QUARTERLY EM&A REPORT

The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project:

Eleventh Quarterly EM&A Report
(1 May 2014 to 31 July 2014)

Issue Date: September 2014

Environmental Resources Management

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Central Police Station Conservation and Revitalisation Project: Eleventh Quarterly EM&A Report (1 May 2014 to 31 July 2014)

Issue Date: September 2014

Reference 0095646

For and on behalf of					
ERM-Hong Kong, Limited					
Approved by: Frank Wan					
	Warden .				
Signed: _					
Position:	Partner				
Certified by:	Mar				
(Env	rironmental Team Leader – Winnie Ko)				
Date: _	29 September 2014				

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.

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14 October 2014 Date:

By Email and Post

ERM-Hong Kong Limited, 16/F DCH Commercial Centre, 25 Westlands Road, Quarry Bay, Hong Kong

Attn: Ms Winnie Ko

Dear Winnie,

Central Police Station Conservation and Revitalization Project Verification of Eleventh Quarterly EM&A Report

We refer to your letter dated 14 October 2014 regarding the Eleventh Quarterly 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 10.4 of the EM&A Manual.

Yours sincerely, For Atkins China Ltd.

Sharifah Or

Independent Environmental Checker

HKJC - Mr. Kenneth Lee C.C. 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 eleventh quarterly Environmental Monitoring and Audit (EM&A) summary report presenting the EM&A works carried out during the period from 1 May 2014 and 31 July 2014 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	16 times
•	Joint Environmental Site Inspection	3 times
•	Heritage Site Inspection	62 times
•	Landscape & Visual Monitoring	3 times
•	Tree Inspection	3 times
•	Vibration monitoring for piling works	371 times
•	Vibration monitoring for other construction works	224 times

Noise

16 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. No exceedance of Limit Level of construction noise was recorded during the reporting period. The Action Level of noise (complaint received) was triggered twice during the reporting period and investigations were carried out.

Cultural Heritage

Trial Piling and Piling works

Vibration monitoring carried out for the trial piling and piling works during the reporting period are listed below:

- 75 vibration monitoring measurements for the basement construction at Parade Ground;
- 74 vibration monitoring measurements at Block 8;
- 74 vibration monitoring measurements at Old Bailey Wing (Block 50);
- 74 vibration monitoring measurements at Block 51; and
- 74 vibration monitoring measurements at Block 17.

Other Construction Works

Vibration monitoring carried out for other construction works during the reporting period are listed below:

- 75 vibration monitoring measurements for the structural addition and alteration works at Block 1;
- 74 vibration monitoring measurements for the structural addition and alteration works at Block 14; and
- 75 vibration monitoring measurements for the structural addition and alteration works at Block 11.

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

62 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. Three 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. 6,382.3 tonnes of inert C&D materials and 415.7 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. 21,650 kg of metal and 242 kg of paper/cardboard packaging were produced and sent to recyclers for recycling. No plastics waste was generated during the reporting period. No chemical waste was produced during the reporting period.

Environmental Site Inspection

Three 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.

<u>Environmental Exceedance/Non-conformance/Compliant/Summons and Prosecution</u>

No exceedance of Limit Level of construction noise was recorded at designated monitoring stations during the reporting period. The Action Level of construction noise (complaint received) was triggered twice during the reporting period.

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

No enquiry was received during the reporting period.

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

Two complaints were received during the reporting period.

No summons/prosecution was received in this reporting period.

1 INTRODUCTION

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 eleventh quarterly EM&A summary report, which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 1 May 2014 and 31 July 2014.

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* and illustrated in *Annex A3*.

Construction Activities Undertaken

- Structural addition and alteration works at Block 2, Block 3, Block 4, Block 9, Block 10, Block 11, Block 12, Block 13, Block 14, Block 15 and Block 17;
- Roof tiling replacement works at Block 9 and Block 10;
- Demolition works at Block 3, Block 4, Block 13, Block 14 and Block 15;
- New structure construction at Block 3, Block 8, Block 13, Block 14 and Block 15;
- Permanent steel works erection and RC structure construction at Block 8;
- E&M opening, conceal conduit construction and E&M installation at Block 1;
- Construction of passageway from Parade Ground basement to Block 1 corridor;
- Construction of left out portion of basement plant room top slab, builders work in basement plant room;
- Timber doors and windows repair works at Block 1 and Block 9;
- Paint stripping and plaster works at Block 1, Block 3, Block 4, Block 6, Block 7, Block 9, Block 10 and Block 14;
- Metal works repair at Block 11 and Block 15;
- Façade works at Block 1, Block 2, Block 3, Block 6, Block 7, Block 9, Block 12 and Block
 14:
- Structural timber floor repair at Block 3, Block 4 and Block 6;
- Balcony repair at Block 1, Block 4, Block 6, Block 7, Block 9 and Block 10;
- Drainage piles and 1st layer backfill at upper portion and ELS and manhole construction at middle portion of Pottinger Ramp (L1);
- Water/Fire Services (FS) pipes at upper portion and drainage pipes and backfill 1st layer at middle portion of Pottinger Ramp (L1);
- Excavation of L2;
- Demolition of existing concrete slab at M3;
- Carrying out of archaeological watching brief at MP3 (L2);
- Backfill at Prison Yard south (U1);
- Arbuthnot Road East and West utilities diversion works and carriageway/ footpath work/crossing;
- Strengthening works of existing column and beams trimming at Block 17;
- Pile cap construction and substructure at Arbuthnot Wing;
- External and lateral support works and capping plate construction at Old Bailey Wing;
 and
- R177 upgrading.

