14 September 2012 17 October 2012
Appendix, Part A, Condition 2(d)	Cartographic Drawings and Photographic Records of Building 5, 16 & 18	18 January 2012

	Submission	Submission Date
Appendix, Part A (2) (i)	Submission of Archaeological Investigation Report	20 September 2011
Appendix, Part A, Condition 2(k)	<ul style="list-style-type: none"> • Method Statement for Vibration Monitoring for Demolition Works • Baseline Condition Survey Report • Baseline Vibration Impact Monitoring Report for Demolition Works • Vibration Monitoring Proposal for Trial Piling Works 	19 January 2012 31 January 2012 13 February 2012 22 March 2012
Appendix, Part A (2) (l)	Audit Proposal on Heritage Aspect Audit Proposal on Heritage Aspect (Revised)	21 October 2011 24 February 2012
<i>EM&A Manual</i>		
Section 8.2	Waste Management Plan (Revised)	24 February 2012
Section 10.4	First Quarterly EM&A Report	9 March 2012
	Second Quarterly EM&A Report	14 June 2012
	Third Quarterly EM&A Report	5 September 2012
<i>Others</i>		
	Application for Variation of the EP (VEP-350/2011)	20 December 2011
	Application for Variation of the EP (VEP-357/2012)	8 March 2012

5.1 NOISE

A total of 60 sets of 30-minute construction noise measurements were carried out at each monitoring station, NM2 and NM6, during normal weekdays of the reporting period. The monitoring results together with graphical presentations are presented in *Annex G*. The local impacts observed near the monitoring stations of NM2 and NM6 were summarised below:

- NM2: construction noise from activities in the Project Site and traffic noise from Old Bailey Street.
- NM6: construction noise from activities in the Project Site and traffic noise from Chancery Lane.

No exceedance of Limit level of construction noise was recorded during the reporting period. Seven exceedances of Action Level of noise (complaints received) were recorded. Investigations of the exceedances are presented in *Annex J*.

5.2 LANDSCAPE AND VISUAL MONITORING

Monthly tree inspections were conducted by the arborist during the reporting period and key findings and recommendations are summarised in *Table 5.1*.

Table 5.1 Major Findings of Monthly Tree Inspections in the Reporting Period

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observation / Recommendations
<i>1st Quarter (27 Oct 2011, 24 Nov 2011, 19 Dec 2011 and 30 Jan 2012)</i>			
Tree -5	<i>Mangifera indica</i>	Good	<ul style="list-style-type: none"> • To keep the planter clean and tidy • To keep the scaffold a reasonable distance from the tree • To display a sign of "Tree Protection Zone" in front of wire-netted fence.
Tree -6	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> • To keep the planter clean and tidy
Tree-7	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> • To keep the planter clean and tidy • To keep the scaffold a reasonable distance from the tree.
Tree-8	<i>Plumeria rubra</i>	Fair	<ul style="list-style-type: none"> • No further action required.
Tree-9	<i>Araucaria cunninghamia</i>	Fair	<ul style="list-style-type: none"> • No further action required.
Tree-11	<i>Dracaena marginata</i>	Fair	<ul style="list-style-type: none"> • To install protective fence 1.2m height surrounding the tree and fence wraps with reflex mesh • To erect protective fence 2.5m high

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observation / Recommendations
			beyond the crown spread or the designated protection zone of all existing trees. The protection fence shall come with a padlocked door, access to it shall be restricted only to workers directly involved in tree work. No construction equipment or materials shall breach the cordon zone (CZ). No heat or fume shall drift into the CZ. No lifted materials shall sail above the CZ.
2nd Quarter (24 Feb, 19 Mar and 17 Apr 2012)			
Tree -5	<i>Mangifera indica</i>	Good	<ul style="list-style-type: none"> To trim the lower branches To remove all undergrowth
Tree -6	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> To trim the lower branches
Tree-7	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> To trim the lower branches
Tree-8	<i>Plumeria rubra</i>	Fair	<ul style="list-style-type: none"> No further action required.
Tree-9	<i>Araucaria cunninghamia</i>	Fair	<ul style="list-style-type: none"> No further action required.
Tree-11	<i>Dracaena marginata</i>	Fair	<ul style="list-style-type: none"> To remove dead branches
3rd Quarter (21 May, 7 Jun and 19 Jul 2012)			
Tree -5	<i>Mangifera indica</i>	Good	<ul style="list-style-type: none"> To trim the lower branches
Tree -6	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> Overgrown branches/leaves were observed and later pruned on 1 Jun 2012.
Tree-7	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> Overgrown branches/leaves were observed and later pruned on 1 Jun 2012.
Tree-8	<i>Plumeria rubra</i>	Fair	<ul style="list-style-type: none"> No further action required.
Tree-9	<i>Araucaria cunninghamia</i>	Fair	<ul style="list-style-type: none"> No further action required.
Tree-11	<i>Dracaena marginata</i>	Fair	<ul style="list-style-type: none"> To remove the dead branches
4th Quarter (20 Aug, 6 Sep and 9 Oct 2012)			
Tree -5	<i>Mangifera indica</i>	Good	<ul style="list-style-type: none"> Lower branches were pruned on 20 Aug 2012
Tree -6	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> Cracks at the planter were observed in August and September and repaired in October
Tree-7	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> Cracks at the planter were observed in August and September and repaired in October
Tree-8	<i>Plumeria rubra</i>	Fair	<ul style="list-style-type: none"> No further action required.
Tree-9	<i>Araucaria cunninghamia</i>	Fair	<ul style="list-style-type: none"> No further action required.
Tree-11	<i>Dracaena marginata</i>	Fair	<ul style="list-style-type: none"> Dead branches pruned on 20 Aug 2012

Follow-up actions needed to be implemented were recommended to the Contractor and the status of the follow-up actions was reviewed during the subsequent monthly site inspections. Recommendations have generally been implemented by the Contractor during the reporting period.

5.3 CULTURAL HERITAGE

5.3.1 Vibration Monitoring

Demolition works

An Initial Reading Phase monitoring (ie baseline monitoring) at each monitoring station for Stage 1 monitoring was conducted on 23 December 2011. Baseline monitoring was conducted on 24 February 2012 for Stage 2 demolition works. A summary of vibration monitoring for demolition works in the reporting period is presented in *Table 5.2*.

Table 5.2 Summary of Vibration Monitoring for Demolition Works

Month/ Date	Works Locations	Number of monitoring at monitoring station
7 – 17 Jan 2012	Buildings E, F, G, H, N, R, 18 and 8a	9
9 – 18 Feb 2012	Fence wall along Old Bailey Street, the revetment wall and Block E	7
Mar 2012	Wall 10 near Building 18, spiral staircase, Building 16, J, K.	20
Apr 2012	Building B, C, D, L and M, Building 16, revetment wall and preparation wall 12	20
May 2012	Building M and Wall 12	26
Jun 2012	Building M and Building P	14

The records of vibration monitoring are shown in *Annex K*.

Trial piling / piling works

A summary of vibration monitoring for trial piling and piling works in the reporting period is presented in *Table 5.3*.

Table 5.3 Summary of Vibration Monitoring for Trial Piling and Piling Works

Month/ Date	Works Locations	Number of monitoring at monitoring station
Apr 2012	Trial piling works near Block 17	20
May 2012	Trial piling works near Block 17	26
Jun 2012	Trial piling works near Block 17	20
Aug 2012	Trial piling works near Block 17	1
	Piling works at Block 50	16
Sep 2012	Piling works at Block 50	13
Oct 2012	Trial piling works near Block 17	24
	Piling works at Block 50	24

The records of vibration monitoring for trial piling and piling works are shown in *Annex K*.

Other construction works

A summary of vibration monitoring for underpinning, strengthening and structural alteration works at Block 8 in the reporting period is presented in *Table 5.4*.

Table 5.4 *Summary of Vibration Monitoring for Other Construction Works*

Month/ Date	Works Locations	Number of monitoring at monitoring station
Apr 2012	Block 8	5
May 2012	Block 8	26
Jun 2012	Block 8	25
Jul 2012	Block 8	23
Aug 2012	Block 8	22
Sep 2012	Block 8	18
Oct 2012	Block 8	24

The monitoring results for other construction works are presented in *Annex L*.

All monitoring results were below the Alert/ Alarm/ Action Levels throughout the first construction year.

5.3.2 *Heritage Site Audit*

Monthly heritage site audits were conducted by the Heritage Checker. Observations and recommendations were made to the Contractor during the site audit and follow-up actions were generally undertaken in the subsequent monthly site audit. Key site audit findings and recommendations for each month are summarised in *Annex M*.

A summary of the current condition of character defining elements, historic buildings and structures is contained in *Annex M*.

5.4 *WASTE MANAGEMENT*

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. Non-inert C&D materials were made up of wastes such as general refuse, which were disposed of at the SENT landfill. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the first construction year are summarised in *Table 5.5*. The summary of Waste Flow Table prepared by the Contractor is shown in *Annex I*.

Table 5.5 Quantities of Waste Generated from the Project

Month / Year	Quantity						
	C&D Materials (inert) (tonnes) ^(a)	C&D Materials (non-inert) (tonnes) ^(b)	Chemical Waste		Recycled materials		
			Liquid (L)	Solid (kg)	Paper/cardboard (kg)	Plastics (kg)	Metals (kg)
Oct – Nov 2011	0	33.5	0	0	38	6	36,423
Dec 2011	0	18.25	0	0	112	0	24,000
Jan 2012	338.3	16.88	0	2400 ^(c)	0	0	3,820
Feb 2012	222.08	17.13	0	1,400	223	0	8,910
Mar 2012	666.43	28.56	0	3,200	0	0	48,490
Apr 2012	688.68	17.54	0	0	0	0	124,030
May 2012	492.33	36.33	0	0	266	0	0
Jun 2012	383.11	27.41	45	40	0	0	1,100
Jul 2012	217.98	23.22	0	0	302	0	1,750
Aug 2012	341.87	48.87	0	0	0	0	2,310
Sep 2012	227.70	37.99	0	0	383	0	1,410
Oct 2012	290.58	30.34	0	0	86	0	3,150
Total	3,869.06	336.02	45	7,040	1,410	6	255,393

Notes:

- (a) Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil.
- (b) Non-inert C&D materials include wastes such as general refuse which were disposed of at SENT Landfill and recyclable materials are paper, cardboard, plastics and metals. The figure presented under non-inert C&D materials represents quantities of non-recyclable materials. Recycled materials are reported separately.
- (c) Asbestos removed from asbestos abatement work in January 2012.

5.5

EFFECTIVENESS OF MITIGATION MEASURES AND MONITORING

The mitigation measures recommended in the EIA report and required by the EP are considered effective in minimising environmental impacts.

The EM&A for the Project was conducted as scheduled during the first construction year. No non-compliance events were observed during site inspections and no exceedances of limit levels were recorded. The EM&A programme is considered effective.

Monthly environmental site inspections were conducted by the representatives of the Contractor, IEC and the ET. There was no non-compliance recorded during the site inspections for the first year of the construction period. Key site audit findings and recommendations are summarised below. Monthly recommendations and observations were implemented and rectified by the Contractor in the subsequent monthly site inspections.

15 November 2011

- The EP was found to be displayed only at the vehicle entrance. The Contractor was recommended to display the EP at all entrances (including the staff and worker entrance).
- A sweeper and plastic garbage bag were observed near tree to be protected (T7) at the Prison Yard. The Contractor was recommended to remove the sweeper immediately and to avoid placing or store any equipment/ materials on the root of the trees to be protected.
- The waste skips at the Parade Ground were found not labelled. The Contractor was recommended to provide proper labels to all waste skips.
- An unused chemical store was found not labelled at the material storage area at the Parade Ground. The Contractor was recommended to provide proper labelling to the chemical store according to the EPD's Code of Practice on the Packaging, Handling and Storage of Chemical Wastes.

20 December 2011

- An opening without cover was observed on a water barrier at the Prison Yard. The Contractor was reminded to cover the opening to avoid the accumulation of stagnant water during rain event.
- The chemical waste store at the Parade Ground was observed to be surrounded by obstacles. The Contractor was recommended to provide proper access to the chemical waste store and relocate the obstacles.

17 January 2012

- Recycling water storage tank filled with water was observed near the General Office (Block 18), Ablutions Block (Block 8) and F Hall (Block 17). The Contractor was reminded to clear the storage water or to provide cover to the water storage tank to prevent mosquito breeding.

21 February 2012

- Nil.

20 March 2012

- Nil.

19 April 2012

- Two drums near Block 17 used as sedimentation tanks were observed with stagnant water inside. The Contractor was advised to remove water in the drums after each usage to avoid mosquito breeding.

16 May 2012

- Stagnant water was observed in the yellow rubbish bin near the site office. The Contractor was reminded to remove the stagnant water and cover the holes on all rubbish bins on site with plastic sheet to prevent water entering the rubbish bins.
- Stockpile of soil was observed near the Arbuthnot Wing. The Contractor was recommended to cover the temporary stockpile of soil with impervious sheet to avoid fugitive dust emission and the generation of muddy water during raining season.
- No noise barrier or noise insulating sheet was provided for the trial piling works during the site inspection. The Contractor was reminded to implement proper noise mitigation measures to reduce the noise impact.

15 June 2012

- Nil.

12 July 2012

- Nil.

9 August 2012

- Leaves were observed accumulating in the U-channel near Block 3. The Contractor was reminded to clean the U-channel more frequently.

18 September 2012

- Some Waste Electrical and Electronic Equipment (WEEE) were observed being stored with the C&D materials in Block 17 during the site inspection. The Contractor was reminded to store WEEE separately from the C&D materials and arrange appropriate recycling or disposal of these wastes.

18 October 2012

- Handling of metal materials was observed in the open area near Block 3. The Contractor was reminded to handle the metal materials with care to avoid the generation of noise nuisance.

7 ENVIRONMENTAL NON-CONFORMANCE

7.1.1 Summary of Monitoring Exceedance

Seven exceedances of Action Level of construction noise (complaints received) were recorded in the first construction year. No exceedance of Limit Level of construction noise or Alert, Alarm and Action Level of vibration was recorded.

7.1.2 Summary of Enquiry

One enquiry was recorded in the first year of the construction period. On 22 May 2012, an enquiry letter from residents at Mood@Soho on start time of construction work was received by Gammon Construction Limited (GCL). The enquiry was raised whether the construction works can be delayed 30 minutes to an hour each day for heavy/noisy machinery. GCL has liaised with the managing agent of Mood@Soho, and a written reply to the enquiry has been provided by GCL to the management office of Mood@Soho. The letter of reply is presented in *Annex J*.

7.1.3 Summary of Environmental Non-Compliance

No non-compliance event was recorded during the reporting period.

7.1.4 Summary of Environmental Complaint

Seven complaints were received during the reporting period. They are summarised in *Table 7.1*.

Table 7.1 Summary of Complaint Received

Date	Means by which complaint was received	Nature of complaint
2 March 2012	Gammon Construction Limited	Noise and glare nuisance
7 March 2012	Gammon Construction Limited	Noise nuisance
22 March 2012	Hong Kong Jockey Club	Noise nuisance
28 March 2012	Gammon Construction Limited	Noise nuisance
14 June 2012	Environmental Protection Department	Noise nuisance
28 June 2012	Central Police Station Website, Enquiry System	Noise nuisance
20 July 2012	Police	Noise nuisance

Cumulative number of complaints and the complaint investigation reports are presented in *Annex J*.

7.1.5 Summary of Environmental Summons and Successful Prosecution

No summons was received during the reporting period. The cumulative summons/prosecution log is shown in *Annex J*.

8.1 NOISE

A comparison was made between the monitoring results in this reporting period and the Noise Standard for general construction works during 0700 – 1900 hrs on normal weekdays (*Table 8.1*).

Table 8.1 Comparison of Construction Noise Standard and Noise Monitoring Results

Reporting Month	Monitoring Stations	Corresponding NSR in EIA	Noise Limit Level	Predicted Construction Noise Level (With Mitigation) in EIA	Measured Construction Noise Level
			L _{wq, 30 min} dB(A)	L _{wq, 30 min} dB(A)	L _{wq, 30 min} dB(A)
Oct - Nov 2011	NM2	N2	75	67 - 72	62.6 – 65.4
	NM6	N6	75	73 - 75	62.6 – 66.0
December 2011	NM2	N2	75	67 - 72	64.3 – 68.4
	NM6	N6	75	73 - 75	63.2 – 68.0
January 2012	NM2	N2	75	67 - 72	63.4 – 68.5
	NM6	N6	75	73 - 75	61.9 – 72.1
February 2012	NM2	N2	75	67 - 72	62.3 – 66.6
	NM6	N6	75	73 - 75	62.8 – 66.3
March 2012	NM2	N2	75	67 - 72	63.6 – 68.9
	NM6	N6	75	73 - 75	61.4 – 74.9
April 2012	NM2	N2	75	67 - 72	63.6 – 71.9
	NM6	N6	75	73 - 75	62.2 – 73.7
May 2012	NM2	N2	75	67 - 72	64.4 – 68.8
	NM6	N6	75	73 - 75	65.0 – 66.6
June 2012	NM2	N2	75	67 - 72	63.3 – 67.5
	NM6	N6	75	73 - 75	64.0 – 67.5
July 2012	NM2	N2	75	67 - 72	64.0 – 65.6
	NM6	N6	75	73 - 75	63.7 – 74.5
August 2012	NM2	N2	75	67 - 72	63.7 – 69.5
	NM6	N6	75	73 - 75	64.7 – 69.6
September 2012	NM2	N2	75	67 - 72	66.0 – 69.4
	NM6	N6	75	73 - 75	65.0 – 68.7
October 2012	NM2	N2	75	67 - 72	64.1 – 68.5
	NM6	N6	75	73 - 75	65.9 – 72.8

The monitoring results recorded since the commencement of the construction works have been well below the Limit Level and comparable to the predicted construction noise level in the approved EIA. Recommended mitigation measures in *Section 5.9.1* of EIA will continue to be implemented throughout the construction stage.

8.2 WASTE MANAGEMENT

The estimated amount of waste generated in the approved EIA and the accumulated quantities of waste generated up to this reporting period are presented in *Table 8.2*. The accumulated amount of inert and non-inert C&D

materials is within the estimated amount in EIA. The major chemical waste generated on site was primarily asbestos which was not estimated in the approved EIA and hence no data is available for comparison. Recommended mitigation measures in *Section 8.5.1* of the EIA will continue to be implemented throughout the construction stage.

Table 8.2 *Quantity of Actual Amount of C&D Materials, General Wastes and Chemical Wastes Generated and EIA Estimation*

Type of Material	Estimated Amount of Waste in EIA	Accumulated Actual Amount of Waste Recorded ^(a) ^(b)
Amount of C&D Materials (Inert) Arising	16,440 m ³	2120.63 m ³
Amount of C&D Materials (Non-inert) Arising	890 m ³	521.63 m ³
General Refuse	130 kg per day	- ^(c)
Chemical Waste	Less than 100L per month	- 45 L (June 2012) - 40 kg (June 2012) - 7,000 kg of asbestos generated

Notes:

(a) The accumulated actual amount of C&D Materials was recorded since the commencement of construction works.

(b) The volume of waste materials are provided by the Contractor based on the updated waste record in October 2012.

(c) The amount of general refuse generated was not recorded.

8.3

SUMMARY OF REVIEW

The EIA predictions and the monitoring results since the commencement of construction works have been reviewed. The EIA concluded that the Project would not cause adverse impacts to the environment and the monitoring results have also indicated the same so far. Mitigation measures recommended in the EP, EIA and EM&A Manual were implemented by the Contractor as far as practicable and were considered effective. The recommended mitigation measures will continue to be implemented throughout the construction phase of the Project.

The effectiveness of the monitoring programme has been exhibited therefore change to the programme is not considered to be necessary.

CONCLUSIONS

This first Annual EM&A review Report presents the EM&A works undertaken during the reporting period from 1 November 2011 to 31 October 2012 in accordance with EM&A Manual and the requirements under EP-408/2011/B.

Seven exceedances of Action Level of construction noise (complaints received) were recorded during the reporting period. No exceedance of Limit Level of construction noise was recorded at the monitoring stations during the reporting period.

Tree inspections were conducted in this reporting period. Most of the necessary landscape and visual mitigation measures recommended in the EIA Report were implemented by the Contractor.

No exceedance of the Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

One enquiry was received during the reporting period.

No non-compliance event for heritage and environmental site inspections was recorded during the reporting period.

Seven complaints were received during the reporting period.

No summons/prosecution was received during the reporting period.

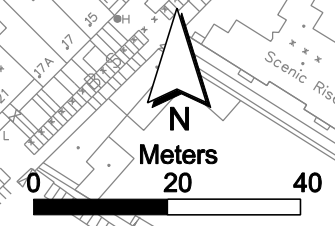
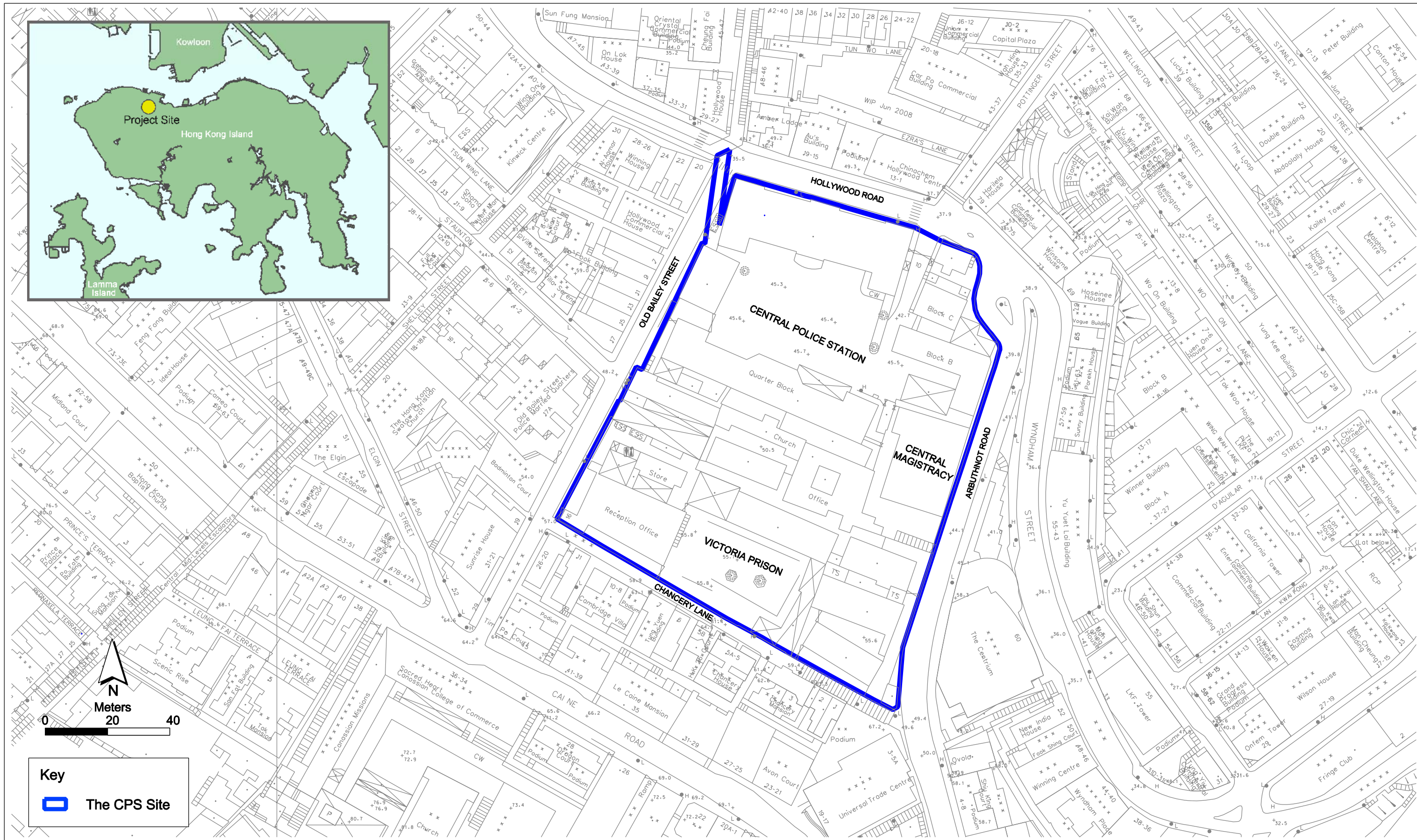
The monitoring programme was considered effective in reflecting the environmental conditions at the designated representative sensitive receivers. The monitoring results also indicate that the Project have not caused adverse impacts on the environment with implementation of appropriate mitigation measures. Change to the monitoring programme is not considered to be necessary. The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures in the coming periods.

Annex A


Location of Works Areas and the Surroundings

Annex A1

Project Location



Key

 The CPS Site

Annex A1

Project Location

**Environmental
Resources
Management**

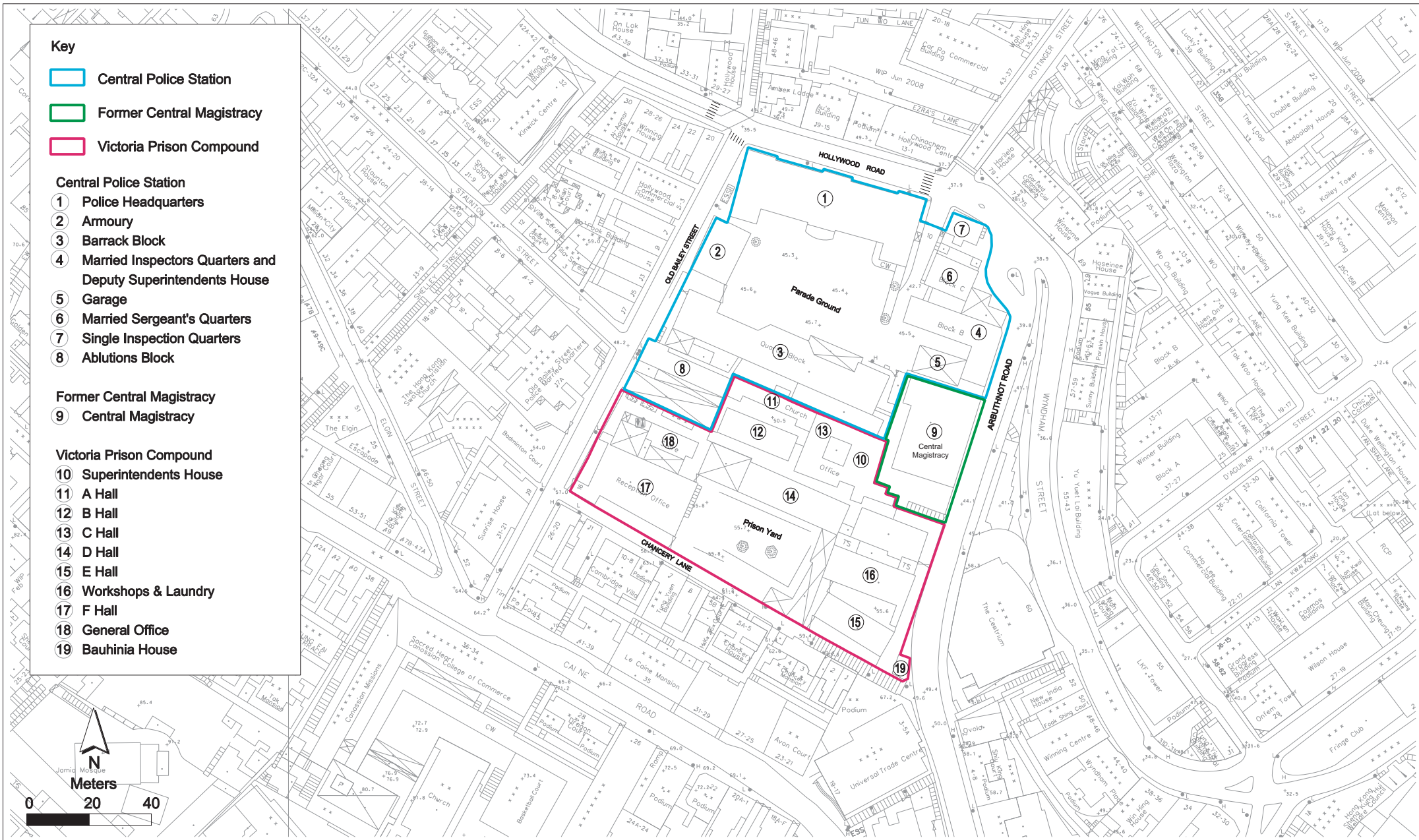


賽馬會文物保育有限公司
The Jockey Club CPS Limited

FILE: 0095646a-A3_01.dgn
DATE: 21/11/2011

Annex A2

Declared Monuments within the Project Site



Annex A2

Declared Monuments within the Project Site

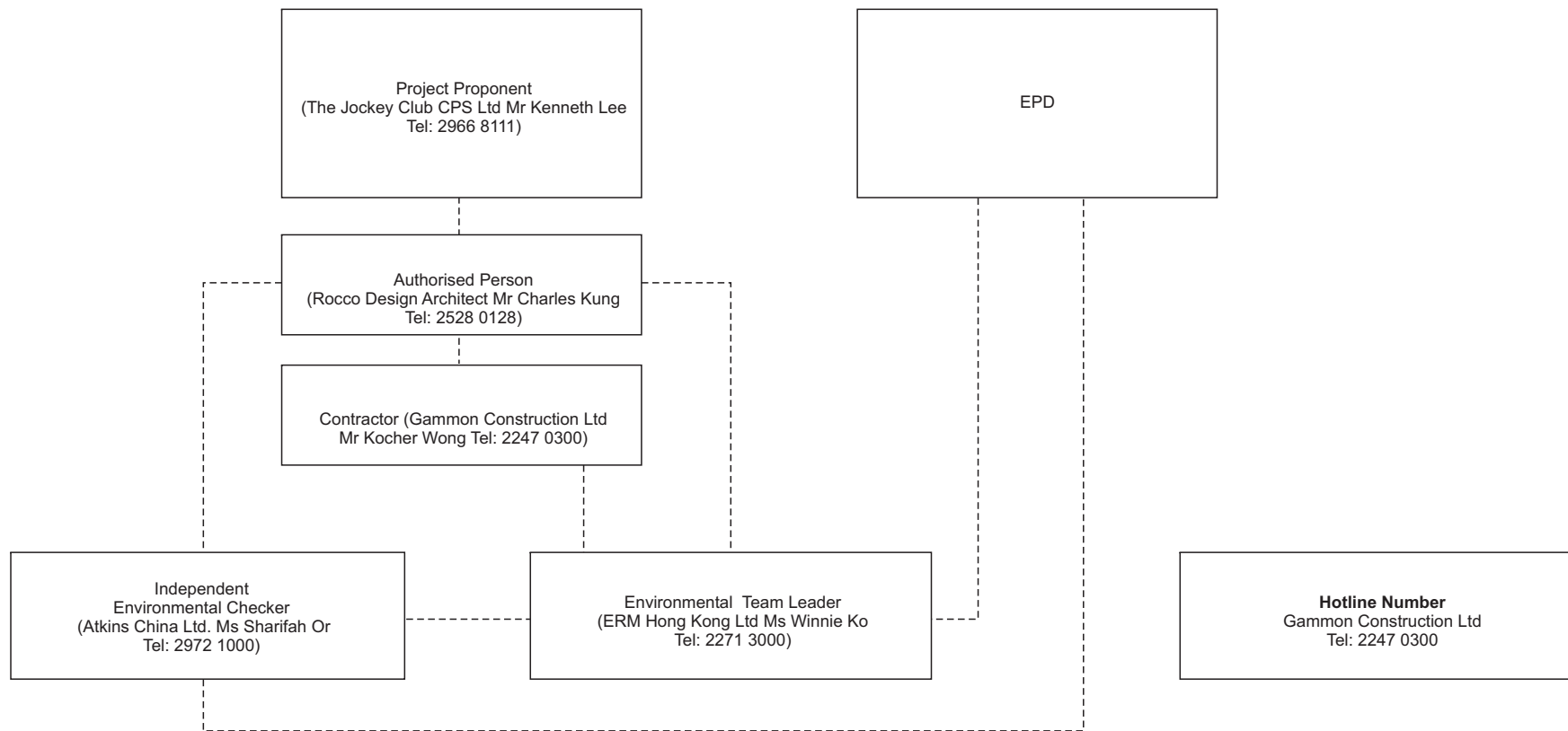
Environmental Resources Management



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Annex B

Project Organization Chart and Contact Detail



Key
 - - - - - Line of Communication

Annex C

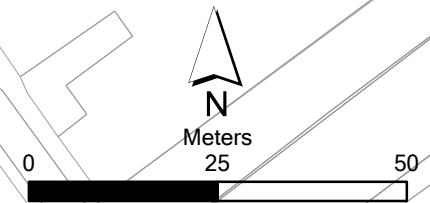
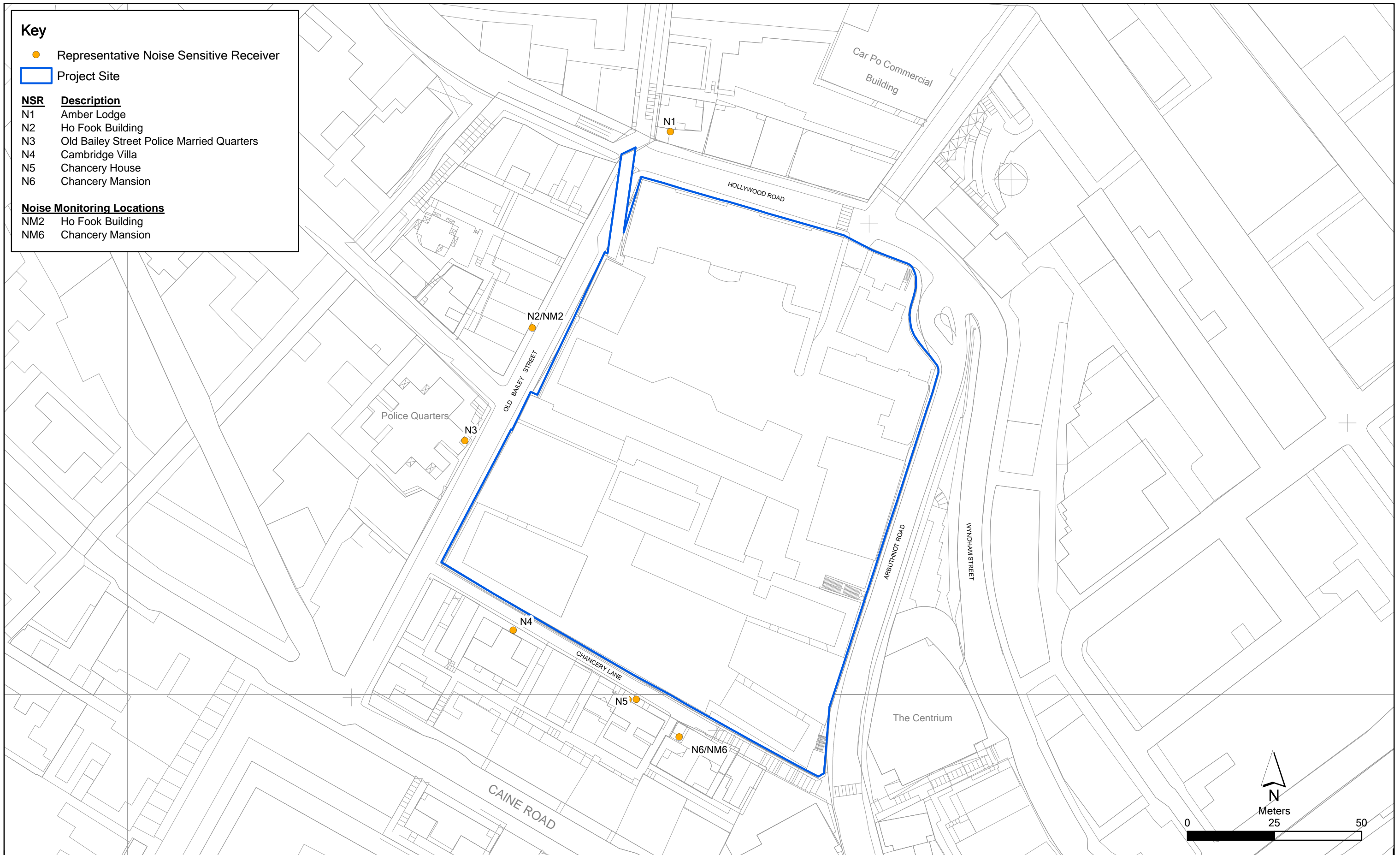
Locations of Noise
Monitoring Stations and
Noise Sensitive Receivers

Key

- Representative Noise Sensitive Receiver
- ▭ Project Site

NSR	Description
N1	Amber Lodge
N2	Ho Fook Building
N3	Old Bailey Street Police Married Quarters
N4	Cambridge Villa
N5	Chancery House
N6	Chancery Mansion

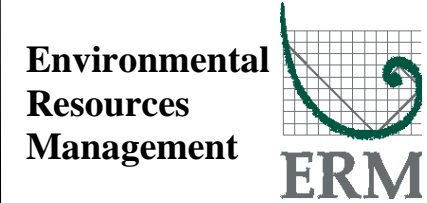
Noise Monitoring Locations	
NM2	Ho Fook Building
NM6	Chancery Mansion



Annex C

Location of Representative Noise Sensitive Receivers and Noise Monitoring Locations

File: 0095646_NSR_NM_May2012.mxd
Date: 09/05/2012



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The Jockey Club CPS Limited

Annex D

Calibration Reports for Calibrators and Sound Level Meters

Certificate No. : C114103

Certificate of Calibration

This is to certify that the equipment

Description : Precision Sound Level Meter

Manufacturer : Rion

Model No. : NA-27

Serial No. : 00201194

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C114103.*

The equipment is supplied by

Co. Name : Envirotech Services Co.

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong*

Date of Issue : 26 July 2011

Certified by :

K C Lee

Report No. : C114103

Calibration Report

ITEM TESTED

DESCRIPTION : Precision Sound Level Meter
MANUFACTURER : Rion
MODEL NO. : NA-27
SERIAL NO. : 00201194

TEST CONDITIONS

AMBIENT TEMPERATURE : $(23 \pm 2)^{\circ}\text{C}$ RELATIVE HUMIDITY : $(55 \pm 20)\%$
LINE VOLTAGE : ---

TEST SPECIFICATIONS

Calibration check

DATE OF TEST : 22 July 2011

JOB NO. : IC11-1826

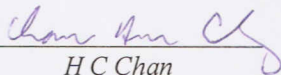
TEST RESULTS

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by :


H C Chan

Date : 26 July 2011

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration Report

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
2. Self-calibration was performed before the test.
3. The results presented are the mean of 3 measurement at each calibration point.

4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C110018
CL281	Multifunction Acoustic Calibrator	C1006860

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

6.1.1.1 Before Self-Calibration

UUT Setting			Applied Value		UUT Reading (dB)
Range (dB)	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 110	LA	Fast	94.00	1	94.1

6.1.1.2 After Self-Calibration

UUT Setting			Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 110	LA	Fast	94.00	1	94.0	± 0.7

6.1.2 Linearity

UUT Setting			Applied Value		UUT Reading (dB)
Range (dB)	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
60 - 120	LA	Fast	94.00	1	94.0 (Ref.)
			104.00		104.0
			114.00		114.0

IEC 60651 Type 1 Spec. : ± 0.4 dB per 10 dB step and ± 0.7 dB for overall different.

Calibration Report

6.2 Time Weighting

6.2.1 Continuous Signal

UUT Setting			Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 110	LA	Fast	94.00	1	94.0	Ref.
		Slow			94.0	± 0.1

6.2.2 Tone Burst Signal (2 kHz)

UUT Setting			Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration		
50 - 110	LA	Fast	106.00	Continuous	106.0	Ref.
	LAmx			200 ms	105.0	-1.0 ± 1.0
	LA	Slow		Continuous	106.0	Ref.
	LAmx			500 ms	102.0	-4.1 ± 1.0

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting			Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 110	LA	Fast	94.00	31.5 Hz	54.4	-39.4 ± 1.5
				63 Hz	67.8	-26.2 ± 1.5
				125 Hz	77.8	-16.1 ± 1.0
				250 Hz	85.3	-8.6 ± 1.0
				500 Hz	90.7	-3.2 ± 1.0
				1 kHz	94.0	Ref.
				2 kHz	95.2	$+1.2 \pm 1.0$
				4 kHz	95.0	$+1.0 \pm 1.0$
				8 kHz	92.9	$-1.1 (+1.5 ; -3.0)$
				12.5 kHz	89.7	$-4.3 (+3.0 ; -6.0)$

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration Report

6.3.2 C-Weighting

UUT Setting			Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 110	LC	Fast	94.00	31.5 Hz	91.0	-3.0 ± 1.5
				63 Hz	93.1	-0.8 ± 1.5
				125 Hz	93.8	-0.2 ± 1.0
				250 Hz	94.0	0.0 ± 1.0
				500 Hz	94.0	0.0 ± 1.0
				1 kHz	94.0	Ref.
				2 kHz	93.8	-0.2 ± 1.0
				4 kHz	93.2	-0.8 ± 1.0
				8 kHz	90.9	-3.0 (+1.5 ; -3.0)
				12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

6.4 Time Averaging

UUT Setting			Applied Value					UUT Reading (dB)	IEC 60804 Type 1 Spec. (dB)
Range (dB)	Mode	Integrating Time	Freq. (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)		
50 - 110	LAeq	10 sec.	4	1	1/10	110.0	100	100.1	± 0.5
							90	90.1	± 0.5
		60 sec.					80	80.0	± 1.0
							70	70.0	± 1.0
		5 min.			1/10 ⁴				

Remarks : - Mfr's Spec. : IEC 60651 Type 1 & IEC 60804 Type 1

- Uncertainties of Applied Value : 94 dB : 31.5 Hz - 125 Hz : ± 0.35 dB
 250 Hz - 500 Hz : ± 0.30 dB
 1 kHz : ± 0.20 dB
 2 kHz - 4 kHz : ± 0.35 dB
 8 kHz : ± 0.45 dB
 12.5 kHz : ± 0.70 dB
 104 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)
 114 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)
 Burst equivalent level : ± 0.2 dB (Ref. 110 dB continuous sound level)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

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



RION CO., LTD.

3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533
Phone:042(359)7888, Facsimile:042(359)7442

Certificate of Calibration

Name : Precision sound level meter
Model : NL-52 S/No. : 00710259
(NX-42EX installed)
Microphone : UC-59 S/No. : 02695
Preamplifier : NH-25 S/No. : 10253

Date of Calibration : September, 20, 2011

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.

The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.


RION CO., LTD.

T. Kano
Manager, Quality Control Department

Certificate No. : C113827

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Meter

Manufacturer : Rion

Model No. : NL-31

Serial No. : 00603867

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C113827.*

The equipment is supplied by

Co. Name : Envirotech Services Co.

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong*

Date of Issue : 8 July 2011

Certified by :


H C Chan

Report No. : C113827

Calibration Report

ITEM TESTED

DESCRIPTION : Sound Level Meter
MANUFACTURER : Rion
MODEL NO. : NL-31
SERIAL NO. : 00603867

TEST CONDITIONS

AMBIENT TEMPERATURE : $(23 \pm 2)^{\circ}\text{C}$ RELATIVE HUMIDITY : $(55 \pm 20)\%$
LINE VOLTAGE : ---

TEST SPECIFICATIONS

Calibration check

DATE OF TEST : 7 July 2011

JOB NO. : IC11-1657

TEST RESULTS

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by :


KC Lee

Date : 8 July 2011

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration Report

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
2. Self-calibration was performed before the test.
3. The results presented are the mean of 3 measurements at each calibration point.
4. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C110018
CL281	Multifunction Acoustic Calibrator	C1006860

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	94.0	± 1.1

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
30 - 120	L _A	A	Fast	94.00	1	94.0 (Ref.)
				104.00		104.0
				114.00		113.9

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	94.0	Ref.
			Slow			93.9	± 0.3

Calibration Report

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L _A	A	Fast	94.00	63 Hz	67.7	-26.2 ± 1.5
					125 Hz	77.7	-16.1 ± 1.5
					250 Hz	85.3	-8.6 ± 1.4
					500 Hz	90.7	-3.2 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	95.3	+1.2 ± 1.6
					4 kHz	95.1	+1.0 ± 1.6
					8 kHz	93.0	-1.1 (+2.1 ; -3.1)
					12.5 kHz	90.1	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L _C	C	Fast	94.00	63 Hz	93.1	-0.8 ± 1.5
					125 Hz	93.8	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.0	0.0 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.3	-0.8 ± 1.6
					8 kHz	91.1	-3.0 (+2.1 ; -3.1)
					12.5 kHz	88.2	-6.2 (+3.0 ; -6.0)

Calibration Report

Remarks : - Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB : 63 Hz - 125 Hz : ± 0.35 dB
250 Hz - 500 Hz : ± 0.30 dB
1 kHz : ± 0.20 dB
2 kHz - 4 kHz : ± 0.35 dB
8 kHz : ± 0.45 dB
12.5 kHz : ± 0.70 dB
104 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)
114 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

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

Certificate of Calibration

校正證書

Certificate No. : C124191
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC12-1770)

Description / 儀器名稱 : Sound Level Meter
Manufacturer / 製造商 : Rion
Model No. / 型號 : NL-31
Serial No. / 編號 : 00603867
Supplied By / 委託者 : Envirotech Services Co.
Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$ Relative Humidity / 相對濕度 : $(55 \pm 20)\%$
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 18 July 2012

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies, USA
- Fluke Everett Service Center, USA
- Fluke Precision Measurement Ltd., UK
- Rohde & Schwarz Laboratory, Germany

Tested By : 
測試 : L K Yeung

Certified By : 
核證 : K C Lee

Date of Issue : 18 July 2012
簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

Certificate of Calibration

校正證書

Certificate No. : C124191
證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- Self-calibration was performed before the test.
- The results presented are the mean of 3 measurements at each calibration point.

4. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C120016
CL281	Multifunction Acoustic Calibrator	DC110233

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	93.8	± 1.1

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
30 - 120	L _A	A	Fast	94.00	1	93.8 (Ref.)
				104.00		103.8
				114.00		113.8

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	93.8	Ref.
			Slow			93.7	± 0.3

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Certificate of Calibration

校正證書

Certificate No. : C124191
證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L _A	A	Fast	94.00	63 Hz	67.6	-26.2 ± 1.5
					125 Hz	77.6	-16.1 ± 1.5
					250 Hz	85.1	-8.6 ± 1.4
					500 Hz	90.6	-3.2 ± 1.4
					1 kHz	93.8	Ref.
					2 kHz	95.1	+1.2 ± 1.6
					4 kHz	95.0	+1.0 ± 1.6
					8 kHz	92.8	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.9	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L _C	C	Fast	94.00	63 Hz	93.0	-0.8 ± 1.5
					125 Hz	93.6	-0.2 ± 1.5
					250 Hz	93.8	0.0 ± 1.4
					500 Hz	93.9	0.0 ± 1.4
					1 kHz	93.9	Ref.
					2 kHz	93.7	-0.2 ± 1.6
					4 kHz	93.2	-0.8 ± 1.6
					8 kHz	90.9	-3.0 (+2.1 ; -3.1)
					12.5 kHz	88.1	-6.2 (+3.0 ; -6.0)

Remarks : - Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB : 63 Hz - 125 Hz : ± 0.35 dB
 250 Hz - 500 Hz : ± 0.30 dB
 1 kHz : ± 0.20 dB
 2 kHz - 4 kHz : ± 0.35 dB
 8 kHz : ± 0.45 dB
 12.5 kHz : ± 0.70 dB
 104 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)
 114 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

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

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

Sun Creation Engineering Limited – Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 – 校正及檢測實驗室

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606

Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Certificate No. : C113870

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Calibrator

Manufacturer : Rion

Model No. : NC-73

Serial No. : 10997142

has been calibrated for the specific items and ranges.

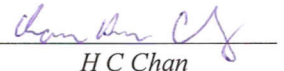
The results are shown in the Calibration Report No. C113870.

The equipment is supplied by

Co. Name : Envirotech Services Co.

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong*

Date of Issue : 11 July 2011

Certified by : 
H C Chan

Report No. : C113870

Calibration Report

ITEM TESTED

DESCRIPTION : Sound Level Calibrator
MANUFACTURER : Rion
MODEL NO. : NC-73
SERIAL NO. : 10997142

TEST CONDITIONS

AMBIENT TEMPERATURE : $(23 \pm 2)^{\circ}\text{C}$ RELATIVE HUMIDITY : $(55 \pm 20)\%$
LINE VOLTAGE : ---

TEST SPECIFICATIONS

Calibration

DATE OF TEST : 11 July 2011

JOB NO. : IC11-1713

TEST RESULTS

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by :


KC Lee

Date : 11 July 2011

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration Report

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours before the commencement of the test.
2. The results presented are the mean of 3 measurements at each calibration point.
3. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
TST150A	Measuring Amplifier	C101008
CL130	Universal Counter	C113350
CL281	Multifunction Acoustic Calibrator	C1006860

4. Test procedure : MA100N.

5. Results :

- 5.1 Sound Level Accuracy

- 5.1.1 Before Adjustment

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.3	± 0.5	± 0.2

- 5.1.2 After Adjustment

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.5	± 0.2

- 5.2 Frequency Accuracy

- 5.2.1 Before Adjustment

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	0.991	1 kHz ± 2 %	± 1

- 5.2.2 After Adjustment

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	0.991	1 kHz ± 2 %	± 1

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Report No. : C113870

Calibration Report

Remark : - The uncertainties are for a confidence probability of not less than 95 %.

Note :

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

Certificate of Calibration

校正證書

Certificate No. : C124011
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC12-1674)

Description / 儀器名稱 : Sound Level Calibrator
Manufacturer / 製造商 : Rion
Model No. / 型號 : NC-73
Serial No. / 編號 : 10997142
Supplied By / 委託者 : Envirotech Services Co.
Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$ Relative Humidity / 相對濕度 : $(55 \pm 20)\%$
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 9 July 2012

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By : 
測試 : L K Yeung

Certified By : 
核證 : K C Lee

Date of Issue : 10 July 2012
簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室所書面批准。

Certificate of Calibration

校正證書

Certificate No. : C124011
證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C123541
CL281	Multifunction Acoustic Calibrator	DC110233
TST150A	Measuring Amplifier	C120886

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	0.990	1 kHz ± 2 %	± 1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

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

Annex E

Event/Action Plans for Noise

Table E *Event and Action Plan for Construction Noise Monitoring*

Event	Action			
	Environmental Team (ET)	Independent Environmental Checker (IEC)	Authorised Person (AP)	Contractor
Action Level	<ol style="list-style-type: none"> 1. Notify IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, AP and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the AP accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to proposed remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC and AP; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, AP and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and AP informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst AP, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the AP accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the AP until the exceedance is abated.

Annex F

Summary of Implementation Status

Annex F Implementation Schedule for Environmental Protection Measures

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
<i>Cultural Heritage</i>					
S3.9.1	S3.2.6	Subject to the outcome of the archaeological investigation, if archaeological deposits are identified to be impacted by the proposed development, appropriate mitigation measures will be recommended and agreed with AMO.	To be advised	During detailed design and construction	√
S3.9.2	S3.3.1	<p><u>Vibration Monitoring</u></p> <p>A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO’s prior approval before commencement of the construction works.</p>	Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road)	During detailed design and construction	√
S3.9.2	S3.3.3	<p><u>Compliance of the Approved Measures and Auditing</u></p> <p>Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures.</p> <p>Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the environmental team (“the Heritage Checker”) to investigate the site practice of the contractors and workers and their compliance of the approved work methodologies with respect of conservation works, mitigations for cultural heritage and any related works. A detailed proposal of the regular audit such as methodology (e.g. performance</p>	Whole site	Prior to and during construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>and monitoring indicators, control tools, frequency of the audit, etc.) and the conservation professionals to be engaged should be agreed with AMO prior to work commencement.</p> <p>The Heritage Checker shall also attend the regular site meetings with AMO and report the compliance and effectiveness of the mitigation measures for cultural heritage.</p>			
S3.9.3	S3.3.4	<p><u>Archival Recording</u></p> <p>An archival recording should be conducted to provide a detailed reference for the update of the Conservation Management Plan and inventory of historical features of the monuments, the preparation of as-built drawings showing the condition of the historic buildings and structures after the completion of the construction works. These archival records will be a reference source for future maintenance of the character defining elements, conservation of the monuments, interpretation and conservation education of the Site. The archival recording shall include but not limit to the video and photographic recording on the detailed process of the repair trials for different kinds of historical features, conservation works of character defining elements and historic fabrics of the monuments, and a written records of any new changes to the detailed design made in the construction phase illustrate with photos and drawings. A full set of the archives records (including both hard and soft copies) should be submitted to the AMO for approval after the work completion for record purpose. Any new findings related to the conservation of built heritage in the Site identified during the detailed design stage and construction phases shall be properly recorded in details for notification to the AMO and update of the Conservation Management Plan.</p>	Whole Site	During detailed design, construction and prior to operation	N/A – Archival recording will be conducted at later stage.
S3.7.3	-	<p><u>General Construction Methods</u></p> <p>Prior to the commencement of the modification/refurbishment works at an existing building or structure (e.g. masonry walls near the Old Bailey Wing), a site survey will be carried out by the design team, and all building dimensions and levels of the building/structure shown will be checked and confirmed by the contractor. Non-percussive piling</p>	Whole site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>methods will be adopted for the construction of the foundation for the new buildings. Protective and precaution measures to the existing buildings and structure adjacent to the work area (including the proposed Grade 3 historic building (No. 20 Hollywood road) and the granite boundary walls between the Ablutions Block of the police station (building no. 08) and the General Office of the prison area (building no. 18) which is adjacent to the new construction of the Old Bailey Wing and for an old granite walls at Old Bailey Street within 15m from the new construction) shall be provided to avoid damage to the existing features and to safeguard the structural integrity during the course of construction. Small scale handheld pneumatic tools with minimal vibration impact to the existing buildings/ structures are selected so as to have a better logistic and handling at the existing buildings and structures, which usually have only narrow working areas. In cases of the local demolition of structural elements, demountable platforms will be erected to temporarily support the affected area and divert the loading from above to avoid instability and create excessive cracking and settlement of the building/structure.</p>			
S3.7.1 & 3.7.2	-	<p>Implementation and update of the Conservation Management Plan (CMP). Any new findings related to the conservation of the built heritage in the site identified during the detailed design and construction stage shall be properly recorded in details for the notification to the AMO and update in the CMP. After the construction, a cartographic and photographic recording on the restored historic buildings, historic features and the site shall be conducted and the following records shall be included into the CMP as appendices for updating and record purpose:</p> <ul style="list-style-type: none"> • one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and • an updated inventory list of the historic features together with the cross referenced location plans and photo records. <p>One set of updated CMP shall be submitted to the AMO for approval before the operation stage of the project.</p>	Whole site	During detailed design, construction, post-construction and operation	√ - CMP was implemented during the reporting month. There were no updates for the CMP.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
<i>Landscape & Visual</i>					
S4.7.27	-	<p><u><i>In-situ Tree Protection - Cordon Zone (CZ)</i></u></p> <p>Cordon off each tree along its drip line (below the crown) with a chain-link fencing of 2.5 m height with padlocked gate, allowing limited access to area only to authorized persons. The base of the perimeter fence will be sealed up to 30 cm height to ensure that no construction drainage water will enter. If grouting is to be conducted less than 5 m from the edge of the CZ, a waterproof membrane will be installed below the ground to a depth of 1.5 m on the outer edge of the CZ to prevent the subsurface lateral movement of contaminated construction wastewater from intruding the soil inside the CZ.</p>	Whole site	During construction	√
S4.7.2	-	<p><u><i>In-situ Tree Protection - Advanced & Phased Root Pruning</i></u></p> <p>All edges of the CZ that will be affected by excavation will undergo root pruning by a trained arborist or horticulturist, in advance of the earth work. The entire affected length of the CZ, plus 3 m additional length at both ends, shall be designated as the root pruning segment (RPS). The require trench will be opened manually in the RPS, be 1.5 m deep and 1 m wide, and closed on the same day after pruning with a good soil mix. All roots with a diameter >20 mm encountered in the course of trench opening shall be cut flushed with the inner wall of the trench. If the RPS exceeds one-quarter of the CZ circumference, the root pruning should be conducted in two stages. Each phase will tackle half of the RPS length. After the first phase, the tree will be allowed to recuperate for not less than four months before the second phase root pruning is conducted. The RPS shall be protected by sheet piles along the outer edge. The rig that installs the piles and the associated operations shall not intrude into the CZ or injure the protected tree.</p>	Whole site	During construction	N/A – no root pruning has been conducted yet
S4.7.2	-	<p><u><i>In-situ Tree Protection - Foliage cleansing system</i></u></p> <p>A sprinkler cleansing system will be installed either in the crown of the tree or at a suitable location on an adjacent building to provide the</p>	Whole site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		means to wash the foliage of the accumulated dust when necessary, particularly in the dry season.			
S4.7.2	S4	<p><u>In-situ Tree Protection - Monthly inspection</u></p> <p>Monthly inspection of affected trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office. All irregularities that deviate from the recommended tree protection measures, or could impose deleterious impacts on the protected trees, must be reported to the authorized person or the tree expert within two days.</p>	Whole site	During construction	√
S4.7.2	-	<p><u>Light Control</u></p> <p>Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.</p>	Whole site	During construction and operation	√
S4.7.2	S4	<p><u>Compensatory Tree Planting</u></p> <p>A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10. The existing tree site will be enlarged to become a wide tree strip to accommodate at least six trees. The entire strip of land that accommodates T1 to T4 should be revamped to improve the soil condition for future tree growth.</p> <p>The new tree strip should be 4 m wide and covered by porous unit pavers to permit the entry of rain and irrigation water and air exchange between the soil and the atmosphere. The unit pavers should be supported by small columns to create a vault-like structure so as to avoid compaction of the underlying soil due to pedestrian trampling. The unit pavers will be movable to provide access to the soil underneath so that fertilizers and conditioners could be added on a</p>	At identified compensatory tree planting location at the Parade Ground	During detailed design and construction	N/A – Compensatory Tree Planting will be conducted at later stage.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>regular basis. The air conditioner unit currently located near the proposed planting site should also be removed. This new tree planting site should also be provided with proper irrigation.</p> <p>Pursuant to the “Environment, Transport and Works Bureau Technical Circular (Works) No. 3/2006 Tree Preservation”, the compensation ratio should preferably be 1:1 according to trunk girth. T10 has a DBH of 20 cm (Table 4.3), and it is proposed that six trees of heavy standard size be planted, each with a DBH of around 10 cm and root balls of not less than 0.75 m diameter and 0.75 m depth,. Since the aggregate DBH of the new trees would be 60 cm, the rate of compensation is equivalent to three times the DBH of T10, far beyond the requirements</p> <p>The six replacement trees should be planted in the new tree strip in two staggered rows, maximising distance between each tree to avoid mutual interference in the future. It is recommended that the species selected should have a small final dimension of less than 10 m height given the proximity to built structures such as the retaining wall and buildings. Two each of the outstanding and related flowering tree species connected to local natural history are suggested::</p> <ul style="list-style-type: none"> – <i>Bauhinia</i> ‘Blakeana’ a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring. – <i>Bauhinia purpure</i>, a native evergreen with lighter purple flowers from late autumn to early winter. – <i>Bauhinia variegata</i>, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves. 			
S4.7.2	S4	<p><u>Vertical Greening</u></p> <p>Within the limitations of the conservation of the CPS character, greening of vertical structures should be provided where possible.</p> <p>As such it is recommended that the inner southern wall of the Site be planted as a green wall. The plantings should be inserted in between each of the large protruding piers and an offset be made from both the</p>	Inner Southern Wall	During detailed design and construction	N/A – No vertical greening was conducted during the reporting month.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		top and bottom edge so that old and new are equally visible. An independent frame should be strategically positioned in order to ensure minimal disturbance to the original wall, and provide the main structural support and planting surface for the green wall. The frame on to which the new green will be planted should contain its own irrigation system so that moisture for the plants will remain mainly on the planting surface and not the existing wall behind. The planting chosen should be appropriate to the Hong Kong climate, requiring relatively little maintenance to sustain the quality of both plants and wall.			
S4.7.2	-	<i>New Custom Paving</i> New, Patterned, High Quality, Concrete Custom Pavers should replace most of the existing paving in the open spaces.	Whole site	During detailed design and construction	N/A – No custom paving was conducted during the reporting month.
S4.7.2	S4	<i>In-situ Tree Protection - Quarterly inspection</i> Quarterly Inspection of affected and newly planted trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office for a period of 12 months after construction.	Whole site	During post construction and operation	N/A – The quarterly inspection will be conducted at later stage.
<i>Noise</i>					
S5.9	-	The following site practices should be followed during the construction of the Project: <ul style="list-style-type: none"> • Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase; • Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase; • Mobile plant, if any, will be sited as far away from NSRs as possible; 	Whole Site	During construction	N/A – Not observed.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<ul style="list-style-type: none"> Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum; Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 			
S5.9	-	Noise insulating sheet would be adopted for certain PME (eg drill rig, excavator for demolition of existing structures, etc). The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Whole Site	During construction	√
S5.9	-	Use temporary noise barriers to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. Movable noise barriers of 3 m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m ⁻² and have no openings or gaps.	Whole Site	During construction	√
S5.9	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	√
S5.9	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During construction	√
S5.11	S5	Weekly noise monitoring will be undertaken at the representative NSRs N2 Ho Fook Building and N5 Chancery House. Monthly site audits will be conducted to ensure that the recommended mitigation measures are properly implemented during the construction stage.	Whole Site	During construction	√
<i>Air Quality</i>					
S6.8.1	-	Dust control measures stipulated in the <i>Air Pollution Control (Construction Dust) Regulation</i> will be implemented during the construction phase to control the potential fugitive dust emissions.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	In particular: Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets; placed in an area sheltered on the top and three sides; or sprayed with water to maintain the entire surface wet at all the time.	Whole Site	During construction	√
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	√
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	√
S6.8.1	-	Every vehicle will be washed to remove any dusty materials from its chassis and wheels immediately before leaving the worksite.	Whole Site	During construction	√
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	√
S6.8.1	-	The load carried by the trucks will be covered entirely to ensure no dust emission from the vehicles.	Whole Site	During construction	√
S6.8.1	-	Hoarding of not less than 2.4m high from ground level will be provided along the Project Site boundary adjoining a road where the new buildings (Old Bailey Wing and Arbuthnot Wing) will be constructed.	Whole Site	During construction	√
S6.8.1	-	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Whole Site	During construction	N/A – Not observed.
S6.8.1	-	An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings.	Whole Site	During construction	√
S6.8.1	-	Impervious dust screen or sheeting will be implemented for demolition of structures and renovation of outer surfaces of structures that abuts or fronts open area accessible to the public to no less than 1m higher than the highest level of the structure being demolished.	Whole Site	During construction	√
S6.8.1	-	The area at which demolition work takes place will be sprayed with water or dust suppression chemical immediately prior to, during and immediately after the demolition activity.	Area for Demolition Work	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	ULSD will be used for all construction plant on-site.	Whole Site	During construction	N/A – Not observed.
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	√
S6.8.1	-	Site practices such as regular maintenance and checking of construction equipment deployed on-site will be conducted to avoid any black smoke emissions and to minimise gaseous emissions.	Whole Site	During construction	N/A – Not observed.
S6.10	S3.2	Monthly environmental site audits to ensure that appropriate dust control measures are properly implemented and good construction site practices are adopted throughout the construction period.	Whole Site	During construction	√
<i>Water Quality</i>					
S7.6	-	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in <i>Appendix A1 of ProPECC PN 1/94</i> . All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Whole Site	During construction	√
S7.6	-	All drainage facilities and erosion and sediment control structures will be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit will be removed regularly and disposed of.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Measures will be taken to reduce the ingress of stormwater into excavation areas. If the excavation of the concrete foundation is to be carried out in wet season, they will be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations will be discharged into stormwater drains via silt removal facilities.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Open stockpiles of excavated and demolition materials will be covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of residues, chemicals or debris into any drainage system.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Manholes (including newly constructed ones) will always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Precautions will be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of <i>ProPECC PN 1/94</i> . Particular attention will be paid to the control of silty surface runoff during storm events.	Whole Site	During construction	N/A – Not observed.
S7.6	-	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge will be adequately designed for the controlled release of stormwater flows. All sediment traps will be regularly cleaned and maintained. The temporary diverted drainage will be reinstated to the original condition when the construction work has finished or the temporary diversion is no longer required.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Vehicle and plant servicing areas, vehicle washing bays and lubrication bays will, as far as possible, be located within roofed areas. The drainage in these covered areas will be connected to foul sewers via a petrol interceptor.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Oil leakage or spillage will be contained and cleaned up immediately. Waste oil will be collected and stored for recycling or disposal.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Waste streams classifiable as chemical wastes will be properly stored, collected and treated.	Whole Site	During construction	√
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	√
S7.6	-	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters.	Whole Site	During construction	√
S7.6	-	The Contractors will prepare guidelines and procedures for immediate clean-up actions following any spillages of oil, fuel or chemicals.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Surface runoff from bunded areas will pass through oil/grease traps prior to discharge to the stormwater system	Whole Site	During construction	N/A – Not observed.
S7.6	-	The stormwater discharge from the site will be monitored as part of the routine monitoring under the WPCO licence, if applicable.	Whole Site	During construction	N/A – Not observed.
S7.6	-	The existing toilet facilities of the CPS will be available to the construction workforce. The sewage will be discharged to the public sewer.	Whole Site	During construction	√
S7.8	S5.2	Monthly site audits of the works areas will be carried out during the construction phase to monitor the environmental performance of the Project and to enable prompt actions to rectify any malpractice which may give rise to water pollution problem.	Whole Site	During construction	√
<i>Waste Management</i>					
S8.5	S6.3.1 & Table 6.1	<u>General</u> The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works.	Whole Site	During construction	√
S8.5	-	<u>Management of Waste Disposal</u> The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid “chit” which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	√
S8.5	S6.2	A trip-ticket system will also be established to monitor the disposal of construction waste at landfill and to control fly-tipping. The trip-ticket system will be included as one of the contractual requirements and implemented by the contractor.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6 & Table 6.1	A recording system for the amount of wastes generated /recycled and disposed of will be established during the construction phase.	Whole Site	During construction	√
S8.5	S6.3	<u>Reduction of Construction Waste Generation</u> C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	√
S8.5	S6	<u>Chemical Waste</u> The contractor will register as a chemical waste producer with the EPD.	Whole Site	During construction and operation	√
S8.5	S6	Containers used for storage of chemical waste shall: <ul style="list-style-type: none"> • Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; • Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and • Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2 of the Regulations</i>. 	Whole Site	During construction and operation	√
S8.5	S6	Storage areas for chemical waste shall: <ul style="list-style-type: none"> • Be clearly labelled and used solely for the storage of chemical waste; • Be enclosed on at least 3 sides; • Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest; • Have adequate ventilation; • Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and • Be arranged so that incompatible materials are appropriately separated. 	Whole Site	During construction and operation	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical Waste Treatment Centre at Tsing Yi	During construction and operation	N/A – Not observed.
S8.5	S6 & Table 6.1	<u>General Refuse</u> General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the transfer station, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts.	Whole site	During construction	√
S8.5	S6	Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Site. Materials recovered will be sold for recycling.	Whole site	During construction and operation	√
S8.5	S6	<u>Staff Training</u> At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.	Whole site	Commence-ment of construction	√
S8.7	S6.1 & 6.3	Monthly audits of the waste management practices will be carried out during the construction phases to determine if wastes are being managed in accordance with the recommended good site practices. The audits will examine all aspects of waste management including waste generation, storage, recycling, transport and disposal.	Whole site	During construction	√

Remark:

- √ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by Gammon Construction Ltd
- △ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd
- N/A Not Applicable in Reporting Period

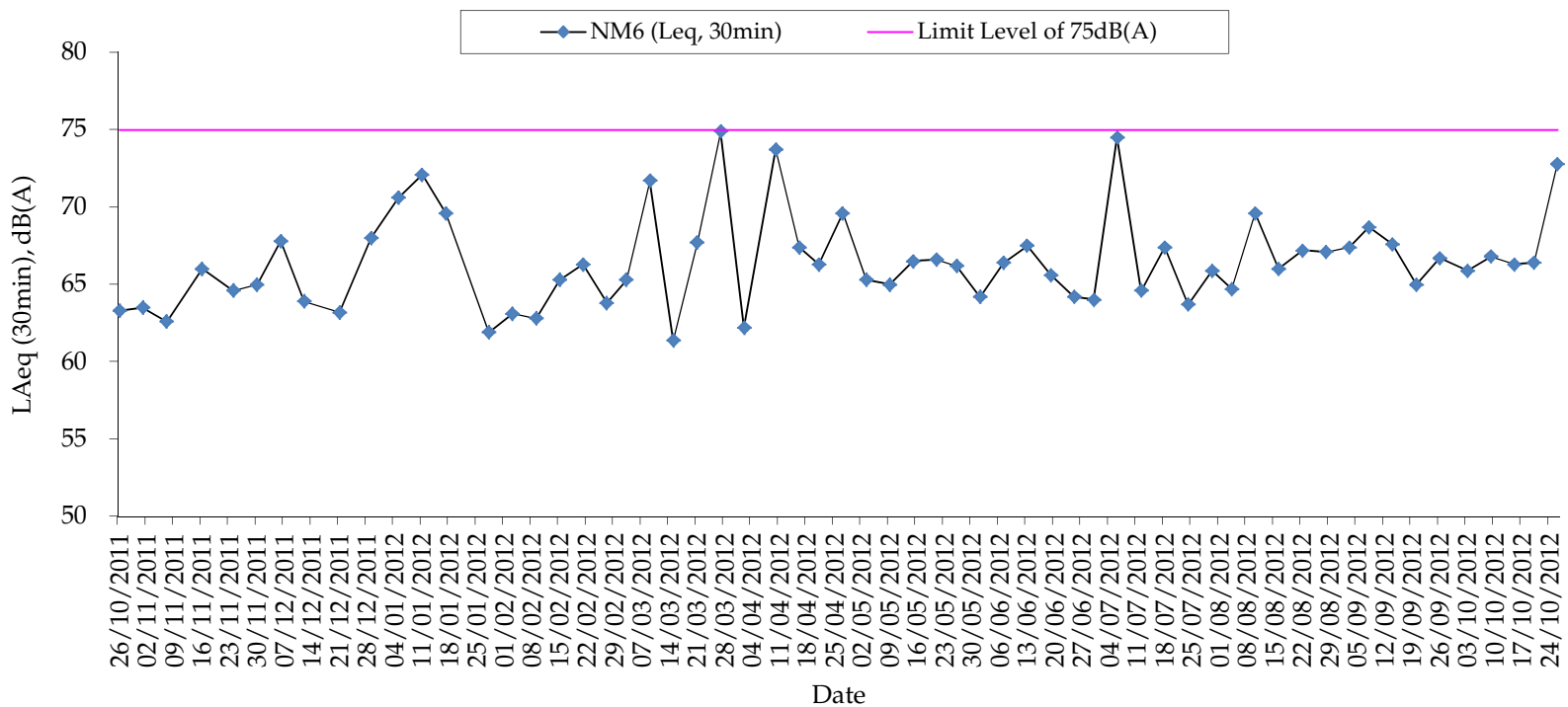
Annex G

Noise Monitoring Results

Station	Date	Weather	Noise Levels, dB(A) 30 mins			Major Construction Noise Source(s) Observed	Other Noise Source(s) Observed	Windspeed (m/s)	Limit Level, dB(A) 30 mins
			Leq	L10	L90				
NM2 Ho Fook Building	26-Oct-11	Fine	62.6	64.4	60.7	-	Traffic noise	-	75
NM2 Ho Fook Building	01-Nov-11	Sunny	63.4	64.8	60.7	-	Traffic noise	-	75
NM2 Ho Fook Building	07-Nov-11	Sunny	64.1	65.4	61.9	-	Traffic noise	-	75
NM2 Ho Fook Building	16-Nov-11	Sunny	64.9	66.6	62.0	Scaffolding - bamboo	Hand held breaker	-	75
NM2 Ho Fook Building	24-Nov-11	Sunny	65.4	66.8	63.5	Compressor, breaker (Near Site)	Traffic noise	-	75
NM2 Ho Fook Building	30-Nov-11	Sunny	63.7	65.0	62.5	Breaker (near site)	Traffic noise	-	75
NM2 Ho Fook Building	06-Dec-11	Fine	66.0	67.8	64.0	Compressor, breaker (from surrounding site)	-	0.2	75
NM2 Ho Fook Building	12-Dec-11	Sunny	64.3	66.4	62.3	Hand held breaker (from surrounding site)	-	0.2	75
NM2 Ho Fook Building	21-Dec-11	Fine	64.5	66.5	61.8	Compressor, breaker (from surrounding site)	Traffic noise	0.2	75
NM2 Ho Fook Building	29-Dec-11	Sunny	68.4	71.6	63.5	Compressor, breaker, drilling (from project site)	-	1.2	75
NM2 Ho Fook Building	05-Jan-12	Cloudy	68.5	70.7	66.0	Compressor breaker (within the project site)	-	0.7	75
NM2 Ho Fook Building	11-Jan-12	Cloudy	67.5	68.8	63.0	Compressor breaker (within the project site)	Traffic noise	0.2	75
NM2 Ho Fook Building	17-Jan-12	Sunny	66.4	68.4	62.8	Compressor breaker (within the project site)	Traffic noise	0.2	75
NM2 Ho Fook Building	28-Jan-12	Cloudy	63.4	65.2	60.2	-	Traffic noise	0.7	75
NM2 Ho Fook Building	03-Feb-12	Fine	62.3	65.0	59.6	-	Traffic Noise	0.5	75
NM2 Ho Fook Building	09-Feb-12	Cloudy	65.3	66.7	62.9	-	Traffic Noise	0.5	75
NM2 Ho Fook Building	15-Feb-12	Fine	66.3	68.8	63.0	Compressor breaker (within the project site)	-	0.2	75
NM2 Ho Fook Building	21-Feb-12	Cloudy	66.6	68.6	63.4	Compressor breaker (within the project site)	-	0.4	75
NM2 Ho Fook Building	27-Feb-12	Cloudy	64.9	66.4	63.3	Compressor breaker (within the project site)	-	0.7	75
NM2 Ho Fook Building	03-Mar-12	Cloudy	64.1	65.6	62.4	Compressor, breaker (within the project site)	Traffic Noise	0.5	75
NM2 Ho Fook Building	09-Mar-12	Cloudy	67.7	69.2	64.9	Compressor, breaker, lifting equipment (within the project site)	Traffic Noise	0.3	75
NM2 Ho Fook Building	15-Mar-12	Fine	64.7	66.1	61.5	Crane (within the project site)	Traffic Noise	0.3	75
NM2 Ho Fook Building	21-Mar-12	Fine	63.6	65.8	60.8	Lifting equipment, excavation (within the project site)	Traffic Noise	0.2	75
NM2 Ho Fook Building	27-Mar-12	Sunny	68.9	70.4	66.7	Breaker, lifting equipment (within the project site)	Traffic Noise	0.2	75
NM2 Ho Fook Building	02-Apr-12	Fine	63.7	66.0	60.2	Lifting (within the project site)	Traffic Noise	0.2	75
NM2 Ho Fook Building	10-Apr-12	Fine	71.9	75.6	63.9	Breaker, lifting (within the project site)	Traffic Noise	0.2	75
NM2 Ho Fook Building	16-Apr-12	Fine	63.6	65.2	61.8	Breaker, lifting (within the project site)	Traffic Noise	0.2	75
NM2 Ho Fook Building	21-Apr-12	Cloudy	64.2	65.8	61.6	Breaker, lifting (within the project site)	Traffic Noise	0.3	75
NM2 Ho Fook Building	27-Apr-12	Sunny	65.8	67.5	63.8	Breaker, lifting equipment (within the project site)	Traffic Noise	0.3	75
NM2 Ho Fook Building	03-May-12	Fine	64.4	66.0	61.6	Crawler Crane, excavator, breaker (within the project site)	-	0.2	75
NM2 Ho Fook Building	09-May-12	Sunny	65.0	66.6	62.8	Crawler Crane (within the project site)	Traffic Noise	0.3	75
NM2 Ho Fook Building	15-May-12	Fine	65.2	67.2	63.3	Crawler Crane, compressor, breaker (within the project site)	Traffic Noise	0.3	75
NM2 Ho Fook Building	21-May-12	Sunny	68.6	70.8	66.3	Breaker, lifting, excavator (within the project site)	Traffic Noise	0.5	75
NM2 Ho Fook Building	26-May-12	Cloudy	65.9	67.6	63.1	Breaker, lifting (within the project site)	Traffic Noise	0.3	75
NM2 Ho Fook Building	01-Jun-12	Fine	67.5	69.2	65.1	Lifting (within the project site)	Traffic noise	0.2	75
NM2 Ho Fook Building	07-Jun-12	Sunny	64.1	65.9	61.9	Lifting, interior fitting (within the project site)	Traffic Noise	0.2	75
NM2 Ho Fook Building	13-Jun-12	Trace rain	66.0	67.7	63.5	Breaker, lifting (within the project site)	Traffic Noise	0.3	75
NM2 Ho Fook Building	19-Jun-12	Cloudy	64.5	66.4	61.9	Lifting (within the project site)	Traffic Noise	0.2	75
NM2 Ho Fook Building	25-Jun-12	Cloudy	63.6	65.3	61.8	Lifting (within the project site)	Traffic Noise	0.5	75
NM2 Ho Fook Building	30-Jun-12	Cloudy	63.3	64.5	61.8	-	Traffic Noise	0.2	75
NM2 Ho Fook Building	06-Jul-12	Sunny	65.6	67.8	63.5	Breaker, crane (within the project site)	Traffic noise	0.3	75
NM2 Ho Fook Building	12-Jul-12	Sunny	64.1	65.9	61.9	Lifting (within the project site)	Traffic Noise	0.3	75
NM2 Ho Fook Building	18-Jul-12	Fine	65.2	66.6	63.2	Excavation, electric breaker (within the project site)	Traffic Noise	0.3	75
NM2 Ho Fook Building	24-Jul-12	Cloudy	64.0	65.7	61.2	-	Traffic Noise	0.5	75
NM2 Ho Fook Building	30-Jul-12	Sunny	65.5	67.3	62.6	Lifting, excavation (within the project site)	Traffic Noise	0.2	75
NM2 Ho Fook Building	04-Aug-12	Fine	65.4	66.8	62.3	Lifting, excavation (within the project site)	Traffic noise	0.3	75
NM2 Ho Fook Building	10-Aug-12	Fine	63.7	65.8	62.0	Lifting (within the project site)	Traffic Noise	0.2	75
NM2 Ho Fook Building	16-Aug-12	Cloudy	69.0	71.2	66.0	Excavation, lifting (within the project site)	Traffic Noise	0.5	75
NM2 Ho Fook Building	22-Aug-12	Cloudy	68.4	70.1	65.6	Lifting, excavation (within the project site)	Traffic Noise	0.3	75
NM2 Ho Fook Building	28-Aug-12	Sunny	69.5	70.6	67.4	Lifting, welding (within the project site)	Traffic Noise	0.5	75
NM2 Ho Fook Building	03-Sep-12	Fine	69.4	71.1	67.5	Lifting, excavation (within the project site)	Traffic noise	0.3	75
NM2 Ho Fook Building	08-Sep-12	Fine	69.2	70.7	66.1	Lifting, excavation (within the project site)	Traffic Noise	0.3	75
NM2 Ho Fook Building	14-Sep-12	Sunny	66.4	68.7	63.8	Lifting (within the project site)	Traffic Noise	0.2	75
NM2 Ho Fook Building	20-Sep-12	Fine	66.0	68.0	63.5	Lifting, excavation (within the project site)	Traffic Noise	0.3	75
NM2 Ho Fook Building	26-Sep-12	Cloudy	67.5	69.5	64.1	Lifting, excavation (within the project site)	Traffic Noise	0.5	75
NM2 Ho Fook Building	03-Oct-12	Sunny	68.2	69.9	64.6	Lifting, excavation (within the project site)	Traffic noise	0.5	75
NM2 Ho Fook Building	09-Oct-12	Sunny	66.4	68.1	63.2	Lifting, excavation (within the project site)	Traffic Noise	0.2	75
NM2 Ho Fook Building	15-Oct-12	Sunny	68.5	70.0	65.9	Lifting, excavation (within the project site)	Traffic Noise	0.2	75
NM2 Ho Fook Building	20-Oct-12	Sunny	64.1	66.4	62.0	Excavation, crawler crane (within the project site)	Traffic Noise	0.3	75
NM2 Ho Fook Building	26-Oct-12	Cloudy	66.2	68.4	62.4	Breaker, crawler crane (within the project site)	Traffic Noise	0.5	75

Station	Date	Weather	Noise Levels, dB(A) 30 mins			Major Construction Noise Source(s) Observed	Other Noise Source(s) Observed	Windspeed (m/s)	Limit Level, dB(A) 30 mins
			Leq	L10	L90				
NM6 Chancery Mansion	26-Oct-11	Fine	63.3	64.6	62.0	-	Traffic noise	-	75
NM6 Chancery Mansion	01-Nov-11	Sunny	63.5	64.7	62.2	-	Traffic noise	-	75
NM6 Chancery Mansion	07-Nov-11	Sunny	62.6	64.2	60.3	-	Traffic noise	-	75
NM6 Chancery Mansion	16-Nov-11	Sunny	66.0	67.7	63.2	Scaffolding - bamboo	-	-	75
NM6 Chancery Mansion	24-Nov-11	Sunny	64.6	66.3	63.2	Compressor, breaker (near site)	Traffic noise	-	75
NM6 Chancery Mansion	30-Nov-11	Sunny	65.0	67.1	63.0	Breaker (near site)	-	-	75
NM6 Chancery Mansion	06-Dec-11	Fine	67.8	69.5	64.8	Compressor, breaker (from surrounding site)	-	0.2	75
NM6 Chancery Mansion	12-Dec-11	Sunny	63.9	65.7	62.0	Hand held breaker (from surrounding site)	-	0.2	75
NM6 Chancery Mansion	21-Dec-11	Fine	63.2	64.7	61.3	Compressor, breaker (from surrounding site)	-	0.2	75
NM6 Chancery Mansion	29-Dec-11	Sunny	68.0	69.6	65.6	Compressor, breaker (from project site)	-	1.2	75
NM6 Chancery Mansion	05-Jan-12	Cloudy	70.6	71.8	66.8	Compressor breaker (within the project site)	-	0.8	75
NM6 Chancery Mansion	11-Jan-12	Cloudy	72.1	74.3	67.3	Compressor breaker (within the project site)	-	0.2	75
NM6 Chancery Mansion	17-Jan-12	Sunny	69.6	71.3	66.2	Compressor breaker (within the project site)	-	0.2	75
NM6 Chancery Mansion	28-Jan-12	Cloudy	61.9	63.7	59.1	-	-	0.9	75
NM6 Chancery Mansion	03-Feb-12	Fine	63.1	65.0	60.2	-	Traffic Noise	0.8	75
NM6 Chancery Mansion	09-Feb-12	Cloudy	62.8	64.8	60.8	-	Traffic Noise	1.0	75
NM6 Chancery Mansion	15-Feb-12	Fine	65.3	67.1	62.2	Compressor breaker (within the project site)	-	0.2	75
NM6 Chancery Mansion	21-Feb-12	Cloudy	66.3	62.6	64.7	Compressor breaker (within the project site)	Traffic Noise	0.5	75
NM6 Chancery Mansion	27-Feb-12	Cloudy	63.8	65.6	61.0	Compressor breaker (within the project site)	Traffic Noise	0.8	75
NM6 Chancery Mansion	03-Mar-12	Cloudy	65.3	67.4	60.9	Compressor, breaker (within the project site)	-	0.5	75
NM6 Chancery Mansion	09-Mar-12	Cloudy	71.7	73.1	68.8	Compressor, breaker, lifting equipment (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	15-Mar-12	Fine	61.4	62.7	59.8	Crane (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	21-Mar-12	Fine	67.7	69.6	65.0	Lifting equipment, excavation (within the project site)	Traffic Noise	0.2	75
NM6 Chancery Mansion	27-Mar-12	Sunny	74.9	78.9	67.8	Breaker, lifting equipment (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	02-Apr-12	Fine	62.2	63.2	61.0	Lifting (within the project site)	-	0.2	75
NM6 Chancery Mansion	10-Apr-12	Fine	73.7	75.9	69.4	Breaker, lifting (within the project site)	Traffic Noise	0.2	75
NM6 Chancery Mansion	16-Apr-12	Fine	67.4	69.6	64.7	Breaker, lifting (within the project site)	Traffic Noise	0.2	75
NM6 Chancery Mansion	21-Apr-12	Cloudy	66.3	68.1	64.1	Breaker, lifting (within the project site)	-	0.3	75
NM6 Chancery Mansion	27-Apr-12	Sunny	69.6	71.8	65.8	Breaker, lifting equipment (within the project site)	-	0.5	75
NM6 Chancery Mansion	03-May-12	Fine	65.3	67.2	62.6	Crawler Crane, excavator, breaker (within the project site)	-	0.3	75
NM6 Chancery Mansion	09-May-12	Sunny	65.0	67.0	63.2	Crawler Crane, compressor, breaker (within the project site)	-	0.5	75
NM6 Chancery Mansion	15-May-12	Fine	66.5	68.4	64.2	Crawler Crane, compressor Breaker (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	21-May-12	Sunny	66.6	68.7	64.3	Breaker, lifting, excavator (within the project site)	Traffic Noise	0.8	75
NM6 Chancery Mansion	26-May-12	Cloudy	66.2	67.8	63.5	Lifting, excavator (within the project site)	Traffic Noise	0.5	75
NM6 Chancery Mansion	01-Jun-12	Fine	64.2	65.3	63.1	Lifting (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	07-Jun-12	Sunny	66.4	67.5	63.2	Lifting, interior fitting (within the project site)	Traffic Noise	0.2	75
NM6 Chancery Mansion	13-Jun-12	Trace rain	67.5	69.8	65.0	Breaker, lifting (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	19-Jun-12	Cloudy	65.6	67.2	63.4	Lifting (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	25-Jun-12	Cloudy	64.2	65.6	63.0	Lifting (within the project site)	Traffic Noise	0.5	75
NM6 Chancery Mansion	30-Jun-12	Cloudy	64.0	65.3	63.0	-	Traffic Noise	0.5	75
NM6 Chancery Mansion	06-Jul-12	Sunny	74.5	77.2	64.2	Breaker, crane (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	12-Jul-12	Sunny	64.6	66.2	61.9	Lifting (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	18-Jul-12	Fine	67.4	68.6	65.7	Excavation, electric breaker (within the project site)	Traffic Noise	0.2	75
NM6 Chancery Mansion	24-Jul-12	Cloudy	63.7	65.4	60.7	-	Traffic Noise	0.8	75
NM6 Chancery Mansion	30-Jul-12	Sunny	65.9	67.5	62.4	Lifting, excavation (within the project site)	Traffic Noise	0.2	75
NM6 Chancery Mansion	04-Aug-12	Fine	64.7	66.5	61.8	Lifting, excavation (within the project site)	-	0.3	75
NM6 Chancery Mansion	10-Aug-12	Fine	69.6	71.6	66.2	Lifting (within the project site)	Traffic Noise	0.2	75
NM6 Chancery Mansion	16-Aug-12	Cloudy	66.0	67.4	64.9	Excavation, lifting (within the project site)	Traffic Noise	0.5	75
NM6 Chancery Mansion	22-Aug-12	Cloudy	67.2	68.8	64.4	Lifting, excavation (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	28-Aug-12	Sunny	67.1	68.7	65.2	Lifting, welding (within the project site)	Traffic Noise	0.5	75
NM6 Chancery Mansion	03-Sep-12	Fine	67.4	69.2	65.5	Lifting, excavation (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	08-Sep-12	Fine	68.7	71.5	65.3	Lifting, excavation (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	14-Sep-12	Sunny	67.6	69.5	64.9	Lifting (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	20-Sep-12	Fine	65.0	66.6	63.9	Lifting, excavation (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	26-Sep-12	Cloudy	66.7	68.3	63.9	Lifting, excavation (within the project site)	Traffic Noise	0.5	75
NM6 Chancery Mansion	03-Oct-12	Sunny	65.9	67.4	63.2	Lifting, excavation (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	09-Oct-12	Sunny	66.8	68.5	63.5	Lifting, excavation (within the project site)	Traffic Noise	0.5	75
NM6 Chancery Mansion	15-Oct-12	Sunny	66.3	67.9	62.9	Lifting, excavation (within the project site)	Traffic Noise	0.2	75
NM6 Chancery Mansion	20-Oct-12	Sunny	66.4	68.2	62.4	Excavation, crawler crane (within the project site)	Traffic Noise	0.3	75
NM6 Chancery Mansion	26-Oct-12	Cloudy	72.8	75.0	68.6	Breaker, crawler crane (within the project site)	Traffic Noise	0.5	75