2.4 CONSTRUCTION PROGRAMME

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

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 on 10 January 2012	
	EP-408/2011/A	-	Superseded on 22 March 2012	
	EP-408/2011/B	Throughout the Contract	Permit granted on 22 March 2012	
Notification of Construction Works as required under <i>Air</i> Pollution Control (Construction Dust) Regulation	Ref. No. 332920	Throughout the Contract	-	
Registration of Waste Producer under <i>Waste</i> <i>Disposal Ordinance</i>	Waste Producer No.: 5213-122-G2347-25	Throughout the Contract	-	
Effluent Discharge License under Water Pollution Control Ordinance	License No. WT00010633-2011	21 Oct 2011 – 31 Oct 2016	-	
Notification of Commencement of Asbestos Abatement Work under Air Pollution Control Ordinance	-	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.	

Permit/ Licences/ Notification	Reference Validity Period		Remarks	
		at 0000 hours to 28 March 2013 at 0600 hours		
	GW-RS0113-13	1 February 2013 at 0200 hours to 31 May 2013 at 0400 hours	Expired.	
	GW-RS1301-12	2 January 2013 at 1900 hours to 29 June 2013 at 2300 hours	Expired.	
	GW-RS0084-13	24 January 2013 at 1900 hours to 29 June 2013 at 0700 hours	Expired.	
	GW-RS0638-13	16 June 2013 at 0700 hours to 15 September 2013 at 1900 hours	Expired.	
	GW-RS0901-13	14 August 2013 at 0000 hours to 31 October 2013 at 0600 hours	Expired.	
	GW-RS0714-13	29 June 2013 at 1900 hours to 28 December 2013 at 2400 hours	Expired.	
	GW-RS0745-13	5 July 2013 at 1900 hours to 30 December 2013 at 2300 hours	Expired.	
	GW-RS1110-13	7 October 2013 at 0200 hours to 31 December 2013 at 0400 hours	Expired.	
	GW-RS1205-13	4 November 2013 at 0000 hours to 30 January 2014 at 2400 hours	Expired.	
	GW-RS1275-13	13 November 2013 at 0000 hours to 30 April 2014 at 2400 hours	Expired.	
	GW-RS1461-13	29 December 2013 at 0000 hours to 28 June 2014 at 2400 hours.	Expired.	
	GW-RS0062-14	10 February 2014 at 0000 hours to 31 March 2014 at 2400 hours.	Expired.	
	GW-RS0271-14	1 April 2014 at 0100 hours to 30 June 2014 at 0600	Expired.	

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
		hours	
	GW-RS0434-14	8 May 2014 at 0000 hours to 30 September 2014 at 2400 hours	-
	GW-RS0651-14	28 July 2014 at 0000 hours to 26 September 2014 at 2400 hours	-
	GW-RS0658-14	29 June 2014 at 0000 hours to 28 December 2014 at 2400 hours	-
	GW-RS0749-14	1 August 2014 at 0000 hours to 31 January 2015 at 2400 hours	-

3

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 monitoring programme for this reporting period is shown in *Annex D*.

The construction noise levels were measured in terms of A-weighted equivalent continuous sound pressure level ($L_{\rm eq}$) in decibels dB(A). $L_{\rm eq\,(30min)}$ 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 E*.

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 10786708; S/N 10486660)
	Sound Level Meter
	Rion NL-31 (S/N 00410224)
	Rion NL-52 (S/N 00131627)

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:

- a) 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.
- b) 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 F*.

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 G*.

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 L*. 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 L*. 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 M*. 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 G*.

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 G*.

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.

4 IMPLEMENTATION STATUS ON ENVIRONMENTAL MITIGATION MEASURES

The Contractor has generally implemented the environmental mitigation measures (including those for archaeology) 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 G*.

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

Table 4.1 Status of Required Submissions

Submission		Submission Date
EP Condition		
Conditions 3.4	Thirtieth Monthly EM&A Report	14 May 2014
	Thirty-first Monthly EM&A Report	13 June 2014
	Thirty-second Monthly EM&A Report	15 July 2014

5

5.1 Noise

A total of 16 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 H*. 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. The Action Level of construction noise (complaint received) was triggered twice during the reporting period. An investigation for each reported case was carried out and the findings are presented in *Section 7.1.4*.

5.2 LANDSCAPE AND VISUAL MONITORING

Three monthly tree inspections were conducted by the arborist during the reporting period on 2 May 2014, 3 June 2014 and 2 July 2014 and key findings and recommendations are summarised in *Table 5.1*.

Table 5.1 Findings of Monthly Tree Inspections in the Reporting Period

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observation / Recommendations
2 May 2014			
Tree -5	Mangifera indica	Good	No further action required.
Tree -6	Aleurites moluccana	Fair	 No further action required.
Tree-7	Aleurites moluccana	Fair	No further action required.
Tree-8	Plumeria rubra	Fair	No further action required.
Tree-9	Araucaria cunninghamia	Fair	No further action required
Tree-11	Dracaena marginata	Fair	 No further action required.
3 June 2014			
Tree -5	Mangifera indica	Good	No further action required.
Tree -6	Aleurites moluccana	Fair	No further action required.
Tree-7	Aleurites moluccana	Fair	No further action required.
Tree-8	Plumeria rubra	Fair	No further action required.
Tree-9	Araucaria cunninghamia	Fair	No further action required.