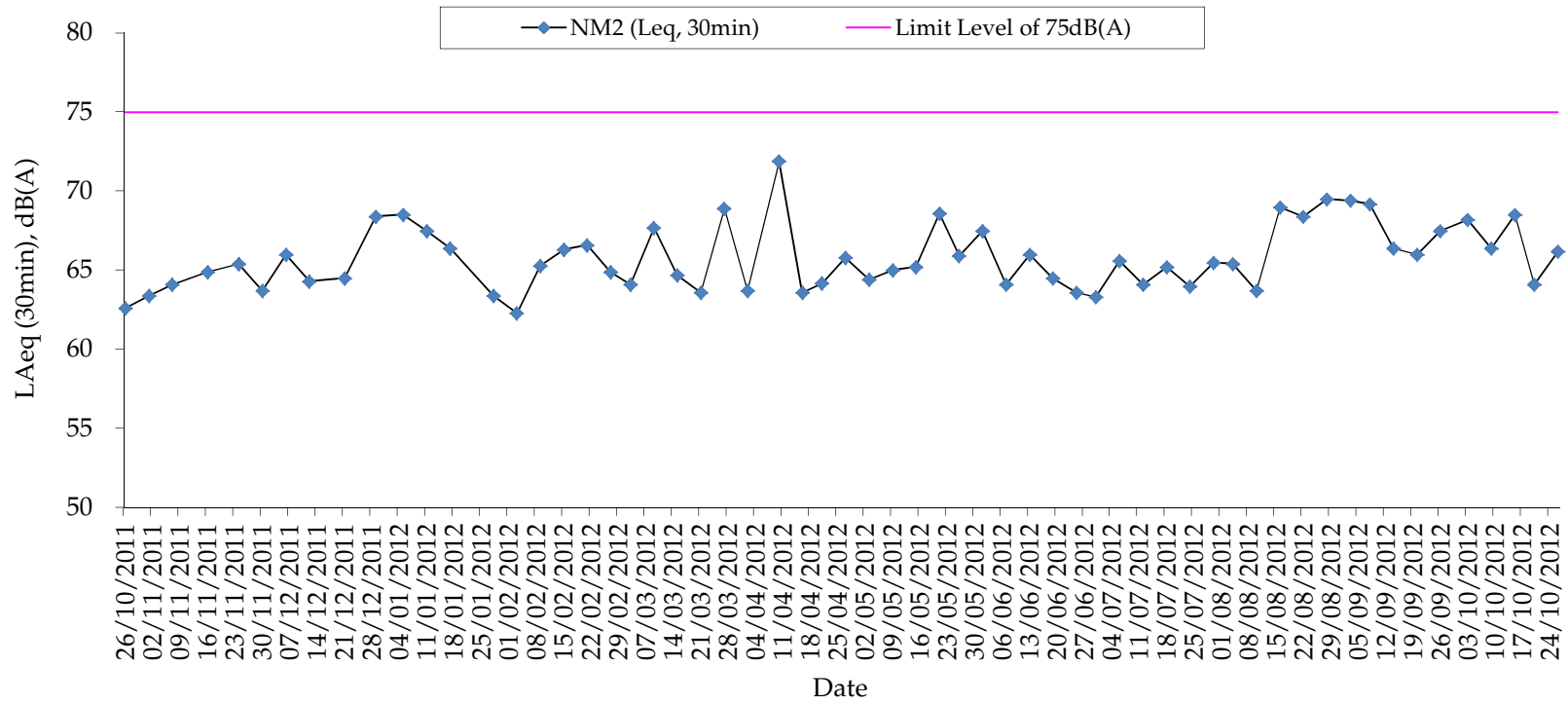
Normal Weekdays Noise Monitoring Results at NM6 - Chancery Mansion (Leq, 30min)



Remark:

- 75dB(A) was adopted as the Limit Level during normal weekdays in the reporting period

Normal Weekdays Noise Monitoring Results at NM2 - Ho Fook Building (Leq, 30min)



Remark:
 - 75dB(A) was adopted as the Limit Level during normal weekdays in the reporting period

Annex H

Construction Programme of the Project

Activity ID	Activity Description	Duration in Days	2011		2012				2013				2014				2015				2016																																	
			J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
GENERAL																																																						
S110	PRECONSTRUCTION WORKS	592	PRECONSTRUCTION WORKS																																																			
EXISTING BUILDINGS																																																						
160010	BLOCK 16 WORKSHOP & LAUNDRY (DEMOLITION WORKS)	198	BLOCK 16 WORKSHOP & LAUNDRY (DEMOLITION WORKS)																																																			
180010	BLOCK 18/14 ANNEX/BLDG F/G/H/ (DEMOLITION WORKS)	149	BLOCK 18/14 ANNEX/BLDG F/G/H/ (DEMOLITION WORKS)																																																			
080010	BLOCK 08 ABLUTIONS BLOCK	731	BLOCK 08 ABLUTIONS BLOCK																																																			
170005	BLOCK 17 F HALL	593	BLOCK 17 F HALL																																																			
010005	BLOCK 01 POLICE HEADQUARTERS BLOCK	593	BLOCK 01 POLICE HEADQUARTERS BLOCK																																																			
140005	BLOCK 14 D HALL	645	BLOCK 14 D HALL																																																			
120010	BLOCK 12 B HALL	341	BLOCK 12 B HALL																																																			
110010	BLOCK 11 A HALL	311	BLOCK 11 A HALL																																																			
100010	BLOCK 10 SUPERINTENDENT'S HOUSE	484	BLOCK 10 SUPERINTENDENT'S HOUSE																																																			
130010	BLOCK 13 C HALL	484	BLOCK 13 C HALL																																																			
060005	BLOCK 06 MARRIED SERGEANTS' QUARTERS	223	BLOCK 06 MARRIED SERGEANTS' QUARTERS																																																			
070005	BLOCK 07 SINGLE INSPECTORS' QUARTERS	225	BLOCK 07 SINGLE INSPECTORS' QUARTERS																																																			
030005	BLOCK 03 BARRACK BLOCK	440	BLOCK 03 BARRACK BLOCK																																																			
020005	BLOCK 02 ARMOURY	392	BLOCK 02 ARMOURY																																																			
090005	BLOCK 09 CENTRAL MAGISTRACY	392	BLOCK 09 CENTRAL MAGISTRACY																																																			
150010	BLOCK 15 E HALL	304	BLOCK 15 E HALL																																																			
040005	BLOCK 04 MARRIED INSPECTORS' QUARTERS	349	BLOCK 04 MARRIED INSPECTORS' QUARTERS																																																			
190005	BLOCK 19 BAUHINIA HOUSE	277	BLOCK 19 BAUHINIA HOUSE																																																			
050002	BLOCK 05 (DEMOLITION WORKS)	119	BLOCK 05 (DEMOLITION WORKS)																																																			
OTHER WORKS																																																						
253110	REVTMENT WALL / U/G UTILITIES / ROAD WORKS	679	REVTMENT WALL / U/G UTILITIES / ROAD WORKS																																																			
NEW BUILDINGS																																																						
S200	OBW OLD BAILEY WING	1,097	OBW OLD BAILEY WING																																																			
S300	AW ARBUTHNOT WING	1,056	AW ARBUTHNOT WING																																																			
BASEMENT PLANTROOM AND SERVICES TRENCH																																																						
202005	BASEMENT PLANTROOM / SERVICES TRENCH	588	BASEMENT PLANTROOM / SERVICES TRENCH																																																			
NEW FOOTBRIDGE																																																						
2300125	PROPOSED FOOTBRIDGE	699	PROPOSED FOOTBRIDGE																																																			



T76G

**CENTRAL POLICE STATION CONSERVATION AND REVITALIZATION
(MANAGEMENT CONTRACT)
CONSTRUCTION PROGRAMME
SUMMARY PROGRAMME**

Sheet 1 of 1

Date		Revision		Checked	Approved
13NOV12	for EPD				

GCL / P / J3416 /SUM/CP01

Annex I

Waste Flow Table

Annex I – Waste Flow Table

Month / Year	Quantity										
	C&D Materials (inert) (tonnes) ^(a)	Number of Trucks for C&D Materials Disposal (inert)	Volume of C&D Materials (inert) (m ³) ^(c)	C&D Materials (non-inert) (tonnes) ^(b)	Number of Trucks for C&D Materials Disposal (non-inert)	Volume of C&D Materials (non-inert) (m ³) ^(c)	Chemical Waste (Solid) /kg)	Chemical Waste (Liquid/L)	Recycled materials		
									Paper/cardboard (kg)	Plastics (kg)	Metals (kg)
October 2011 – November 2011	0	0	0	33.5	12	58.50	0	0	38	6	36423
December-11	0	0	0	18.25	6	29.25	0	0	112	0	24000
January-12	338.3	40	195.00	16.88	5	24.38	2400	0	0	0	3820
February-12	222.08	15	73.13	17.13	5	24.38	1400	0	223	0	8910
March-12	666.43	62	302.25	28.56	9	43.88	3200	0	0	0	48490
April-12	688.68	72	351.00	17.54	5	24.38	0	0	0	0	124030
May-12	492.33	61	297.38	36.33	13	63.38	0	0	266	0	0
June-12	383.11	45	219.38	27.41	8	39.00	40	45	0	0	1100
July-12	217.98	25	121.88	23.22	8	39.00	0	0	302	0	1750
August-12	341.87	42	204.75	48.87	16	78.00	0	0	0	0	2310
September-12	227.7	29	141.38	37.99	12	58.50	0	0	383	0	1410
October-12	290.58	44	214.50	30.34	8	39.00	0	0	86	0	3150
Total	3869.06	435	2120.63	336.02	107	521.63	7040	45	1410	6	255393

Notes:

(a) Inert C&D materials (public fill) include bricks, concrete, building debris, rubble and excavated soil.

(b) Non-inert C&D materials include steel, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Steel materials generated from the Project are grouped into construction wastes as the materials were not disposed of with other inert C&D materials and were recycled. The non-inert C&D materials other than steel, plastics and paper/ cardboard packaging were disposed of at SENT Landfill.

(c) If necessary, use the conversion factor: 3/4 load of dumping truck being equivalent to 6.5 m³ by volume.

Annex J

Environmental Complaint,
Enquiry, Environmental
Summons and Prosecution
Log

Annex J Cumulative Complaint and Summons/Prosecutions Log

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
November 2011	0	0
December 2011	0	0
January 2012	0	0
February 2012	0	0
March 2012	4	0
April 2012	0	0
May 2012	0	0
June 2012	2	0
July 2012	1	0
August 2012	0	0
September 2012	0	0
October 2012	0	0
Overall Total	7	0

COMPLAINT INVESTIGATION FORM

Basic Information of Complaint

Log Number:	2012/03/001
Date of Complaint Received	2 March 2012
Location of Complaint	Project Site
Nature of Complaint	Noise and Light nuisance
Complaint Received by	GCL
Complainant	An adjacent resident [REDACTED]

Details of Complaint

On 2 March, GCL received a complaint on the following aspects:

1. Noise generated from people speaking loudly and noisy construction work during day time. The complainant did not specify the exact date, time and type of noise.
2. Noise nuisance was noted from people and vehicle delivery nearby the project site at night time. No specific date, time and exact location were given.
3. Light nuisance caused by spot light along Old Bailey Street was noted during the night time. The complainant did not specify the date, time and exact location of the light.

Investigation Report

1. According to the works summary provided by the Contractor, construction work conducted included demolition works between Block 3 and Block 8, and Block 9, modification works of the site gantry nearby Block 8, minor sundry enabling/opening up works. No night-time works were conducted.
2. Weekly daytime noise measurement were conducted at NM2 (Ho Fook Building) along Old Bailey Street and the recorded noise levels are in a range of 64.9 and 66.6 dB(A) measured on 15 Feb, 21 Feb and 27 Feb 2012. The measured noise levels complied with the noise criterion and no exceedance were recorded.
3. Regarding the noise from the people during daytime, workers within the worksites, pedestrians or adjacent users along Bailey Street may be the sources of the noise from the people as no sufficient information was provided by the complainant.
4. Regarding the noise from the noisy construction works, the measured noise levels showed that no exceedance of the noise criteria.
5. Regarding the noise generated from people and vehicle delivery at night-time, since no night-time construction works were conducted, the noise generated from people and vehicle delivery at night-time should not be related to the Project.
6. Regarding the light nuisance, the possible source of glare would be the two spotlights installed near the entrance of the gate at Old Bailey Street.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

Based on the above investigation, although some issues are not related to Projects, the following mitigation measures are proposed to Contractor to further minimize the nuisance to the adjacent users:

- Remind the workers to lower down the voice especially outside the site area during day time and night time if night-time work is conducted;
- Provide acoustic curtain to further reduce the noise generated from the demolition work;
- Switch off the spot light automatically near the entrance of gate at Old Bailey Street after 8:00pm. All lights should be directed towards the project site.

The Contractor are also reminded to implement all relevant noise and landscape and visual mitigation measures pecified in the EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project to avoid causing noise and light nuisance.

The Contractor has implemented the above mitigation measures/recommendations on 3 March 2012.

Date of File Closed : 6 March 2012

Approved and Filed by:



(Winnie Ko, ET Leader)

Date: 7 March 2012

COMPLAINT INVESTIGATION FORM

Basic Information of Complaint

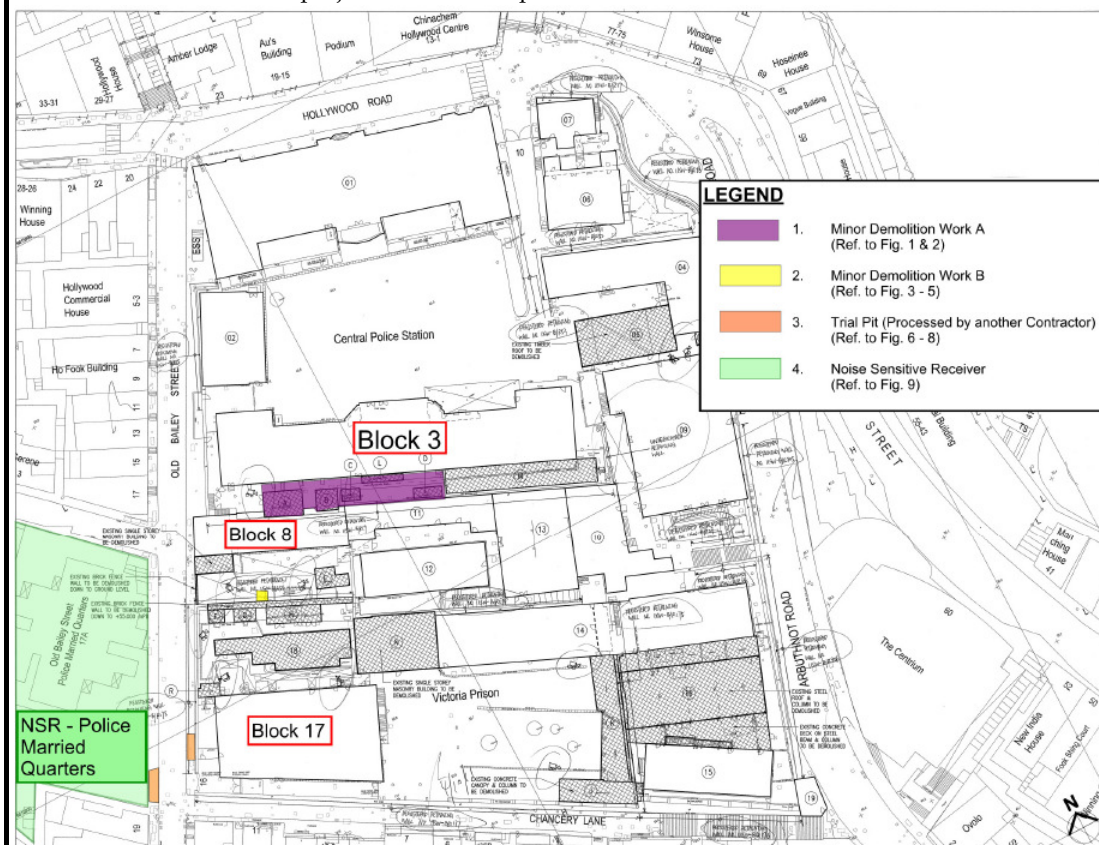
Log Number:	2012/03/002
Date of Complaint Received	7 March 2012
Location of Complaint	Project Site and Old Bailey Street
Nature of Complaint	Noise nuisance
Complaint Received by	GCL
Complainant	A resident of [REDACTED]

Details of Complaint

On 7 March, GCL received a complaint from a resident of [REDACTED] on the noise nuisance from construction work since the morning time. The complainant requested for the completion date of the noisy construction work.

Investigation Report

1. According to the works summary provided by the Contractor, construction work conducted included demolition works between Block 3 and Block 8, and nearby Block 8 and gantry entrance; and asbestos abatement work at Block 16. It was also noted that trial pit work for WSD’s project was conducted by another contractor at Old Bailey Street.
2. It was noted that the location of the trial pit work is nearer to the residence of the complainant compared to the construction works of the project (see the figure below). Both the construction works by another contractor at Old Bailey Street and within the project site could be possible sources of noise nuisance.



Mitigation Measures and Follow-Up Actions Recommended to Contractor

Based on the above investigation, the following mitigation measures are proposed to the Contractor to further minimize the nuisance to the adjacent users:

- Provide acoustic curtain to reduce the noise generated from the demolition work; and
- Install a silencer to the breaker used.

The Contractor has replied to the complainant on 7 March 2012 that the construction work at Old Bailey Street would be completed within two days 9 (as indicated verbally by WSD's contractor) and the demolition work within the project site would be completed by end of Mar 2012 and the above mitigation measures will be implemented.

The Contractor are also reminded to implement all relevant noise and landscape and visual mitigation measures specified in the EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project to avoid causing noise and light nuisance.

The Contractor has implemented the above mitigation measures/recommendations on 8 March 2012.

Date of File Closed : 9 March 2012

Approved and Filed by: _____



(Winnie Ko, ET Leader)

Date: 9 March 2012

COMPLAINT INVESTIGATION FORM

Basic Information of Complaint

Log Number:	2012/03/003
Date of Complaint Received	22 March 2012
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Hong Kong Jockey Club (HKJC)
Complainant	██████████ ██████████ ██████████)

Details of Complaint

On 22 March, HKJC received a complaint on the following aspects:

1. The construction work has commenced too early in the morning (at around 8am) and caused noise nuisance to the tenants.
2. Heavy / noisy machinery was used early in the morning and the complainant has suggested to arrange heavy construction works 30 mins to an hour later.
3. The complainant has suggested to install sound barriers to reduce the noise level.

Investigation Report

1. According to the works summary provided by the Contractor, construction work conducted included demolition works between Block 3 and Block 8, and Block 16; minor works to set up the crawler crane and piling machine around Block 18.
2. Weekly daytime noise measurement were conducted at NM1 ██████████ along Chancery Lane and the recorded noise level is 67.7 dB(A) measured on 21March 2012 (a day before the date of complaint received). The measured noise level is below the noise criterion.
3. Regarding the noise generated from the construction works, the measured noise levels showed that no exceedance of the noise criteria.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

Based on the above investigation, the following mitigation measures are proposed to minimize the noise nuisance to the adjacent users:

- Provide acoustic curtain and silencer to the handheld mechanical equipment, and adopt a quieter demolition method (e.g. the use of crusher) to further reduce the noise generated from the demolition work;
- Provide enclosure to the coming piling works to reduce the noise generated during piling; and
- Arrange heavy/noisy construction works to be conducted after 8:30am to avoid noise nuisance to the adjacent residents.

The Contractor are also reminded to implement all relevant noise mitigation measures specified in the EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project to avoid causing noise nuisance.

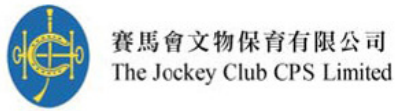
Date of File Closed : 3 April 2012

Approved and Filed by:



(Winnie Ko, ET Leader)

Date: 3 April 2012



**Central Police Station
Conservation and Revitalisation Project**



COMPLAINT INVESTIGATION FORM

Basic Information of Complaint

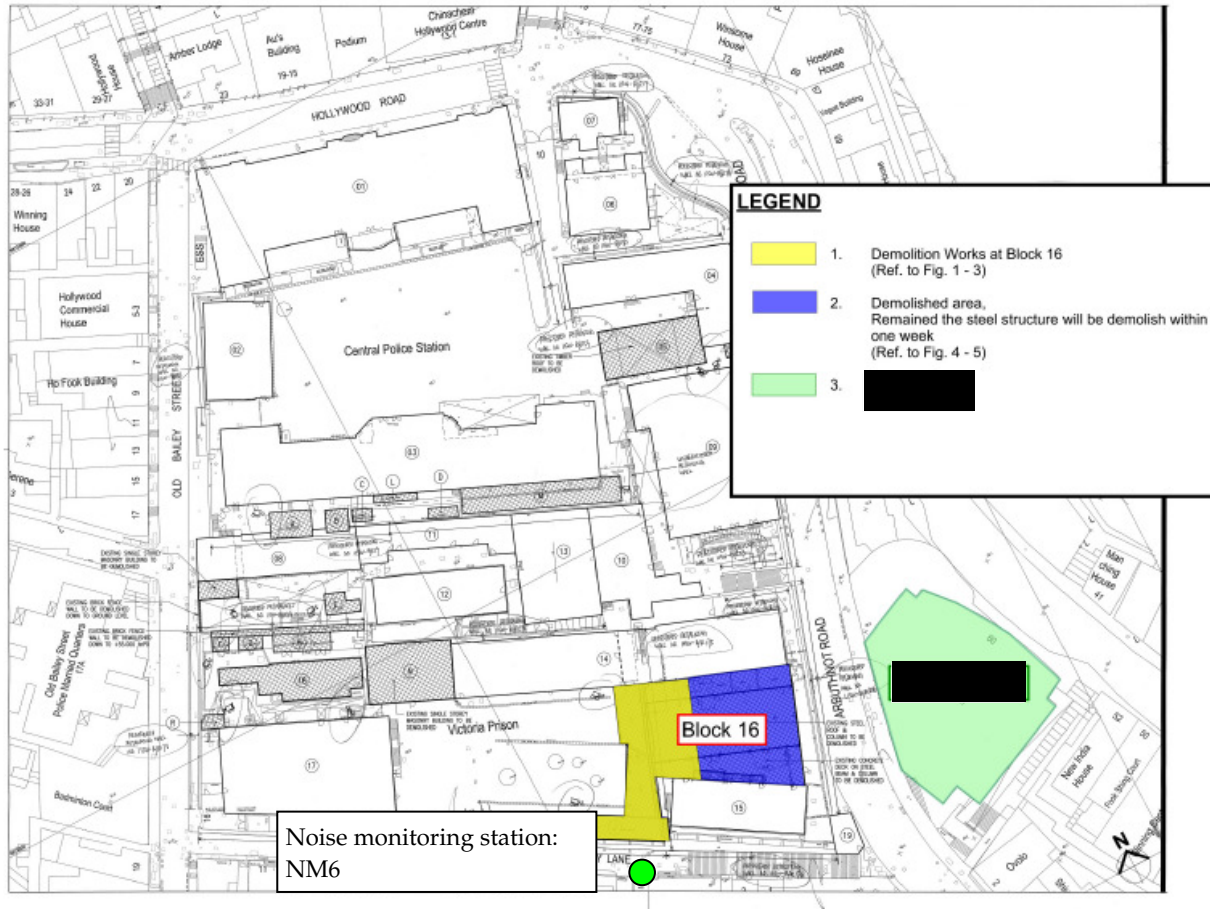
Log Number:	2012/03/004
Date of Complaint Received	28 March 2012
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Gammon Construction Limited (GCL)
Complainant	██████████ ██████████

Details of Complaint

On 28 March, GCL received a complaint from the ██████████ on the noise nuisance from demolition works within the project site opposite the ██████████ during the week.

Investigation Report

1. According to the works summary provided by the Contractor, construction work conducted during the week included demolition works at Block 16 which is located opposite the [REDACTED]



2. It was noted that the location of the demolition works at Building 16 is the nearest to the complainant. The construction noise from the demolition works at Building 16 could be possible sources of noise nuisance noted by the complainant.
3. Weekly daytime noise measurement was conducted at NM6 [REDACTED] along Chancery Lane from 11:24am to 11:54am on 27 March 2012 (a day before the date of complaint received) (see above figure) and the recorded noise level is 74.9 dB(A) . During the measurement, demolition works between Blocks 3 and 8 and at Block 16 were being carried out. The measured noise level is below the noise criterion.
4. The construction works carried out during the noise measurement is similar to that carried out during the period mentioned by the complainant and the measured noise levels showed that no exceedance of the noise criterion.
5. Although no exceedance of noise criterion is found, mitigation measures during demolition works should be recommended to further reduce the noise generated from the construction works.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

Based on the above investigation, although no exceedance of noise criteria, the noise level measured on a day before the complaint received is close to the noise criterion. Apart from implementing all relevant noise mitigation measures specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project, the following mitigation measures are proposed to further minimize the noise nuisance to the adjacent users:

- Provide acoustic curtain and silencer to the handheld mechanical equipment to further reduce the noise generated from the demolition work

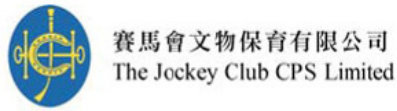
Date of File Closed : 3 April 2012

Approved and Filed by:



(Winnie Ko, ET Leader)

Date: 3 April 2012



**Central Police Station
Conservation and Revitalisation Project**



COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	2012/06/001
Date of Complaint Received	14 June 2012
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Environmental Protection Department (EPD), Mr Tang
Complainant	A neighborhood resident

Details of Complaint

EPD has received a complaint from a neighbourhood resident of Central Police Station on the noise nuisance came from Chancery Lane at 8:30pm on 13 June 2012.

Investigation Report

1. According to the works summary provided by the Contractor, no major construction activities were carried out but only manual washing of pile tube was conducted near block 17 at around 8:30pm on 13 June 2012. The location of the work area is presented in the Figure 1.

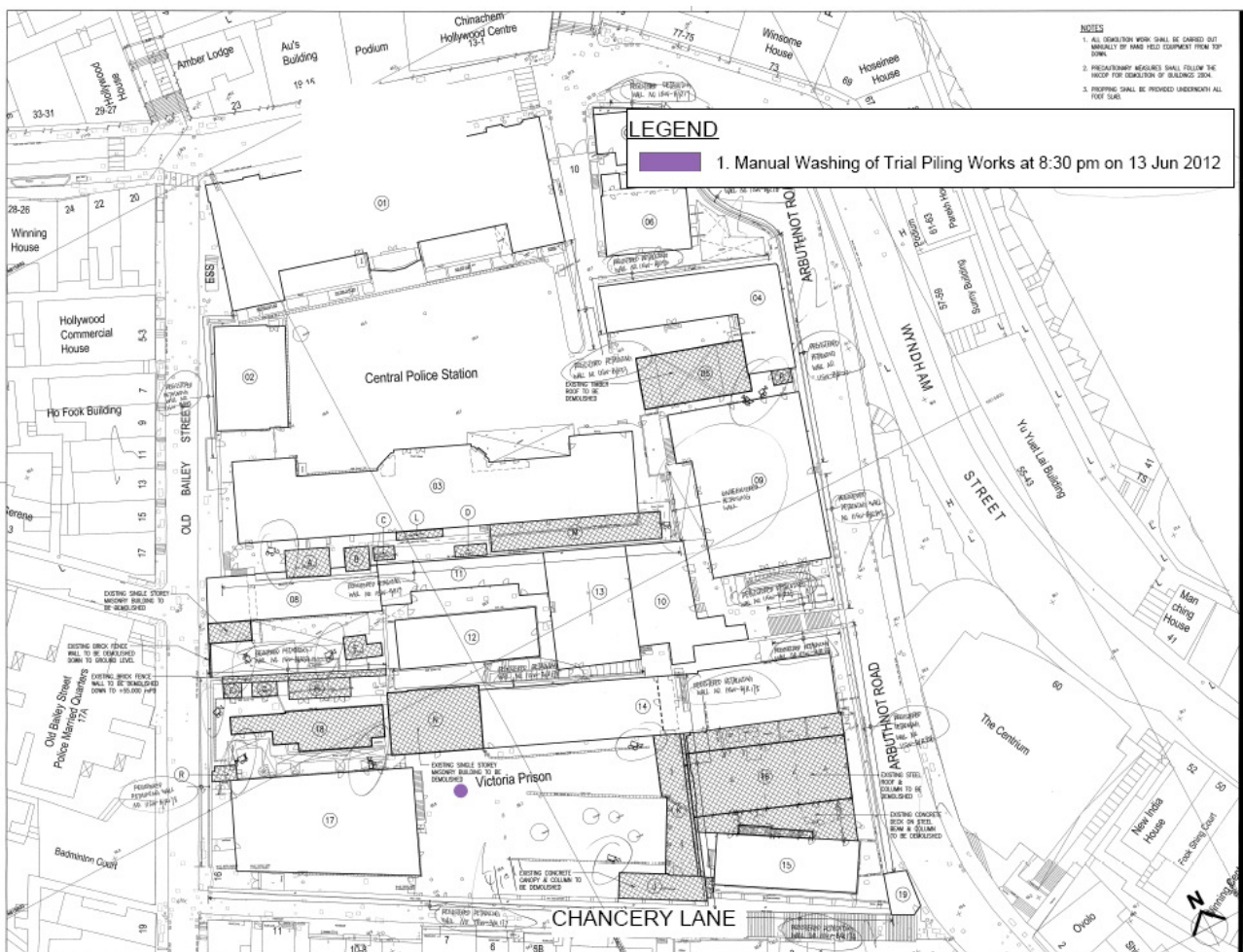


Figure 1 Site layout plan marking for Enquiry & Complaint log (CPS/E&C/06)

2. In view of the location of the information of the complaint and the location of the works taken, manual washing of pipe tube could be the possible source of noise nuisance. Follow-up action is recommended.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

The Contractor should follow all relevant noise requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor has been reminded to emphasize the legal requirement of working in the restricted hours to site management team and workers.

The following measures have been implemented by the Contractor to further minimize the noise nuisance to the adjacent users after receiving the complaint immediately:

- Reminder letters concerning the legal requirement of working in the restricted hours, period of restricted hours, application of Construction Noise Permit (CNP) and in-house rules have been issued to each work package contractor on 18 June 2012.
- An internal meeting with manager of Gammon, the Engineer and site agent has been conducted on 18 June 2012 to emphasis the application of CNP, period of restricted hours and in-house rules for working in the restricted hours.
- Besides, Tool Box Talk about good site practices, work during restricted hours and Permit to Work System will be conducted for frontline workers and operation supervisor team on 20 June 2012.

Date of File Closed : 20 June 2012

Approved by:

ET Leader

IEC

JCCPS's
Representative

Rocco Design
Architect's
Representative



(Name: Winnie Ko)
Date: 20 June 2012



(Name: Sharifah Or)
Date: 20 June 2012

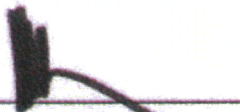


(Name: C. W. Sham)
Date: 20 Jun 2012



(Name: CHARLES KUNG)
Date: 20 Jun 2012

Gammon's
Representative



(Name: CLIFF LEUNG)
Date: 2012-06-20



賽馬會文物保育有限公司
The Jockey Club CPS Limited



**Central Police Station
Conservation and Revitalisation Project**



COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

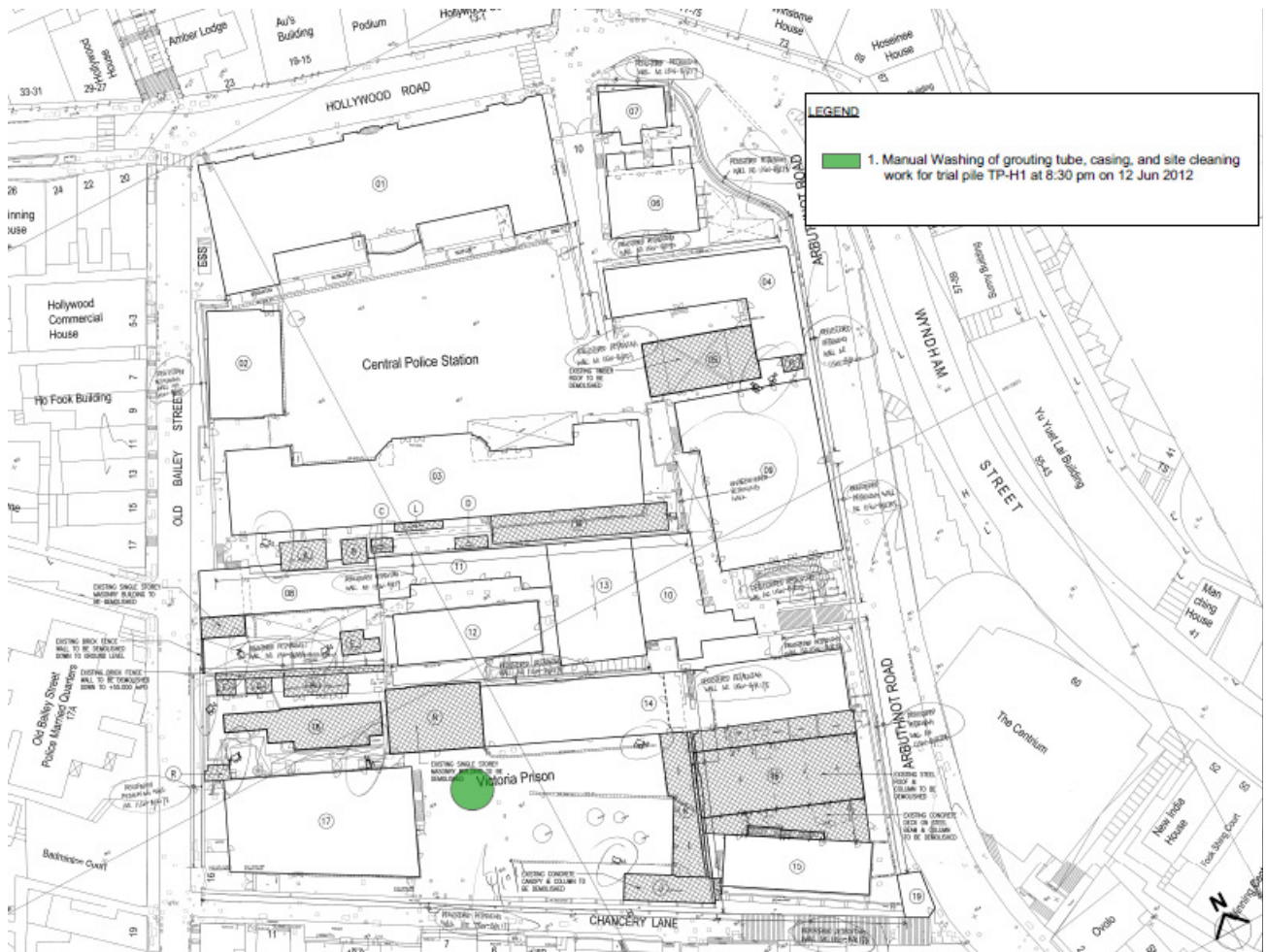
Log Number:	2012/06/002
Date of Complaint Received	28 June 2012
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Central Police Station Website, Enquiry System
Complainant	██████████

Details of Complaint

The Enquiry System of Central Police Station Website has recorded a complaint on the noise nuisance generated from the Project Site at 8:30pm on 12 June 2012. The complaint was received by Gammon Construction Limited on 28 June 2012.

Investigation Report

1. According to the information provided by the Contractor, no major construction activities were carried out, but only manual washing of grouting tube and casing and site cleaning work were conducted near Block 17 at around 8:30pm on 12 June 2012. The location of the work area is presented in the Figure 1.



2. Manual washing of grouting tube and casing and site cleaning work could be the possible source of noise nuisance. Follow-up action is recommended.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

The Contractor should follow all relevant noise requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor has been reminded to emphasize the legal requirement of working in the restricted hours to site management team and workers.

A similar complaint was received on 14 June 2012 by EPD about noise nuisance came from project site near Chancery Lane at 8:30pm on 13 June 2012, which is one day after receiving the complaint on CPS website. The following measures have been implemented by the Contractor to further minimize the noise nuisance to the adjacent users after receiving the complaint dated 14 June 2012:

- Operation team (e.g. site agent, sub-agent) has conducted site inspection at 6:00 pm since 14 June 2012 to ensure all construction works cease and to switch off the operating PME (e.g. ventilation fan) if no valid CNP was granted by the EPD;
- Reminder letters concerning the legal requirement of working in the restricted hours, period of restricted hours, application of Construction Noise Permit (CNP) and in-house rules have been issued to each work package contractor on 18 June 2012;
- Tool Box Talk about good site practices, work during restricted hours and Permit to Work System has been conducted for frontline workers and operation supervisor team on 20 June 2012;
- An internal meeting with manager of Gammon, the Engineer and site agent has been conducted to emphasize the application of CNP, period of restricted hours and in-house rules for working in the restricted hours on 18 June 2012;
- Electricity supply to the construction site has been automatically switched off at 6:50 pm besides the supply for the office and emergency lighting since 25 June 2012.

Date of File Closed : 09 July 2012

Approved by:

ET Leader

IEC

JCCPS's
Representative

Rocco Design
Architect's
Representative



(Name: Winnie Ko)
Date: 9 July 2012



(Name: Sharifah Or)
Date: 10 July 2012



(Name: KENNETH LEE)
Date: 16/7/2012



(Name: CHARLES KING)
Date: 16/7/2012

Gammon's
Representative



(Name: CLIFF (Cliff))
Date: 9 July 2012



賽馬會文物保育有限公司
The Jockey Club CPS Limited



Central Police Station
Conservation and Revitalisation Project



COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	2012/07/001
Date of Complaint Received	20 July 2012
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Police
Complainant	Not provided

Details of Complaint

Police has received a complaint on a noise nuisance in the morning on 20 July 2012. Subsequent to the receipt of the complaint, a policeman carried out a site inspection at the Project Site at 9:30am. The complaint was transferred to Gammon Construction Limited on 20 July 2012.

Investigation Report

1. According to the information provided by the Contractor, the following activities were carried out on 20 July 2012:
 - Installation of handrails and other embellishing work for the concrete spiral staircase mockup in the vicinity of the site office;
 - Underpinning works of Block 8 (i.e. outdoor rebar fixing work); and
 - Manual back filling using hand tools at the Preservation by Record Area adjoining Block 17 with the aid of a light lorry.
2. The locations of the work areas are presented in Figure 1.

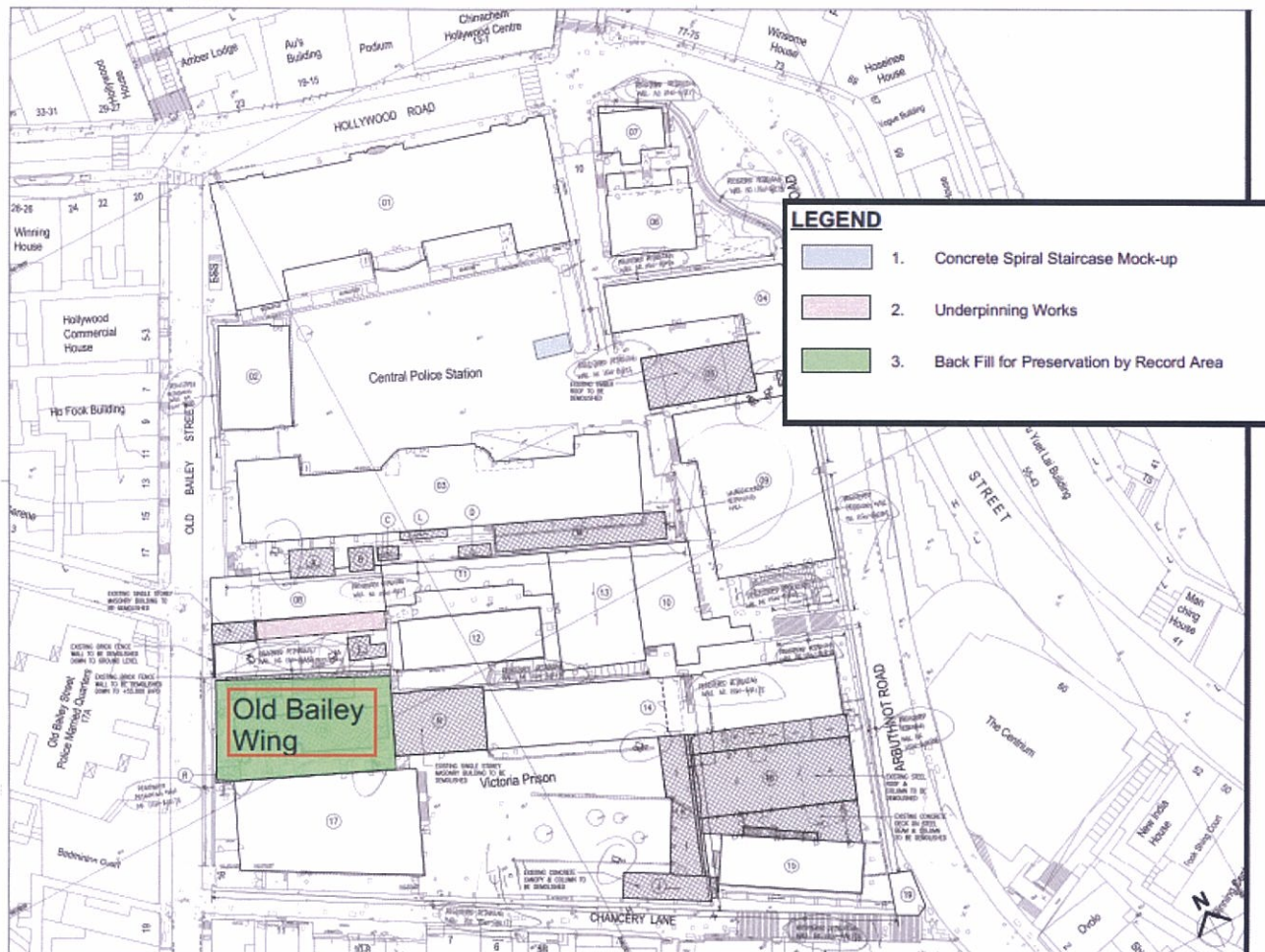


Figure 1. Locations of works being carried out on 20 July 2012

3. The above works carried out on 20 July 2012 are not considered to give rise a significant noise due to the work nature and the equipment used for each work. Handheld electric grinder and electric welding machine were only used for five to ten minutes during the embellishing work for the concrete spiral staircase mockup. Ventilation fan was used during underpinning works, while hand tools such as shovels or trowels were used for manual back filling. No major construction activities were carried out during the date of complaint. However, to avoid potential noise nuisance in the future, follow-up action is recommended.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

The Contractor should follow all relevant noise requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor has been advised to notify all workers and operation supervisor of the complaint dated 20 July 2012 and to remind them to minimise the potential noise generated as much as possible during any work activities. The Contractor has also been recommended to provide Tool Box Training about good site practices, work during restricted hours and Permit to Work System to all frontline workers and operation supervisor. Additionally, the Contractor has been reminded to provide acoustic curtain, where applicable, to the handheld mechanical equipment and properly install noise barriers during major construction activities in the future.

Date of File Closed : 26 July 2012

Approved by:

ET Leader

IEC

JCCPS's
Representative

Rocco Design
Architect's
Representative



(Name: Winnie Ko)
Date: 26 July 2012



(Name: Sharifah Or)
Date: 26 July 2012



(Name: C.W. Sham)
Date: 26 July



(Name: CHARLES KUNG)
Date: 26 July 2012

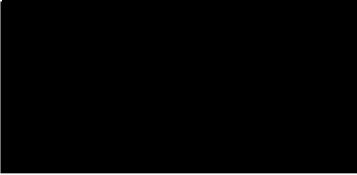
Gammon's
Representative



(Name: CLIFF LEUNG)
Date: 2012-07-26

Ref : J3416/2014.2/D01583

22 June 2012

金門建築有限公司
香港英皇道979號太古坊
德宏大廈廿八樓Tel 電話 (852) 2516 8823
Fax 傳真 (852) 2516 6260
www.gammonconstruction.comAttn : Email Dear **Central Police Station Revitalization**


Thank you for your enquiry regarding construction noise coming from our CPS Revitalization project site.

Please accept my sincerely apology for having caused inconvenience to your tenants. To reduce construction noise, we have adopted various measures including but not limited to the following:-

1. Use pneumatic crusher instead of breaker for demolition works as far as practicable.
2. Cover the demolition area with acoustic blankets.
3. Cover the breaker with acoustic blankets.

In addition, we have delayed the start time of heavy machinery operation from 7:00am (per Noise Control Ordinance) to around 8.30am and 9.00am so, as to minimize disturbing the neighbourhood.

We also monitor noise levels of construction works regularly and the noise levels are within statutory limits. In accordance with our current works schedule, heavy machinery work for this project will be completed by mid 2014.

We shall endeavour to apply noise alleviation measures to minimize the disturbance. We also appreciate your continuous feedbacks.

Yours faithfully
For and on behalf of
Gammon Construction Limited



Cliff Leung
Senior Project Manager

CL/ic



Annex K

Records of Vibration
Monitoring for Demolition
Works, Trial Piling and
Piling Works

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

**Record of
Vibration Monitoring for
Demolition Works at
Central Police Station Compound at
No. 10, Hollywood Road
(7 January 2012 ~ 17 January 2012)**

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Stage: Initial Stage (Baseline)

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	No demolition activity
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	
23 Dec 2011	14:40	VM7	0.13	5	
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Stage: Stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
7 Jan 2012	14:19	VM1	0.63	5	Demolition of E, F, G, H, N, R, 18, 8a,
7 Jan 2012	14:28	VM4	1.27	5	
7 Jan 2012	14:39	VM5	0.51	5	
7 Jan 2012	13:44	VM6	1.02	5	
7 Jan 2012	14:47	VM7	0.25	5	
7 Jan 2012	14:08	VM8	1.27	5	
7 Jan 2012	13:36	VM9	0.89	5	
7 Jan 2012	13:52	VM10	0.38	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
9 Jan 2012	11:20	VM1	0.51	5	Demolition of E, F, G, H, N, R, 18, 8a,
9 Jan 2012	11:29	VM4	0.38	5	
9 Jan 2012	11:37	VM5	0.25	5	
9 Jan 2012	10:41	VM6	0.25	5	
9 Jan 2012	11:46	VM7	0.25	5	
9 Jan 2012	11:11	VM8	0.51	5	
9 Jan 2012	10:49	VM9	0.51	5	
9 Jan 2012	10:57	VM10	1.27	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
10 Jan 2012	10:38	VM1	0.38	5	Demolition of E, F, G, H, N, R, 18, 8a,
10 Jan 2012	10:48	VM4	0.63	5	
10 Jan 2012	11:02	VM5	0.51	5	
10 Jan 2012	10:07	VM6	1.78	5	
10 Jan 2012	11:02	VM7	0.25	5	
10 Jan 2012	10:28	VM8	0.76	5	
10 Jan 2012	09:57	VM9	1.52	5	
10 Jan 2012	10:17	VM10	0.63	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
11 Jan 2012	10:49	VM1	0.38	5	Demolition of E, F, G, H, N, R, 18, 8a,
11 Jan 2012	10:59	VM4	1.27	5	
11 Jan 2012	11:06	VM5	0.25	5	
11 Jan 2012	10:26	VM6	1.65	5	
11 Jan 2012	11:14	VM7	0.25	5	
11 Jan 2012	10:35	VM8	1.14	5	
11 Jan 2012	10:17	VM9	0.38	5	
11 Jan 2012	10:10	VM10	1.14	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
12 Jan 2012	11:16	VM1	0.51	5	Demolition of E, F, G, H, N, R, 18, 8a,
12 Jan 2012	11:25	VM4	0.76	5	
12 Jan 2012	11:33	VM5	0.13	5	
12 Jan 2012	10:48	VM6	1.27	5	
12 Jan 2012	11:41	VM7	0.89	5	
12 Jan 2012	11:05	VM8	0.25	5	
12 Jan 2012	10:40	VM9	0.76	5	
12 Jan 2012	10:56	VM10	0.25	5	

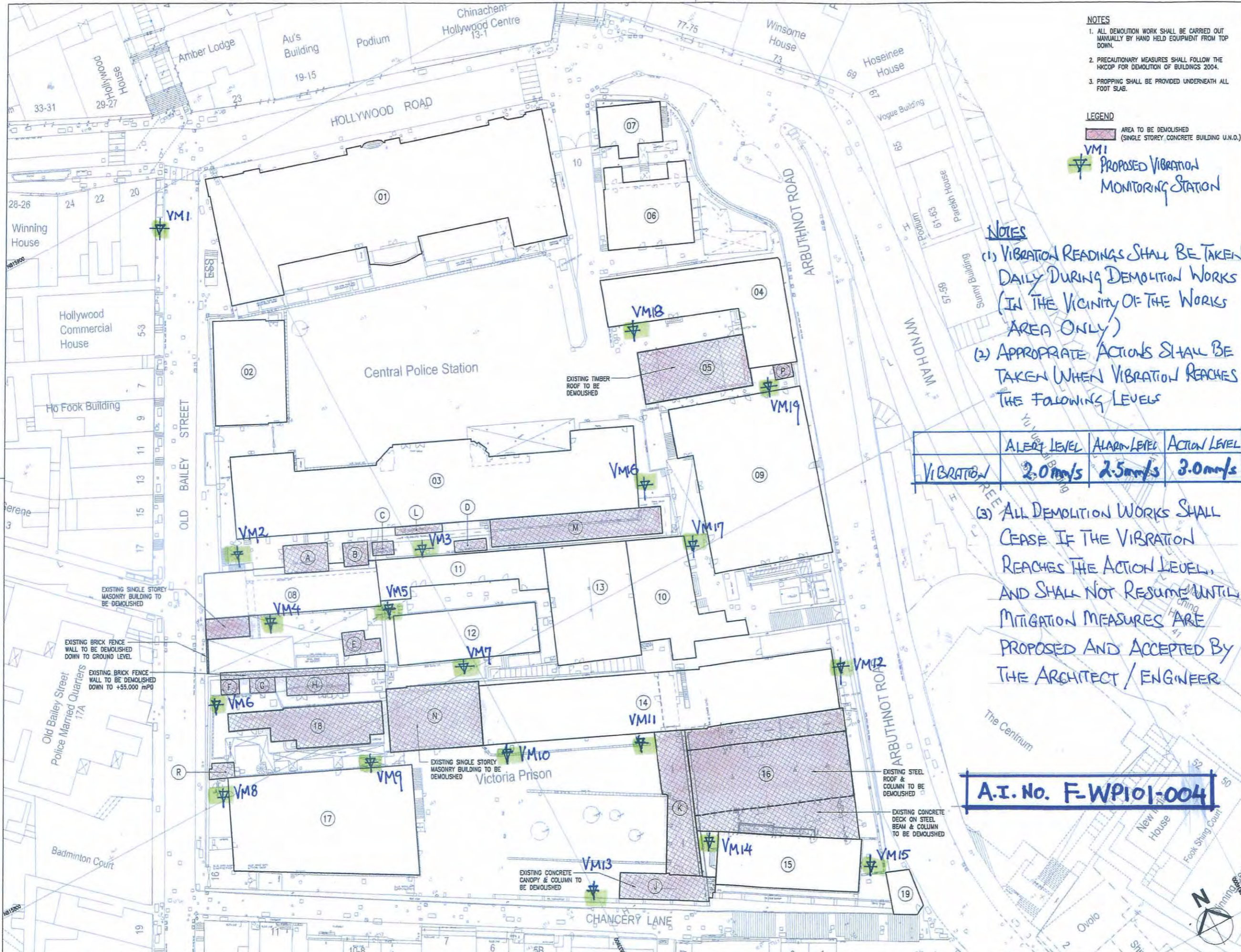
Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
13 Jan 2012	10:58	VM1	0.51	5	Demolition of E, F, G, H, N, R, 18, 8a,
13 Jan 2012	11:08	VM4	0.78	5	
13 Jan 2012	11:19	VM5	0.51	5	
13 Jan 2012	10:29	VM6	0.13	5	
13 Jan 2012	11:27	VM7	0.63	5	
13 Jan 2012	10:49	VM8	0.51	5	
13 Jan 2012	10:40	VM9	0.25	5	
13 Jan 2012	10:23	VM10	0.25	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
14 Jan 2012	10:58	VM1	0.51	5	Demolition of E, F, G, H, N, R, 18, 8a,
14 Jan 2012	11:08	VM4	0.78	5	
14 Jan 2012	11:19	VM5	0.51	5	
14 Jan 2012	10:29	VM6	0.13	5	
14 Jan 2012	11:27	VM7	0.63	5	
14 Jan 2012	10:49	VM8	0.51	5	
14 Jan 2012	10:40	VM9	0.25	5	
14 Jan 2012	10:23	VM10	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
16 Jan 2012	11:03	VM1	0.51	5	Demolition of E, F, G, H, N, R, 18, 8a,
16 Jan 2012	11:13	VM4	0.68	5	
16 Jan 2012	11:24	VM5	0.45	5	
16 Jan 2012	10:34	VM6	0.15	5	
16 Jan 2012	11:32	VM7	0.55	5	
16 Jan 2012	10:54	VM8	0.45	5	
16 Jan 2012	10:45	VM9	0.25	5	
16 Jan 2012	10:28	VM10	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
17 Jan 2012	10:42	VM1	0.51	5	Demolition of E, F, G, H, N, R, 18, 8a,
17 Jan 2012	10:53	VM4	0.51	5	
17 Jan 2012	10:59	VM5	0.13	5	
17 Jan 2012	10:25	VM6	0.63	5	
17 Jan 2012	11:09	VM7	0.38	5	
17 Jan 2012	10:33	VM8	0.25	5	
17 Jan 2012	10:18	VM9	0.38	5	
17 Jan 2012	11:16	VM10	0.13	5	



- NOTES**
1. ALL DEMOLITION WORK SHALL BE CARRIED OUT MANUALLY BY HAND HELD EQUIPMENT FROM TOP DOWN.
 2. PRECAUTIONARY MEASURES SHALL FOLLOW THE HKCOP FOR DEMOLITION OF BUILDINGS 2004.
 3. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SLAB.

LEGEND

AREA TO BE DEMOLISHED
(SINGLE STOREY, CONCRETE BUILDING U.N.O.)

VMI
PROPOSED VIBRATION MONITORING STATION

- NOTES**
- (1) VIBRATION READINGS SHALL BE TAKEN DAILY DURING DEMOLITION WORKS (IN THE VICINITY OF THE WORKS AREA ONLY)
 - (2) APPROPRIATE ACTIONS SHALL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS

VIBRATION	ALERT LEVEL	ALARM LEVEL	ACTION LEVEL
	2.0mm/s	2.5mm/s	3.0mm/s

- (3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER

A.I. No. F-WP101-004

B.D. Ref. No. 建築署樓宇編號
22-1/3096, 10 (4)

F.S.D. Ref. No. 消防處樓宇編號

Revision/Submission 修改/提交

No. 編號	Description 說明	Date 日期	Approved 審批
01	TENDER	08/11	T.H.
02	BD SUBMISSION	08/11	T.H.



BD SUBMISSION
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Client 業主
香港賽馬會慈善信託基金
The Hong Kong Jockey Club Charities Trust

Design Consultant
HERZOG & DE MEURON

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Architect / AP
ROCCO 許李

Structural Engineer / RSE
E & M Engineer
ARUP JRP

Project 項目
CENTRAL POLICE STATION
CONSERVATION AND REVITALISATION

Drawing Title 圖名
DEMOLITION SITE PLAN
(OVERALL)
VIBRATION MONITORING

Scale 比例
1:300@A1

Drawn 繪圖
P.C.

Checked 校對
T.H.

Drawing No. 圖號
DE-OAP209674-L-100

Revision 修改版
02

11 NOV 2011
Cod. File : DC-OAP209674-L-100.dwg

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

**Record of
Vibration Monitoring for
Demolition Works at
Central Police Station Compound at
No. 10, Hollywood Road**

Report No. 3

(1 February 2012 ~ 18 February 2012)

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Stage: Initial Stage (Baseline)

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	No demolition activity
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	
23 Dec 2011	14:40	VM7	0.13	5	
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	



Demolition Works

Central Police Station Compound at No. 10, Hollywood Road

Record of Vibration Monitoring

Stage: Stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
1 Feb 2012	No Demolition Works	VM1	No Demolition Works		
1 Feb 2012		VM4			
1 Feb 2012		VM5			
1 Feb 2012		VM6			
1 Feb 2012		VM7			
1 Feb 2012		VM8			
1 Feb 2012		VM9			
1 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
2 Feb 2012	No Demolition Works	VM1	No Demolition Works		
2 Feb 2012		VM4			
2 Feb 2012		VM5			
2 Feb 2012		VM6			
2 Feb 2012		VM7			
2 Feb 2012		VM8			
2 Feb 2012		VM9			
2 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
3 Feb 2012	No Demolition Works	VM1	No Demolition Works		
3 Feb 2012		VM4			
3 Feb 2012		VM5			
3 Feb 2012		VM6			
3 Feb 2012		VM7			
3 Feb 2012		VM8			
3 Feb 2012		VM9			
3 Feb 2012		VM10			



Demolition Works

Central Police Station Compound at No. 10, Hollywood Road

Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
4 Feb 2012	No Demolition Works	VM1	No Demolition Works		
4 Feb 2012		VM4			
4 Feb 2012		VM5			
4 Feb 2012		VM6			
4 Feb 2012		VM7			
4 Feb 2012		VM8			
4 Feb 2012		VM9			
4 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
6 Feb 2012	No Demolition Works	VM1	No Demolition Works		
6 Feb 2012		VM4			
6 Feb 2012		VM5			
6 Feb 2012		VM6			
6 Feb 2012		VM7			
6 Feb 2012		VM8			
6 Feb 2012		VM9			
6 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
7 Feb 2012	No Demolition Works	VM1	No Demolition Works		
7 Feb 2012		VM4			
7 Feb 2012		VM5			
7 Feb 2012		VM6			
7 Feb 2012		VM7			
7 Feb 2012		VM8			
7 Feb 2012		VM9			
7 Feb 2012		VM10			



Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
8 Feb 2012	No Demolition Works	VM1	No Demolition Works		
8 Feb 2012		VM4			
8 Feb 2012		VM5			
8 Feb 2012		VM6			
8 Feb 2012		VM7			
8 Feb 2012		VM8			
8 Feb 2012		VM9			
8 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
9 Feb 2012	14:19	VM1	0.63	5	Fence wall along Old Bailey Street
9 Feb 2012	14:28	VM4	1.27	5	
9 Feb 2012	14:39	VM5	0.51	5	
9 Feb 2012	13:44	VM6	1.02	5	
9 Feb 2012	14:47	VM7	0.25	5	
9 Feb 2012	14:08	VM8	1.27	5	
9 Feb 2012	13:36	VM9	0.89	5	
9 Feb 2012	13:52	VM10	0.38	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
10 Feb 2012	11:20	VM1	0.51	5	Fence wall along Old Bailey Street
10 Feb 2012	11:29	VM4	0.38	5	
10 Feb 2012	11:37	VM5	0.25	5	
10 Feb 2012	10:41	VM6	0.25	5	
10 Feb 2012	11:46	VM7	0.25	5	
10 Feb 2012	11:11	VM8	0.51	5	
10 Feb 2012	10:49	VM9	0.37	5	
10 Feb 2012	10:57	VM10	1.27	5	

Demolition Works

Central Police Station Compound at No. 10, Hollywood Road

Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
11 Feb 2012	No Demolition Works	VM1	No Demolition Works		
11 Feb 2012		VM4			
11 Feb 2012		VM5			
11 Feb 2012		VM6			
11 Feb 2012		VM7			
11 Feb 2012		VM8			
11 Feb 2012		VM9			
11 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
13 Feb 2012	10:38	VM1	0.38	5	Fence wall along Old Bailey Street
13 Feb 2012	10:48	VM4	0.63	5	
13 Feb 2012	11:02	VM5	0.51	5	
13 Feb 2012	10:07	VM6	1.78	5	
13 Feb 2012	11:02	VM7	0.25	5	
13 Feb 2012	10:28	VM8	0.76	5	
13 Feb 2012	9:57	VM9	1.52	5	
13 Feb 2012	10:17	VM10	0.63	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
14 Feb 2012	10:58	VM1	0.51	5	Fence wall along Old Bailey Street
14 Feb 2012	11:08	VM4	0.78	5	
14 Feb 2012	11:19	VM5	0.57	5	
14 Feb 2012	10:29	VM6	0.13	5	
14 Feb 2012	11:27	VM7	0.63	5	
14 Feb 2012	10:49	VM8	0.51	5	
14 Feb 2012	10:40	VM9	0.25	5	
14 Feb 2012	10:23	VM10	0.25	5	



Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
15 Feb 2012	10:49	VM1	0.38	5	Block E
15 Feb 2012	10:59	VM4	1.27	5	
15 Feb 2012	11:26	VM5	0.25	5	
15 Feb 2012	10:26	VM6	1.65	5	
15 Feb 2012	11:14	VM7	0.25	5	
15 Feb 2012	10:35	VM8	1.14	5	
15 Feb 2012	10:17	VM9	0.38	5	
15 Feb 2012	10:10	VM10	1.14	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
16 Feb 2012	No Demolition Works	VM1	No Demolition Works		
16 Feb 2012		VM4			
16 Feb 2012		VM5			
16 Feb 2012		VM6			
16 Feb 2012		VM7			
16 Feb 2012		VM8			
16 Feb 2012		VM9			
16 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
17 Feb 2012	11:16	VM1	0.51	5	Revetment Wall
17 Feb 2012	11:25	VM4	0.76	5	
17 Feb 2012	11:33	VM5	0.13	5	
17 Feb 2012	10:48	VM6	1.27	5	
17 Feb 2012	11:41	VM7	0.89	5	
17 Feb 2012	11:05	VM8	0.25	5	
17 Feb 2012	10:40	VM9	0.76	5	
17 Feb 2012	10:56	VM10	0.25	5	

Demolition Works**Central Police Station Compound at No. 10, Hollywood Road****Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
18 Feb 2012	10:58	VM1	0.51	5	Revetment Wall
18 Feb 2012	11:08	VM4	0.98	5	
18 Feb 2012	11:19	VM5	0.51	5	
18 Feb 2012	10:29	VM6	0.13	5	
18 Feb 2012	11:27	VM7	0.63	5	
18 Feb 2012	10:49	VM8	0.51	5	
18 Feb 2012	10:40	VM9	0.25	5	
18 Feb 2012	10:23	VM10	0.25	5	

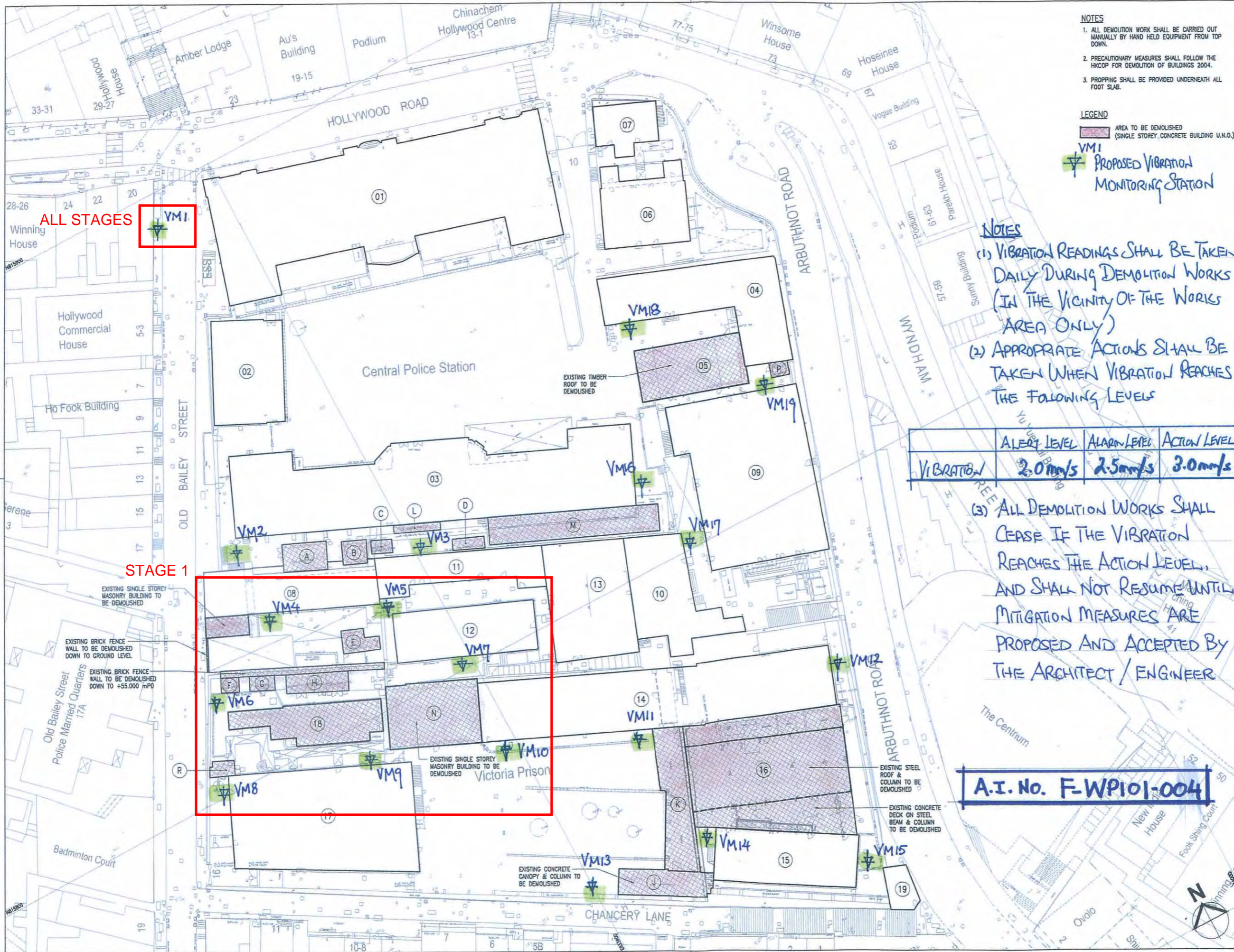
Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

**Record of
Vibration Monitoring for
Demolition Works at
Central Police Station Compound at
No. 10, Hollywood Road**

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Stage: Initial Stage (Baseline) for stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 February 2012	17:41	VM1	0.25	5	No demolition activity
24 February 2012	17:17	VM3	0.25	5	
24 February 2012	17:50	VM5	0.25	5	
24 February 2012	17:53	VM6	0.32	5	
24 February 2012	17:57	VM8	0.35	5	
24 February 2012	18:02	VM9	0.35	5	
24 February 2012	15:01	VM11	0.13	5	
24 February 2012	15:57	VM12	0.13	5	
24 February 2012	15:37	VM13	1.14	5	
24 February 2012	15:20	VM14	0.13	5	
24 February 2012	15:48	VM15	0.13	5	
24 February 2012	16:18	VM16	0.89	5	
24 February 2012	16:02	VM17	0.13	5	
24 February 2012	16:51	VM18	0.13	5	
24 February 2012	16:39	VM19	0.13	5	



NOTES

1. ALL DEMOLITION WORK SHALL BE CARRIED OUT MANUALLY BY HAND HELD EQUIPMENT FROM TOP DOWN.
2. PRECAUTIONARY MEASURES SHALL FOLLOW THE HKCOP FOR DEMOLITION OF BUILDINGS 2004.
3. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SUB.

LEGEND

■ AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

VM1 PROPOSED VIBRATION MONITORING STATION

NOTES

(1) VIBRATION READINGS SHALL BE TAKEN DAILY DURING DEMOLITION WORKS (IN THE VICINITY OF THE WORKS AREA ONLY)

(2) APPROPRIATE ACTIONS SHALL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS

VIBRATION	ALERT LEVEL	ALARM LEVEL	ACTION LEVEL
	2.0mm/s	2.5mm/s	3.0mm/s

(3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER

A.I. No. F-WP101-004

B.D. Ref. No. 22-1/3056/10 (H)

Revised/Submission 修改/提交

No. 編號	Description 說明	Date 日期	Approved 核准
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02	BD SUBMISSION	08/11	T.H.



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HERZOG & DE MEURON
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Architect / AP

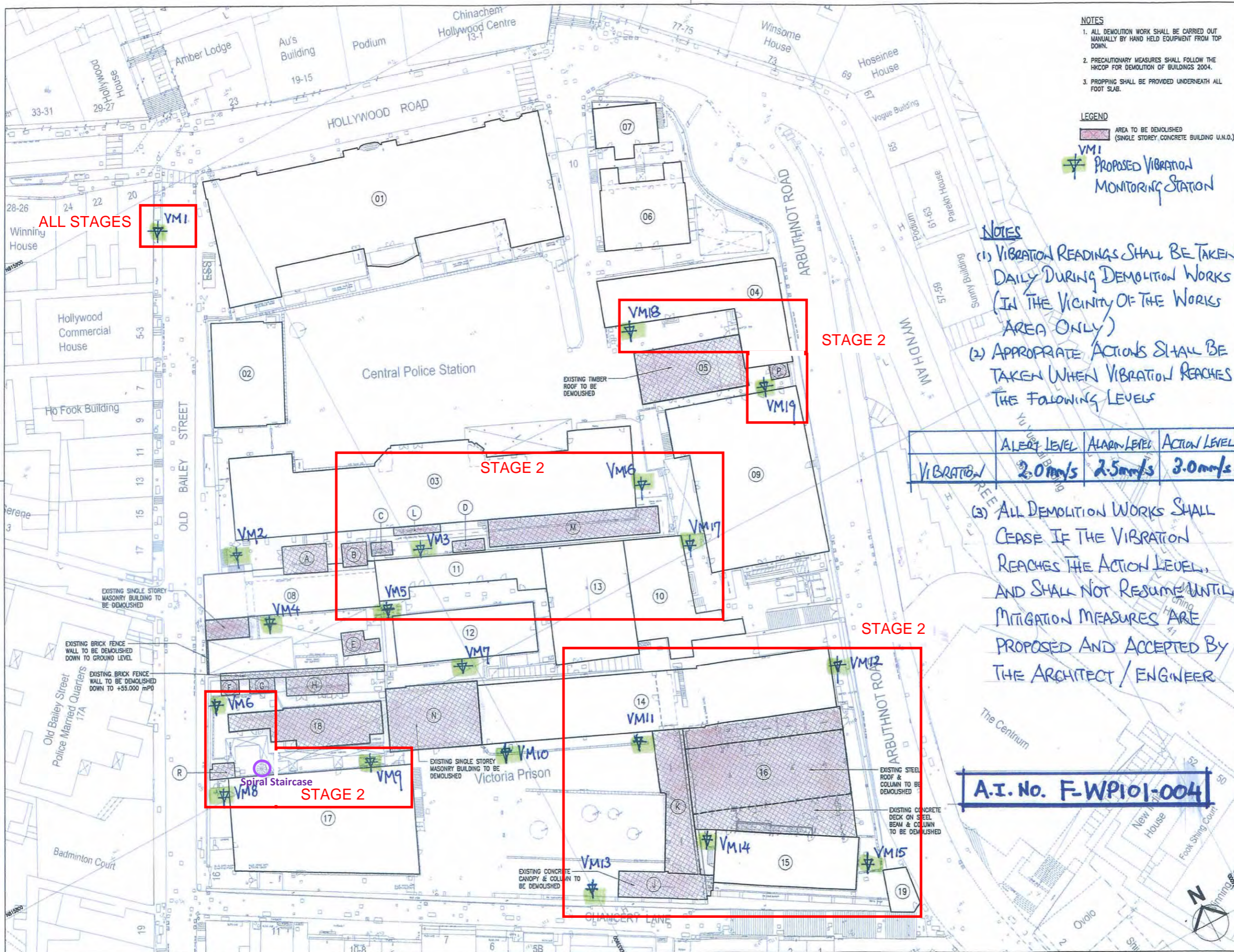
Structural Engineer / RSE E & M Engineer
ARUP JRP

Project 項目
CENTRAL POLICE STATION
CONSERVATION AND REVITALISATION

Drawing Title 圖名
DEMOLITION SITE PLAN
(OVERALL)
VIBRATION MONITORING

Scale 比例
1:3000A1
Drawing No. 圖號
DE-OAP209674-L-100 02

11 NOV 2011
Cod file : DE-OAP209674-L-100.dwg



NOTES

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- PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SUB.

LEGEND

■ AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

⚡ VM1 PROPOSED VIBRATION MONITORING STATION

NOTES

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A.I. No. F-WP101-004

B.D. Ref. No. 22-1/3056/10 (H)

Rev. No. / Submission 修改版 / 編號

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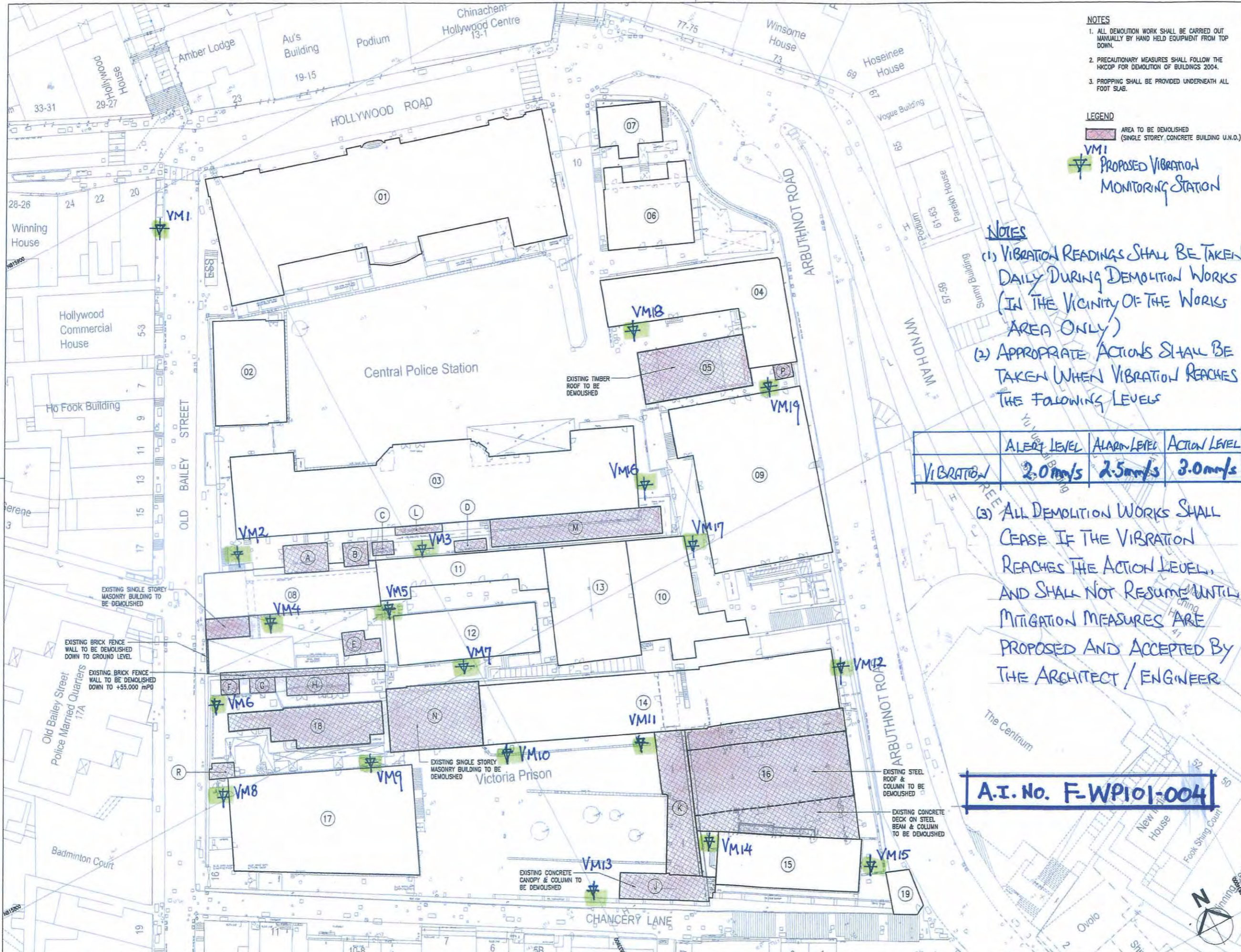
Project 項目
 CENTRAL POLICE STATION
 CONSERVATION AND REVITALISATION

Drawing Title 圖名
 DEMOLITION SITE PLAN
 (OVERALL)
 VIBRATION MONITORING

Scale 比例
 1:3000A1 P.C. T.H.

Drawing No. 圖號
 DE-OAP209674-L-100 02

11 NOV 2011
 Cod file : DE-OAP209674-L-100.dwg



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3. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SLAB.

LEGEND

AREA TO BE DEMOLISHED
(SINGLE STOREY CONCRETE BUILDING U.N.O.)

VM1
PROPOSED VIBRATION MONITORING STATION

NOTES

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VIBRATION	ALERT LEVEL	ALARM LEVEL	ACTION LEVEL
	2.0mm/s	2.5mm/s	3.0mm/s

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A.I. No. F-WP101-004

B.D. Ref. No. 建築署樓宇編號
22-1/3096, 10 (4)

F.S.D. Ref. No. 消防處樓宇編號

Revised/Submission 修改/報建

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Conservation Architect
羅敏申建築師有限公司

Architect / AP
ROCCO 許崇

Structural Engineer / RSE
E & M Engineer
ARUP JRP

Project 項目
CENTRAL POLICE STATION
CONSERVATION AND REVITALISATION

Drawing Title 圖名
DEMOLITION SITE PLAN
(OVERALL)
VIBRATION MONITORING

Scale 比例
1:300@A1

Drawn 繪圖
P.C.

Checked 校對
T.H.

Drawing No. 圖號
DE-OAP209674-L-100

Revision 修改版
02

11 NOV 2011
Cod File : DC-OAP209674-L-100.dwg

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

**Record of
Vibration Monitoring for
Demolition Works at
Central Police Station Compound at
No. 10, Hollywood Road**

Report No. 4

(20 February 2012 ~ 3 March 2012)

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Stage: Initial Stage (Baseline) for stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	No demolition activity
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	
23 Dec 2011	14:40	VM7	0.13	5	
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	

Stage: Initial Stage (Baseline) for stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 February 2012	17:41	VM1	0.25	5	No demolition activity
24 February 2012	17:17	VM3	0.25	5	
24 February 2012	17:50	VM5	0.25	5	
24 February 2012	17:53	VM6	0.32	5	
24 February 2012	17:57	VM8	0.35	5	
24 February 2012	18:02	VM9	0.35	5	
24 February 2012	15:01	VM11	0.13	5	
24 February 2012	15:57	VM12	0.13	5	
24 February 2012	15:37	VM13	1.14	5	
24 February 2012	15:20	VM14	0.13	5	
24 February 2012	15:48	VM15	0.13	5	
24 February 2012	16:18	VM16	0.89	5	
24 February 2012	16:02	VM17	0.13	5	
24 February 2012	16:51	VM18	0.13	5	
24 February 2012	16:39	VM19	0.13	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Stage: Stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
20 Feb 2012	No Demolition Works	VM1	No Demolition Works		
20 Feb 2012		VM4			
20 Feb 2012		VM5			
20 Feb 2012		VM6			
20 Feb 2012		VM7			
20 Feb 2012		VM8			
20 Feb 2012		VM9			
20 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
21 Feb 2012	No Demolition Works	VM1	No Demolition Works		
21 Feb 2012		VM4			
21 Feb 2012		VM5			
21 Feb 2012		VM6			
21 Feb 2012		VM7			
21 Feb 2012		VM8			
21 Feb 2012		VM9			
21 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
22 Feb 2012	No Demolition Works	VM1	No Demolition Works		
22 Feb 2012		VM4			
22 Feb 2012		VM5			
22 Feb 2012		VM6			
22 Feb 2012		VM7			
22 Feb 2012		VM8			
22 Feb 2012		VM9			
22 Feb 2012		VM10			

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Feb 2012	No Demolition Works	VM1			No Demolition Works
23 Feb 2012		VM4			
23 Feb 2012		VM5			
23 Feb 2012		VM6			
23 Feb 2012		VM7			
23 Feb 2012		VM8			
23 Feb 2012		VM9			
23 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 Feb 2012	No Demolition Works	VM1			No Demolition Works
24 Feb 2012		VM4			
24 Feb 2012		VM5			
24 Feb 2012		VM6			
24 Feb 2012		VM7			
24 Feb 2012		VM8			
24 Feb 2012		VM9			
24 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
25 Feb 2012	No Demolition Works	VM1			No Demolition Works
25 Feb 2012		VM4			
25 Feb 2012		VM5			
25 Feb 2012		VM6			
25 Feb 2012		VM7			
25 Feb 2012		VM8			
25 Feb 2012		VM9			
25 Feb 2012		VM10			

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
27 Feb 2012	No Demolition Works	VM1			No Demolition Works
27 Feb 2012		VM4			
27 Feb 2012		VM5			
27 Feb 2012		VM6			
27 Feb 2012		VM7			
27 Feb 2012		VM8			
27 Feb 2012		VM9			
27 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
28 Feb 2012	No Demolition Works	VM1			No Demolition Works
28 Feb 2012		VM4			
28 Feb 2012		VM5			
28 Feb 2012		VM6			
28 Feb 2012		VM7			
28 Feb 2012		VM8			
28 Feb 2012		VM9			
28 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
29 Feb 2012	No Demolition Works	VM1			No Demolition Works
29 Feb 2012		VM4			
29 Feb 2012		VM5			
29 Feb 2012		VM6			
29 Feb 2012		VM7			
29 Feb 2012		VM8			
29 Feb 2012		VM9			
29 Feb 2012		VM10			

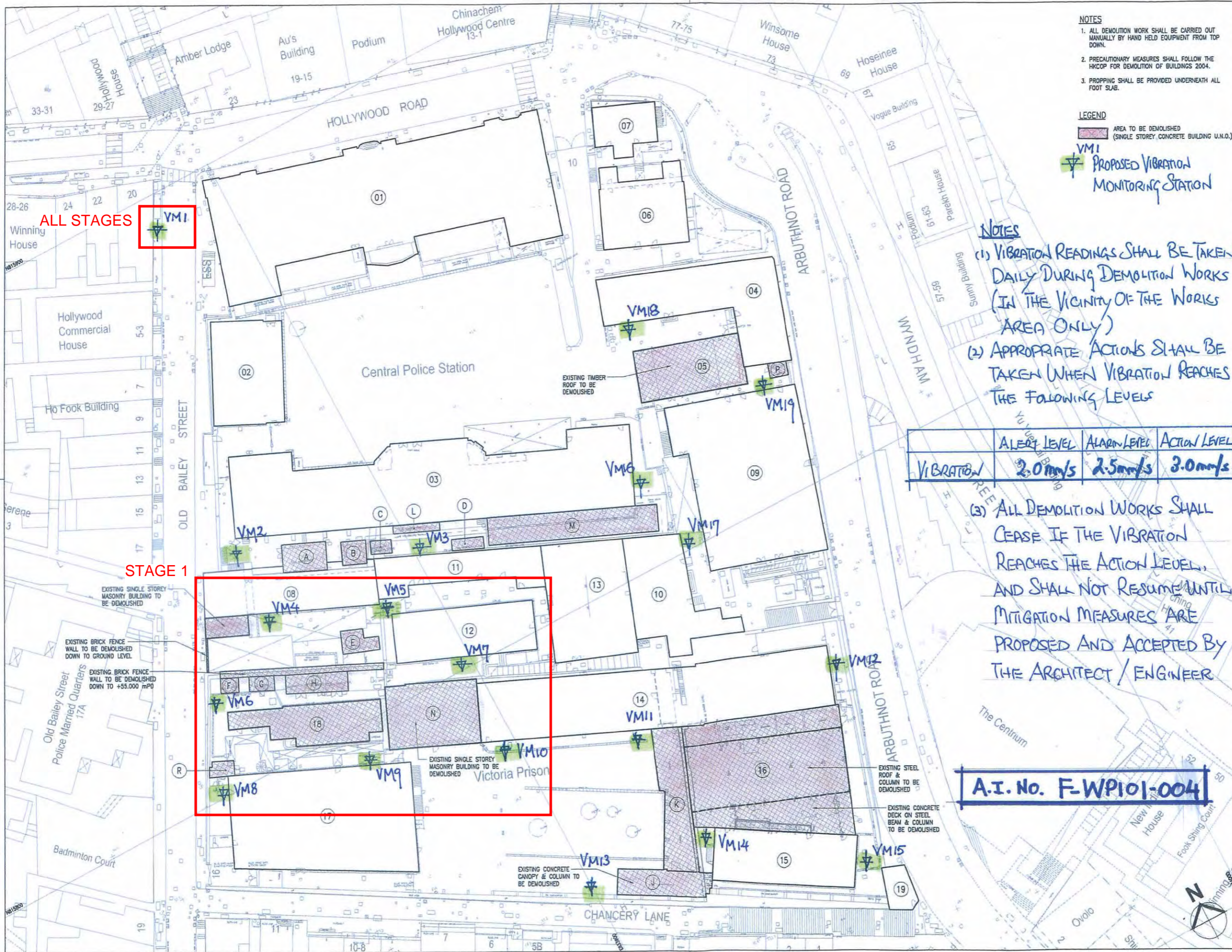
Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
1 Mar 2012	No Demolition Works	VM1	No Demolition Works		
1 Mar 2012		VM4			
1 Mar 2012		VM5			
1 Mar 2012		VM6			
1 Mar 2012		VM7			
1 Mar 2012		VM8			
1 Mar 2012		VM9			
1 Mar 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
2 Mar 2012	No Demolition Works	VM1	No Demolition Works		
2 Mar 2012		VM4			
2 Mar 2012		VM5			
2 Mar 2012		VM6			
2 Mar 2012		VM7			
2 Mar 2012		VM8			
2 Mar 2012		VM9			
2 Mar 2012		VM10			

Stage: stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
3 Mar 2012	11:48	VM1	0.52	5	Demolition of Spiral Staircase
3 Mar 2012	11:35	VM3	0.25	5	
3 Mar 2012	11:23	VM5	0.25	5	
3 Mar 2012	9:54	VM6	0.51	5	
3 Mar 2012	9:47	VM8	0.53	5	
3 Mar 2012	9:58	VM9	0.51	5	
3 Mar 2012	10:02	VM11	0.32	5	
3 Mar 2012	10:38	VM12	0.27	5	
3 Mar 2012	10:10	VM13	0.48	5	
3 Mar 2012	10:18	VM14	0.25	5	
3 Mar 2012	10:30	VM15	0.28	5	
3 Mar 2012	10:57	VM16	0.78	5	
3 Mar 2012	10:50	VM17	0.62	5	
3 Mar 2012	11:07	VM18	0.27	5	
3 Mar 2012	11:15	VM19	0.25	5	



NOTES

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3. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SUB.

LEGEND

■ AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

VM1 PROPOSED VIBRATION MONITORING STATION

NOTES

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(2) APPROPRIATE ACTIONS SHALL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS

VIBRATION	ALERT LEVEL	ALARM LEVEL	ACTION LEVEL
	2.0mm/s	2.5mm/s	3.0mm/s

(3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER

A.I. No. F-WP101-004

B.D. Ref. No. 樓宇樓宇編號
22-1/3056/10 (H)

Rev. No. 修改/修改編號

No. 編號	Description 說明	Date 日期	Approved 核准
01	TENDER	08/11	T.H.
02	BD SUBMISSION	08/11	T.H.



BD SUBMISSION
Drawing Status 製圖狀況

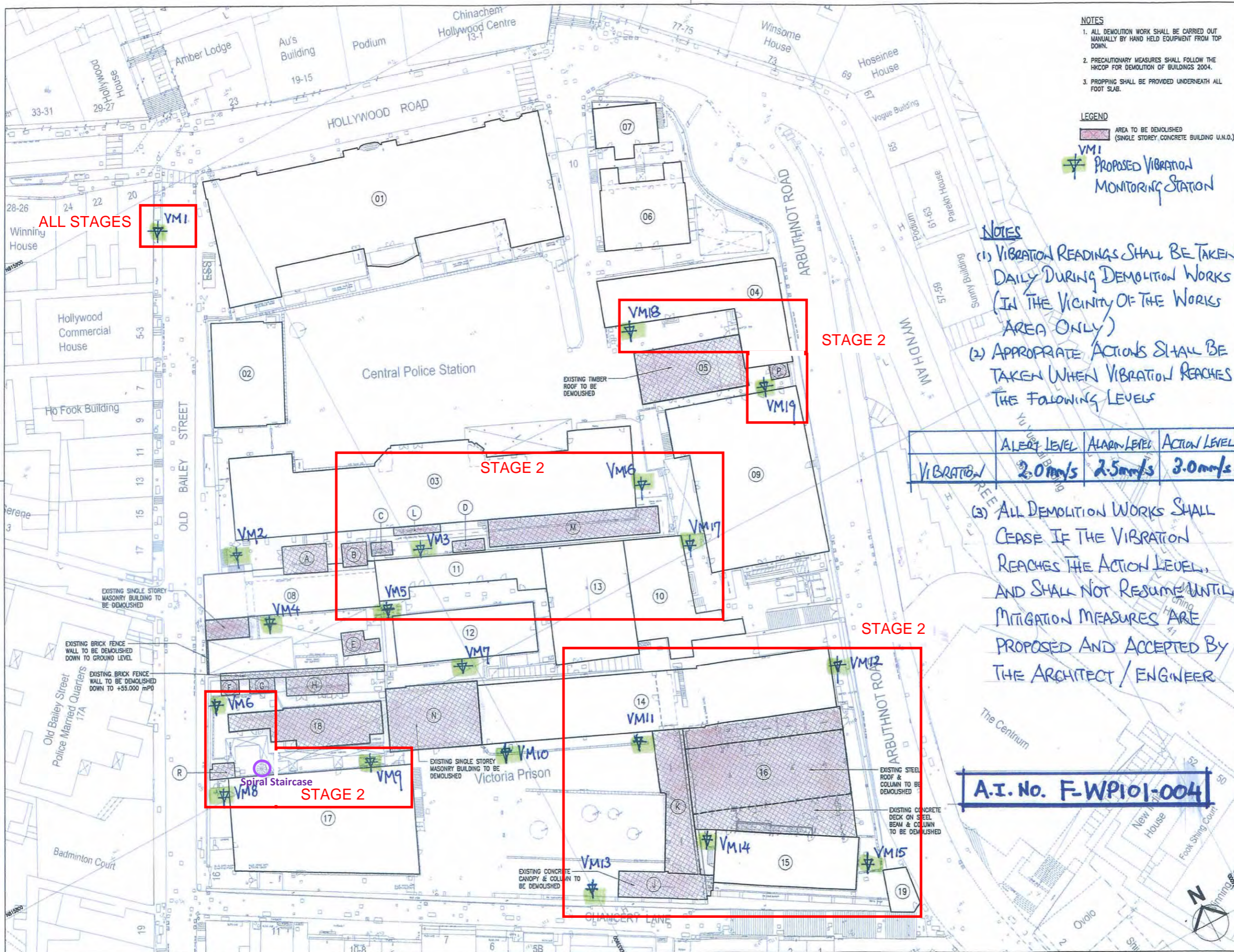
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Client 業主
The Hong Kong Jockey Club Charities Trust
Design Consultant
HERZOG & DE MEURON
Conservation Architect
Architect / AP
ROCCO 許孝

Structural Engineer / RSE E & M Engineer
ARUP JRP
Project 項目
CENTRAL POLICE STATION
CONSERVATION AND REVITALISATION

Drawing Title 圖名
DEMOLITION SITE PLAN (OVERALL)
VIBRATION MONITORING
Scale 比例
1:3000A1 P.C. T.H.
Drawing No. 圖號
DE-OAP209674-L-100 02

11 NOV 2011
Cod file : DE-OAP209674-L-100.dwg



NOTES

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LEGEND

■ AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

♣ VM1 PROPOSED VIBRATION MONITORING STATION

NOTES

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	2.0mm/s	2.5mm/s	3.0mm/s

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A.I. No. F-WP101-004

B.D. Ref. No. 樓宇樓宇編號
22-1/3056/10 (H)

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Client 業主
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Design Consultant
HERZOG & DE MEURON

Conservation Architect
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Architect / AP
ROCCO 許榮

Structural Engineer / RSE E & M Engineer
ARUP JRP

Project 項目
CENTRAL POLICE STATION
CONSERVATION AND REVITALISATION

Drawing Title 圖名
DEMOLITION SITE PLAN
(OVERALL)
VIBRATION MONITORING

Scale 比例
1:3000A1 P.C. T.H.