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observation / Recommendations
Tree-11	Dracaena marginata	Fair	 A dead log present on upper branches.
2 July 2014			
Tree -5	Mangifera indica	Good	No further action required
Tree -6	Aleurites moluccana	Fair	No further action required
Tree-7	Aleurites moluccana	Fair	No further action required
Tree-8	Plumeria rubra	Fair	No further action required
Tree-9	Araucaria cunninghamia	Fair	No further action required
Tree-11	Dracaena marginata	Fair	 A dead log present on upper branches.

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

Trial Piling and Piling works

Vibration monitoring carried out for the trial piling and piling works during the reporting period are listed below:

May 2014:

- 25 vibration monitoring measurements for the basement construction at Parade Ground;
- 24 vibration monitoring measurements at Block 8;
- 24 vibration monitoring measurements for piling works at Old Bailey Wing (Block 50);
- 24 vibration monitoring measurements for piling works at Block 51; and
- 24 vibration monitoring measurements at Block 17.

June 2014:

- 24 vibration monitoring measurements for the basement construction at Parade Ground;
- 24 vibration monitoring measurements at Block 8;
- 24 vibration monitoring measurements at Old Bailey Wing (Block 50);

- 24 vibration monitoring measurements at Block 51; and
- 24 vibration monitoring measurements at Block 17.

July 2014:

- 26 vibration monitoring measurements for the basement construction at Parade Ground;
- 26 vibration monitoring measurements at Block 8;
- 26 vibration monitoring measurements at Old Bailey Wing (Block 50);
- 26 vibration monitoring measurements at Block 51; and
- 26 vibration monitoring measurements at Block 17.

The monitoring results are presented in *Annex L*.

Other Construction Works

Vibration monitoring carried out for other construction works during the reporting period are listed below:

May 2014:

- 25 vibration monitoring measurements for the structural addition and alteration works at Block 1;
- 24 vibration monitoring measurements for the structural addition and alteration works at Block 14; and
- 25 vibration monitoring measurements for the structural addition and alteration works at Block 11.

June 2014:

- 24 vibration monitoring measurements for the structural addition and alteration works at Block 1;
- 24 vibration monitoring measurements for the structural addition and alteration works at Block 14; and
- 24 vibration monitoring measurements for the structural addition and alteration works at Block 11.

July 2014:

- 26 vibration monitoring measurements for the structural addition and alteration works at Block 1;
- 26 vibration monitoring measurements for the structural addition and alteration works at Block 14; and

• 26 vibration monitoring measurements for the structural addition and alteration works at Block 11.

The monitoring results are presented in *Annex M*.

All monitoring results were below the Alert/Alarm/ Action Levels during the reporting period.

5.3.2 Heritage Site Audit

Heritage site audits were conducted on 2, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 20, 21, 22, 23, 26, 27, 28, 29 and 30 May 2014; 3, 4, 5, 6, 9, 10, 11, 12, 13, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27 and 30 June 2014; 2, 3, 4, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, 21, 22, 23, 24, 25, 28, 29, 30 and 31 July 2014 by the Heritage Checker during the reporting period. Follow-up actions were undertaken as reported by the Contractor and observed in the subsequent monthly site inspections conducted in the reporting period. Key site audit findings and recommendations are summarised below.

8 May 2014

• Concrete spillage was observed on roof of Block 1 from the tower crane. The Contractor was informed to follow up.

9 May 2014

• It was observed that incorrect downpipes were fixed to wall at Block 1 north verandah. The Contractor was informed to follow up.

9 June 2014

• It was observed that the new brickwork infill below 01/WG/19 of Block 1 was in a poor workmanship condition. The Contractor was informed to follow up.

10 June 2014

• Colour differences between new bricks and approved sample, new mortar repair and existing brickwork were observed for the brickwork repairs at Block 1 south elevation top two lifts. The Contractor was informed to follow up.

13 June 2014

• It was observed that the floor drains of Block 1 balconies did not comply with contract documents. The Contractor was informed to follow up.

23 June 2014

• It was observed that the metalwork repairs and finish of Block 7 north balcony did not comply with contract documents. The Contractor was informed to follow up.

 The timber handrails and concrete cornices at Block 7 balcony were observed being covered with black paint and white primer due to lack of protection. The Contractor was informed to follow up.

24 June 2014

• The shop drawing submission of the Block 1 glass balustrade did not comply with the previous comments from conservation architect. The Contractor was informed to follow up.

7 July 2014

• No protection was carried out at Block 4 during demolition works. The Contractor was informed to follow up.

10 July 2014

- It was observed that the west elevation of Block 9 was full of paint residual after canopy soffit paint removal. The Contractor was informed to follow up.
- It was observed that timber floor on second floor balcony in Block 10 was lack of protection. The Contractor was informed to follow up.

21 July 2014

• It was observed that the timber picture rail sections in Block 4 verandah were without any protection. The Contractor was informed to follow up.