Drawing No. 圖號
DE-OAP209674-L-100 02

11 NOV 2011
Cod file : DE-OAP209674-L-100.dwg

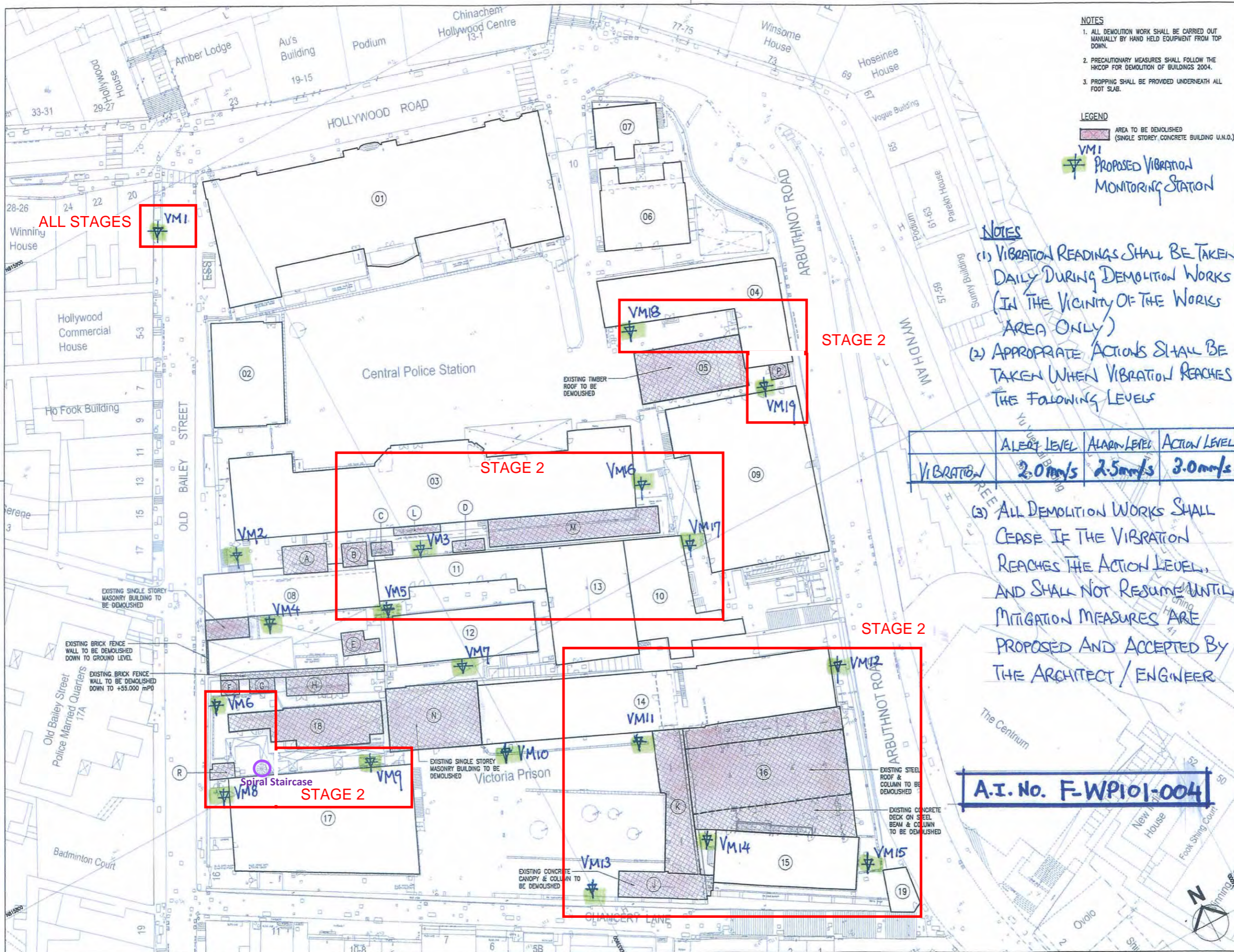
Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

**Record of
Vibration Monitoring for
Demolition Works at
Central Police Station Compound at
No. 10, Hollywood Road**

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Stage: Initial Stage (Baseline) for stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 February 2012	17:41	VM1	0.25	5	No demolition activity
24 February 2012	17:17	VM3	0.25	5	
24 February 2012	17:50	VM5	0.25	5	
24 February 2012	17:53	VM6	0.32	5	
24 February 2012	17:57	VM8	0.35	5	
24 February 2012	18:02	VM9	0.35	5	
24 February 2012	15:01	VM11	0.13	5	
24 February 2012	15:57	VM12	0.13	5	
24 February 2012	15:37	VM13	1.14	5	
24 February 2012	15:20	VM14	0.13	5	
24 February 2012	15:48	VM15	0.13	5	
24 February 2012	16:18	VM16	0.89	5	
24 February 2012	16:02	VM17	0.13	5	
24 February 2012	16:51	VM18	0.13	5	
24 February 2012	16:39	VM19	0.13	5	



NOTES

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LEGEND

■ AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

⚡ VM1 PROPOSED VIBRATION MONITORING STATION

NOTES

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A.I. No. F-WP101-004

B.D. Ref. No. 樓宇樓宇編號
22-1/3056/10 (H)

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ROCCO 許榮

Structural Engineer / RSE E & M Engineer
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Project 項目
CENTRAL POLICE STATION
CONSERVATION AND REVITALISATION

Drawing Title 圖名
DEMOLITION SITE PLAN
(OVERALL)
VIBRATION MONITORING

Scale 比例
1:3000A1 P.C. T.H.

Drawing No. 圖號
DE-OAP209674-L-100 02

11 NOV 2011
Cod file : DE-OAP209674-L-100.dwg

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

**Record of
Vibration Monitoring for
Demolition Works at
Central Police Station Compound at
No. 10, Hollywood Road**

Report No. 5

(5 March 2012 ~ 17 March 2012)

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Stage: Initial Stage (Baseline) for stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	No demolition activity
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	
23 Dec 2011	14:40	VM7	0.13	5	
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	

Stage: Initial Stage (Baseline) for stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 February 2012	17:41	VM1	0.25	5	No demolition activity
24 February 2012	17:17	VM3	0.25	5	
24 February 2012	17:50	VM5	0.25	5	
24 February 2012	17:53	VM6	0.32	5	
24 February 2012	17:57	VM8	0.35	5	
24 February 2012	18:02	VM9	0.35	5	
24 February 2012	15:01	VM11	0.13	5	
24 February 2012	15:57	VM12	0.13	5	
24 February 2012	15:37	VM13	1.14	5	
24 February 2012	15:20	VM14	0.13	5	
24 February 2012	15:48	VM15	0.13	5	
24 February 2012	16:18	VM16	0.89	5	
24 February 2012	16:02	VM17	0.13	5	
24 February 2012	16:51	VM18	0.13	5	
24 February 2012	16:39	VM19	0.13	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Stage: Stage 2 (Notes: No demolition activities for stage 1 during the period on 5 March

2012 to 17 March 2012)

Stage: stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
5 March 2012	No Demolition Works	VM1			No Demolition Works
		VM3			
		VM5			
		VM6			
		VM8			
		VM9			
		VM11			
		VM12			
		VM13			
		VM14			
		VM15			
		VM16			
		VM17			
VM18					
VM19					

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
6 March 2012	No Demolition Works	VM1			No Demolition Works
		VM3			
		VM5			
		VM6			
		VM8			
		VM9			
		VM11			
		VM12			
		VM13			
		VM14			
		VM15			
		VM16			
		VM17			
VM18					
VM19					

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
7 March 2012	No Demolition Works	VM1	No Demolition Works		
		VM3			
		VM5			
		VM6			
		VM8			
		VM9			
		VM11			
		VM12			
		VM13			
		VM14			
		VM15			
		VM16			
		VM17			
		VM18			
VM19					

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
8 March 2012	No Demolition Works	VM1	No Demolition Works		
		VM3			
		VM5			
		VM6			
		VM8			
		VM9			
		VM11			
		VM12			
		VM13			
		VM14			
		VM15			
		VM16			
		VM17			
		VM18			
VM19					

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
9 March 2012	No Demolition Works	VM1	No Demolition Works		
		VM3			
		VM5			
		VM6			
		VM8			
		VM9			
		VM11			
		VM12			
		VM13			
		VM14			
		VM15			
		VM16			
		VM17			
VM18					
VM19					

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
10 Mar 2012	11:53	VM1	0.76	5	Demolition of Building No. 16
	11:25	VM3	0.25	5	
	11:34	VM5	0.25	5	
	9:25	VM6	0.25	5	
	9:34	VM8	0.13	5	
	9:42	VM9	0.13	5	
	10:07	VM11	0.76	5	
	10:31	VM12	0.13	5	
	9:54	VM13	0.13	5	
	10:16	VM14	0.25	5	
	10:23	VM15	0.25	5	
	10:48	VM16	0.13	5	
	10:40	VM17	0.13	5	
	11:12	VM18	0.13	5	
11:03	VM19	0.13	5		

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
12 Mar 2012	14:50	VM1	1.43	5	Demolition of Building No. 16
	14:53	VM3	1.27	5	
	12:02	VM5	0.87	5	
	13:32	VM6	0.63	5	
	13:23	VM8	0.25	5	
	13:14	VM9	0.13	5	
	13:46	VM11	0.76	5	
	14:12	VM12	0.13	5	
	13:39	VM13	0.13	5	
	13:53	VM14	0.51	5	
	14:02	VM15	0.38	5	
	14:27	VM16	0.25	5	
	14:21	VM17	0.13	5	
	14:44	VM18	0.13	5	
14:37	VM19	0.13	5		

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
13 Mar 2012	11:02	VM1	1.76	5	Demolition of Building J & K
	10:50	VM3	0.25	5	
	11:13	VM5	0.25	5	
	9:30	VM6	0.2	5	
	9:37	VM8	0.2	5	
	9:43	VM9	0.2	5	
	9:48	VM11	0.53	5	
	10:02	VM12	0.25	5	
	11:25	VM13	0.56	5	
	9:51	VM14	1.75	5	
	9:59	VM15	0.25	5	
	10:23	VM16	0.42	5	
	10:15	VM17	0.38	5	
	10:41	VM18	0.25	5	
10:32	VM19	0.13	5		

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

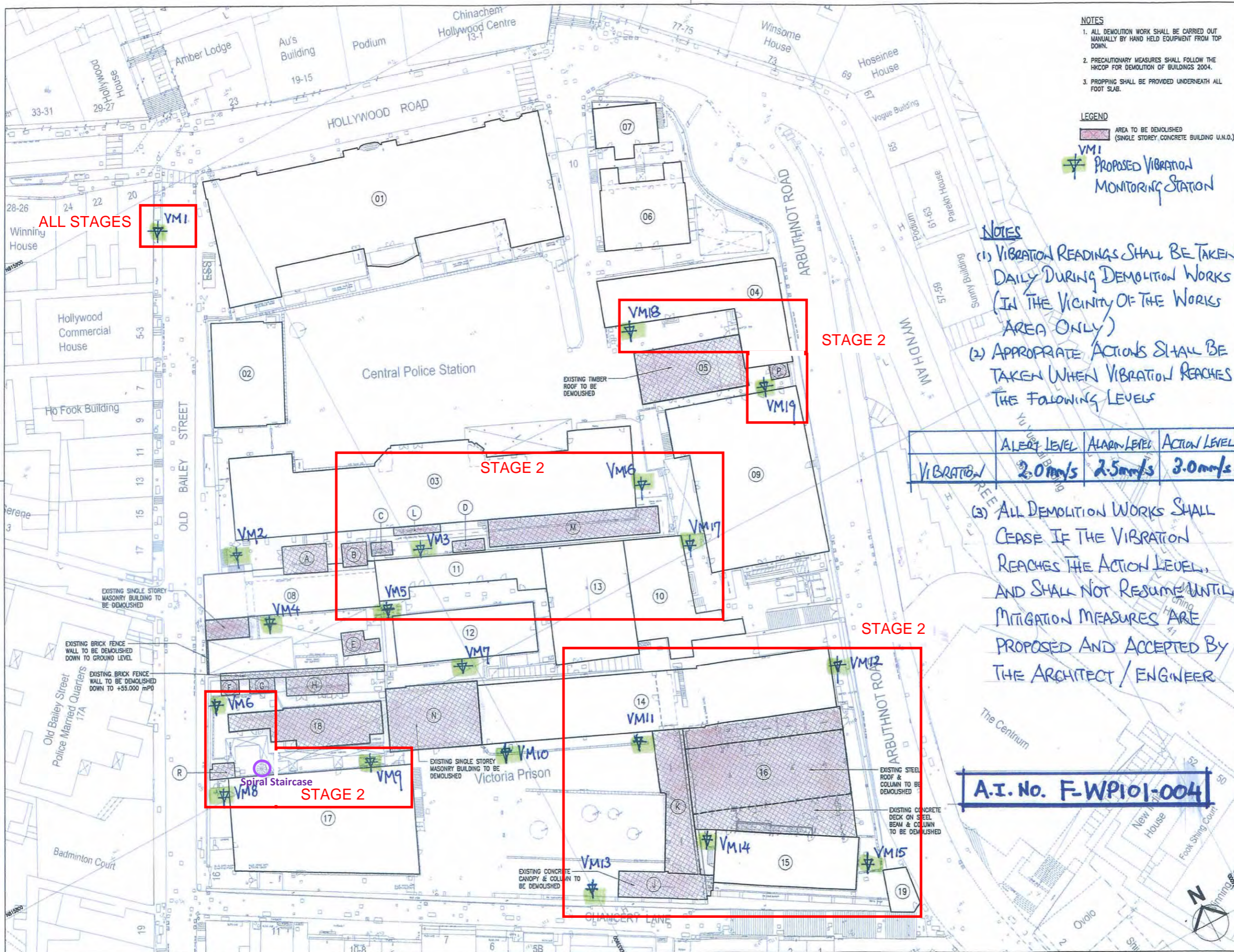
Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
14 Mar 2012	13:43	VM1	1.14	5	Demolition of Building 16, J & K
	13:54	VM3	0.13	5	
	13:24	VM5	0.25	5	
	10:41	VM6	0.13	5	
	10:34	VM8	0.13	5	
	10:53	VM9	0.13	5	
	14:33	VM11	0.63	5	
	11:29	VM12	0.13	5	
	11:05	VM13	0.13	5	
	11:15	VM14	1.78	5	
	11:23	VM15	0.76	5	
	14:08	VM16	0.13	5	
	14:21	VM17	0.13	5	
	14:01	VM18	0.38	5	
14:14	VM19	0.13	5		

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
15 Mar 2012	11:28	VM1	1.14	5	Demolition of Building 16, J & K
	11:20	VM3	0.25	5	
	11:45	VM5	0.25	5	
	10:04	VM6	0.38	5	
	9:57	VM8	0.38	5	
	9:50	VM9	0.38	5	
	10:16	VM11	0.13	5	
	10:38	VM12	0.13	5	
	10:10	VM13	0.25	5	
	10:25	VM14	0.51	5	
	10:32	VM15	0.38	5	
	10:56	VM16	0.13	5	
	10:50	VM17	0.62	5	
	11:05	VM18	0.54	5	
10:57	VM19	0.13	5		

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
16 Mar 2012	13:34	VM1	0.51	5	Demolition of Building 16
	13:43	VM3	0.38	5	
	11:12	VM5	0.25	5	
	10:10	VM6	0.25	5	
	10:04	VM8	0.25	5	
	9:57	VM9	0.13	5	
	10:27	VM11	0.38	5	
	10:49	VM12	0.13	5	
	10:19	VM13	0.38	5	
	10:34	VM14	0.38	5	
	10:42	VM15	0.13	5	
	13:57	VM16	1.02	5	
	14:06	VM17	0.13	5	
	13:51	VM18	0.13	5	
14:00	VM19	1.14	5		

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
17 Mar 2012	11:45	VM1	1.02	5	Demolition of Building 16
	11:32	VM3	0.25	5	
	11:53	VM5	0.13	5	
	10:15	VM6	0.13	5	
	10:08	VM8	0.13	5	
	10:02	VM9	0.13	5	
	10:30	VM11	0.25	5	
	10:50	VM12	0.13	5	
	10:23	VM13	0.38	5	
	10:37	VM14	0.54	5	
	10:44	VM15	0.13	5	
	11:10	VM16	0.13	5	
	10:59	VM17	0.13	5	
	11:25	VM18	0.25	5	
11:16	VM19	0.13	5		



NOTES

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LEGEND

■ AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

⚡ VM1 PROPOSED VIBRATION MONITORING STATION

NOTES

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(2) APPROPRIATE ACTIONS SHALL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS

VIBRATION	ALERT LEVEL	ALARM LEVEL	ACTION LEVEL
	2.0mm/s	2.5mm/s	3.0mm/s

(3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER

A.I. No. F-WP101-004

B.D. Ref. No. 樓宇樓宇編號
22-1/3056/10 (H)

Rev. No. 修改/修改編號

No. 編號	Description 說明	Date 日期	Approved 審批
01	TENDER	08/11	T.H.
02	BD SUBMISSION	08/11	T.H.



BD SUBMISSION
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The Hong Kong Jockey Club Charities Trust

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HERZOG & DE MEURON

Conservation Architect
羅國輝建築師樓

Architect / AP
ROCCO 許榮

Structural Engineer / RSE E & M Engineer
ARUP JRP

Project 項目
CENTRAL POLICE STATION
CONSERVATION AND REVITALISATION

Drawing Title 圖名
DEMOLITION SITE PLAN
(OVERALL)
VIBRATION MONITORING

Scale 比例
1:3000A1 P.C. T.H.

Drawing No. 圖號
DE-OAP209674-L-100 02

11 NOV 2011
Cod file : DE-OAP209674-L-100.dwg

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

**Record of
Vibration Monitoring for
Demolition Works at
Central Police Station Compound at
No. 10, Hollywood Road**

Report No. 7

(2 April 2012 ~ 14 April 2012)

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Stage: Initial Stage (Baseline) for stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	No demolition activity
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	
23 Dec 2011	14:40	VM7	0.13	5	
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	

Stage: Initial Stage (Baseline) for stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 February 2012	17:41	VM1	0.25	5	No demolition activity
24 February 2012	17:17	VM3	0.25	5	
24 February 2012	17:50	VM5	0.25	5	
24 February 2012	17:53	VM6	0.32	5	
24 February 2012	17:57	VM8	0.35	5	
24 February 2012	18:02	VM9	0.35	5	
24 February 2012	15:01	VM11	0.13	5	
24 February 2012	15:57	VM12	0.13	5	
24 February 2012	15:37	VM13	1.14	5	
24 February 2012	15:20	VM14	0.13	5	
24 February 2012	15:48	VM15	0.13	5	
24 February 2012	16:18	VM16	0.89	5	
24 February 2012	16:02	VM17	0.13	5	
24 February 2012	16:51	VM18	0.13	5	
24 February 2012	16:39	VM19	0.13	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Stage: stage 1, 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
2 Apr 2012	10:57	VM1	1.10	5	Demolition of Building B, 16, Revetment Wall
	10:44	VM3	0.13	5	
	11:16	VM5	0.25	5	
	9:12	VM6	0.23	5	
	9:05	VM8	0.17	5	
	8:58	VM9	0.20	5	
	9:40	VM11	0.13	5	
	9:52	VM12	0.15	5	
	9:20	VM13	0.15	5	
	9:27	VM14	0.28	5	
	9:59	VM15	0.35	5	
	10:19	VM16	0.17	5	
	10:12	VM17	0.17	5	
	10:35	VM18	0.25	5	
10:28	VM19	0.13	5		

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
3 Apr 2012	16:47	VM1	1.27	5	Demolition of Building B, 16, Revetment Wall
	16:34	VM3	0.35	5	
	17:06	VM5	0.25	5	
	15:02	VM6	0.13	5	
	14:55	VM8	0.25	5	
	14:48	VM9	0.25	5	
	15:30	VM11	0.3	5	
	15:42	VM12	0.25	5	
	15:10	VM13	0.25	5	
	15:17	VM14	0.38	5	
	15:49	VM15	0.25	5	
	16:09	VM16	0.13	5	
	16:02	VM17	0.13	5	
	16:25	VM18	0.25	5	
16:18	VM19	0.13	5		

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
5 Apr 2012	10:58	VM1	0.89	5	Demolition of Building B, 16, Revetment Wall
	10:02	VM3	0.37	5	
	9:48	VM5	0.27	5	
	8:51	VM6	0.15	5	
	8:42	VM8	0.25	5	
	8:30	VM9	0.25	5	
	9:03	VM11	0.32	5	
	11:17	VM12	0.25	5	
	9:21	VM13	0.25	5	
	9:12	VM14	0.4	5	
	11:24	VM15	0.25	5	
	10:15	VM16	0.13	5	
	10:23	VM17	0.13	5	
	10:44	VM18	0.25	5	
	10:36	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
10 Apr 2012	13:26	VM1	0.25	5	Demolition of Building B, 16, Revetment Wall
	11:00	VM3	0.13	5	
	11:42	VM5	0.13	5	
	9:52	VM6	0.38	5	
	9:44	VM8	0.38	5	
	9:57	VM9	0.38	5	
	10:26	VM11	0.13	5	
	14:25	VM12	0.13	5	
	10:09	VM13	1.40	5	
	10:16	VM14	0.13	5	
	14:41	VM15	0.38	5	
	11:14	VM16	0.25	5	
	11:30	VM17	0.13	5	
	11:07	VM18	0.25	5	
	11:20	VM19	0.13	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

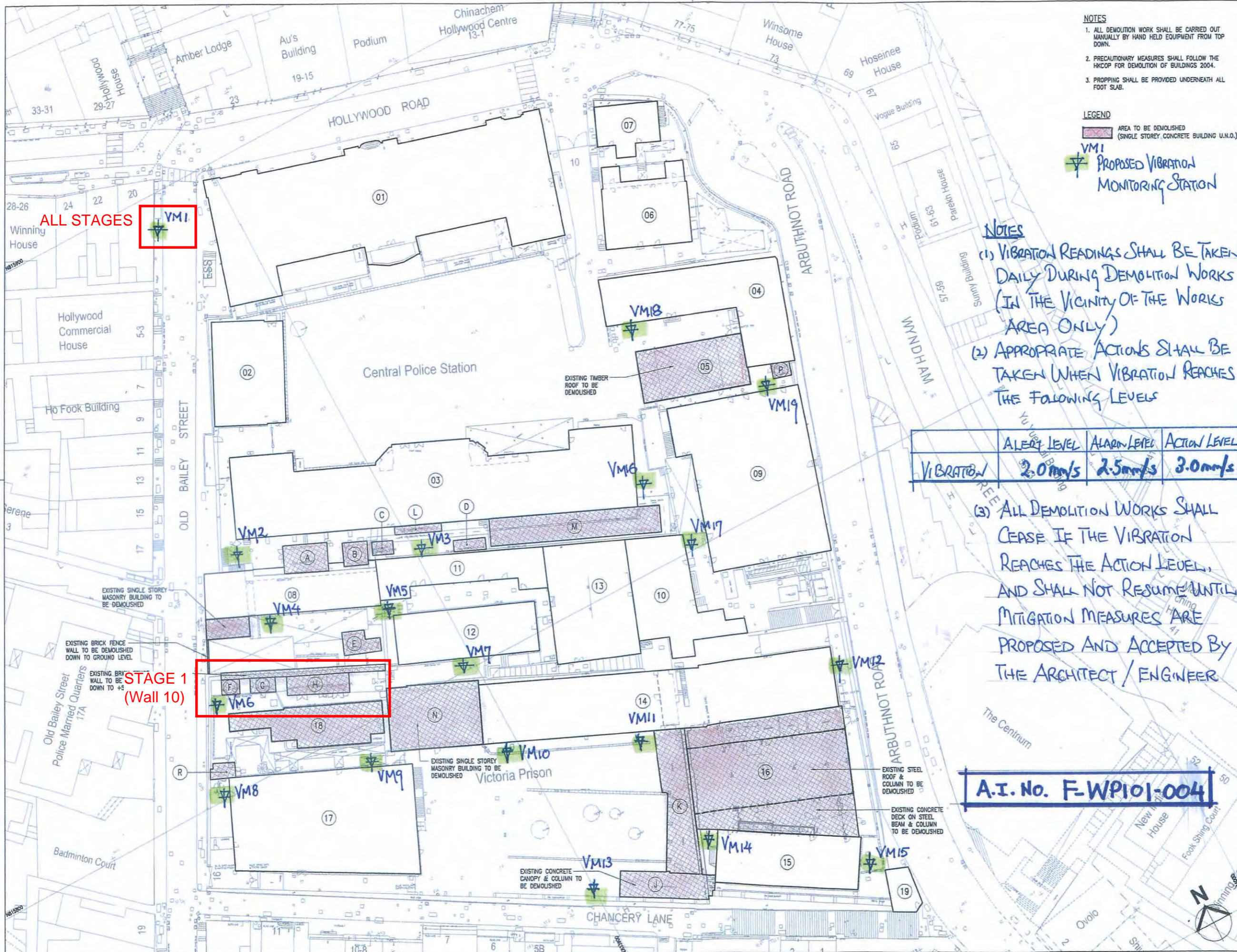
Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
11 Apr 2012	10:14	VM1	0.74	5	Demolition of Building B, 16, Revetment Wall
	10:32	VM3	0.25	5	
	9:59	VM5	0.52	5	
	9:01	VM6	0.25	5	
	8:53	VM8	0.25	5	
	9:08	VM9	0.25	5	
	9:18	VM11	0.38	5	
	11:23	VM12	0.38	5	
	9:34	VM13	0.54	5	
	9:26	VM14	0.25	5	
	11:31	VM15	0.38	5	
	10:49	VM16	0.25	5	
	11:06	VM17	0.13	5	
	10:41	VM18	0.25	5	
	10:58	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
12 Apr 2012	10:34	VM1	0.96	5	Demolition of Building B, 16, Revetment Wall
	10:46	VM3	0.52	5	
	10:13	VM5	0.25	5	
	8:59	VM6	0.38	5	
	8:48	VM8	0.54	5	
	9:08	VM9	0.37	5	
	9:43	VM11	0.58	5	
	11:44	VM12	0.25	5	
	9:19	VM13	0.42	5	
	9:32	VM14	0.37	5	
	11:58	VM15	0.25	5	
	10:54	VM16	0.13	5	
	11:23	VM17	0.13	5	
	11:13	VM18	0.25	5	
	11:03	VM19	0.13	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
13 Apr 2012	11:52	VM1	0.94	5	Demolition of Building B, 16, Revetment Wall
	13:17	VM3	0.56	5	
	11:28	VM5	0.74	5	
	10:15	VM6	1.16	5	
	11:18	VM8	1.23	5	
	10:04	VM9	0.86	5	
	10:23	VM11	0.64	5	
	11:02	VM12	0.52	5	
	14:27	VM13	0.46	5	
	10:40	VM14	0.46	5	
	10:48	VM15	0.25	5	
	14:37	VM16	0.25	5	
	13:28	VM17	0.13	5	
	14:03	VM18	0.25	5	
	13:39	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
14 Apr 2012	9:58	VM1	0.48	5	Demolition of Building B, 16, Revetment Wall
	10:17	VM3	0.52	5	
	9:40	VM5	1.25	5	
	8:44	VM6	0.68	5	
	9:32	VM8	1.17	5	
	8:33	VM9	1.02	5	
	8:53	VM11	0.76	5	
	9:02	VM12	0.25	5	
	11:38	VM13	0.65	5	
	9:19	VM14	0.58	5	
	9:11	VM15	0.25	5	
	11:53	VM16	0.25	5	
	10:32	VM17	0.13	5	
	11:14	VM18	0.25	5	
	10:38	VM19	0.13	5	



NOTES

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LEGEND

■ AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

VM1 PROPOSED VIBRATION MONITORING STATION

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	2.0mm/s	2.5mm/s	3.0mm/s

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A.I. No. F-WP101-004

B.D. Ref. No. 22-1/3056/10 (H)

Rev. No. / Submission 修改版 / 編號

No. 編號	Description 說明	Date 日期	Approved 核准
01	TENDER	08/11	T.H.
02	BD SUBMISSION	08/11	T.H.



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Conservation Architect
 香港賽馬會古物及古蹟辦事處

Architect / AP
 ROCCO 許孝

Structural Engineer / RSE E & M Engineer
 ARUP JRP

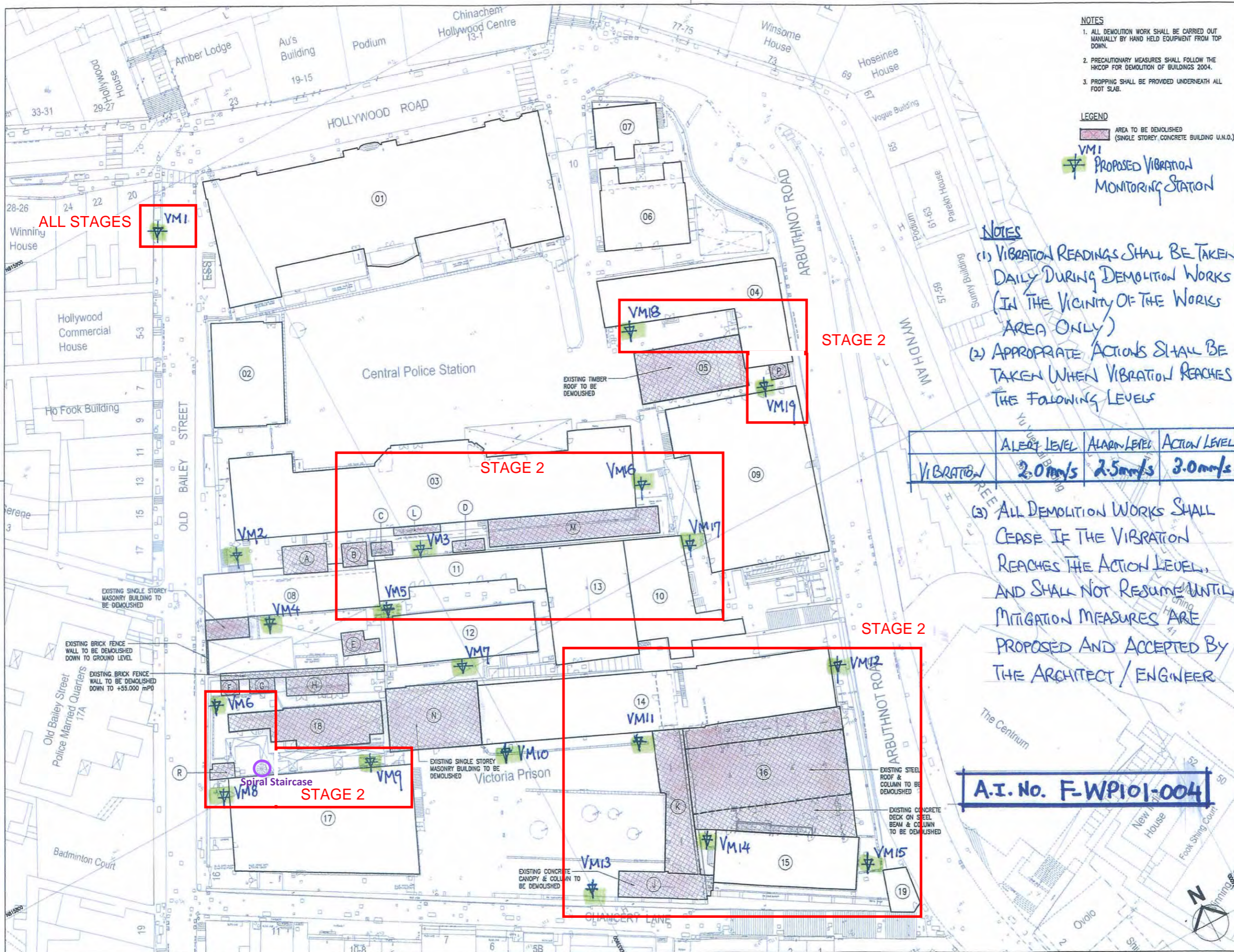
Project 項目
 CENTRAL POLICE STATION
 CONSERVATION AND REVITALISATION

Drawing Title 圖名
 DEMOLITION SITE PLAN (OVERALL)
 VIBRATION MONITORING

Scale 比例
 1:3000A1 P.C. T.H.

Drawing No. 圖號
 DE-OAP209674-L-100 02

11 NOV 2011
 Cod file : DE-OAP209674-L-100.dwg



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A.I. No. F-WP101-004

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22-1/3056/10 (H)

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Architect / AP
ROCCO 許榮

Structural Engineer / RSE E & M Engineer
ARUP JRP

Project 項目
CENTRAL POLICE STATION
CONSERVATION AND REVITALISATION

Drawing Title 圖名
DEMOLITION SITE PLAN
(OVERALL)
VIBRATION MONITORING

Scale 比例
1:3000A1 P.C. T.H.

Drawing No. 圖號
DE-OAP209674-L-100 02

11 NOV 2011
Cod file : DE-OAP209674-L-100.dwg

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

**Record of
Vibration Monitoring for
Demolition Works at
Central Police Station Compound at
No. 10, Hollywood Road**

Report no.8

(16 April 2012 ~ 5 May 2012)

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Stage: Initial Stage (Baseline) for stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	No demolition activity
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	
23 Dec 2011	14:40	VM7	0.13	5	
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	

Stage: Initial Stage (Baseline) for stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 February 2012	17:41	VM1	0.25	5	No demolition activity
24 February 2012	17:17	VM3	0.25	5	
24 February 2012	17:50	VM5	0.25	5	
24 February 2012	17:53	VM6	0.32	5	
24 February 2012	17:57	VM8	0.35	5	
24 February 2012	18:02	VM9	0.35	5	
24 February 2012	15:01	VM11	0.13	5	
24 February 2012	15:57	VM12	0.13	5	
24 February 2012	15:37	VM13	1.14	5	
24 February 2012	15:20	VM14	0.13	5	
24 February 2012	15:48	VM15	0.13	5	
24 February 2012	16:18	VM16	0.89	5	
24 February 2012	16:02	VM17	0.13	5	
24 February 2012	16:51	VM18	0.13	5	
24 February 2012	16:39	VM19	0.13	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Stage: stage 1 & 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
16 Apr 2012	10:59	VM1	0.54	5	Demolition of Building 16, Revetment Wall 10
	11:13	VM3	0.32	5	
	10:39	VM5	0.41	5	
	08:42	VM6	0.78	5	
	10:28	VM7	0.32	5	
	08:33	VM8	0.64	5	
	08:51	VM9	0.98	5	
	10:20	VM11	0.75	5	
	13:12	VM12	0.25	5	
	10:03	VM13	0.57	5	
	10:11	VM14	0.52	5	
	13:19	VM15	0.25	5	
	11:18	VM16	0.25	5	
	11:48	VM17	0.13	5	
	11:37	VM18	0.25	5	
11:26	VM19	0.13	5		

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
17Apr 2012	14:56	VM1	0.76	5	Demolition of Building B, 16, Revetment Wall 10
	15:08	VM3	0.52	5	
	14:39	VM5	0.25	5	
	13:19	VM6	0.89	5	
	14:27	VM7	0.46	5	
	13:13	VM8	0.72	5	
	13:27	VM9	0.63	5	
	13:43	VM11	0.54	5	
	16:03	VM12	0.25	5	
	14:10	VM13	0.46	5	
	13:54	VM14	0.38	5	
	16:17	VM15	0.25	5	
	15:21	VM16	0.38	5	
	15:47	VM17	0.13	5	
	15:39	VM18	0.25	5	
15:28	VM19	0.13	5		

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
18 Apr 2012	15:58	VM1	0.54	5	Revetment Wall 10
	15:42	VM6	0.32	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work	
19 Apr 2012	09:12	VM1	0.57	5	Demolition of Building C, Revetment Wall 10	
	09:33	VM3	0.76	5		
	08:47	VM6	0.32	5		
	09:42	VM16	0.13	5		
	10:08	VM17	0.13	5		
	09:59	VM18	0.25	5		
	09:50	VM19	0.25	5		

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
20 Apr 2012	09:07	VM1	0.52	5	Demolition of Building C,D,L Revetment Wall 10
	09:19	VM3	0.63	5	
	08:43	VM6	0.89	5	
	09:34	VM16	0.32	5	
	10:02	VM17	0.13	5	
	09:51	VM18	0.25	5	
	09:43	VM19	0.13	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
21 Apr 2012	08:34	VM1	0.67	5	Demolition of Building C,D,L, Revetment Wall 10
	08:56	VM3	0.54	5	
	08:17	VM6	0.75	5	
	09:04	VM16	0.37	5	
	09:22	VM17	0.25	5	
	09:31	VM18	0.25	5	
	09:13	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Apr 2012	09:12	VM1	0.25	5	Demolition of Building M,
	09:25	VM3	0.54	5	
	08:53	VM6	0.25	5	
	09:44	VM16	0.13	5	
	10:23	VM17	0.23	5	
	10:07	VM18	0.25	5	
	09:53	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24Apr 2012	13:44	VM1	0.25	5	Demolition of Building M,
	14:03	VM3	0.54	5	
	13:17	VM5	0.37	5	
	14:12	VM16	0.25	5	
	14:34	VM17	0.13	5	
	14:28	VM18	0.25	5	
	14:20	VM19	0.13	5	

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
25 Apr 2012	09:32	VM1	0.54	5	Demolition of Building M
	09:55	VM3	0.25	5	
	09:17	VM5	0.25	5	
	10:06	VM16	0.13	5	
	10:43	VM17	0.13	5	
	10:27	VM18	0.25	5	
	10:14	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
26 Apr 2012	08:45	VM1	0.64	5	Demolition of Building M,
	09:03	VM3	0.32	5	
	10:07	VM5	0.25	5	
	09:17	VM16	0.13	5	
	09:42	VM17	0.13	5	
	09:36	VM18	0.25	5	
	09:28	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
27 Apr 2012	10:57	VM1	0.37	5	Demolition of Building M,
	09:38	VM3	0.32	5	
	09:17	VM5	0.46	5	
	09:55	VM16	0.25	5	
	10:42	VM17	0.13	5	
	10:28	VM18	0.25	5	
	10:07	VM19	0.13	5	

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
30 Apr 2012	08:34	VM1	0.25	5	Demolition of Building M
	09:43	VM3	0.13	5	
	09:23	VM5	0.25	5	
	09:58	VM16	0.13	5	
	10:13	VM17	0.13	5	
	09:51	VM18	0.13	5	
	10:06	VM19	0.13	5	
	09:01	VM7	0.63	5	Preparation Wall 12
09:10	VM9	0.25	5		

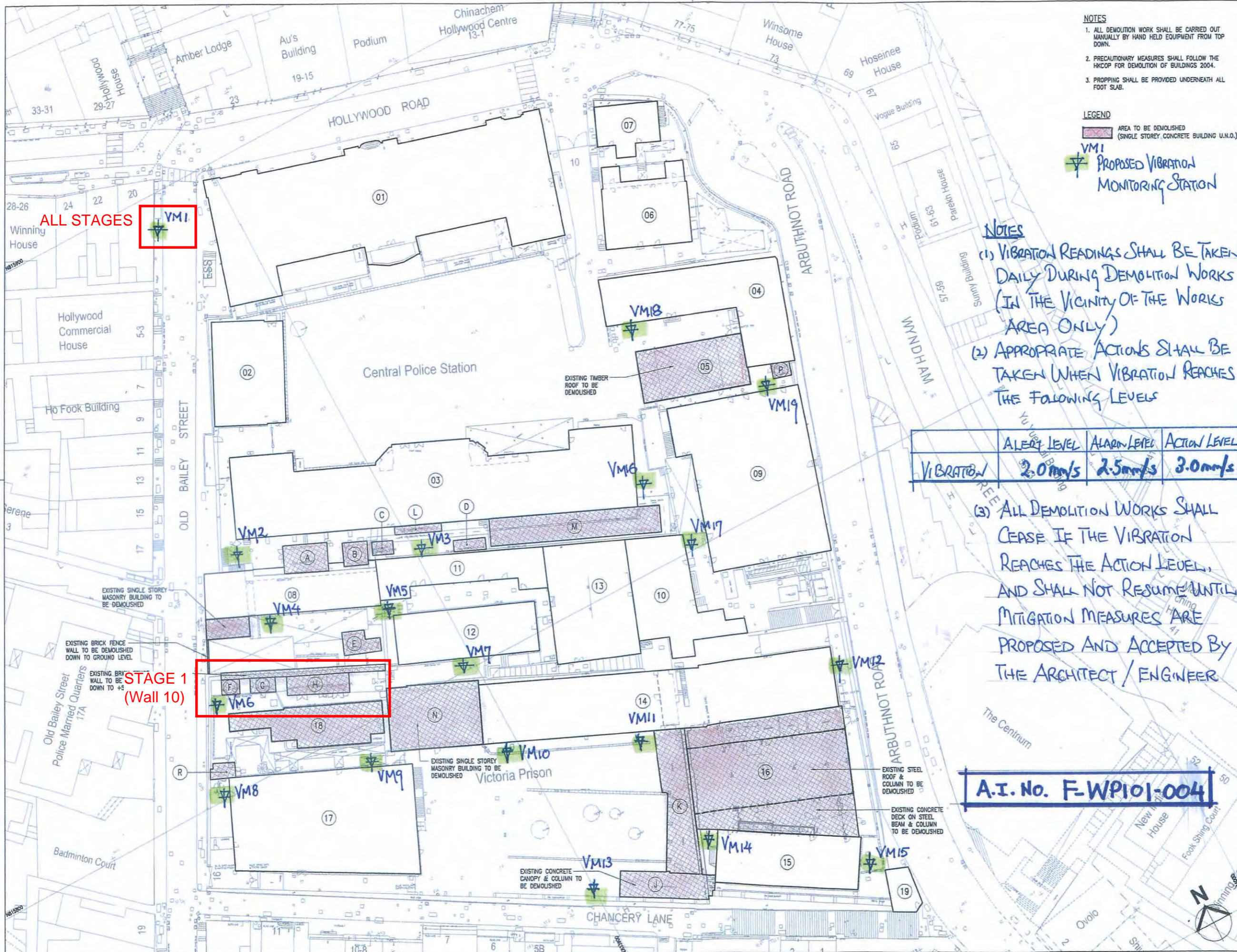
Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
02 May 2012	09:13	VM1	0.25	5	Demolition of Building M
	09:35	VM3	0.32	5	
	08:47	VM5	0.25	5	
	09:46	VM16	0.17	5	
	10:16	VM17	0.28	5	
	10:07	VM18	0.25	5	
	09:54	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
03 May 2012	10:23	VM1	0.54	5	Demolition of Building M
	10:34	VM3	0.25	5	
	10:07	VM5	0.25	5	
	10:42	VM16	0.25	5	
	11:16	VM17	0.32	5	
	11:08	VM18	0.27	5	
	10:57	VM19	0.13	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
04 May 2012	09:03	VM1	0.25	5	Demolition of Building M
	09:27	VM3	0.27	5	
	08:47	VM5	0.25	5	
	09:44	VM16	0.13	5	
	10:12	VM17	0.22	5	
	10:01	VM18	0.16	5	
	09:53	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
05 May 2012	09:38	VM1	0.62	5	Demolition of Building M
	09:56	VM3	0.26	5	
	09:22	VM5	0.24	5	
	10:08	VM16	0.22	5	
	10:42	VM17	0.21	5	
	10:28	VM18	0.16	5	
	10:19	VM19	0.16	5	



NOTES

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3. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SUB.

LEGEND

■ AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

VM1 PROPOSED VIBRATION MONITORING STATION

NOTES

(1) VIBRATION READINGS SHALL BE TAKEN DAILY DURING DEMOLITION WORKS (IN THE VICINITY OF THE WORKS AREA ONLY)

(2) APPROPRIATE ACTIONS SHALL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS

VIBRATION	ALERT LEVEL	ALARM LEVEL	ACTION LEVEL
	2.0mm/s	2.5mm/s	3.0mm/s

(3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER

A.I. No. F-WP101-004

B.D. Ref. No. 樓宇維修編號
22-1/3056/10 (H)

Rev. No. 修改/增修編號

No. 編號	Description 說明	Date 日期	Approved 審批
01	TENDER	08/11	T.H.
02	BD SUBMISSION	08/11	T.H.



BD SUBMISSION
Drawing Status 製圖狀況

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Client 業主
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Project 項目
CENTRAL POLICE STATION
CONSERVATION AND REVITALISATION

Drawing Title 圖名
DEMOLITION SITE PLAN
(OVERALL)

VIBRATION MONITORING

Scale 比例
1:3000A1

Drawn 繪圖
P.C.

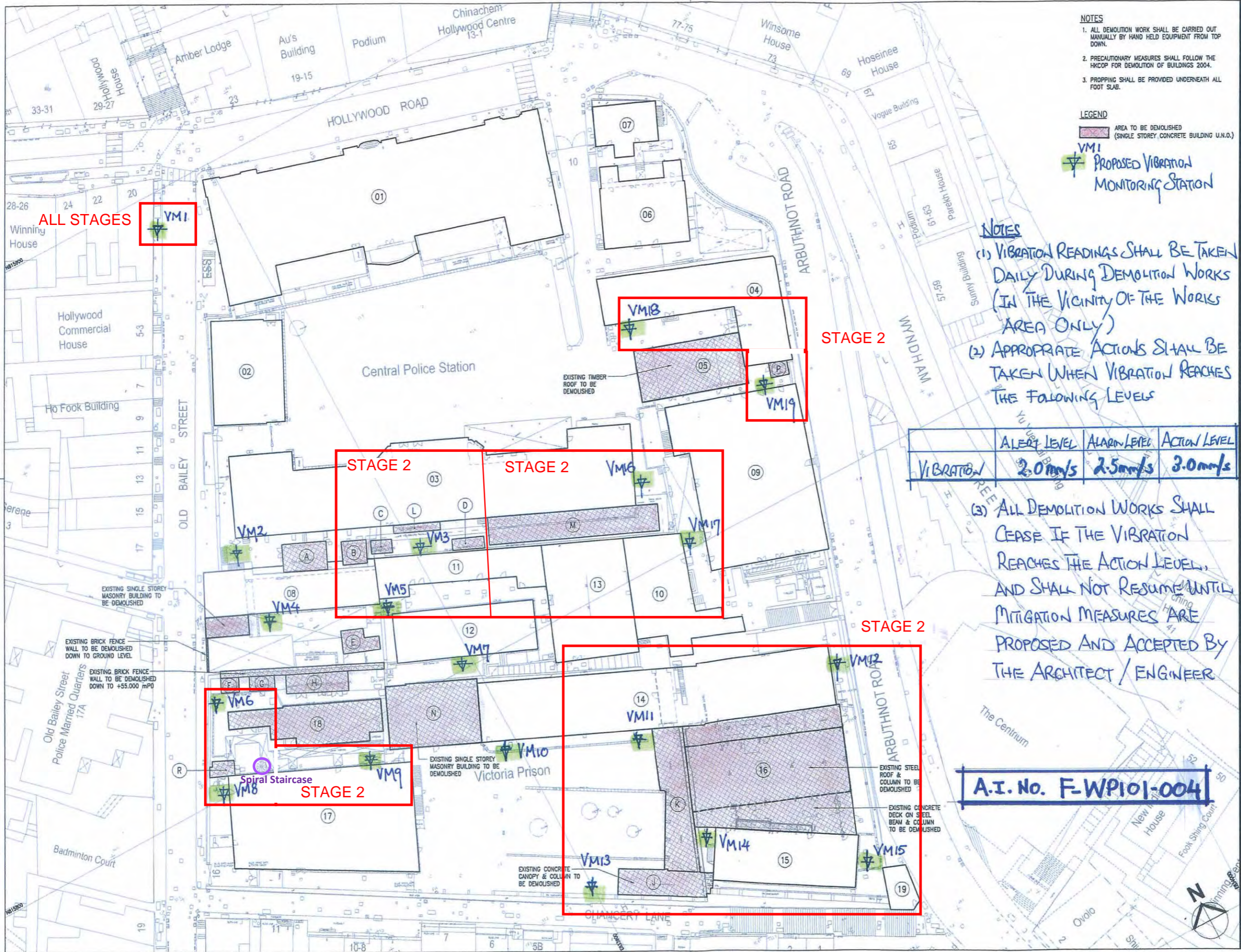
Checked 校對
T.H.

Drawing No. 圖號
DE-OAP209674-L-100

Revision 修改
02

11 NOV 2011

Cad file : DE-OAP209674-L-100.dwg



NOTES

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LEGEND

AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)
 VM1 PROPOSED VIBRATION MONITORING STATION

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VIBRATION	ALERT LEVEL	ALARM LEVEL	ACTION LEVEL
	2.0mm/s	2.5mm/s	3.0mm/s

(3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER

A.I. No. F-WP101-004

B.D. Ref. No. 22-1/3056/10 (H)

Revised/Submission 修改/阶段

No. 编号	Description 说明	Date 日期	Approved 审批
01	TENDER	08/11	T.H.
02	BD SUBMISSION	08/11	T.H.



BD SUBMISSION
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Client 業主
 The Hong Kong Jockey Club Charities Trust
 Design Consultant
HERZOG & DE MEURON
 Conservation Architect
 Architect / AP
ROCCO
 Structural Engineer / RSE
ARUP
 E & M Engineer
JRP

Project 項目
**CENTRAL POLICE STATION
 CONSERVATION AND REVITALISATION**

Drawing Title 圖名
**DEMOLITION SITE PLAN
 (OVERALL)**
VIBRATION MONITORING
 Scale 比例
 1:3000A1
 Drawing No. 圖號
 DE-OAP209674-L-100
 Checked 校對
 P.C.
 T.H.
 Revision 修改
 02

11 NOV 2011
 Cod file : DE-OAP209674-L-100.dwg

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

**Record of
Vibration Monitoring for
Demolition Works at
Central Police Station Compound at
No. 10, Hollywood Road**

Report no.9

(07 May 2012 ~ 19 May 2012)

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Stage: Initial Stage (Baseline) for stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	No demolition activity
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	
23 Dec 2011	14:40	VM7	0.13	5	
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	

Stage: Initial Stage (Baseline) for stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 February 2012	17:41	VM1	0.25	5	No demolition activity
24 February 2012	17:17	VM3	0.25	5	
24 February 2012	17:50	VM5	0.25	5	
24 February 2012	17:53	VM6	0.32	5	
24 February 2012	17:57	VM8	0.35	5	
24 February 2012	18:02	VM9	0.35	5	
24 February 2012	15:01	VM11	0.13	5	
24 February 2012	15:57	VM12	0.13	5	
24 February 2012	15:37	VM13	1.14	5	
24 February 2012	15:20	VM14	0.13	5	
24 February 2012	15:48	VM15	0.13	5	
24 February 2012	16:18	VM16	0.89	5	
24 February 2012	16:02	VM17	0.13	5	
24 February 2012	16:51	VM18	0.13	5	
24 February 2012	16:39	VM19	0.13	5	

Stage: Initial Stage (Baseline) for stage 2a

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
30 April 2012	09:01	VM7	0.63	5	No demolition activity
30 April 2012	09:10	VM9	0.25	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Stage: stage 2 & 2a

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
7 May 2012	14:52	VM 1	0.25	5	Demolition of Building M,
	13:57	VM 3	0.56	5	
	13:42	VM 5	0.55	5	
	14:08	VM16	0.13	5	
	14:41	VM17	0.34	5	
	14:29	VM18	0.13	5	
	14:18	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
8 May 2012	10:43	VM 1	0.43	5	Demolition of Building M,
	09:42	VM 3	0.25	5	
	09:17	VM 5	0.29	5	
	09:53	VM16	0.36	5	
	10:19	VM17	0.25	5	
	10:11	VM18	0.13	5	
	10:02	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
9 May 2012	11:03	VM 1	0.62	5	Demolition of Building M, Wall 12
	09:11	VM 3	0.43	5	
	08:57	VM 5	0.25	5	
	08:44	VM 7	0.25	5	
	08:32	VM 9	0.36	5	
	09:19	VM16	0.41	5	
	09:38	VM17	0.25	5	
	09:44	VM18	0.25	5	
09:28	VM19	0.13	5		

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
10 May 2012	10:17	VM 1	0.34	5	Demolition of Building M, Wa12
	09:12	VM 3	0.42	5	
	08:59	VM 5	0.38	5	
	08:43	VM 7	0.25	5	
	08:32	VM 9	0.28	5	
	09:24	VM16	0.36	5	
	09:41	VM17	0.27	5	
	09:58	VM18	0.25	5	
	09:47	VM19	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
11 May 2012	16:12	VM 1	0.53	5	Demolition of Building M, Wall 12
	14:53	VM 3	0.37	5	
	14:39	VM 5	0.32	5	
	14:18	VM 7	0.25	5	
	14:07	VM 9	0.25	5	
	15:12	VM16	0.38	5	
	15:37	VM17	0.25	5	
	15:48	VM18	0.25	5	
	15:26	VM19	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
12 May 2012	14:32	VM1	0.25	5	Demolition of Building M
	13:34	VM3	0.13	5	
	13:17	VM5	0.25	5	
	13:46	VM16	0.13	5	
	13:56	VM17	0.13	5	
	14:13	VM18	0.13	5	
	14:04	VM19	0.13	5	

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
14 May 2012	10:38	VM1	0.25	5	Demolition of Building M,
	09:36	VM3	0.36	5	
	09:17	VM5	0.25	5	
	09:47	VM16	0.35	5	
	09:58	VM17	0.28	5	
	10:19	VM18	0.25	5	
	10:08	VM19	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
15 May 2012	10:06	VM1	0.56	5	Demolition of Building M,
	09:04	VM3	0.32	5	
	08:43	VM5	0.25	5	
	09:17	VM16	0.47	5	
	09:28	VM17	0.25	5	
	09:52	VM18	0.35	5	
	09:39	VM19	0.25	5	

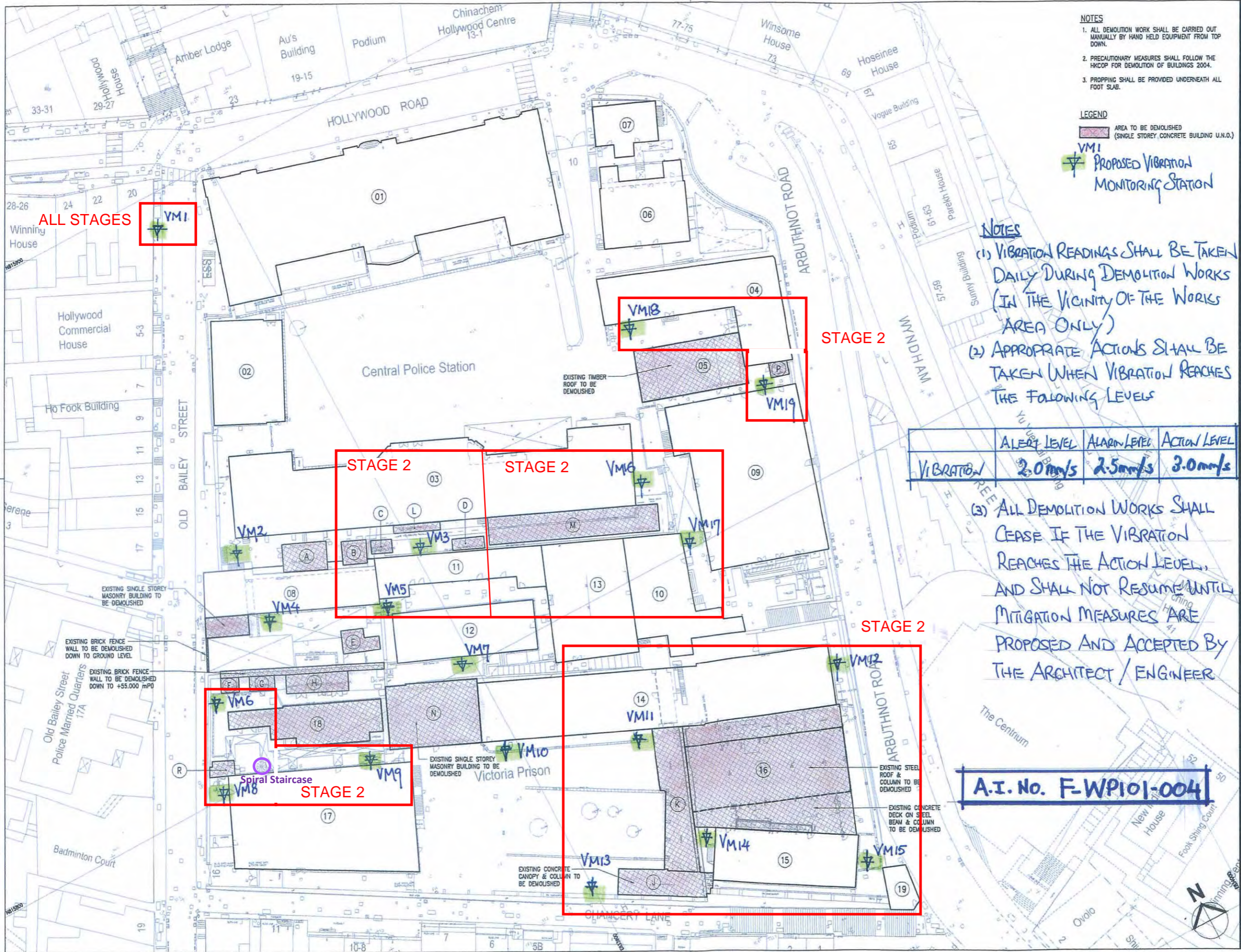
Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
16 May 2012	09:47	VM1	0.32	5	Demolition of Building M
	08:45	VM3	0.32	5	
	08:32	VM5	0.25	5	
	08:58	VM16	0.42	5	
	09:07	VM17	0.25	5	
	09:29	VM18	0.25	5	
	09:19	VM19	0.25	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
17 May 2012	11:32	VM1	0.42	5	Demolition of Building M,
	11:08	VM3	0.36	5	
	10:57	VM5	0.25	5	
	10:17	VM16	0.38	5	
	10:29	VM17	0.25	5	
	10:44	VM18	0.27	5	
	10:36	VM19	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
18 May 2012	10:15	VM1	0.36	5	Demolition of Building M,
	09:49	VM3	0.37	5	
	10:03	VM5	0.28	5	
	09:13	VM16	0.40	5	
	09:21	VM17	0.25	5	
	09:38	VM18	0.27	5	
	09:30	VM19	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
19 May 2012	09:47	VM1	0.25	5	Demolition of Building M
	09:19	VM3	0.32	5	
	09:33	VM5	0.36	5	
	08:42	VM16	0.36	5	
	08:50	VM17	0.25	5	
	09:07	VM18	0.25	5	
	08:58	VM19	0.25	5	



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LEGEND

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A.I. No. F-WP101-004

B.D. Ref. No. 樓宇樓宇編號
22-1/3056/10 (H)

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01	TENDER	08/11	T.H.
02	BD SUBMISSION	08/11	T.H.



BD SUBMISSION
Drawing Status 製圖狀況

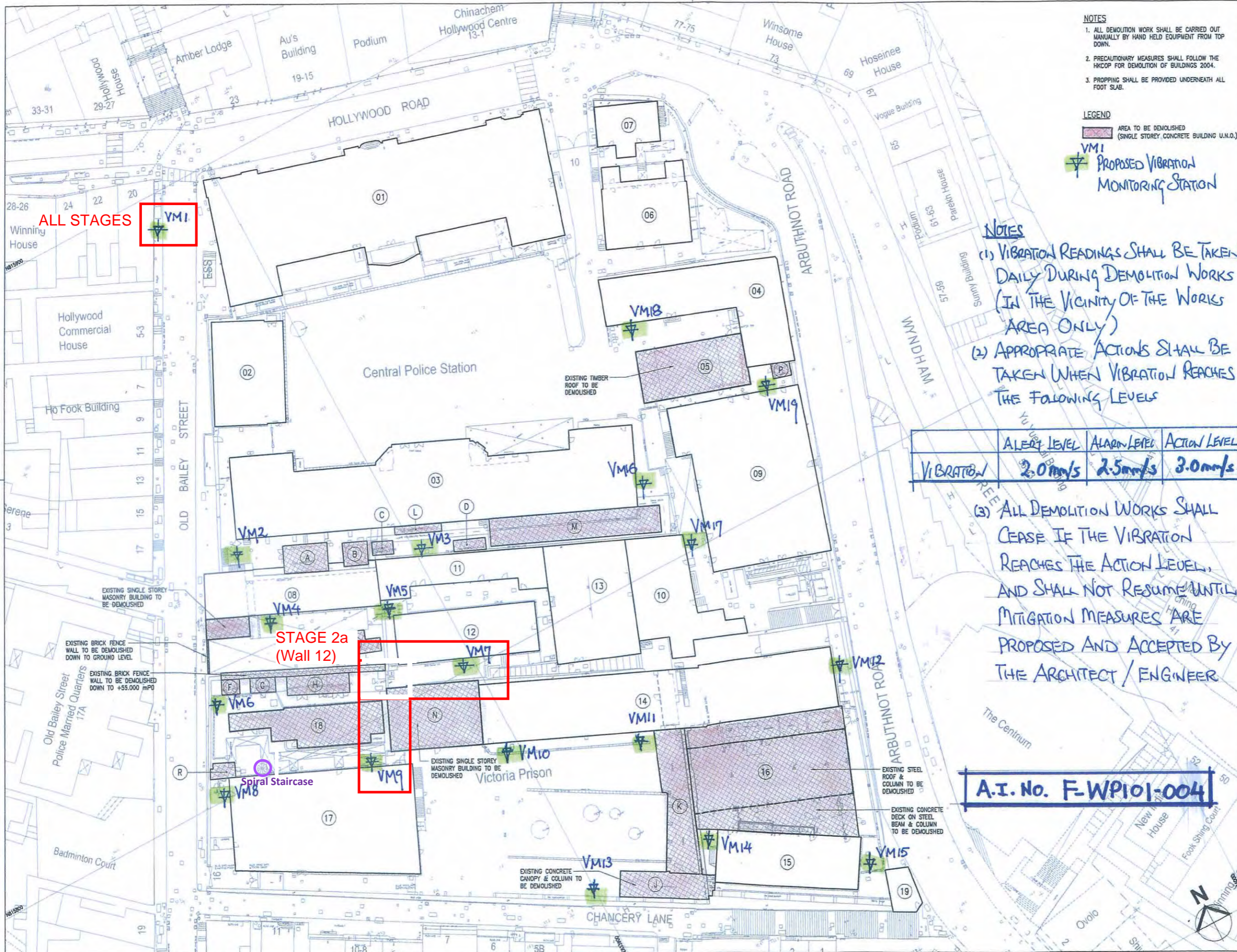
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Client 業主
 The Hong Kong Jockey Club Charities Trust
 Design Consultant
HERZOG & DE MEURON
 Conservation Architect
 Rocco Yau
 Architect / AP

Structural Engineer / RSE E & M Engineer
ARUP JRP
 Project 項目
**CENTRAL POLICE STATION
 CONSERVATION AND REVITALISATION**

Drawing Title 圖名
**DEMOLITION SITE PLAN
 (OVERALL)**
VIBRATION MONITORING
 Scale 比例
 1:3000A1 P.C. T.H.
 Drawing No. 圖號
 DE-OAP209674-L-100 02

11 NOV 2011
 Cod file : DE-OAP209674-L-100.dwg



NOTES

1. ALL DEMOLITION WORK SHALL BE CARRIED OUT MANUALLY BY HAND HELD EQUIPMENT FROM TOP DOWN.
2. PRECAUTIONARY MEASURES SHALL FOLLOW THE HKCOP FOR DEMOLITION OF BUILDINGS 2004.
3. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SUB.

LEGEND

■ AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

VM1 PROPOSED VIBRATION MONITORING STATION

NOTES

(1) VIBRATION READINGS SHALL BE TAKEN DAILY DURING DEMOLITION WORKS (IN THE VICINITY OF THE WORKS AREA ONLY)

(2) APPROPRIATE ACTIONS SHALL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS

VIBRATION	ALERT LEVEL	ALARM LEVEL	ACTION LEVEL
	2.0mm/s	2.5mm/s	3.0mm/s

(3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER

A.I. No. F-WP101-004

B.D. Ref. No. 樓宇維修編號
22-1/3056/10 (H)

Rev. No. 修改/增修編號

No. 編號	Description 說明	Date 日期	Approved 審批
01	TENDER	08/11	T.H.
02	BD SUBMISSION	08/11	T.H.



BD SUBMISSION
Drawing Status 製圖狀況

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Client 業主
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香港賽馬會慈善信託基金

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許學

Architect / AP
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Structural Engineer / RSE
E & M Engineer
ARUP

Project 項目
CENTRAL POLICE STATION
CONSERVATION AND REVITALISATION

Drawing Title 圖名
DEMOLITION SITE PLAN
(OVERALL)
VIBRATION MONITORING

Scale 比例
1:3000A1

Drawn 繪圖
P.C.

Checked 校對
T.H.

Drawing No. 圖號
DE-OAP209674-L-100

Revision 修改
02

11 NOV 2011
Cod file : DE-OAP209674-L-100.dwg

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

**Record of
Vibration Monitoring for
Demolition Works at
Central Police Station Compound at
No. 10, Hollywood Road**

Report no.10

(21 May 2012 ~ 2 June 2012)

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Stage: Initial Stage (Baseline) for stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	No demolition activity
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	
23 Dec 2011	14:40	VM7	0.13	5	
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	

Stage: Initial Stage (Baseline) for stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 February 2012	17:41	VM1	0.25	5	No demolition activity
24 February 2012	17:17	VM3	0.25	5	
24 February 2012	17:50	VM5	0.25	5	
24 February 2012	17:53	VM6	0.32	5	
24 February 2012	17:57	VM8	0.35	5	
24 February 2012	18:02	VM9	0.35	5	
24 February 2012	15:01	VM11	0.13	5	
24 February 2012	15:57	VM12	0.13	5	
24 February 2012	15:37	VM13	1.14	5	
24 February 2012	15:20	VM14	0.13	5	
24 February 2012	15:48	VM15	0.13	5	
24 February 2012	16:18	VM16	0.89	5	
24 February 2012	16:02	VM17	0.13	5	
24 February 2012	16:51	VM18	0.13	5	
24 February 2012	16:39	VM19	0.13	5	

Stage: Initial Stage (Baseline) for stage 2a

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
30 April 2012	09:01	VM7	0.63	5	No demolition activity
30 April 2012	09:10	VM9	0.25	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Stage: stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
21 May 2012	10:42	VM1	0.25	5	Demolition of Building M,
	09:41	VM3	0.13	5	
	09:22	VM5	0.13	5	
	09:52	VM16	0.25	5	
	10:03	VM17	0.13	5	
	10:24	VM18	0.22	5	
	10:13	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
22 May 2012	10:16	VM1	0.56	5	Demolition of Building M,
	09:14	VM3	0.13	5	
	08:53	VM5	0.15	5	
	09:27	VM16	0.15	5	
	09:58	VM17	0.15	5	
	09:42	VM18	0.25	5	
	09:49	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 May 2012	09:42	VM1	0.32	5	Demolition of Building M
	08:40	VM3	0.25	5	
	08:27	VM5	0.25	5	
	08:53	VM16	0.25	5	
	09:02	VM17	0.13	5	
	09:24	VM18	0.25	5	
	09:15	VM19	0.13	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 May 2012	10:32	VM1	0.42	5	Demolition of Building M,
	10:08	VM3	0.25	5	
	09:57	VM5	0.25	5	
	09:17	VM16	0.25	5	
	09:29	VM17	0.13	5	
	09:44	VM18	0.25	5	
	09:36	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
25 May 2012	09:15	VM1	0.36	5	Demolition of Building M,
	08:49	VM3	0.37	5	
	09:03	VM5	0.25	5	
	08:13	VM16	0.27	5	
	08:21	VM17	0.13	5	
	08:38	VM18	0.25	5	
	08:30	VM19	0.23	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
26 May 2012	09:37	VM1	0.25	5	Demolition of Building M
	09:19	VM3	0.32	5	
	09:23	VM5	0.36	5	
	08:32	VM16	0.36	5	
	08:40	VM17	0.25	5	
	09:07	VM18	0.25	5	
	08:49	VM19	0.25	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
28 May 2012	10:47	VM1	0.25	5	Demolition of Building M,
	09:46	VM3	0.12	5	
	09:27	VM5	0.12	5	
	09:57	VM16	0.24	5	
	10:08	VM17	0.12	5	
	10:29	VM18	0.21	5	
	10:18	VM19	0.12	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
29 May 2012	10:11	VM1	0.56	5	Demolition of Building M,
	09:09	VM3	0.13	5	
	08:48	VM5	0.15	5	
	09:22	VM16	0.15	5	
	09:53	VM17	0.15	5	
	09:37	VM18	0.25	5	
	09:44	VM19	0.13	5	

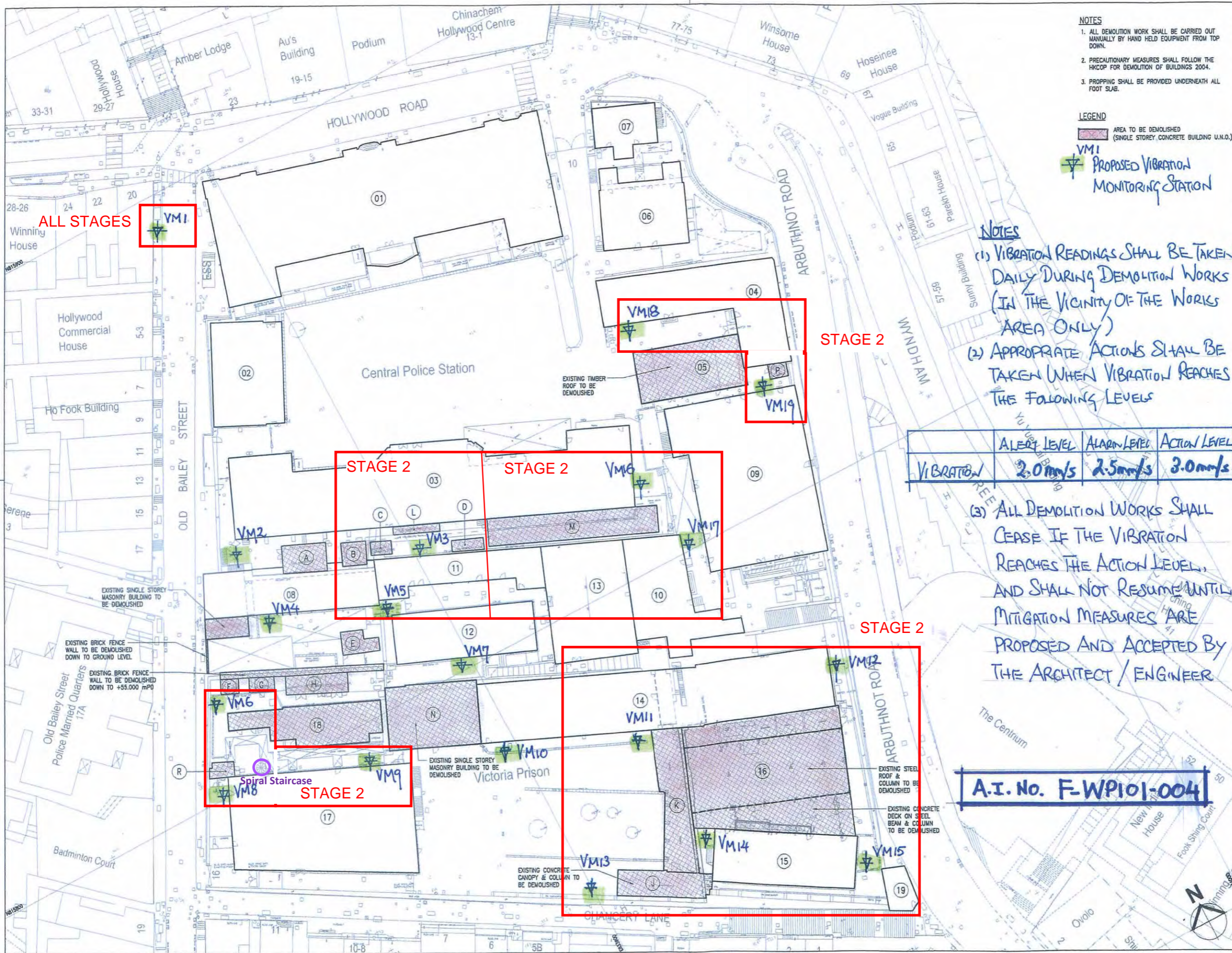
Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
30 May 2012	10:42	VM1	0.32	5	Demolition of Building M
	09:40	VM3	0.25	5	
	09:27	VM5	0.25	5	
	09:53	VM16	0.25	5	
	10:02	VM17	0.13	5	
	10:24	VM18	0.25	5	
	10:15	VM19	0.13	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
31 May 2012	10:35	VM1	0.42	5	Demolition of Building M,
	10:13	VM3	0.25	5	
	10:03	VM5	0.25	5	
	09:22	VM16	0.25	5	
	09:34	VM17	0.13	5	
	09:49	VM18	0.25	5	
	09:41	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
1 June 2012	09:15	VM1	0.36	5	Demolition of Building M,
	08:49	VM3	0.32	5	
	09:03	VM5	0.25	5	
	08:13	VM16	0.27	5	
	08:21	VM17	0.13	5	
	08:38	VM18	0.25	5	
	08:30	VM19	0.23	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
2 June 2012	09:37	VM1	0.25	5	Demolition of Building M
	09:19	VM3	0.28	5	
	09:23	VM5	0.32	5	
	08:32	VM16	0.25	5	
	08:40	VM17	0.13	5	
	09:07	VM18	0.25	5	
	08:49	VM19	0.13	5	



NOTES
 1. ALL DEMOLITION WORK SHALL BE CARRIED OUT MANUALLY BY HAND HELD EQUIPMENT FROM TOP DOWN.
 2. PRECAUTIONARY MEASURES SHALL FOLLOW THE HKCOP FOR DEMOLITION OF BUILDINGS 2004.
 3. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SUB.

LEGEND
 [Hatched Area] AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)
 [Green Symbol] VMI PROPOSED VIBRATION MONITORING STATION

NOTES
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 (2) APPROPRIATE ACTIONS SHALL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS

VIBRATION	ALERT LEVEL	ALARM LEVEL	ACTION LEVEL
	2.0mm/s	2.5mm/s	3.0mm/s

(3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER

A.I. No. F-WP101-004

B.D. Ref. No. 22-1/3056/10 (4A)
 工程圖則編號
 Revision/Submission 修改/提交
 No. 編號 Description 說明 Date 日期 Approved 核准
 01 TENDER 08/11 T.H.
 02 BD SUBMISSION 08/11 T.H.

Key Plan 索引圖

BD SUBMISSION
 Drawing Status 製圖狀況

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Client 業主
 香港賽馬會慈善信託基金
 The Hong Kong Jockey Club Charities Trust

Design Consultant
 HERZOG & DE MEURON

Conservation Architect
 [Logo]

Architect / AP
 ROCCO [Logo]

Structural Engineer / RSE E & M Engineer
 ARUP [Logo]

Project 項目
 CENTRAL POLICE STATION
 CONSERVATION AND REVITALISATION

Drawing Title 圖名
 DEMOLITION SITE PLAN
 (OVERALL)
 VIBRATION MONITORING

Scale 比例
 1:3000A1 P.C. T.H.
 Drawing No. 圖號
 DE-OAP209674-L-100 02

11 NOV 2011
 Cod file : DE-OAP209674-L-100.dwg

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

**Record of
Vibration Monitoring for
Demolition Works at
Central Police Station Compound at
No. 10, Hollywood Road**

Report no.11

(4 June 2012 ~ 16 June 2012)

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Stage: Initial Stage (Baseline) for stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	No demolition activity
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	
23 Dec 2011	14:40	VM7	0.13	5	
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	

Stage: Initial Stage (Baseline) for stage 2 and 3

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 February 2012	17:41	VM1	0.25	5	No demolition activity
24 February 2012	17:17	VM3	0.25	5	
24 February 2012	17:50	VM5	0.25	5	
24 February 2012	17:53	VM6	0.32	5	
24 February 2012	17:57	VM8	0.35	5	
24 February 2012	18:02	VM9	0.35	5	
24 February 2012	15:01	VM11	0.13	5	
24 February 2012	15:57	VM12	0.13	5	
24 February 2012	15:37	VM13	1.14	5	
24 February 2012	15:20	VM14	0.13	5	
24 February 2012	15:48	VM15	0.13	5	
24 February 2012	16:18	VM16	0.89	5	
24 February 2012	16:02	VM17	0.13	5	
24 February 2012	16:51	VM18	0.13	5	
24 February 2012	16:39	VM19	0.13	5	

Stage: Initial Stage (Baseline) for stage 2a

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
30 April 2012	09:01	VM7	0.63	5	No demolition activity
30 April 2012	09:10	VM9	0.25	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Stage: stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
4 June 2012	10:47	VM1	0.25	5	Demolition of Building P
	09:46	VM3	0.12	5	
	09:27	VM5	0.12	5	
	09:57	VM16	0.24	5	
	10:08	VM17	0.12	5	
	10:29	VM18	0.21	5	
	10:18	VM19	0.12	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
5 June 2012	10:11	VM1	0.56	5	Demolition of Building P
	09:09	VM3	0.13	5	
	08:48	VM5	0.15	5	
	09:22	VM16	0.15	5	
	09:53	VM17	0.15	5	
	09:37	VM18	0.25	5	
	09:44	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
6 June 2012	10:42	VM1	0.32	5	Demolition of Building P
	09:40	VM3	0.25	5	
	09:27	VM5	0.25	5	
	09:53	VM16	0.25	5	
	10:02	VM17	0.13	5	
	10:24	VM18	0.25	5	
	10:15	VM19	0.13	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
7 June 2012	10:35	VM1	0.42	5	Demolition of Building P
	10:13	VM3	0.25	5	
	10:03	VM5	0.25	5	
	09:22	VM16	0.25	5	
	09:34	VM17	0.13	5	
	09:49	VM18	0.25	5	
	09:41	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
8 June 2012	09:15	VM1	0.36	5	Demolition of Building P
	08:49	VM3	0.32	5	
	09:03	VM5	0.25	5	
	08:13	VM16	0.27	5	
	08:21	VM17	0.13	5	
	08:38	VM18	0.25	5	
	08:30	VM19	0.23	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
9 June 2012	09:37	VM1	0.25	5	Demolition of Building P
	09:19	VM3	0.28	5	
	09:23	VM5	0.32	5	
	08:32	VM16	0.25	5	
	08:40	VM17	0.13	5	
	09:07	VM18	0.25	5	
	08:49	VM19	0.13	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
11 June 2012	11:13	VM1	0.57	5	Demolition of Building P
	10:39	VM3	0.52	5	
	08:42	VM5	0.25	5	
	10:28	VM16	0.25	5	
	08:33	VM17	0.13	5	
	08:51	VM18	0.25	5	
	10:20	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
12 June 2012	14:56	VM1	0.46	5	Demolition of Building P
	15:08	VM3	0.38	5	
	14:39	VM5	0.25	5	
	13:19	VM16	0.38	5	
	14:27	VM17	0.13	5	
	13:13	VM18	0.25	5	
	13:27	VM19	0.13	5	

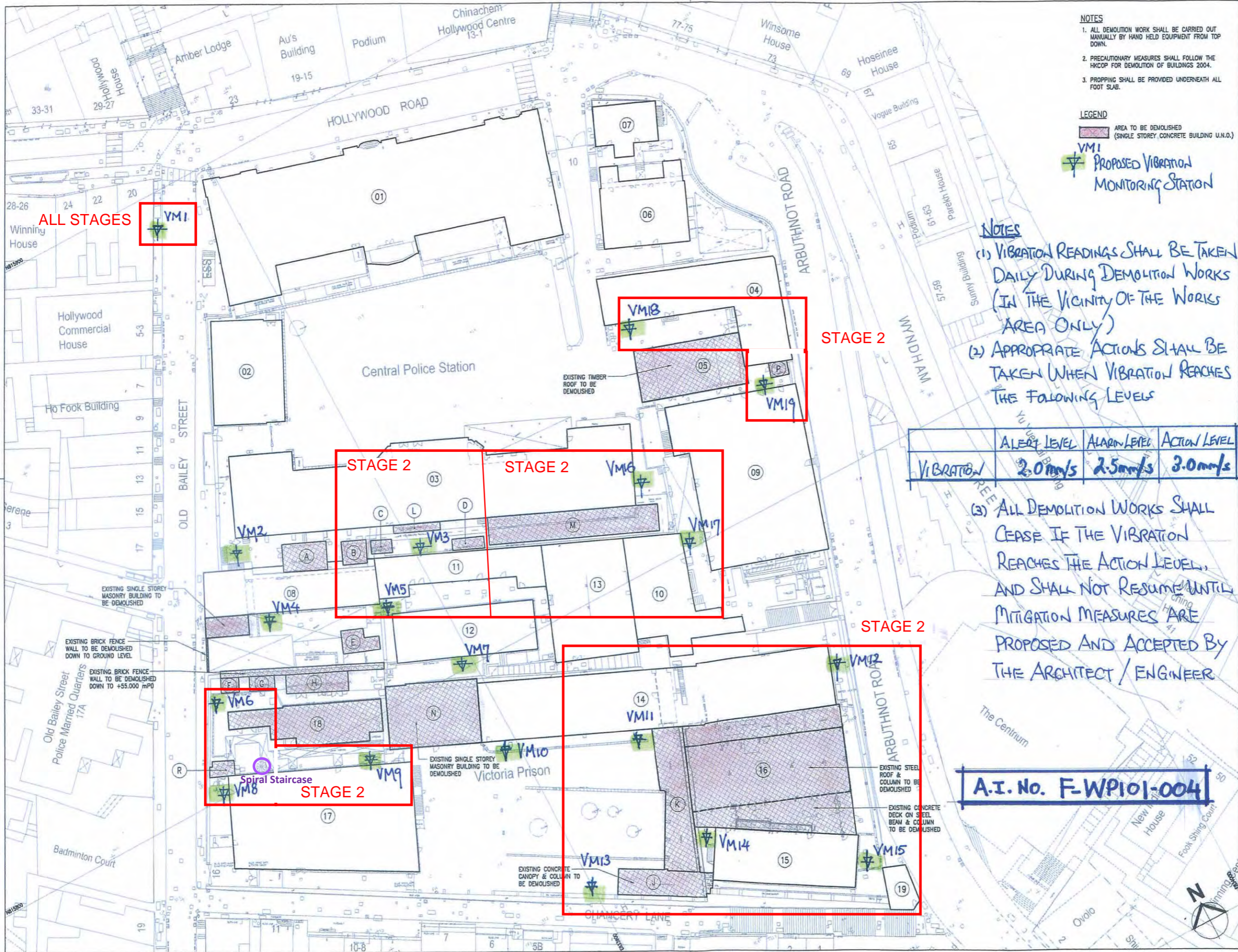
Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
13 June 2012	09:12	VM1	0.57	5	Demolition of Building P
	09:33	VM3	0.76	5	
	08:47	VM5	0.32	5	
	09:42	VM16	0.13	5	
	10:08	VM17	0.13	5	
	09:59	VM18	0.25	5	
	09:50	VM19	0.25	5	

**Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring**

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
14 June 2012	09:07	VM1	0.52	5	Demolition of Building P
	09:19	VM3	0.63	5	
	08:43	VM5	0.89	5	
	09:34	VM16	0.32	5	
	10:02	VM17	0.13	5	
	09:51	VM18	0.25	5	
	09:43	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
15 June 2012	14:10	VM1	0.67	5	Demolition of Building P
	13:54	VM3	0.54	5	
	16:17	VM5	0.75	5	
	15:21	VM16	0.37	5	
	15:47	VM17	0.25	5	
	15:39	VM18	0.25	5	
	15:28	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
16 June 2012	15:01	VM1	0.25	5	Demolition of Building P
	15:57	VM3	0.54	5	
	15:37	VM5	0.25	5	
	15:20	VM16	0.13	5	
	15:48	VM17	0.23	5	
	16:18	VM18	0.25	5	
	16:02	VM19	0.13	5	



NOTES

1. ALL DEMOLITION WORK SHALL BE CARRIED OUT MANUALLY BY HAND HELD EQUIPMENT FROM TOP DOWN.
2. PRECAUTIONARY MEASURES SHALL FOLLOW THE HKCOP FOR DEMOLITION OF BUILDINGS 2004.
3. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SUB.

LEGEND

■ AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

VM1 PROPOSED VIBRATION MONITORING STATION

NOTES

(1) VIBRATION READINGS SHALL BE TAKEN DAILY DURING DEMOLITION WORKS (IN THE VICINITY OF THE WORKS AREA ONLY)

(2) APPROPRIATE ACTIONS SHALL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS

VIBRATION	ALERT LEVEL	ALARM LEVEL	ACTION LEVEL
	2.0mm/s	2.5mm/s	3.0mm/s

(3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER

A.I. No. F-WP101-004

B.D. Ref. No. 樓宇維修編號
22-1/3056/10 (M)

Rev. No. 修改/增修編號

No. 編號	Description 說明	Date 日期	Approved 審批
01	TENDER	08/11	T.H.
02	BD SUBMISSION	08/11	T.H.



BD SUBMISSION
Drawing Status 製圖狀況

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Client 業主
The Hong Kong Jockey Club Charities Trust

Design Consultant
HERZOG & DE MEURON

Conservation Architect
Rocco Yick

Architect / AP
ARUP

Structural Engineer / RSE
E & M Engineer

Project 項目
CENTRAL POLICE STATION
CONSERVATION AND REVITALISATION

Drawing Title 圖名
DEMOLITION SITE PLAN
(OVERALL)

Scale 比例
1:3000A1
Drawing No. 圖號
DE-OAP209674-L-100
Revision 修改
02

11 NOV 2011

Vibration Monitoring Locations for Trial Pile near Block 17



F.S.D. Ref. No. 註冊編號

Revision/修改 修改日期/地點

No.	Description	Date	Approved
-	BD SUBMISSION	07/11	JS
A	TENDER DRAWING	08/11	JS
B	TENDER ADDENDUM	09/11	JS
C	BD RE-SUBMISSION	09/11	JS

Plan Approved

NG Kiu-ming
Chief Structural Engineer
for BUILDING AUTHORITY
17 NOV 2011



- LEGEND**
- 3151/RH1 EXISTING BOREHOLE (DONE BY OTHERS)
 - 13470/TP1 EXISTING TRIAL PIT (DONE BY OTHERS)
 - 39295/R13-C1 EXISTING COREHOLE (DONE BY OTHERS)
 - DH1 EXISTING DRILLHOLE (DONE BY GAP)
 - TP1 EXISTING TRIAL PIT (DONE BY GAP)
 - B-CH1/B-ICH1 EXISTING HORIZONTAL/INCLINED COREHOLE (DONE BY GAP)
 - CH1 EXISTING VERTICAL COREHOLE (DONE BY GAP)
 - I-1 EXISTING INCLINED DRILLHOLE (DONE BY GAP)
 - (S,P) DENICED STANDPIPE/PIEZOMETER (DH18, DH20 & DH22)
 - SITE BOUNDARY
 - TP-H1 TRIAL PILE (SHAFT-GROUTED PREDORED H-PILE)
 - TP-M1 TRIAL PILE (SHAFT-GROUTED MINI-PILE)
 - BS1 PROPOSED BUILDING SETTLEMENT POINTS/UTLIMETER (BS1/B11 TO BS7/B17)
 - GS1 PROPOSED GROUND SETTLEMENT POINTS (GS1 TO GS8)
 - VM1 PROPOSED VIBRATING MONITORING (VM1 TO VM12) (DURING PILE CONSTRUCTION ONLY)
 - 100 --- EXISTING FRESH WATER MAIN
 - 150 --- EXISTING SALT WATER MAIN
 - 11 --- EXISTING STREET LIGHTING NO. 33488-A1
 - 11 --- EXISTING STREET LIGHTING CABLE
 - 250 --- EXISTING GAS MAIN
 - 11 --- 120V --- EXISTING HV ELECTRICITY CABLE
 - 11 --- LV --- EXISTING LV ELECTRICITY CABLE
 - 102 --- EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
 - 150 --- EXISTING STORMWATER DRAIN
 - 150 --- EXISTING POUL SEWER
 - 150 --- PROPOSED POUL SEWER

BD SUBMISSION

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Client 業主
香港賽馬會慈善信託基金
The Hong Kong Jockey Club Charities Trust

Design Consultant
HERZOG & DE MEURON

Conservation Architect
ROCCO

Architect / AP
ARUP

Structural Engineer / RSE
ARUP

E & M Engineer
JRP

Project 項目
**CENTRAL POLICE STATION
CONSERVATION AND REVITALISATION**

Drawing 圖紙名稱
**LAYOUT PLAN FOR SHAFT
GROUTED PILE FOUNDATION
(TRIAL PILE & MONITORING)**

Scale 比例
1:300 @ A1

Drawn 繪圖
K.C.Lai

Checked 校對
AL

Drawing No. 圖紙編號
F/005

Revision 修改
C

INWAY KEN YEAP
Chief Structural Engineer
REGISTERED STRUCTURAL ENGINEER

TRIAL PILE SCHEDULE

TRIAL PILE NO.	COORDINATE EASTING (m) NORTHING (m)	EXISTING GROUND LEVEL (mPD)	CUT-OFF LEVEL (mPD)	INTERFACE LEVEL BETWEEN COLUMN AND CDG (mPD)	TENTATIVE FOUNDING LEVEL (mPD)	TENTATIVE PILE LENGTH (m)	ULTIMATE PILE CAPACITY (kN)
TP-H1	833889 815781	+55.70	+55.90	+44.00	-6.82	62.72	18000
TP-H2	833916 815768	+55.70	+55.90	+44.00	-10.62	66.75	18000
TP-M1	833981 815774	+55.70	+56.49	+44.00	+22.22	34.27	4710
TP-M2	833876 815820	+50.00	+50.79	+34.00	+12.56	38.23	4710

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2011 SEP 19 2:51
R & D Studies
BUILDINGS DEPARTMENT

Vibration Record

Project Title: Central Police Station Conservation & Revitalization

Project No: WP201

Date: 2012-4-22 To 2012-5-5

POINT		VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM11	VM12	VM13	VM14	VM15
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
2/4/2012	(Initial)	0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
23/4/2012		0.54	0.19	0.75	1.01	0.24	0.91	0.18	0.13	0.22	0.36	0.68	0.21	0.67	0.27	0.13
24/4/2012		0.63	0.13	0.81	1.21	1.01	1.08	0.19	0.27	0.22	0.64	0.38	0.13	1.01	0.19	0.22
25/4/2012		0.27	0.13	0.19	0.98	1.08	0.67	0.81	0.23	0.61	0.13	0.13	0.27	0.22	0.13	0.13
26/4/2012		0.13	0.19	0.62	0.81	0.71	0.53	0.13	0.13	0.19	0.22	0.47	0.13	0.19	0.13	0.13
27/4/2012		0.19	0.22	0.13	0.13	0.13	0.13	0.19	0.21	0.13	0.27	0.13	0.33	0.13	0.19	0.13
28/4/2012		Public Holiday														
30/4/2012		0.23	0.21	0.37	0.31	0.34	0.41	0.22	0.33	0.27	0.19	0.32	0.21	0.35	0.25	0.13
1/5/2012		Public Holiday														
2/5/2012		0.23	0.13	0.19	0.21	0.63	0.13	0.22	0.13	0.19	0.13	0.13	0.19	0.31	0.13	0.22
3/5/2012		0.19	0.27	0.61	0.13	0.13	0.17	0.21	0.36	0.63	0.17	0.22	0.21	0.63	0.13	0.24
4/5/2012		0.63	0.27	0.6	0.22	0.23	0.61	0.71	0.21	0.13	0.61	0.79	0.81	0.13	0.13	0.13
5/5/2012		0.61	0.21	0.13	0.13	0.19	0.13	0.27	0.13	0.23	0.34	0.13	0.61	0.69	0.14	0.88

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization

Project No: WP201

Date: 2012-5-6 To 2012-5-19

POINT		VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM11	VM12	VM13	VM14	VM15
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
2/4/2012	(Initial)	0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
6-May-2012																
7-May-2012		0.22	0.13	0.61	0.13	0.17	0.21	0.22	0.63	0.13	0.92	0.13	0.22	0.27	0.19	0.40
8-May-2012		0.13	0.27	0.55	0.19	0.27	0.61	0.27	0.63	0.23	0.81	0.27	0.62	0.19	0.22	0.22
9-May-2012		0.23	0.61	0.37	0.27	0.31	0.13	0.13	0.19	0.61	0.51	0.51	0.41	0.27	0.27	0.13
10-May-2012		0.13	0.24	0.26	0.91	0.11	0.13	0.27	0.13	0.60	0.27	0.19	0.50	0.27	0.19	0.13
11-May-2012		0.27	0.30	0.21	0.13	0.13	0.69	0.13	0.27	0.19	0.61	0.30	0.40	0.17	0.19	0.21
12-May-2012		0.71	0.60	0.13	0.23	0.17	0.21	0.27	0.44	0.39	0.90	0.13	0.40	0.19	0.27	0.61
13-May-2012																
14-May-2012		0.21	0.3	0.27	0.19	0.13	0.22	0.19	0.52	0.17	0.51	0.23	0.6	0.37	0.13	0.13
15-May-2012		0.3	0.55	0.19	0.31	0.13	0.27	0.19	0.23	0.51	0.79	0.4	0.19	0.22	0.22	0.13
16-May-2012		0.22	0.13	0.23	0.27	0.37	0.11	0.61	0.13	0.13	0.61	0.51	0.63	0.27	0.42	0.9
17-May-2012		0.27	0.19	0.13	0.23	0.61	0.55	0.6	0.61	0.3	0.79	0.79	0.81	0.22	0.19	0.13
18-May-2012		0.5	0.21	0.13	0.6	0.17	0.61	0.27	0.19	0.21	0.51	0.4	0.62	0.19	0.13	0.69
19-May-2012		0.23	0.22	0.13	0.19	0.27	0.23	0.62	0.27	0.26	0.13	0.81	0.23	0.13	0.27	0.33



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Win Win Way Construction Company Ltd.