24 July 2014

- Insufficient protection was observed at Block 9 during the propping of floors in central entrance area. The Contractor was informed to follow up.
- Two painted signs on the second floor of Block 3 were observed unprotected and covered in duct tape. The Contractor was informed to follow up.

25 July 2014

- Timber floor boards at Block 6 were observed unprotected in the passageway. The Contractor was informed to follow up.
- It was observed that water was running through the timber floor on first floor of Block 4 while the Contractor was cutting steel beams. Works were stopped immediately and the Contractor was informed to follow up.

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

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. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarised in *Table 5.2*. The summary of Waste Flow Table prepared by the Contractor is shown in *Annex J*. The non-inert C&D materials and general refuse generated from the Project were disposed of at the SENT Landfill. 21,650 kg of metal and 242 kg of paper/cardboard packaging was produced and sent to recyclers for recycling. No plastics waste was generated during the reporting period. No chemical waste was produced during the reporting period.

Table 5.2 Quantities of Waste Generated from the Project

Month / Year	Quantity						
	C&D	C&D Chemical		Recycled materials			
	Materials	Materials	Waste				
	(inert)	(non-inert)	Liquid	Solid	Paper/cardboard	Plastics	Metals
	(tonnes) (a)	(tonnes) (b)	(L)	(kg)	(kg)	(kg)	(kg)
May 2014	3,195.53	119.54	0	0	0	0	7,000
June 2014 (c)	2,176.81	148.8	0	0	242	0	11,350
July 2014	1,009.96	147.36	0	0	0	0	3,300
Total	6,382.3	415.7	0	0	242	0	21,650

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.

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 reporting period. No non-compliance events were observed during site inspections and no exceedances of limit level were recorded during the reporting period. The EM&A programme is considered effective.

6 ENVIRONMENTAL SITE INSPECTION

Three monthly environmental site inspections were conducted on 22 May 2014, 19 June 2014 and 24 July 2014 during the reporting period. There was no non-compliance recorded during the site inspections. 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.

22 May 2014

• The chemical waste store was observed unlocked. The Contractor was reminded to lock the chemical waste store at all times.

19 June 2014

• Nil.

24 July 2014

Accumulation of water was observed between Block 11 and Block 12.
 The Contractor was reminded to pump the water to the wastewater treatment facility for treatment prior to discharge off site.

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7 ENVIRONMENTAL NON-CONFORMANCE

7.1.1 Summary of Monitoring Exceedance

No exceedance of Limit Level of construction noise or Alert, Alarm and Action Level of vibration was recorded during the reporting period. The Action Level of construction noise (complaint received) was triggered twice during the reporting period.

7.1.2 Summary of Enquiry

No enquiry was received during the reporting period.

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

Two complaints were received during the reporting period. Information about the complaints is summarised in *Table 7.1*.

Table 7.1 Summary of Complaints Received

Date of Complaint Received by the Contractor	Means by which complaint was received	Nature of complaint	
21 July 2014	Hong Kong Jockey Club	Noise nuisance	
25 July 2014	Hong Kong Jockey Club	Noise nuisance	

On 21 July 2014, the Hong Kong Jockey Club received a complaint on noise nuisance from a resident living on Chancery Lane. The complaint was transferred to the Project's Environmental Team on 22 July 2014. The complainant mentioned that construction noise was emanated from the operation of multiple jack hammers at the CPS Site in the week of 14 July 2014. The complainant requested a phone call reply regarding the complaint. According to the Contractor's works summary, demolition of slab for lift shaft construction using hand-held breakers (>10kg) at Block 14 were being carried out in the week of 14 July 2014 during normal working hours. The slab demolition works have been completed. The noise nuisance mentioned by the complainant is likely to be related to the demolition works that were carried out on the rooftop of Block 14. Weekly daytime noise monitoring at designated noise monitoring stations (NM2 and NM6) are conducted according to the EM&A requirements. Noise monitoring results in the past 4 weeks showed compliance with the construction noise standard.

The Contractor was recommended to install acoustic silencers to the handheld breakers during breaking and demolition works to reduce noise generated at source. According to findings of investigation, the potential noise nuisance is suspected to be related to the demolition works on rooftop areas on which nearby noise sensitive receivers have direct line of sight. The Contractor was reminded to erect portable noise barriers or acoustic curtains, as far as practicable, when engaging in breaking works or other noisy works in open areas to minimise potential noise nuisance to nearby residents. Furthermore, the Contractor has returned call to complainant to explain the situation and the possible noise mitigation measures to be employed in the future.

On 25 July 2014, the Hong Kong Jockey Club received a complaint on noise nuisance from a resident living on Chancery Lane. The complaint was transferred to the Project's Environmental Team on 28 July 2014. The complainant mentioned that construction noise was emanated from the operation of multiple jack hammers at the prison area of the CPS Site. The complainant requested a phone call reply regarding the complaint. According to the Contractor's works summary, interior wall demolition at Block 15 and column demolition at Block 17 were being carried out in the week of 21 July 2014 during normal working hours. The noise nuisance mentioned by the complainant is likely to be related to the demolition works at Block 15 and Block 17. A number of hand-held breakers (>10kg) were being operated for the above-mentioned demolition works at Block 15 and Block 17. All demolition works were being conducted inside the buildings. According to the Contractor, the demolition works at Block 15 and Block 17 will be completed within the next 1 to 2 months.

The Contractor has implemented noise mitigation measures in response to the complaint. Acoustic curtains has been erected at the south and west elevations of Block 15, and at the entrance opening and windows areas of Block 17 to shield the direct line of sight and reduce the noise nuisance to nearby noise sensitive receivers along the Chancery Lane. The Contractor was also recommended to install acoustic silencers to the hand-held breakers during breaking and demolition works to reduce noise generated at source. On 26 July 2014, the Contractor has returned call to complainant to explain the situation and the noise mitigation measures that are currently in place.

The Complaint Investigation Reports and the cumulative number of complaints are presented in *Annex K*.

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 K*.

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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	Monitoring	Corresponding	Noise	Predicted	Measured
Month	Stations	NSR in EIA	Limit	Construction	Construction
			Level	Noise Level (With	Noise Level
				Mitigation) in EIA	
			L _{eq, 30 min} dB(A)	L _{eq, 30 min} dB(A)	L _{eq, 30 min} dB(A)
May 2014	NM2	N2	75	67 - 72	66.5 – 70.2
	NM6	N6	75	73 - 75	66.0 - 68.3
June 2014	NM2	N2	75	67 - 72	68.3 – 71.9
	NM6	N6	75	73 - 75	66.6 - 68.2
July 2014	NM2	N2	75	67 - 72	65.3 – 69.9
	NM6	N6	75	73 - 75	67.8 - 70.1

The monitoring results recorded since the commencement of the construction works have been 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 higher than 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	26,954 m ³
Amount of C&D Materials (Non-inert) Arising	890 m ³	4,724 m ³
General Refuse	130 kg per day	_ (c)
Chemical Waste	Less than 100L per month	57 L (liquid)350 kg (solid)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 July 2014.
- (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 (including those for archaeology) 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.

9 CONCLUSIONS

This eleventh Quarterly EM&A Report presents the EM&A works undertaken during the reporting period from 1 May 2014 to 31 July 2014 in accordance with EM&A Manual and the requirements under EP-408/2011/B.

No exceedance of Limit Level of construction noise was recorded at designated monitoring stations during the reporting period. The Action Level of noise (complaint received) was triggered twice during the reporting period and investigations were carried out.

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 Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

No enquiry was received during the reporting period.

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

Two complaints were received during the reporting period.

No summons/prosecution was received during the reporting period.

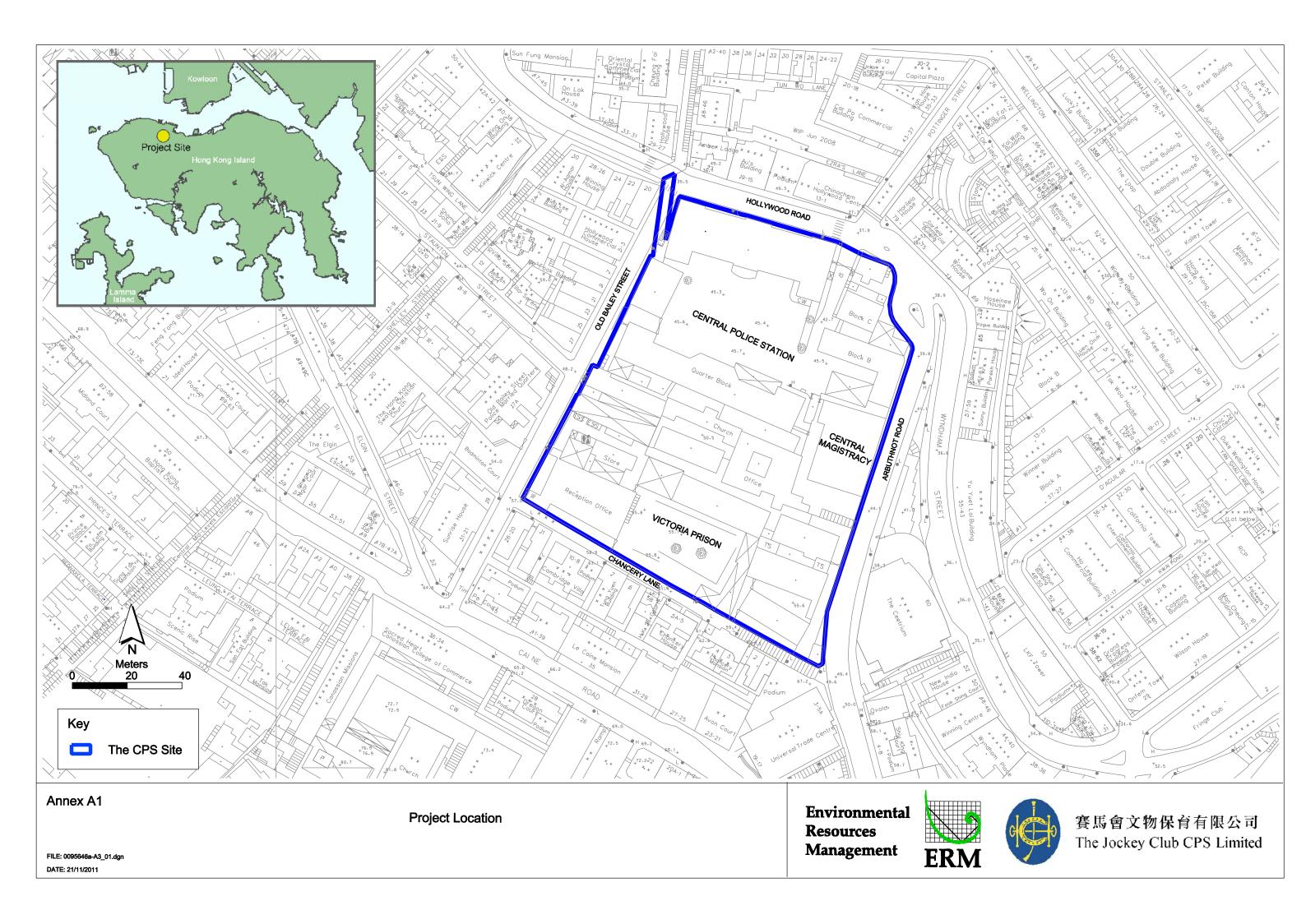
The monitoring programme was considered effective in reflecting the environmental conditions at the designated representative sensitive receivers. The monitoring results also indicate that the Project have not caused adverse impacts on the environment with implementation of appropriate mitigation measures. 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