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization

Project No: WP201

Date: 20-5-2012 To 2-6-2012

POINT		VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM11	VM12	VM13	VM14	VM15
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
2-Apr-2012	(Initial)	0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
20-May-2012																
21-May-2012		0.24	0.26	0.31	0.13	0.23	0.31	0.69	0.62	0.90	0.79	0.27	0.27	0.13	0.13	0.19
22-May-2012		0.61	0.13	0.27	0.69	0.51	0.22	0.40	0.30	0.71	0.27	0.13	0.37	0.19	0.60	0.30
23-May-2012		0.13	0.27	0.19	0.21	0.31	0.69	0.30	0.23	0.60	0.51	0.27	0.41	0.16	0.44	0.31
24-May-2012		0.26	0.22	0.27	0.31	0.21	0.27	0.27	0.30	0.33	0.51	0.19	0.81	1.01	0.69	1.27
25-May-2012		0.13	0.27	0.19	0.22	0.63	0.81	0.61	0.27	0.31	0.98	1.01	0.13	1.21	0.62	0.19
26-May-2012		0.30	0.21	0.71	0.61	0.13	0.69	0.31	0.27	0.71	0.13	0.19	1.13	0.22	0.26	0.22
27-May-2012																
28-May-2012		0.27	0.13	0.27	0.17	0.19	0.52	0.61	1.08	0.71	0.13	0.24	0.17	1.22	0.69	0.23
29-May-2012		0.31	0.22	0.19	0.13	0.13	0.41	0.19	0.91	0.51	0.21	0.19	0.51	0.19	0.13	0.27
30-May-2012		0.61	0.13	0.72	0.19	0.13	0.19	0.82	1.11	0.27	0.17	0.24	0.23	0.61	0.55	0.13
31-May-2012		0.22	0.19	0.41	0.57	0.32	0.81	0.69	0.90	1.05	1.07	0.13	0.13	0.19	0.22	0.41
1-Jun-2012		0.23	0.28	0.13	0.13	0.67	0.52	0.33	0.13	0.19	0.27	0.18	1.08	0.61	0.21	0.13
2-Jun-2012		0.22	0.61	0.88	0.34	0.13	0.13	0.13	0.19	0.27	0.22	0.18	0.90	1.02	0.73	0.90



恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization

Project No: WP201

Date: 3-6-2012 To 16-6-2012

POINT		VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM11	VM12	VM13	VM14	VM15
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
2-Apr-2012	(Initial)	0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
3-Jun-2012																
4-Jun-2012		0.13	0.29	0.13	0.19	0.13	0.61	0.22	0.27	0.30	0.38	0.27	0.38	0.61	0.13	0.17
5-Jun-2012		0.21	0.13	0.69	0.71	0.33	0.16	0.23	0.79	0.32	0.22	0.13	0.23	0.63	0.14	0.19
6-Jun-2012		0.31	0.33	0.22	0.27	0.13	0.61	0.51	0.13	0.21	1.01	0.21	0.34	0.27	0.38	0.61
7-Jun-2012		0.29	0.13	0.18	0.17	0.13	0.19	0.29	0.28	0.30	0.61	0.33	0.22	0.81	0.31	0.13
8-Jun-2012		0.13	0.21	0.29	0.81	0.21	0.23	0.33	0.60	0.18	0.55	0.23	0.31	0.79	0.13	0.16
9-Jun-2012		0.61	0.13	0.31	0.29	0.21	0.34	0.61	0.19	0.22	0.21	0.23	0.19	0.70	1.05	0.69
10-Jun-2012																
11-Jun-2012		0.27	0.13	0.60	0.71	0.33	0.16	0.29	0.66	0.32	0.22	0.19	0.23	0.61	0.19	0.26
12-Jun-2012		0.33	0.21	0.46	0.32	0.13	0.23	1.12	0.56	0.21	0.34	0.69	0.32	0.55	0.39	0.25
13-Jun-2012		0.66	0.19	0.16	0.23	0.79	0.32	0.22	0.13	0.23	0.71	0.13	0.19	0.29	0.28	0.30
14-Jun-2012		0.61	0.79	0.32	0.22	0.13	0.23	0.63	0.14	0.13	0.21	0.16	0.29	0.66	0.32	0.22
15-Jun-2012		0.22	0.27	0.30	0.38	0.27	0.28	0.71	0.33	0.13	0.61	0.51	0.13	0.21	1.01	0.21
16-Jun-2012		0.33	0.16	0.23	0.79	0.32	0.22	0.63	0.56	0.34	0.27	0.21	0.29	0.81	0.21	0.23



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Win Win Way Construction Company Ltd.

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	5mm/s	6mm/s	7.5mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 23-Sep-2012 to 6-Oct-2012

POINT		VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM11	VM12	VM13	VM14	VM15
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
2-Apr-2012	(Initial)	0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
23-Sep-2012		Sunday														
24-Sep-2012		0.13	0.22	0.19	0.21	0.31	0.69	0.30	0.23	0.60	0.51	0.27	0.41	0.16	0.37	0.31
25-Sep-2012		0.26	0.22	0.27	0.31	0.21	0.27	0.27	0.30	0.33	0.51	0.21	0.81	1.01	0.69	1.27
26-Sep-2012		0.13	0.27	0.19	0.22	0.63	0.81	0.61	0.27	0.31	0.98	1.01	0.13	1.21	0.62	0.19
27-Sep-2012		0.30	0.21	0.71	0.61	0.13	0.28	0.31	0.27	0.66	0.13	0.19	1.13	0.22	0.26	0.21
28-Sep-2012		0.34	0.13	0.72	0.19	0.13	0.19	0.82	1.11	0.27	0.17	0.24	0.23	0.61	0.55	0.13
29-Sep-2012		0.22	0.19	0.41	0.57	0.32	0.81	0.69	0.90	1.05	1.07	0.13	0.13	0.19	0.22	0.41
30-Sep-2012		Sunday														
1-Oct-2012		Public Holiday														
2-Oct-2012		Public Holiday														
3-Oct-2012		0.13	0.27	0.19	0.22	0.63	0.60	0.61	0.27	0.31	0.98	1.01	0.13	1.21	0.62	0.33
4-Oct-2012		0.30	0.21	0.71	0.61	0.13	0.50	0.31	0.27	0.71	0.13	0.22	1.13	0.22	0.26	0.22
5-Oct-2012		0.13	0.10	0.09	0.15	0.19	0.14	0.14	0.15	0.13	0.16	0.14	0.32	0.26	0.12	0.11
6-Oct-2012		0.12	0.29	0.13	0.13	0.17	0.14	0.13	0.18	0.73	0.10	0.12	0.43	0.11	0.15	0.13


 Prepared by : Lo wing yue (Surveyor)

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	5mm/s	6mm/s	7.5mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 7-Oct-2012 to 20-Oct-2012

POINT		VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM11	VM12	VM13	VM14	VM15
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
2-Apr-2012	(Initial)	0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
7-Oct-2012		Sunday														
8-Oct-2012		0.38	0.16	0.25	0.20	0.16	0.35	0.18	0.39	0.16	0.21	0.29	0.17	0.23	0.15	0.37
9-Oct-2012		0.17	0.18	0.21	0.16	0.16	0.15	0.15	0.17	0.16	0.18	0.16	0.17	0.18	0.13	0.17
10-Oct-2012		0.16	0.25	0.20	0.16	0.35	0.28	0.39	0.16	0.21	0.29	0.17	0.23	0.15	0.33	0.15
11-Oct-2012		0.18	0.23	0.15	0.15	0.17	0.16	0.18	0.16	0.17	0.18	0.31	0.17	0.22	0.23	0.22
12-Oct-2012		0.20	0.31	0.24	0.16	0.16	0.15	0.15	0.37	0.16	0.34	0.16	0.17	0.18	0.13	0.17
13-Oct-2012		0.23	0.16	0.16	0.15	0.15	0.17	0.16	0.18	0.16	0.17	0.18	0.13	0.46	0.36	0.28
14-Oct-2012		Sunday														
15-Oct-2012		0.25	0.20	0.21	0.24	0.15	0.16	0.14	0.14	0.19	0.16	0.26	0.15	0.37	0.12	0.15
16-Oct-2012		0.17	0.15	0.14	0.13	0.12	0.13	0.14	0.15	0.15	0.14	0.29	0.11	0.18	0.13	0.10
17-Oct-2012		0.41	0.16	0.16	0.17	0.15	0.15	0.31	0.21	0.24	0.19	0.15	0.64	0.21	0.15	0.30
18-Oct-2012		0.16	0.13	0.14	0.14	0.13	1.47	0.14	0.14	0.15	0.13	0.15	0.27	0.15	0.14	0.13
19-Oct-2012		0.17	0.18	0.19	0.20	0.18	0.19	0.16	0.18	0.23	0.14	0.20	0.17	0.44	0.14	0.15
20-Oct-2012		0.14	0.13	0.40	0.15	0.14	0.12	0.14	0.15	0.17	0.15	0.14	0.09	0.13	0.14	0.12


Prepared by : Lo wing yue (Surveyor)



恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Trial Pile)

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	5mm/s	6mm/s	7.5mm/s

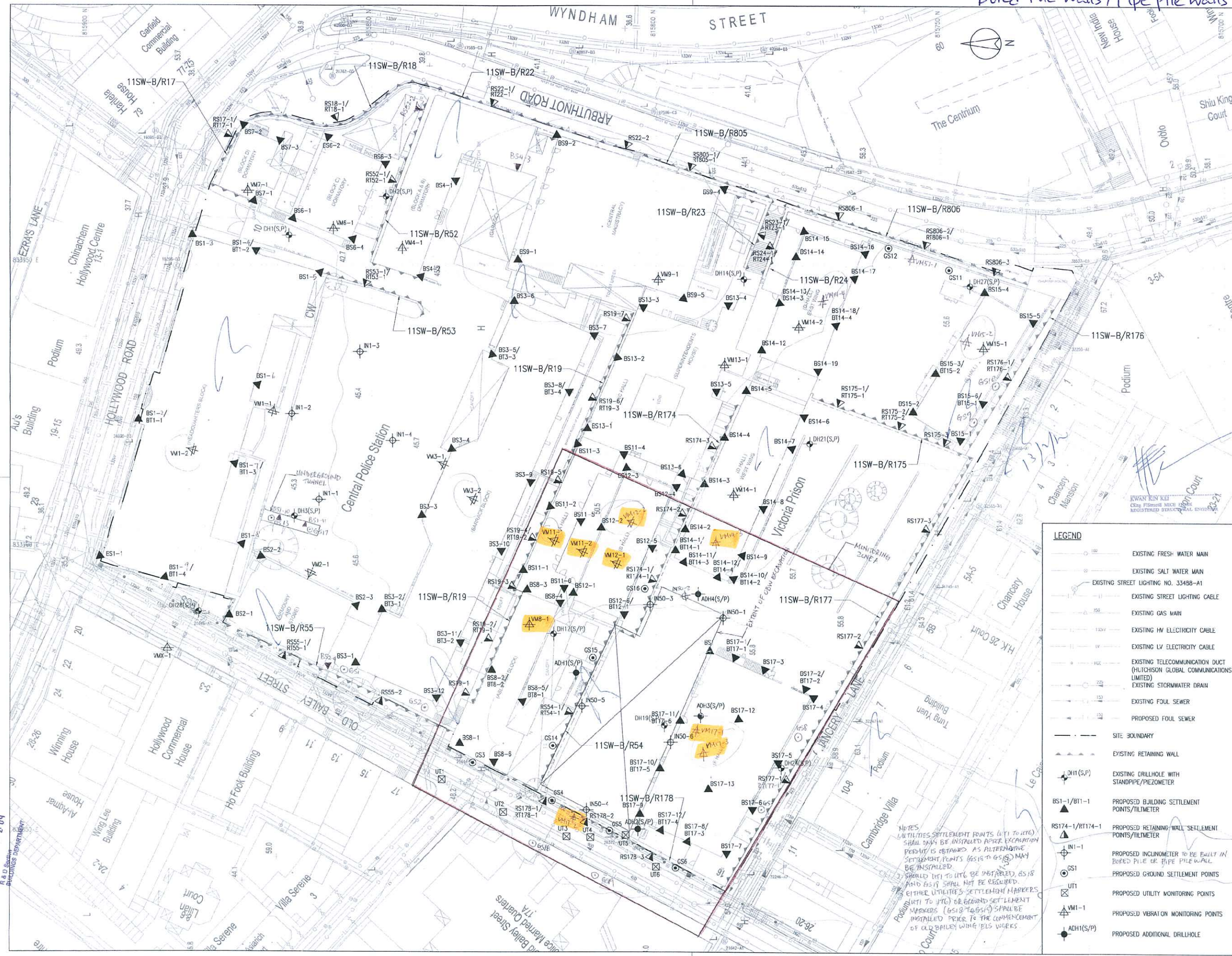
Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 21-Oct-2012 to 3-Nov-2012

POINT	VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM11	VM12	VM13	VM14	VM15	
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	
2-Apr-2012 (Initial)		0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
21-Oct-2012		Sunday														
22-Oct-2012		0.18	0.18	0.17	0.18	0.21	0.36	0.24	1.24	0.17	0.13	0.17	0.18	0.25	0.13	0.27
23-Oct-2012		Holiday														
24-Oct-2012		0.12	0.22	0.15	0.14	0.16	0.33	0.20	0.14	0.20	0.19	0.16	0.12	0.14	0.15	0.21
25-Oct-2012		0.32	0.15	0.27	0.26	0.13	0.25	0.14	0.14	0.12	0.21	0.13	0.15	0.23	0.12	0.12
26-Oct-2012		0.12	0.10	0.19	0.10	0.14	0.21	0.12	0.12	0.14	0.23	0.15	0.13	0.22	0.10	0.16
27-Oct-2012		0.25	0.18	0.16	0.16	0.16	0.22	0.16	0.17	0.15	0.16	0.76	0.14	0.18	0.19	0.14
28-Oct-2012		Sunday														
29-Oct-2012		0.16	1.25	0.19	0.29	0.18	0.18	0.18	0.13	0.23	0.16	0.15	0.16	0.16	0.17	0.14
30-Oct-2012		0.22	0.22	0.25	0.14	0.14	0.14	0.44	0.19	0.18	0.18	0.20	0.22	0.14	0.21	0.21
31-Oct-2012		0.13	0.15	0.26	0.18	0.14	0.13	0.13	0.14	0.13	0.14	0.15	0.22	0.12	0.13	0.12
1-Nov-2012		0.12	0.27	0.24	0.37	0.09	0.14	0.38	0.15	0.15	0.15	0.14	0.36	0.15	0.12	0.13
2-Nov-2012		0.33	0.21	0.18	0.15	0.12	0.14	0.46	0.14	0.15	0.15	0.14	0.13	0.16	0.12	0.18
3-Nov-2012		0.87	0.14	0.22	0.15	0.89	0.66	0.12	0.13	0.66	0.12	0.13	0.12	0.15	0.14	0.11

Prepared by : Lo wing yue (Surveyor)

Bored Pile Walls / Pipe pile Walls at Block 50



E.D. Ref. No. 2009/11 (2) (17.3.5) (H.C.) (S)
 F.S.D. Ref. No. 2009/11 (2) (17.3.5) (H.C.) (S)

Revision/Submission 修改版/ 版本	No. 编号	Description 说明	Date 日期	Approved 审批
	1	BD SUBMISSION	12/11	JS

Plan Approved
 NG Kimshing
 Chief Structural Engineer
 for BUILDING AUTHORITY
 20 FEB 2012



BD SUBMISSION
 Drawing Status 绘图状况

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Client 業主
 賽馬會文物保育有限公司
 The Jockey Club CPS Limited

Design Consultant
 HERZOG & DEMEUREN

Conservation Architect
 ROCCO

Executive Architect / AP
 ARUP

Structural Engineer / RSE E & M Engineer
 JRP

Project 項目
 CENTRAL POLICE STATION
 CONSERVATION AND REVITALISATION
 PROJECT

Drawing Title 圖名
 MONITORING LAYOUT PLAN

Scale 比例
 1:3000A1

Drawn 繪圖
 K.C.Loi

Checked 校核
 AL

Revision 修改版
 00-OAP209674-G-001

LEGEND

	EXISTING FRESH WATER MAIN
	EXISTING SALT WATER MAIN
	EXISTING STREET LIGHTING NO. 33488-A1
	EXISTING STREET LIGHTING CABLE
	EXISTING GAS MAIN
	EXISTING HV ELECTRICITY CABLE
	EXISTING LV ELECTRICITY CABLE
	EXISTING TELECOMMUNICATION DUCT (HILICHSON GLOBAL COMMUNICATIONS LIMITED)
	EXISTING STORMWATER DRAIN
	EXISTING FOUL SEWER
	PROPOSED FOUL SEWER
	SITE BOUNDARY
	EXISTING RETAINING WALL
	EXISTING DRILLHOLE WITH STANDPIPE/PNEZOMETER
	PROPOSED BUILDING SETTLEMENT POINTS/TILMETER
	PROPOSED RETAINING WALL SETTLEMENT POINTS/TILMETER
	PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE OR PIPE PILE WALL
	PROPOSED GROUND SETTLEMENT POINTS
	PROPOSED UTILITY MONITORING POINTS
	PROPOSED VIBRATION MONITORING POINTS
	PROPOSED ADDITIONAL DRILLHOLE

NOTES
 UTILITIES SETTLEMENT POINTS (UT1 TO UT6) SHALL ONLY BE INSTALLED AFTER EXCAVATION PERMIT IS OBTAINED AS ALTERNATIVE SETTLEMENT POINTS (GS16 TO GS19) MAY BE INSTALLED.
 應在取得挖掘許可後才安裝 UT1 至 UT6 的設施，因為可安裝替代設施 (GS16 至 GS19)。

SETTLEMENT POINTS (GS18 AND GS19) SHALL NOT BE REQUIRED.
 GS18 及 GS19 的設施不須安裝。

EITHER UTILITY SETTLEMENT MARKERS (UT1 TO UT6) OR GROUND SETTLEMENT MARKERS (GS18 TO GS19) SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF OLD BAILEY WALLS WORKS.

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 PLANNING DEPARTMENT

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization

Project No: WP201

Date: 28-7-2012 To 11-8-2012

POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
28-Jul-2012		0.1	0.13	0.27	0.1	0.13	0.22	0.1	0.10	0.1
29-Jul-2012										
30-Jul-2012		0.13	0.22	0.1	0.1	0.1	0.13	0.27	0.10	0.13
31-Jul-2012		0.1	0.1	0.1	0.13	0.27	0.1	0.13	0.27	0.1
1-Aug-2012		0.15	0.14	0.14	0.10	0.13	0.11	0.22	0.17	0.19
2-Aug-2012		0.15	0.18	0.16	0.10	0.11	0.17	0.27	0.15	0.20
3-Aug-2012		0.13	0.20	0.18	0.12	0.10	0.20	0.25	0.20	0.17
4-Aug-2012		0.10	0.13	0.10	0.11	0.15	0.16	0.29	0.22	0.22
5-Aug-2012										
6-Aug-2012		0.17	0.10	0.12	0.15	0.13	0.10	0.28	0.21	0.20
7-Aug-2012		0.11	0.13	0.12	0.13	0.18	0.16	0.29	0.15	0.18
8-Aug-2012		0.15	0.13	0.14	0.12	0.17	0.10	0.26	0.19	0.16
9-Aug-2012		0.16	0.14	0.11	0.16	0.14	0.17	0.25	0.16	0.20
10-Aug-2012		0.13	0.20	0.18	0.12	0.12	0.20	0.25	0.20	0.17
11-Aug-2012		0.15	0.14	0.15	0.10	0.13	0.11	0.20	0.17	0.19

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibration at ground level	2mm/s	2.5mm/s	3mm/s
Vibration at Largest Span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization

Project No: WP201

Date: 12-8-2012 To 30-8-2012

POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
12-Aug-2012										
13-Aug-2012		0.72	0.17	0.12	0.13	0.12	0.16	0.10	0.23	0.11
14-Aug-2012		0.24	0.12	0.18	0.14	0.12	0.26	0.11	0.19	0.12
15-Aug-2012		0.09	0.37	0.11	0.14	0.13	0.13	0.10	0.13	0.12
16-Aug-2012		0.11	0.11	0.18	0.13	0.11	0.30	0.16	0.11	0.11
17-Aug-2012		0.10	0.23	0.11	0.11	0.13	0.11	0.11	0.16	0.13
18-Aug-2012		0.09	0.10	0.46	0.15	0.20	0.13	0.10	0.11	0.12
20-Aug-2012		0.13	0.15	0.12	0.12	0.15	0.13	0.48	0.13	0.15
21-Aug-2012		0.09	0.11	0.13	0.13	0.12	0.11	0.13	0.10	0.13
22-Aug-2012		0.10	0.12	0.11	0.29	0.11	0.16	0.12	0.11	0.14
23-Aug-2012		0.10	0.11	0.14	0.33	0.23	0.12	0.14	0.27	0.14
24-Aug-2012		0.13	0.16	0.12	0.22	0.25	0.46	0.11	0.11	0.23
25-Aug-2012		0.09	0.12	0.13	0.14	0.12	0.11	0.12	0.16	0.14
27-Aug-2012		0.09	0.11	0.12	0.10	0.11	0.15	0.11	0.12	0.13
28-Aug-2012		0.10	0.13	0.12	0.31	0.11	0.13	0.12	0.11	0.11
29-Aug-2012		0.24	0.13	0.13	0.14	0.11	0.08	0.15	0.21	0.12
30-Aug-2012		0.10	0.09	0.12	0.26	0.18	0.15	0.41	0.11	0.10

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s
Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization

Project No: WP201

Date: 26-8-2012 To 8-9-2012

POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
27-Aug-2012		0.09	0.11	0.12	0.10	0.11	0.15	0.11	0.12	0.13
28-Aug-2012		0.10	0.13	0.12	0.31	0.11	0.13	0.12	0.11	0.11
29-Aug-2012		0.24	0.13	0.13	0.14	0.11	0.08	0.15	0.21	0.12
30-Aug-2012		0.10	0.09	0.12	0.26	0.18	0.15	0.41	0.11	0.10
31-Aug-2012		0.10	0.29	0.30	0.39	0.10	0.11	0.80	0.43	0.23
1-Sep-2012		0.26	0.23	0.39	0.16	0.80	0.23	0.30	0.45	0.15
3-Sep-2012		0.16	0.31	0.21	0.21	0.36	0.12	0.33	0.19	1.62
4-Sep-2012		0.55	0.20	0.24	0.12	0.11	0.24	0.45	0.13	1.13
5-Sep-2012		0.12	0.11	0.32	0.12	0.80	0.12	0.33	0.83	0.41
6-Sep-2012		0.21	0.13	0.30	0.15	0.16	0.12	0.27	0.21	0.12
7-Sep-2012		0.37	0.11	0.27	0.12	0.25	0.12	0.49	0.78	0.63
8-Sep-2012		0.44	0.35	0.26	0.40	0.31	0.14	0.52	1.40	0.28

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s
Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 23-Sep-2012 to 6-Oct-2012

POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (Initial)		0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
#REF!										
23-Sep-2012		Sunday								
24-Sep-2012		0.39	0.14	0.11	0.43	0.12	0.12	0.20	0.46	0.33
25-Sep-2012		0.14	0.11	0.13	0.13	0.13	0.09	0.12	0.14	0.52
26-Sep-2012		0.09	0.38	0.21	0.12	0.15	0.11	0.33	0.31	0.22
27-Sep-2012		0.15	0.23	0.16	0.19	0.12	0.10	0.19	0.57	0.25
28-Sep-2012		0.17	0.20	0.13	0.17	0.15	0.12	0.23	0.35	0.21
29-Sep-2012		0.16	0.17	0.17	0.19	0.18	0.39	0.42	0.23	0.37
30-Sep-2012		Sunday								
1-Oct-2012		Public Holiday								
2-Oct-2012										
3-Oct-2012		0.18	0.16	0.18	0.20	0.16	0.18	0.17	0.60	0.31
4-Oct-2012		0.28	0.19	0.17	0.50	0.19	0.17	0.54	0.41	0.25
5-Oct-2012		0.14	0.11	0.31	0.13	0.11	0.24	0.12	0.18	0.14
6-Oct-2012		0.39	0.24	0.30	0.52	0.11	0.11	0.15	0.13	0.12

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s
Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 7-Oct-2012 to 20-Oct-2012

POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (Initial)		0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
7-Oct-2012		Sunday								
8-Oct-2012		0.57	0.44	0.29	0.37	0.38	0.27	0.15	0.55	0.17
9-Oct-2012		0.22	0.77	0.22	0.16	0.14	0.17	0.13	0.18	0.15
10-Oct-2012		0.20	0.22	0.17	0.17	0.27	0.15	0.17	0.15	0.16
11-Oct-2012		0.13	0.16	0.12	0.29	0.19	0.38	0.12	0.12	0.47
12-Oct-2012		0.22	0.69	0.12	0.15	0.11	0.14	0.11	0.51	0.68
13-Oct-2012		0.10	0.10	0.13	0.11	0.13	0.12	0.11	0.16	0.15
14-Oct-2012		Sunday								
15-Oct-2012		0.11	0.14	0.22	0.16	0.21	0.21	0.16	0.25	0.16
16-Oct-2012		0.12	0.35	0.14	0.14	0.14	0.11	0.21	0.14	0.12
17-Oct-2012		0.19	0.14	0.21	0.21	0.13	0.22	0.17	0.17	0.30
18-Oct-2012		0.15	0.21	0.15	0.16	0.14	0.14	0.11	0.13	0.14
19-Oct-2012		0.12	0.16	0.25	0.20	0.23	0.17	0.15	0.28	0.17
20-Oct-2012		0.15	0.14	0.14	0.12	0.13	0.18	0.12	0.12	0.12

(Bored Pile Walls / Pipe Pile Walls at Block 50)



Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s
Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 21-Oct-2012 to 3-Nov-2012

POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
21-Oct-2012		Sunday								
22-Oct-2012		0.21	0.20	0.17	0.19	0.17	0.19	0.18	0.16	0.25
23-Oct-2012		Holiday								
24-Oct-2012		0.25	0.22	0.27	0.17	0.26	0.16	0.14	0.15	0.13
25-Oct-2012		0.16	0.23	0.18	0.22	0.30	0.20	0.15	0.18	0.22
26-Oct-2012		0.17	0.22	0.14	0.23	0.17	0.12	0.11	0.13	0.13
27-Oct-2012		0.15	0.16	0.18	0.16	0.15	0.24	0.15	0.16	0.16
28-Oct-2012		Sunday								
29-Oct-2012		0.12	1.60	0.17	0.12	0.17	0.24	0.15	1.25	0.40
30-Oct-2012		0.22	0.14	0.23	0.22	0.14	0.15	0.19	0.25	0.16
31-Oct-2012		0.10	0.13	0.13	0.10	0.12	0.14	0.10	0.12	0.13
1-Nov-2012		0.31	0.28	0.14	0.22	0.25	0.24	0.19	0.19	0.35
2-Nov-2012		0.29	0.13	0.23	0.13	0.16	0.14	0.09	0.12	0.14
3-Nov-2012		0.12	0.14	0.09	0.10	0.11	0.47	0.10	0.11	0.89

Annex L

Records of Vibration
Monitoring for Other
Construction Works

Underpinning, Strengthening and Structural Alteration Works at Block 8



S.O. Ref No: 177/2012	
S.O. Ref No: 177/2012	
Revision/Description	Date/By/Approved
ED SUBMISSION	12/11 JS

Plan Approved
 NG Kin-shing
 Chief Structural Engineer
 for BUILDING AUTHORITY
 20 FEB 2012



BD SUBMISSION
 Drawing Status: 00-001
 This drawing and the conditions herein are the copyright of the consultant.
 No part of this drawing and the design contained herein may be reproduced without the prior written consent of the consultant.
 Do not take measurements directly from this drawing.
 Check and verify all dimensions on site.
 Read this drawing in conjunction with the specifications and all other related drawings.
 Notify the relevant authorities immediately of any discrepancy found from the site conditions to the design.

LEGEND

---	EXISTING FRESH WATER MAIN
---	EXISTING SALT WATER MAIN
---	EXISTING STREET LIGHTING NO. 3342B-A1
---	EXISTING STREET LIGHTING CABLE
---	EXISTING GAS MAIN
---	EXISTING HV ELECTRICITY CABLE
---	EXISTING LV ELECTRICITY CABLE
---	EXISTING TELECOMMUNICATION DUCT (HUTCHINSON GLOBAL COMMUNICATIONS LIMITED)
---	EXISTING STORMWATER DRAIN
---	EXISTING FOUL SEWER
---	PROPOSED FOUL SEWER
---	SITE BOUNDARY
---	EXISTING RETAINING WALL
○	EXISTING DRILLHOLE WITH STANDPIPE/PEZOMETER
△	PROPOSED BUILDING SETTLEMENT POINTS/TILT-METER
△	PROPOSED RETAINING WALL SETTLEMENT POINTS/TILT-METER
○	PROPOSED INCLINOMETER TO BE DRILL IN TIE-BACK PILE WALL OR PILE HEAD WALL
○	PROPOSED GROUND SETTLEMENT POINTS
○	PROPOSED UTILITY MONITORING POINTS
○	PROPOSED VIBRATION MONITORING POINTS
○	PROPOSED ADDITIONAL DRILLHOLE

NOTES
 1. ALL UTILITY SETTLEMENT POINTS (UTL TO UTL) SHALL ONLY BE INSTALLED AFTER EXCAVATION PERMIT IS OBTAINED AS ALTERNATIVE SETTLEMENT POINTS (BS1 AND BS1D) HAVE BEEN INSTALLED.
 2. SHOULD UTL TO UTL BE MAINLY BS1 AND BS1D, THESE SHALL BE DESIGNED.
 3. THREE UTILITY SETTLEMENT POINTS (UTL TO UTL) OR GROUND SETTLEMENT MONITORS (BS1 AND BS1D) SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF OLD BAILEY WORKS.

Client: 香港文物古蹟辦事處
 The Jockey Club GPO Limited

Design Consultant:
HERZOG & DEMEUREN

Conservation Architect:
 羅傑建築師有限公司
 ROCCO

Structural Engineer / R/S/E:
ARUP

Project Title:
**CENTRAL POLICE STATION
 CONSERVATION AND REVITALISATION
 PROJECT**

Drawing Title:
MONITORING LAYOUT PLAN

Scale: 1:250	Drawn: S.K.	Checked: L.S.T.
1:5000A1	K.C.L.	AL
Drawing No.: 00-001	Revision: 12/11	
00-OAP209674-G-001		



仁利建築有限公司
Yan Lee Construction Co., Ltd.

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP203 Date: 20-5-2012 To 2-6-2012

POINT		VM8-1	VM11-1	VM11-2											
DATE	PD(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
23-Apr-2012	(Initial)	0.212	0.087	0.116											
20-May-2012															
21-May-2012		0.210	0.085	0.120											
22-May-2012		0.053	0.124	0.142											
23-May-2012		0.121	0.186	0.132											
24-May-2012		0.098	0.068	0.128											
25-May-2012		0.046	0.118	0.132											
26-May-2012		0.052	0.097	0.107											
27-May-2012															
28-May-2012		0.142	0.107	0.125											
29-May-2012		0.179	0.102	0.110											
30-May-2012		0.098	0.102	0.111											
31-May-2012		0.121	0.112	0.118											
1-Jun-2012		0.124	0.072	0.122											
2-Jun-2012		0.097	0.063	0.082											



Annex M

Summary of Key Findings
of Monthly Cultural
Heritage Site Audits and
Current Condition of
Character Defining
Elements

Annex M – Summary of Key Findings and Recommendations during the Monthly Site Audits

Date of Audit	Comments / Remarks
15 November 2011	<ul style="list-style-type: none"> • Reveals overhead canopy and gateway of the Blue gate were not protected. The Contractor was reminded to provide protection to overhead canopy with metal pole and fixed the reveals gateway with black & yellow tape for driver attention. • Vehicle barriers should be installed at adjacent Service Corridor Block 01 to protect iron grillers at ground level. The Contractor has proposed the installation of a chain link protection fence to AMO and it will be installed once AMO approval was obtained. • Parapet copings on balustrades should be protected when loading and unloading heavy plant/materials. The Contractor has proposed the installation of chain link protection fence to AMO and it will be installed once AMO approval was obtained.
20 December 2011	<ul style="list-style-type: none"> • Low level plinths to corners of buildings should be protected. The Contractor will provide protection accordingly and will prioritise the buildings where construction work is taking place nearby.
17 January 2012	<ul style="list-style-type: none"> • Lintel protection was missing at the gate to the Southeast corner of F Hall. The Contractor was reminded to provide protection to the gate.
21 February 2012	<ul style="list-style-type: none"> • Character Defining Elements (CDE) items were not labelled. The Contractor was reminded to label all the CDE items prominently to ensure that the workforce is aware of them; and • Metal bars which were identified as CDE adjacent to the Magistracy were removed. The Contractor was reminded that any modification or removal.
20 March 2012	Nil.
19 April 2012	<ul style="list-style-type: none"> • The Contractor was reminded to provide protections to all painted signs, including the protection of west end of D Hall in relation to trial piling works.
16 May 2012	<ul style="list-style-type: none"> • Excessive amount of pigeon guano were observed in the Barrack Block. The Contractor was advised to clean the guano on a daily basis.
15 June 2012	<ul style="list-style-type: none"> • the Contractor was reminded to ensure that all demolition works at the interfaces with the historical buildings are conducted in accordance with the method statements; and • Remove debris from the ladder store to Building 13.
12 July 2012	<ul style="list-style-type: none"> • The stacking of Building 8 doors in Building 06 was not adequate. The Contractor has been recommended to provide additional support to doors at high level or stack the doors on their long length.
9 August 2012	<ul style="list-style-type: none"> • Trial piling works (loading test) were being carried out near D Hall during the site inspection. The Contractor was advised to provide additional screening protection to D Hall west wing south elevation.
18 September 2012	<ul style="list-style-type: none"> • One of the trials for the cleaning of external walls was not carried out. The Contractor was reminded that all protection

Date of Audit	Comments / Remarks
	<p>works to the building should be implemented. It was later rectified where a new trial for the cleaning has been organised.</p> <ul style="list-style-type: none"> • Cracks were observed internally on the north and west elevations of Block 17, potentially caused by installation of bored pile wall in the adjacent area (Old Bailey Wing) and the cause of it should be further investigated. Additional tilting and settlement monitoring stations were added on all critical vertical load bearing elements on the north elevation of Block 17. Tell-tale crack monitor was installed on 28 August 2012 to monitor the wall cracking status. The incident was reported to BD on 21 September 2012. • The former visitor booths in F Hall have been labelled and protected and were moved from the building 6 on 19 September 2012.
18 October 2012	<ul style="list-style-type: none"> • Painted signage on the brick wall to external staircase up to west Magistracy Terrace is required. • Protection to all doors on Block 1 North Balconies is required. • Following up with the cracks in Block 17 reported in the last EM&A Monthly Report, the situation was reported to be under control. A proposal in respect of Bored Pile Wall, Pipe Pile Wall and Excavation and Lateral Support Amendment was submitted to Buildings Department (BD) for approval on 3 October 2012. The proposal was approved by BD on 30 October 2012. The bored pile wall, pipe pile wall and excavation and lateral support work will follow the approved amended proposal. The crack situation will continue to be monitored.

Schedule of Character Defining Elements

Central Police Station

CENTRAL POLICE STATION, HONG KONG

SCHEDULE OF CHARACTER DEFINING ELEMENTS

This Schedule of Character Defining Elements has been prepared at the request of the Antiquities and Monuments Office (AMO) to support applications for S.6 approval under the Antiquities and Monuments Ordinance and the Environmental Impact assessment Ordinance. The levels of significance and their meanings are derived from the work of James Semple Kerr.

For each element, the level of significance is stated, together with the planned outcome and associated mitigation measure, where applicable, and the resultant impact upon the significance. Generally, only those items subject to change are noted, and the impacts should be read as negative . Where elements are deemed currently to be adverse, the impact of the changes should be read as positive.

The levels of significance and definitions as defined by Kerr are stated below. The criteria used to assess the significance of each element are, as directed by AMO : (i) the association with the operation of the Central Police Station Compound; and (ii) its architectural quality. Where these criteria conflict, the resultant assessment score is aggregated.



Each entry in the schedule is accompanied by a photograph of a sample of the item described. The location of each photograph is noted on the floor plans attached in the appendix to the schedule. Similar examples of each item can be seen by observation.

Schedule of Character Defining Elements

Central Police Station



	Level of significance	Meaning
Positive	Exceptional	Where an individual space or element is assessed as displaying a strong contribution to the overall significance of the place. Spaces, elements or fabric exhibit a high degree of intactness and quality, though minor alterations or degradation may be evident.
	High	Where an individual space or element is assessed as making a substantial contribution to the overall significance of the place. Spaces, elements or fabric originally of substantial quality, yet may have undergone considerable alteration or adaption resulting in presentation which is either incomplete or ambiguous. The category also includes spaces, elements or fabric of average quality in terms of design and materials, but which exhibit a high degree of intactness.
	Moderate	Where an individual space or element is assessed as making a moderate contribution to the overall significance of the place. Spaces, elements or fabric originally of some intrinsic quality, and may have undergone alteration or degradation. In addition, elements of relatively new construction, where the assessment of significance is difficult, may be included. This category also includes original spaces, elements or fabric of any quality which have undergone extensive alteration or adaption.
	Low	Where an individual space or element is assessed as making a minor contribution to the overall significance of the place, especially when compared to other features. Spaces, elements or fabric originally of little intrinsic quality, any may have undergone alteration or degradation. This category also includes original spaces, elements or fabric of any quality which have undergone extensive alteration or adaption to the extent that only isolated remnants survive (resulting in a low degree of intactness and quality of presentation).
	Neutral	Where an individual space or element is assessed as having an unimportant relationship with the overall significance of the place. Spaces, elements or fabric are assessed as having little or no significance.
	Adverse	Where an individual space or element detracts from the appreciation of cultural significance, by adversely affecting or obscuring other significant areas, elements or items.