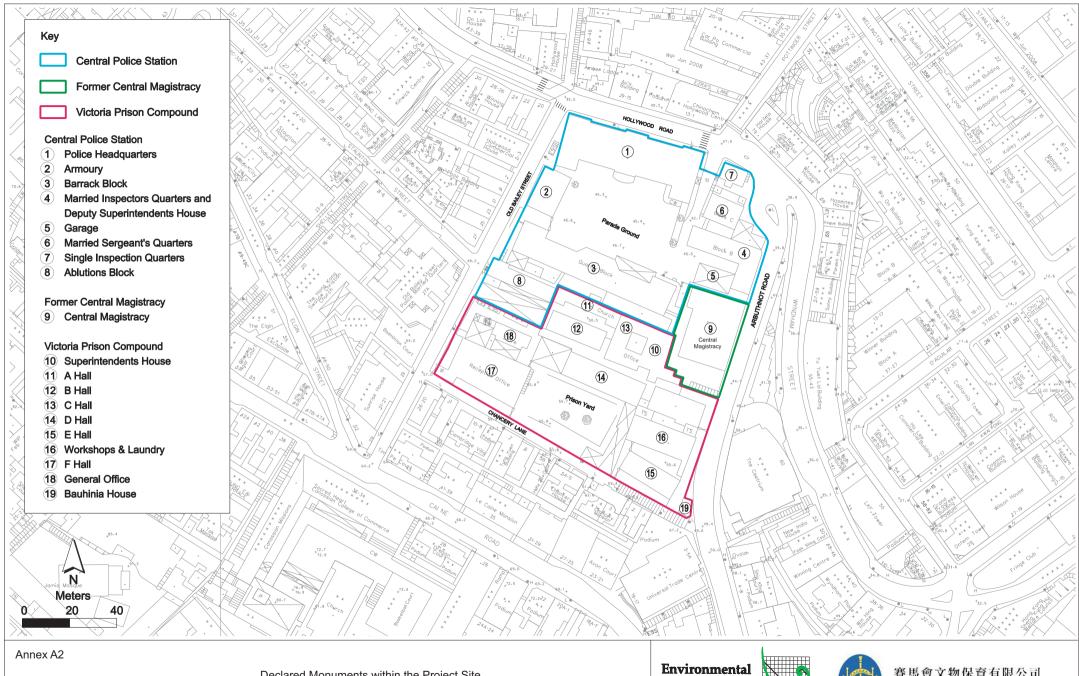
Annex A1

Project Location



Annex A2

Declared Monuments within the Project Site



FILE: 0095646b1-A3.dgn DATE: 07/12/2011

Declared Monuments within the Project Site

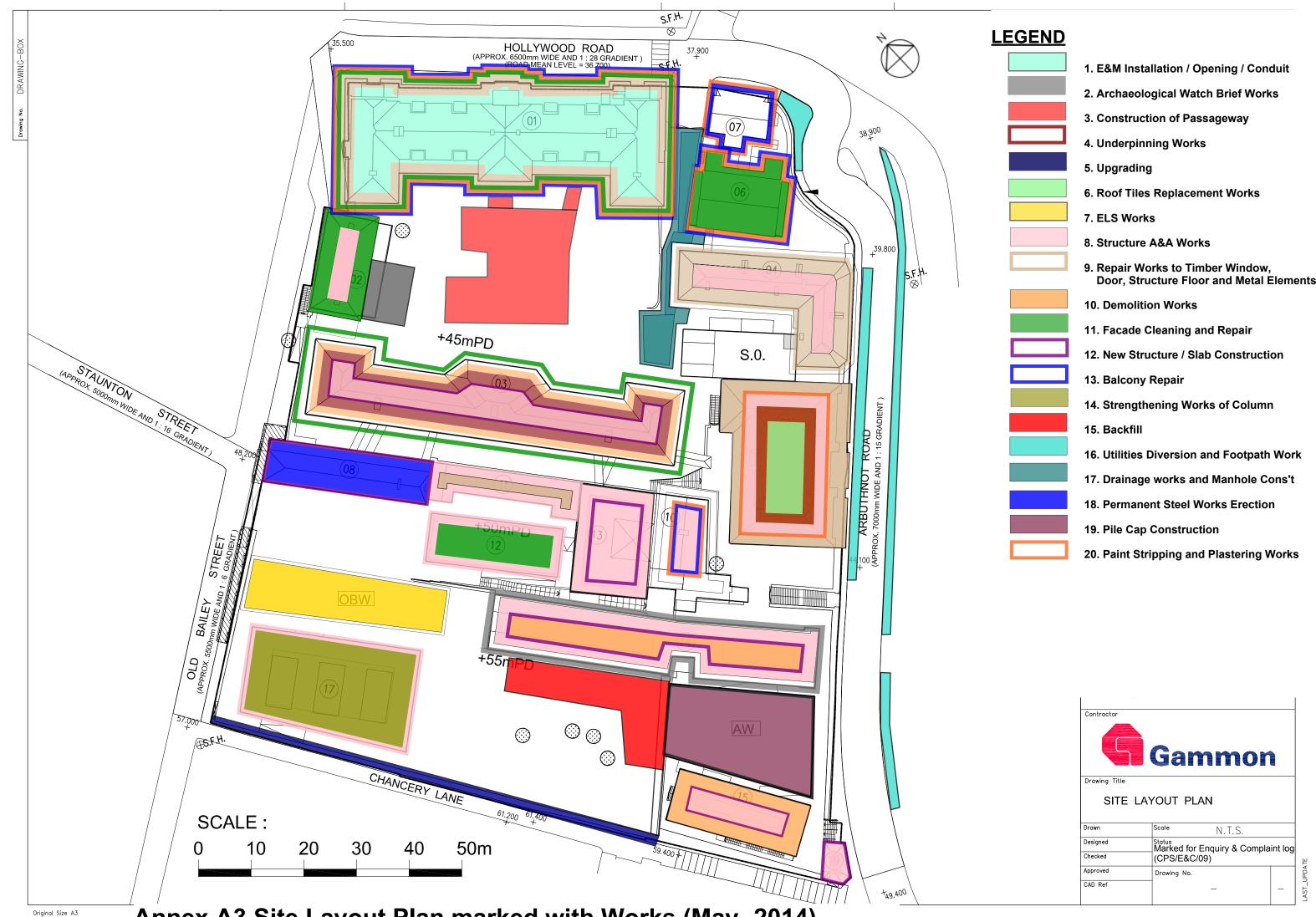
Resources Management



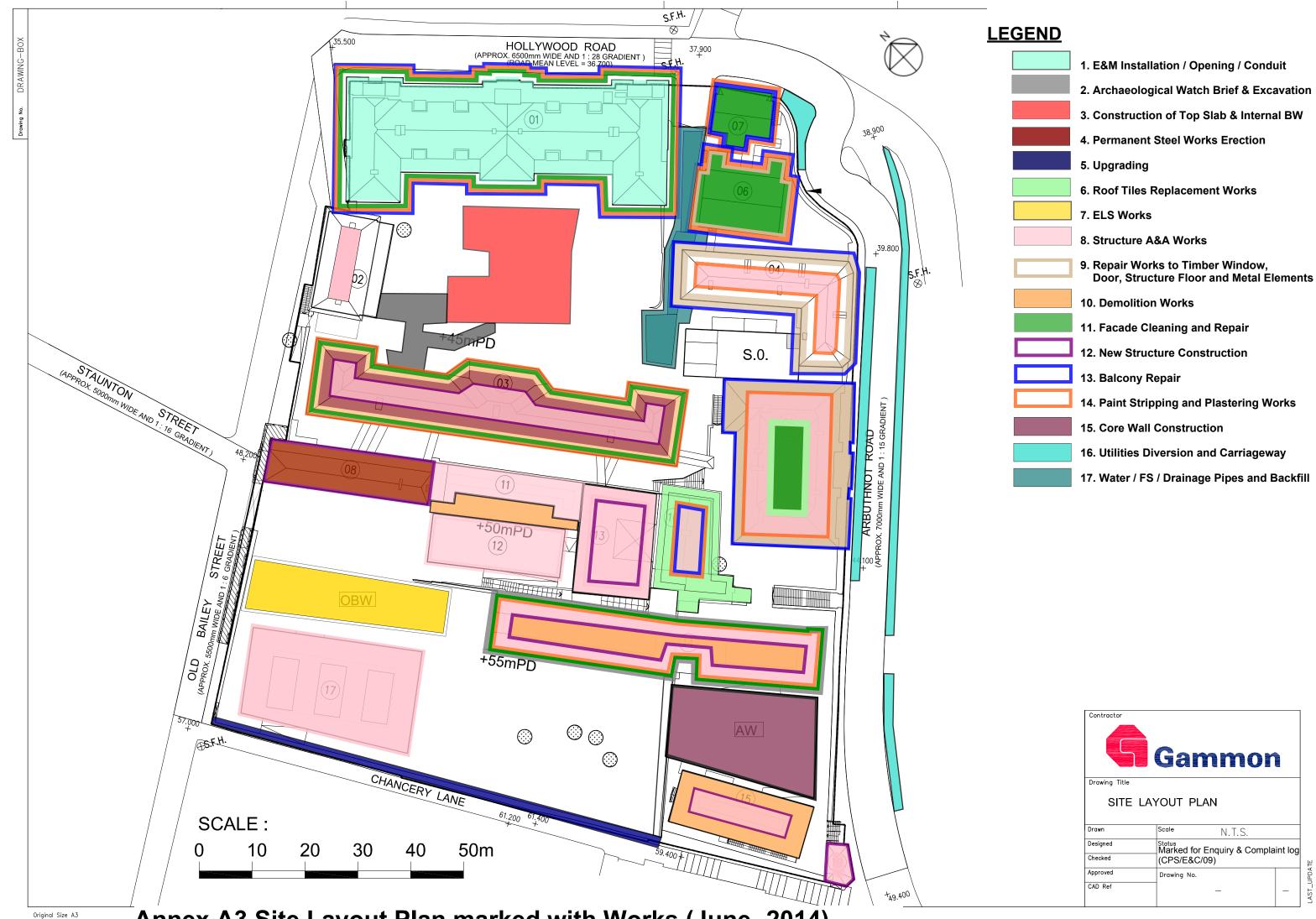