01 Police Headquarters

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.001	Flat plywood ceiling lining with plain rectangular cover battens		Adverse	Replace with T&G boarding to match existing	Not applicable	High
01.002	Plaster coving at abutments of walls and ceilings		Low	Remove in exceptional cases eg, where adjacent new lift shaft	Cut back neatly to a square edge and ensure remaining section is secure.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.003	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
01.004	Timber thresholds at external doors and internal doors between main corridor and individual rooms		Low	Remove to enable level access	Splice extensions to door jambs, extend width of bottom rail of doors to match existing	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.005	Plaster box cornice		Moderate	Remove in exceptional cases eg. where adjacent new lift shafts	Cut back neatly to a square edge and ensure remaining section is secure.	Moderate
01.006	Panelled doors		Moderate	Replace where necessary to achieve fire resistance to comply with Code	Re-use where possible. Record design on survey drawings where element cannot be re-used.	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.007	External shutters		High	Reinstate to match existing pattern	Not applicable	High
01.008	External terraces at 1/F		High	Overlay existing concrete paving with timber deck to provide level access	New deck to be reversible	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.009	Plaster ceilings on GF and LG1		Moderate	Install cloud ceilings to accommodate new services	Install fixed grid to minimise damage to ceiling	High
01.010	Timber door frames and architraves		Moderate	Conceal in exceptional cases eg. where adjacent new lift shaft	Retain architrave and door frame in situ. Avoid damage to joinery.	High


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.011	Concrete floor		Low	Replace where new kitchens and plant rooms to be installed	Carefully remove and retain existing floorboards for re-use. Ensure controlled demolition of concrete structure and removal of debris from building to avoid damage to adjacent surfaces. Protect or carefully remove and set aside adjacent elements such as skirting boards	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.012	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	Not applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.013	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High

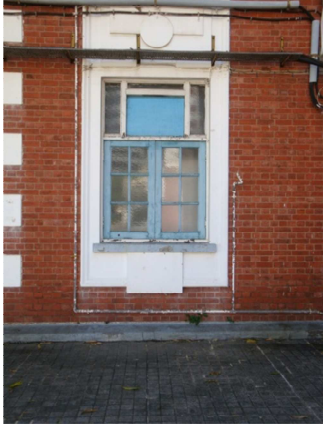

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.014	Existing door openings		Moderate	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non-combustible sheet linings to block opening.	Moderate
01.015	Existing walls		Moderate	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.016	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High
01.017	Mezzanine floor in room 01/LG1/13		Adverse	Remove floor and supporting columns to re-create original double-height space	Not applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.018	Cast iron grilles above Service Corridor 01/LG1/35		High	Remove existing steel sheet covering [alterations to grilles awaiting confirmation from HdM]		
01.019	Perforated concrete deck above lightwell		Adverse	Remove deck and make good brickwork at abutments	Not applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.020	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
01.021	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non-compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.022	Main corridors		High	Install new lighting, fire sprinklers, fire doors to comply with Fire Services Code	New fittings to be mounted in a manner that is of its time and reversible. Avoid physical intervention with existing plaster box cornices, architraves, dado rails	High
01.023	Painted signs		High	Protect in situ	Not applicable	N/A


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.024	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A
01.025	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
					material in a neutral mid-tone.	
01.026	Enclosure at First Floor landing of main stair		Adverse	Remove	Not applicable	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.027	Steel railing enclosure at FF level		Low	Remove	Record on measured drawings and photographs	Low
01.028	Tongued and grooved flat and sloped timber boarded ceilings		Moderate	Repair where necessary and reinstate where missing	Not applicable	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.029	Modern partitions		Adverse	Remove	Not applicable	High
01.030	Tiled dado		High	Cut away for enlargement of existing windows to form new doorways	Cut back to joint line and adjust tiling pattern to suit new opening. New tiles to match existing sizes and colours.	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.031	Reinforced concrete canopy and sash windows		Moderate	Remove canopy and replace sash windows with new windows to match original	Make good brickwork where canopy removed, Reinstate rendered architraves around new window to match similar window facing on West wing	Moderate
01.032	Arched opening in brick wall above ceiling line		Low	Retain insitu and use to pass through future services. Infill only where opening is within a fire compartment	Use non-combustible material to block opening.	Low

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.033	Ceiling void service installation (Cast Iron Water Tank and pipework)		Low	Remove and make good adjacent surfaces	N/A	Low



Schedule of Character Defining Elements

02 Armoury

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
02.002	Modern internal doors		Adverse	Remove	Not applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.003	Modern partitions		Adverse	Remove	Not applicable	High
02.004	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.005	Brickwork walls enclosing rooms at GF and FF East side		Low	Remove and reinstate verandah	Not applicable	High
02.006	Concrete floors		Low	Selected removal to accommodate new stairs and lift shaft	Carefully form openings to ensure structural stability	Low

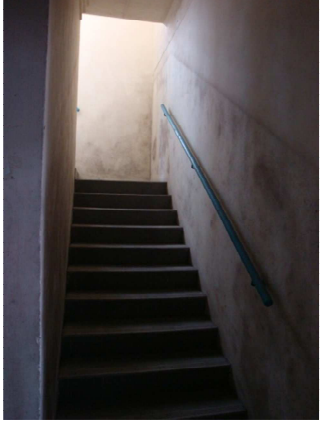

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.007	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	No applicable	High
02.008	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.009	Concrete stairs		Adverse	Remove stairs	Not applicable	Moderate
02.010	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts to reduce impact. Finish ducts in a non-reflective material that is neutral in colour and mid-tone.	High


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.011	Roof structure and tiled soffit		High	Repair and retain.	N/A	Neutral



Schedule of Character Defining Elements

03 Barracks Block

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
3.002	Panelled doors		Moderate	Replace where necessary to achieve fire resistance to comply with Code	Re-use where possible. Record design on survey drawings where item cannot be re-used.	Moderate
03.003	External shutters		High	Reinstate to match existing pattern	Not applicable	High


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.004	Timber thresholds at external doors and internal doors between main corridor and individual rooms		Low	Remove to enable level access	Splice extensions to door jambs, extend width of bottom rail of doors to match existing	Low
03.005	Timber spandrel panels below windows		Low	Conceal in exceptional cases eg. where adjacent new lift shaft	Retain frame and spandrel panel where possible. Remove only where necessary in connection with re-planning of interiors. Record on measured survey drawings.	Low

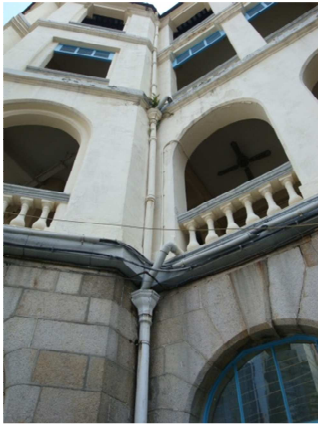

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.006	Timber floors		High	Replace where new kitchens and plant rooms to be installed	Limit extent of removal as much as possible. Carefully remove and retain existing floorboards for re-use. Ensure controlled dismantling of timber structure and set aside for possible re-use. Protect or carefully remove and set aside adjacent elements such as skirting boards	Medium



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.007	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	No applicable	High
03.008	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High

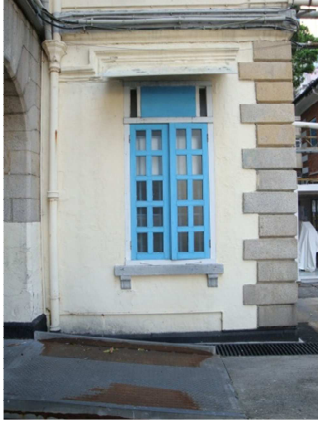
Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.009	Block existing door openings		Low	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non-combustible sheet linings to block opening.	Low
03.010	Form new door openings		Low	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance. Re-open original openings where possible. Retain original reveals and arches.	Low

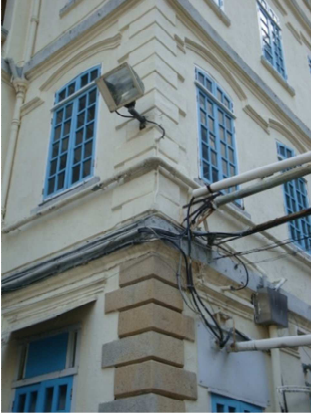

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.011	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.012	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
03.013	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non-compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.014	Painted signs		High	Protect in situ	Not applicable	N/A
03.015	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.016	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	<p>Arrange new penetrations so that they conform with the geometry of the existing roof.</p> <p>Model the size and shape of the new ducts so that the impact on the roovescape is minimised.</p> <p>Finish the new ducts in a non-reflective material that is neutral in colour and mid-tone.</p>	High
03.017	Lean-to structure adjacent North wall		Moderate	Remove	<p>Record on measured survey drawings.</p> <p>Make good walls where roof structure abuts</p>	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.018	Metal-frames windows at GF North elevation		Adverse	Remove window frames, masonry spandrel panels below and reinstate verandah	Not applicable	High
03.019	Internal walls at Ground Floor level		Moderate	Remove selected internal walls where strictly necessary as part of re-planning of interiors	Walls of early or original date to be retained in part eg. by leaving a "nib" where the wall is bonded to another wall. At the point where the wall is cut away, form the cut-line on the line of a vertical joint in alternate courses. Bricks in the remaining courses to be left "as cut", and not re-bonded. Record walls on measured survey dwgs.	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.020	Assembly rooms at centre of building (all floors)		Moderate	Sub-divide two rooms on each floor to provide service core, comprising: lifts, toilets, plant rooms, stores	Form new sub-visions using lightweight partitions to achieve reversibility. Form straight joints at abutments with existing retained walls. Notch new partitions around existing brick corbels at high level as a reminder of current condition.	Moderate
03.021	Exposed soffits of timber floors		Moderate	Underline existing floors to achieve specified fire resistance stated in Code	Avoid unnecessary damage to existing structure. New lining will reduce extent of intervention into existing structure. Keep level of new linings well clear of window heads.	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.022	Existing window frames/openings		High	Open up selected openings to form new fire escape doors	Retain any salvageable material for possible re-use elsewhere. Retain existing window jambs intact. Cut away masonry to form door openings along same line as window jamb; do not re-bind cut brickwork. Record existing condition on measured survey drawings.	Low
03.023	Single storey outbuildings on south side		Adverse	Demolish	Check for evidence of early route from Magistracy to Prison.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.024	Bridge at east end		Moderate	Retain	Not applicable	Neutral
03.025	Chimneypiece on Ground Floor		Low	Repair and retain in current location	Not applicable	Neutral



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.026	Window in south wall; original dormitory space		Moderate	Remove window and take down brickwork spandrel; subdivide space to form new fire-protected escape route.	Record existing condition on measured survey drawings. New partition wall to be reversible.	Low
03.027	Clay-tiled floor in store room adjacent stairs		Low	Remove as part of re-planning of interiors	Record on measured survey drawings	Low


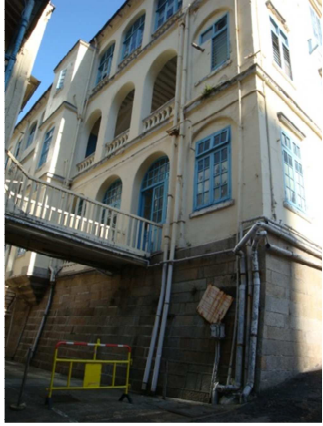
Schedule of Character Defining Elements

04 Dormitory Block A & B

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
04.002	Timber thresholds at external doors and internal doors between main corridor and individual rooms		Low	Remove to enable level access	Splice extensions to door jambs, extend width of bottom rail of doors to match existing	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.003	Plaster box cornice		Moderate	Remove in exceptional cases where eg. where adjacent new lift shafts	Cut back neatly to a square edge and ensure remaining section is secure.	Moderate
04.004	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	No applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.005	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.006	Block existing door openings		Moderate	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non-combustible sheet linings to block opening.	Moderate
04.007	Form new door openings		Moderate	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.008	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High

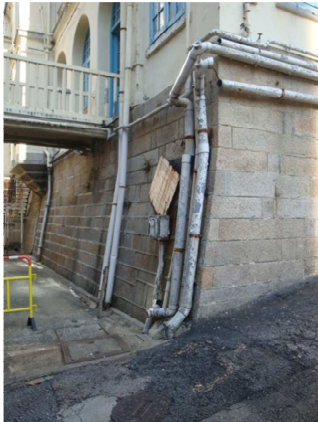
Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.009	Window frames in arcades of North and East elevations		Adverse	Remove window frames and make good masonry reveals and reinstate verandah	Not applicable	High

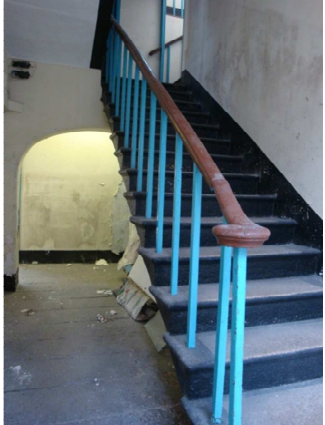
Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.010	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High

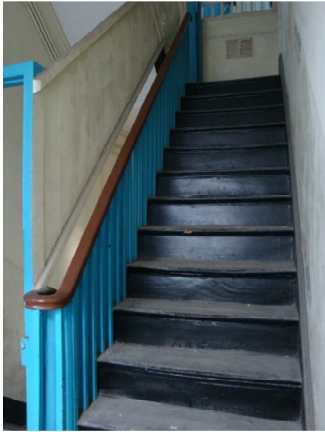
Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.011	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non-compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.012	Stair from First to Second Floor		High	Replace stair to improve safety	New stair to be built of steel to comply with Code and to distinguish it as being “of its time”.	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.013	External verandahs		High	Install new lighting, fire sprinklers, fire doors to comply with Fire Services Code, extract ducting to external walls	New fittings to be mounted in a manner that is of its time and reversible. Avoid physical intervention with existing plaster box cornices in rooms, architraves, dado rails. Position outlet grilles in external walls on centre-line of arcade arches and above structural arch	High
04.014	Painted signs		High	Protect in situ	Not applicable	N/A


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.015	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A
04.016	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective material that is neutral in colour.	High


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.017	Toilets at ends of verandahs		Adverse	Remove and make good finishes	Not applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.018	Partitions at GF Dormitory A		High	Remove to make way for Interpretation	Prepare measured drawings and photographs before removal.	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.019	Switchgear in old porch 04/G/13		Adverse	Open up porch, remove electrical switchgear and make good	Not applicable	High
04.020	Flat plywood ceiling lining with plain rectangular cover battens		Adverse	Replace with T&G boarding to match existing	Not applicable	High


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.021	Steps up to doorway on FF verandah		Moderate	Remove steps and doorway to form new fore escape route	Record steps and doorway on measured drawings	Moderate
04.022	Timber boarded floors with moulded skirtings		High	Retain all boarded floors and skirtings	Reinstate floor boards and skirtings after fire proofing works	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.023	Cantilever balconies		High	<p>Retain and repair as necessary.</p> <p>Reinstate balcony on west elevation.</p>	<p>Avoid highly visible intervention to enhance structural integrity and/or compliance with building codes.</p> <p>Restrict access if necessary to achieve this objective.</p>	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.024	Clay tile floor		Low	Retain and repair as necessary	Not applicable	Neutral
04.025	Matched-boarded ceiling with perforated border		Moderate	Repair and retain insitu	Not applicable	Neutral

Schedule of Character Defining Elements



Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.026	Ceiling rose		Low	Repair and retain insitu	Not applicable	Neutral

Schedule of Character Defining Elements



Central Police Station

06 Dormitory C

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.001	Granite thresholds at external doors		Low	Retain; install timber deck flush with level of step where necessary	Avoid alteration to step.	Low
06.002	Pitched roof		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective material that is neutral in colour and mid-tone.	High

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.003	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	Not applicable	High
06.004	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.005	Altered doors and windows		Adverse	Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable
06.006	External airconditioning units and other external services		Adverse	Adverse	Remove and make good brickwork	Not applicable



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.007	Painted signs		High	Protect in situ	Not applicable	N/A
06.008	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.009	Cantilever balconies		High	Retain and repair as necessary.	Avoid highly visible intervention to enhance structural integrity and/or compliance with building codes. Restrict access if necessary to achieve this objective.	Low
06.010	Iron balustrades		High	Retain and repair as necessary.	Avoid highly visible intervention to enhance structural integrity and/or compliance with building codes. Restrict access if necessary to achieve this objective.	Low


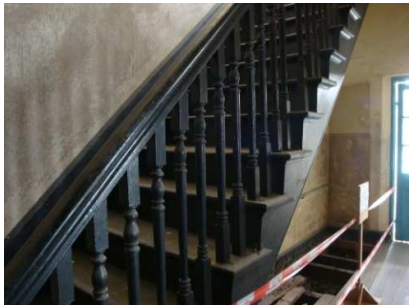
Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.011	Perforated margin at perimeter of ceiling		Low	Repair and retain.	Where fire-proofing of floor is required, use a product that can be installed within the floor void, leaving the ceiling lining intact.	Low
06.012	Block existing door openings		Moderate	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non-combustible sheet linings to block opening.	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.013	Form new door openings		Moderate	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Moderate
06.014	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non-compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.015	Timber floors		High	Retain all boarded floors and skirtings	Reinstate floor boards and skirtings after fire proofing works	Low
06.016	Vinyl tile floor		Adverse	Remove tiles; renew boarded floor boards if necessary	Not applicable	Moderate

Schedule of Character Defining Elements



Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.017	Batten and panel ceiling lining		Low	Replace with lath and plaster ceiling	Not applicable	Low
06.018	Exposed roof covering		Moderate	Retain as existing	Consider insulating between upper and lower layers of roof tiles to provide thermal insulation and vapour barrier	Low

Schedule of Character Defining Elements



Central Police Station

07 Dormitory D

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.001	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	<p>Arrange new penetrations so that they conform with the geometry of the existing roof.</p> <p>Model the size and shape of the new ducts so that the impact on the roofscape is minimised.</p> <p>Finish the new ducts in a non-reflective material that is neutral in colour and mid-tone.</p>	High
07.002	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	No applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.003	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High
07.004	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.005	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
07.006	Clothes drying racks		Adverse	Remove	Not applicable	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.008	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
07.009	Corbelled brickwork at perimeter of room		Low	Remove in exceptional cases where eg. where adjacent new lift shafts	Cut back neatly to a square edge and ensure remaining section is secure.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.010	Plywood floor		Adverse	Replace with hardwood floor boards	Not applicable	High
07.011	Timber thresholds at external doors and internal doors between main corridor and individual rooms		Low	Remove to enable level access	Splice extensions to door jambs, extend width of bottom rail of doors to match existing	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.012	Form new door openings		Moderate	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Moderate
07.013	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non-compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.014	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A
07.015	Exposed roof tiling		Moderate	Retain as existing	Consider insulating between upper and lower layers of roof tiles to provide thermal insulation and vapour barrier	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.016	Concrete floor		Adverse	Overlay with hardwood floor boards	Not applicable	Moderate



Schedule of Character Defining Elements

08 Ablutions Block

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.001	Panelled doors		Low	Replace where necessary to achieve compliance with Building Code	Re-use where possible. Record design on survey drawings where element cannot be re-used.	Moderate
08.002	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	No applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.003	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High
08.004	Block existing door openings		Moderate	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non-combustible sheet linings to block opening.	Moderate

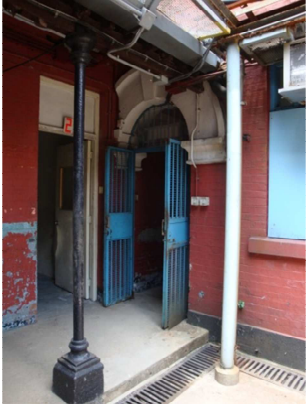

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.005	Timber roof structure		High	Retain	Not applicable	Neutral
08.006	External stair at west end		Moderate	Retain	Repair as necessary. Alter balustrade to achieve reasonable level of operational safety. Restrict access to repairs and maintenance and means of escape.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.007	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
08.008	Painted signs		High	Protect in situ	Not applicable	N/A



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.009	Wire mesh screens		Adverse	Remove	Not applicable	Low
08.010	Internal walls and concrete floors		Low	Remove and rebuild in new configuration to suit new use	Ensure retained facades are fully supported during construction operations. Protect retained walls against damage during demolition works. Install new walls and floors to respect fenestration; avoid clashes.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.011	Cantilever balconies on north side		Moderate	Repair and retain insitu	Not applicable	
08.012	Bridge access to Barrack Block		Moderate	Retain	Repair as necessary. Alter balustrade to achieve reasonable level of operational safety. Restrict access to repairs and maintenance and means of escape.	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.013	Balcony balustrades		Low	<p>Repair as necessary and retain.</p> <p>Remove selected sections to enable installation of new bridge connections to Barrack Block.</p>	<p>Avoid removal of associated iron columns.</p> <p>Form interventions at selected positions so as to maintain the rhythm of the balustrades and ensure proper support at ends.</p>	Low
08.014	Single-storey outbuilding with pitched roof over		Low	Demolish to make way for new loading bay.	<p>Record on measured survey drawings.</p> <p>Infill existing internal opening leaving reveals exposed.</p> <p>Tooth-in new brickwork at abutments after existing walls removed.</p> <p>Salvage cast iron columns for possible re-use.</p>	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.015	Corrugated steel sheet on balcony balustrades		Adverse	Remove	Not applicable	Low



Schedule of Character Defining Elements

09 Magistracy

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
09.002	Modern partitions		Adverse	Remove	Not applicable	N/A

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.003	Internal walls		Moderate	Remove selected internal walls where strictly necessary as part of re-planning of interiors	Walls or early or original date to be retained in part eg. By leaving a “nib” where the wall is bonded to another wall. At the point where the wall is cut away, form the cut-line on the line of a vertical joint in alternate courses. Bricks in the remaining courses to be left “as cut”, and not re-bonded, as evidence of the current condition.	Moderate
09.004	Plaster box cornice		Moderate	Remove in exceptional cases eg. Where adjacent new lift shafts	Cut back neatly to a square edge and ensure remaining section is secure.	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.005	Panelled doors		Moderate	Replace where necessary to achieve fire resistance to comply with Code	Re-use where possible. Record design on survey drawings where element cannot be re-used.	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.006	Block existing door openings		Moderate	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non-combustible sheet linings to block opening.	Moderate
09.007	Form new door openings		Moderate	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.008	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non-compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate
09.009	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.010	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
09.011	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective material that is neutral in colour and mid-tone.	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.012	Rainwater goods		Moderate	Replace with larger sizes/closer spacing to improve performance	Use cast iron to match original pattern Make good all redundant fixing holes	High
09.013	Metal walkways across lightwell		Adverse	Remove walkways and make good brickwork at abutments	Not applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.014	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High
09.015	Sloping canopy over external stair on west side		Adverse	Remove canopy and supporting structure	Not applicable	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.016	Single storey secure shelter at North West corner		Low	Demolish	Make good brickwork at abutments.	Low
09.017	Iron railing adjacent south side of item 09.016 above		Moderate	Retain; including remains of bars (now removed) between existing railings and east side of Barracks Block.	Not applicable	Neutral


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.018	Public toilets in 09/LG1/17, 24		Adverse	Strip out sanitaryware, and fit-out for pottery display/service access. Form new door openings in east walls.	Retain existing door openings and metal-barred gates. Retain external granite steps and existing ground level.	Low
09.019	Cell doors		High	Re-open to provide access to Retail space	Retain existing iron gate	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.020	Meeting room at G/02-05		Moderate	Remove timber panelling from walls and sub divide to form new toilets and lift shaft	Record existing wall linings, and any earlier lining behind, on measured survey drawings.	Moderate
09.021	Lobbies within entrance hall G/12		Adverse	Remove	Not applicable	N/A



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.022	Public galleries on FF		Adverse	Strip out plant, remove partition walls and restore galleries	Not applicable	High
09.023	Chimney piece		Moderate	Retain	Not applicable	Neutral

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.024	Lanterns above entrance hall		Adverse	Remove existing lanterns and install single lantern	Not applicable	Moderate
09.025	Boarded ceilings on Second Floor		High	Repair and retain where possible	Limit extent of penetrations as far as practicable. Record on measured survey drawings where ceilings have exceptionally to be removed.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.026	Iron gates at top of external stair		Moderate	Retain	No applicable	Neutral
09.027	Iron balustrade adjacent terrace at First Floor east side		High	Retain; install structural glass balustrade inboard of ironwork to provide compliance with Building Codes	Avoid penetration of existing tiled pavement when fixing glass balustrade.	Low



Schedule of Character Defining Elements

10 Assistant Superintendent’s Office

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
10.002	Plaster box cornice		Moderate	Remove in exceptional cases eg. Where adjacent new lift shafts	Cut back neatly to a square edge and ensure remaining section is secure.	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.003	Panelled doors and linings		Moderate	Replace where necessary to achieve fire resistance to comply with Code	Re-use where possible. Record design on survey drawings where element cannot be re-used.	Moderate
10.004	Timber boarded floor with moulded skirtings		High	Repair as necessary and retain	Lift carefully and refix upon completion of fire-proofing and services installation	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.005	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High
10.006	Block existing door openings		Moderate	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non-combustible sheet linings to block opening.	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.007	Form new door openings		Moderate	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Moderate
10.008	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.009	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.010	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non-compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate
10.011	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.012	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	<p>Arrange new penetrations so that they conform with the geometry of the existing roof.</p> <p>Model the size and shape of the new ducts so that the impact on the roofscape is minimised.</p> <p>Finish the new ducts in a non-reflective material that is neutral in colour and mid-tone.</p>	High
10.013	Internal walls		Moderate	Remove selected internal walls where strictly necessary as part of re-planning of interiors	<p>Walls or early or original date to be retained in part eg. By leaving a “nib” where the wall is bonded to another wall.</p> <p>At the point where the wall is cut away, form the cut-line on the line of a vertical joint in alternate courses. Bricks in the remaining courses to be left “as cut”, and not re-bonded, as evidence of</p>	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.014	Partitions on SF		Moderate	Remove partitions	Record partitions on measured drawings	Moderate
10.015	Blocked windows on south elevation of south-east wing		Adverse	Re-open window openings and reinstate window frames and glazing	Not applicable	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.016	Open-joisted ceiling on Ground Floor of south-east wing		Moderate	Underline floor to provide fire protection.	Avoid intrusive alteration. Use fire-proofing products and methods that enable existing structure and boarding to be retained.	Low
10.017	Moulded timber picture rail		Low	Repair and retain	Not applicable	Neutral


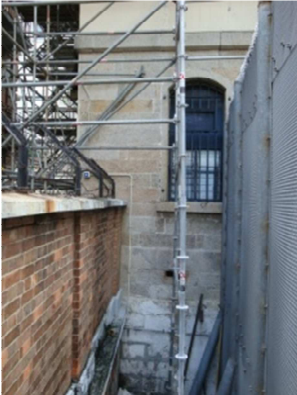
Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.018	Timber roof structure above south-east wing		Moderate	Repair as necessary and retain	Avoid intrusive alteration. Retain open appearance/	Low
10.019	Timber stair		Moderate	Underline with fire-resisting lining	Repair as necessary and retain.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.020	Clay/terrazzo tile floor on Ground Floor and steps		Adverse	Adjust levels to enable level access and replace floor finish	Not applicable	Low
10.024	Granite wall on North elevation		High	Construct new external steps adjacent wall	Keep new stair clear of wall; avoid any physical connection between steps and wall.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.025	Single storey outbuilding at South East corner		Moderate	Demolish outbuilding and make good at abutments	Record outbuilding on measured drawings	Low
10.026	Blocked archway on East elevation		Adverse	Demolish infilling and re-open archway	Protect original arch and jambs against damage during demolition	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.027	Chimney on east elevation		Low	Retain	Not applicable	Neutral
10.028	Cantilever balconies		High	Repair as necessary and retain	Avoid intrusive interventions. Restrict access if necessary to retain existing appearance.	Neutral

Schedule of Character Defining Elements


Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.029	Steps on east elevation		Moderate	Repair as necessary and retain	Avoid alteration or obliteration.	Neutral

Schedule of Character Defining Elements



Central Police Station

11 A Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.001	Form new door openings		Low	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.002	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
11.003	Painted signs		High	Protect in situ	Not applicable	N/A



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.004	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A
11.005	Concrete stairs		Low	Remove and rebuild as part of re-planning of interiors	None	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.006	Flat roof		Low	Form new rooftop extension at West end to accommodate fire escape stair	Form straight joint at abutment with building 08 Ablutions Block	Low
11.007	Security screen at roof level		Low	Remove	Record on measured survey drawings	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.008	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	Not applicable	High


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.009	Rainwater goods		Low	Remove embedded cast iron pipework set into wall to reduce long term maintenance burden	Record on measured survey drawings. Make good cavity.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.010	Timber doors		Low	Repair and retain	Not applicable	Neutral


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.011	Security screen and door at First Floor		Low	Remove	Record on measured survey drawings	Low
11.012	Door thresholds and plinth		Low	Retain; remove paint media from plinth and brickwork	Not applicable	Neutral

Schedule of Character Defining Elements



Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.013	Metal louvres on window openings		Adverse	Remove	Not applicable	Low

Schedule of Character Defining Elements


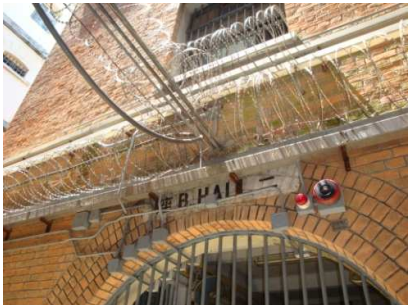
Central Police Station

12 B Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.001	Flat roof		Moderate	Repair and retain	Avoid roof penetrations as far as possible	Low
12.002	Cells at GF level		High	Remove cells in selected locations to accommodate new North-South route across site	Record existing layout on measured survey drawings. Limit number of cells affected to the minimum necessary. Retain floor structure above. Retain remainder of cells at this level for interpretation	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.003	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
12.004	Painted signs		High	Protect in situ	Not applicable	N/A

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.005	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A
12.006	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	Not applicable	High


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.007	Corbelled brickwork at high level in cells		Low	Retain	Not applicable	Neutral
12.008	Barbed wire		Moderate	Remove	Record wire on measured drawings	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.009	External walls		Moderate	Form openings in North and South walls in conjunction with new North-South route across site	Cut brickwork to form openings in North and South walls; do not re-bond brickwork.	Moderate



Schedule of Character Defining Elements

13 C Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.001	External airconditioning units and other external services		Adverse	Remove	Not applicable	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.002	Door to Ladder Store		Low	Retain	Not applicable	Neutral
13.003	Security bars at window openings		Low	Retain	Not applicable	Neutral



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.004	Flat roof		Low	Retain	Avoid roof penetrations as far as possible.	Low
13.005	Eaves detail		Low	Retain	Not applicable	Neutral



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.006	Cantilever reinforced concrete canopy		Low	Retain	Not applicable	Neutral
13.007	Internal partition walls		Low	Remove as part of re-planning of interiors	Record on measured survey drawings	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.008	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A
13.009	Metal window frames		Moderate	Repair and retain	Not applicable	Neutral



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.010	Internal security screens		Moderate	Retain where possible	Where necessary record on measured survey drawings prior to removal	Low
13.011	Coving at abutments between RC beams and walls		Low	Avoid penetrations for services installations as far as possible.	Cut away neatly for services penetrations and make good at abutments.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.012	Communal cells at Ground Floor		Moderate	Remove as part of re-planning of interiors	Record on measured survey drawings	Low
13.013	Rooflight and security bars over communal cells		Moderate	Remove as part of re-planning of interiors	Record on measured survey drawings	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.014	Granite threshold at external door openings		Low	Retain	Not applicable	Neutral
13.015	Timber boarded doors with fanlight over		Low	Repair as necessary and retain	Not applicable	Neutral

Schedule of Character Defining Elements

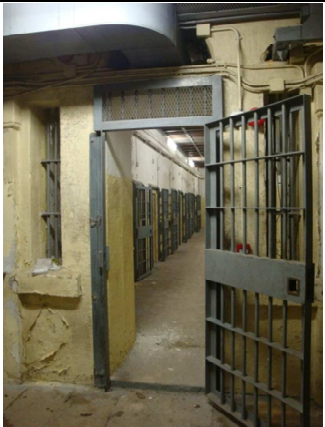
Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.015	Vinyl tile floor		Adverse	Replace	Not applicable	Low

Schedule of Character Defining Elements


Central Police Station

14 D Hall East Wing

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.001	West entrance at Lower Ground Floor		Moderate	Retain as public entrance at this level.	<p>Retain security gate and granite threshold.</p> <p>Adjust adjacent ground level as necessary to achieve barrier-free access.</p> <p>Pin gate back against adjacent wall in the open position if necessary.</p>	Low

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.002	Half-round headed doorway and side lights		Moderate	Retain	Remove air duct and make good masonry above arch.	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.003	Granite surround to cells (generally north side, alternating with brick surrounds – see next item)		Moderate	Retain door surround and gate wherever possible.	Pin back gate against wall. Remove paint media to expose granite material.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.004	Brick reveals with bull-nosed arrisses and segmental arch over (generally north side, alternating with granite surrounds – see previous item)		High	Retain door surround and gate wherever possible	Pin back gate against wall	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.005	Arched opening at East end First Floor		Low	Retain as existing	Not applicable	Low
14.006	Concrete floor generally at Lower Ground Floor		Low	Excavate entire floor to install piled underpinning	Record levels on measured survey drawings. Install new floor at the same level.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.007	Part-blocked windows at Lower Ground Floor - extent of blocking varies.		Moderate	Open up window opening to full extent.	Record existing condition on measured survey drawings. Add further detail during demolition works.	Low
14.008	External granite stair from Lower Ground to Ground Floor level		Moderate	Remove stair to make way for new stair in similar position	Review design proposals to see whether existing stair can be retained.	Low

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.009	Ashlar pattern on external walls		Moderate	Form new openings for entrance/exit to building	<p>Set out new openings to cause minimum disruption to ashlar pattern.</p> <p>Record existing pattern on measured survey drawings.</p>	Low
14.010	Blocked doorway at south-east corner		Low	Preserve blocked opening intact.	Not applicable	Neutral



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.011	Metal security gate and screen		Low	Retain insitu	Pin gate in open position if necessary	Neutral



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.012	Half-round headed doorway and side lights at Ground Floor west end		Moderate	Retain insitu	Not applicable	Neutral
14.013	Structural steelwork bracing and temporary access stair		Adverse	Remove upon completion of underpinning	Not applicable	Moderate

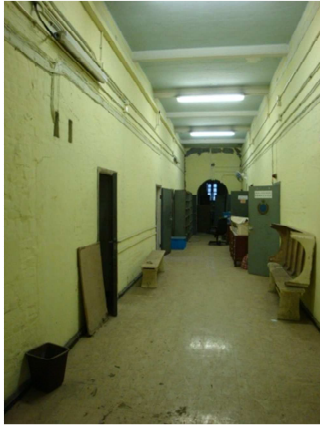

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.014	RC staircase at north-east corner		Low	Remove	Record on measured drawings	Low
14.015	Vinyl tile floor on suspended timber floor		Adverse	Remove vinyl tiles and restore boards if possible; alternatively, replace boards with new timber to match other boarded floors elsewhere on the site.	Not applicable	Low

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.016	Cell walls at Ground Floor		Moderate	Retain insitu	Use existing door openings wherever possible. Avoid further alteration to existing altered openings where feasible.	Low
14.017	Mortuary		High	Preserve insitu	Avoid any service penetrations from adjacent spaces	Neutral



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.018	Brickwork surrounds to doorways with segmental arches over		Moderate	Increase width in selected locations to allow wheelchairs to pass	Record on measured survey drawings. Limit interventions as far as possible.	Low

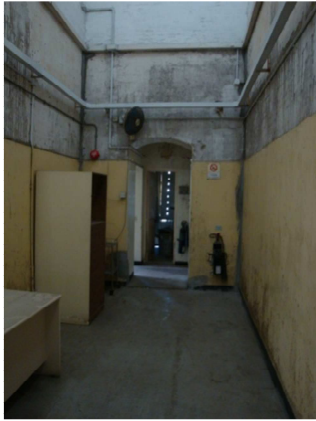
Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.019	Granite surrounds to doorways with lintels over		Moderate	Increase width in selected locations to allow wheelchairs to pass	Record on measured survey drawings. Limit interventions as far as possible.	Low
14.020	Flat ceilings at Ground Floor		Low	Form penetrations for services installations where necessary	Avoid disruption of beams.	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.021	Arched opening at east end		Low	Retain insitu	Not applicable	Neutral


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.022	Top-lit central hall		High	Retain insitu	Not applicable	Neutral


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.023	Arches across central hall at First Floor		Moderate	Retain insitu	Not applicable	Neutral

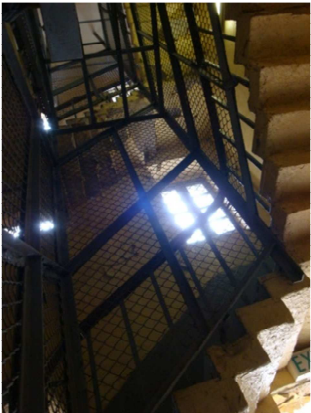
Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.024	Inset security gate and screen in First Floor cells		Low	Remove to suit new use	Remove where necessary. Record on measured drawings.	Low



Schedule of Character Defining Elements

14 D Hall West Wing

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.030	Main stair		High	Remove wire mesh and framing	Record on measured drawings	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.031	Brick vault over central hall at Ground Floor		High	Retain insitu	Not applicable	Neutral
14.032	Terrazzo floor in central hall at Ground floor		Moderate	Remove to enable piled underpinning	Record on measured survey drawings	Moderate

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.033	Brick vaults above cells		High	Retain insitu	Avoid penetrations for services	Neutral
14.034	Cell walls (later additions)		Moderate	Remove where necessary to accommodate new cafe	Record on measured drawings	Low

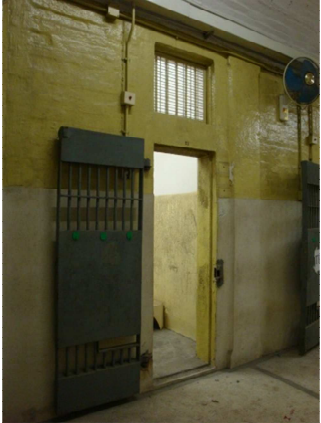
Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.035	Brickwork spandrels below cell windows on south side at Ground Floor		Moderate	Remove to accommodate new cafe	Record on measured survey drawings	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.036	Cell walls flanking central hall		High	Remove to accommodate new cafe	Record on measured survey drawings. Retain selected cells for interpretation purposes.	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.037	Cell floors		Low	Remove to enable piled underpinning	Record on measured survey drawings	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.038	Partition wall across central hall at Ground Floor		Low	Remove to accommodate new cafe	Record on measured survey drawings	Low

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.039	Granite pavement in cross-passage between East and West Wings		Moderate	Repair as necessary and retain insitu	Not applicable	Neutral
14.040	Granite threshold at doorway between cross-passage and East Wing		Moderate	Retain insitu	Not applicable	Neutral



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.041	Brick vault over cross-passage		High	Retain insitu	Avoid any services penetrations	Neutral
14.042	Granite floor in central hall at First Floor		Moderate	Retain insitu	Repair where necessary	Neutral


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.043	Cell walls flanking central hall at First Floor		High	Retain insitu	Not applicable	Neutral
14.044	Brickwork spandrels below cell windows at Second Floor		Moderate	Remove to enable new use	Record on measured drawings. Confine changes to one elevation, north or south.	Low

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.045	Metal security screen adjacent main stair		Moderate	Retain insitu	Not applicable	Neutral

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.046	Double-height central hall at Second Floor		High	Retain insitu	Not applicable	Neutral



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.047	View ports adjacent entrance doors		Moderate	Retain insitu	Not applicable	Neutral
14.048	Services installations		Adverse	Remove	Not applicable	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.049	Metalwork and structural steel framing on exterior (typical)		Adverse	Remove	Not applicable	High
14.050	Blind arcade, south elevation		Low	Remove infill brickwork within arched openings at ground level to enable new cafe	Record on measured survey drawings. Observe and record any evidence that brickwork infills were built at the same time as the arched openings or added later	Low

Schedule of Character Defining Elements



Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.051	Blind arcade, north elevation		Low	Retain insitu	Not applicable	Neutral
14.052	Fence wall, east end of D Hall Yard		Low	Remove to reinstate access to granite stair to Lower Ground Floor level	Record on measured drawings	Low

Schedule of Character Defining Elements

Central Police Station

15 E Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.001	Dividing walls at Lower Ground Floor		Moderate	Remove to enable multi-purpose use	Record on measured survey drawings	Low
15.002	Dividing walls at Lower Ground Floor		Moderate	Remove to enable multi-purpose use	Record on measured survey drawings	Low

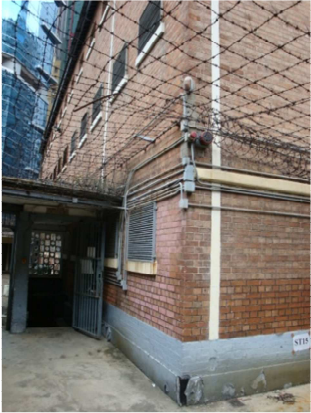

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.003	Staircase within Laundry Yard		Moderate	Remove to enable construction of Arbuthnot Wing	Record on measured survey drawings	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.004	Services installations		Adverse	Remove	Not applicable	Moderate
15.005	Metal louvres over cell window openings		Low	Remove	Record on measured survey drawings	Low

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.006	Raised ground level adjacent entrance		Low	Remove to enable level access	Record on measured survey drawings	Low
15.007	Access balconies and apertures		Moderate	Retain apertures	Provide temporary closure as required for operational reasons	Low

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.008	Central staircase		High	Retain	Provide secondary staircase within cell blocks to achieve code compliance	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.009	Cell walls flanking central hall		High	Retain	Pin back cell doors against walls.	Neutral

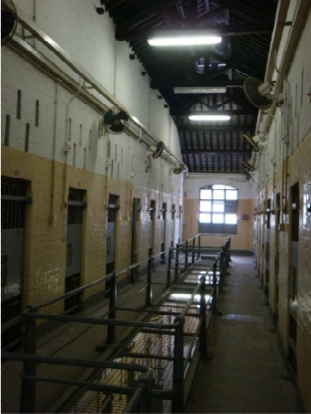
Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.010	Services installations		Adverse	Remove	Not applicable	Moderate
15.011	Balcony balustrades		Moderate	Retain	Install wire net across aperture to avoid need to upgrade balustrade to meet Building Code requirements	Low

Schedule of Character Defining Elements


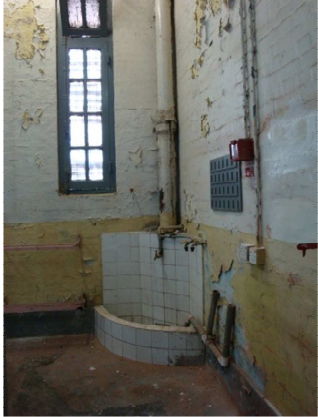
Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.012	Second Floor central hall		High	Retain	Not applicable	Neutral

Schedule of Character Defining Elements



Central Police Station

17 F Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
17.002	Rainwater goods		Low	Remove existing RWPs and install new RWPs externally on North and South Elevations	Improve roof drainage to avoid ponding	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.003	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High
17.004	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.005	Fixed signs		Moderate	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	Moderate
17.006	Security screen at First Floor entrance		Low	Remove	Record on measured drawings	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.007	Metal windows		Moderate	Remove at First Floor to accommodate gallery space and block structural openings with blockwork	Record on measured drawings.	Moderate
17.008	Fixed furniture		Moderate	Remove to accommodate gallery space	None	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.009	Security screens		Moderate	Remove to accommodate gallery space	Record on measured drawings	Moderate
17.010	Timber windows		Moderate	Remove at First Floor to accommodate gallery space and block structural openings with blockwork	Record on measured drawings	Moderate

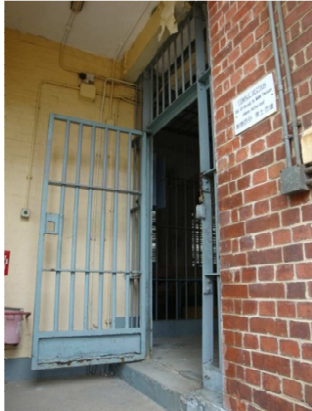
Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.011	Communal washing/lavatory facilities		Moderate	Remove to accommodate gallery space	Record on measured drawings	Low
17.012	Blocked up lantern light		Low	Unblock lantern and fit glazing	Record on measured drawings	Low

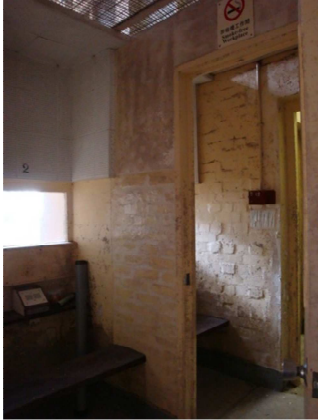

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.013	Security gates at Ground openings		Moderate	Remove to enable access to Ground Floor gallery space	Record on measured drawings	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.014	Interview booths		High	Remove to accommodate new gallery	Rebuild in new location	Moderate
17.015	External stair to First Floor		Moderate	Upgrade balustrade to comply with Building Code	Record on measured drawings. Supplement existing balustrade elements with minimal elements if necessary.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.016	Ground Floor main entrance		Low	Retain as existing.	Keep fixed shut if not required for operational use.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.017	Security screen at Ground Floor main entrance		Low	Remove to accommodate gallery space	Record on measured drawings	Low
17.018	Blue Entrance Gate (facing Old Bailey Street)		High	Retain in situ	Maintain in working order	Neutral

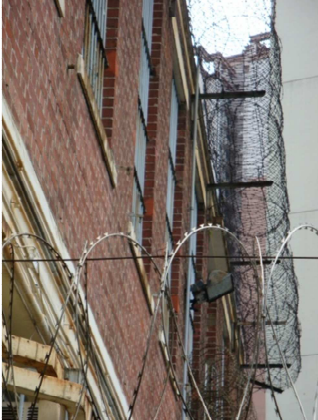

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.019	Blue Entrance Gate (inner) and enclosed yard		Moderate	Retain gate and enclosing walls and roof in situ; remove cupboards.	Repair and maintain gate in working order	Low
17.020	Blue Entrance Gate (inner) facing Prison Yard		Moderate	Retain gate and enclosing frame	Repair and maintain in working order	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.021	Barbed wire		Moderate	Remove	Record on measured drawings. Make good fixing points where attached to brickwork.	Low
17.022	Metal security bars at windows		Moderate	Remove as part of blocking up window openings to accommodate gallery space at First Floor	Record on measured drawings	Low

Schedule of Character Defining Elements

Central Police Station



Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.023	External toilets at Ground Floor adjacent East elevation		Low	Remove	Record on measured drawings	Low
17.024	Open Visit Room		Low	Space reallocated to other uses	Record on measured drawings. Salvage entrance sign and re-use in new layout of interview booths.	Low

Schedule of Character Defining Elements

Central Police Station


Schedule of Character Defining Elements

19 Bauhinia House

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.001	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective material that is neutral in colour and mid-tone.	High
19.002	Chimney		High	Repair and retain	Not applicable	Neutral


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.003	Rainwater goods and other external services		Adverse	Remove and make good wall surface. Replace defective and non-matching rainwater goods with cast iron fittings to match original.	Not applicable	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.004	External stone wall facing		High	Carry out close inspection of painted areas to determine extent of original granite facing and remove paint media where applicable.	Not applicable	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.005	Gun loops		High	Remove concrete infilling and make good stonework where necessary.	Not applicable	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.006	Look-out turret		High	Repair and retain insitu	Not applicable	Neutral


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.007	Windows		Moderate	Remove and make good stonework as necessary	Record existing windows on measured survey drawings	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.008	Modern partitions		Adverse	Remove	Not applicable	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.009	Electrical services		Adverse	Remove	Not applicable	Moderate
19.010	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.011	Exposed timber roof structure		High	Repair and retain insitu	Not applicable	Neutral
19.012	Timber stair		Moderate	Remove	Record on measured surveys drawings	Low