Annex A3

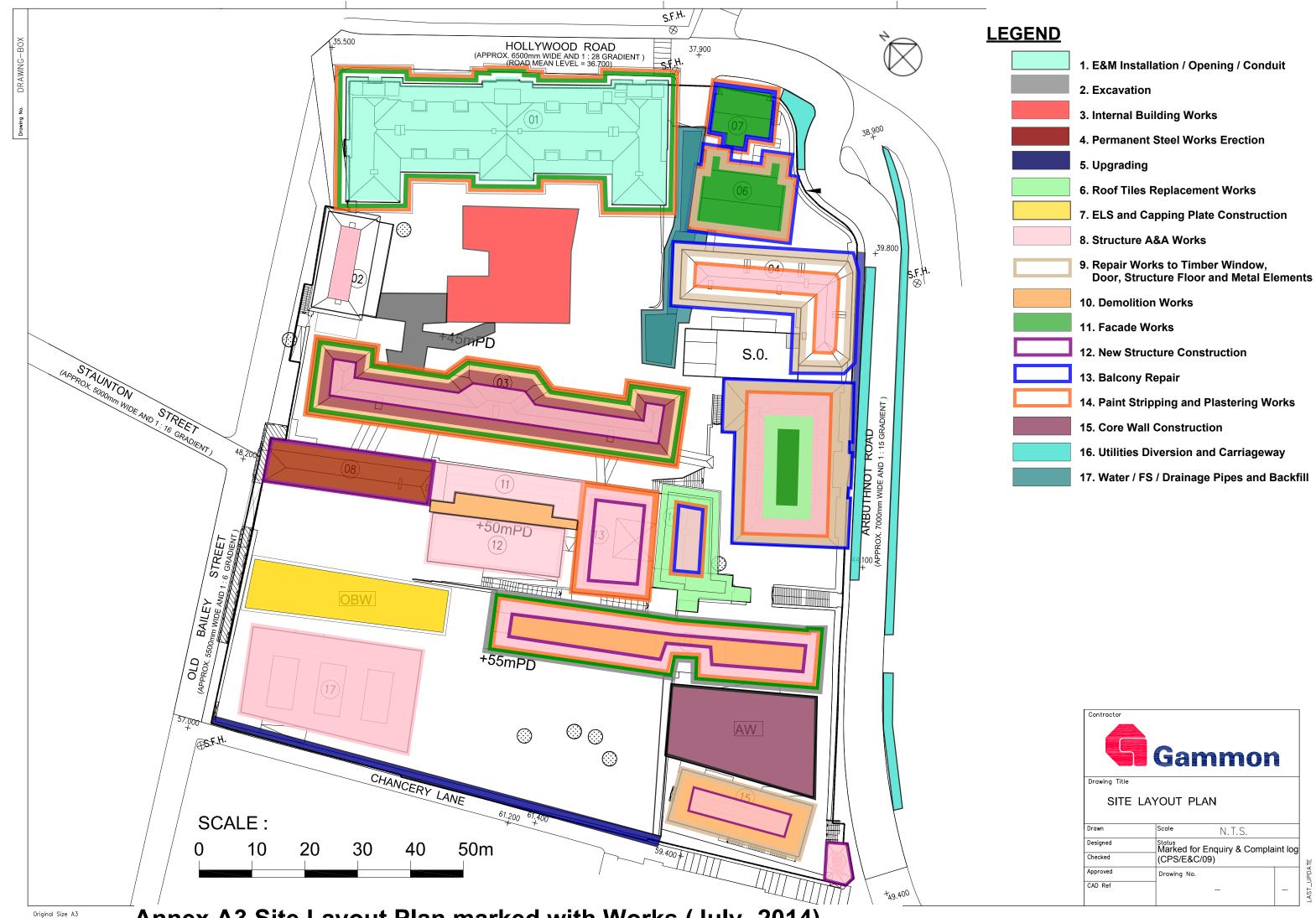
Site Layout Plan marked with Works



Annex A3 Site Layout Plan marked with Works (May- 2014)



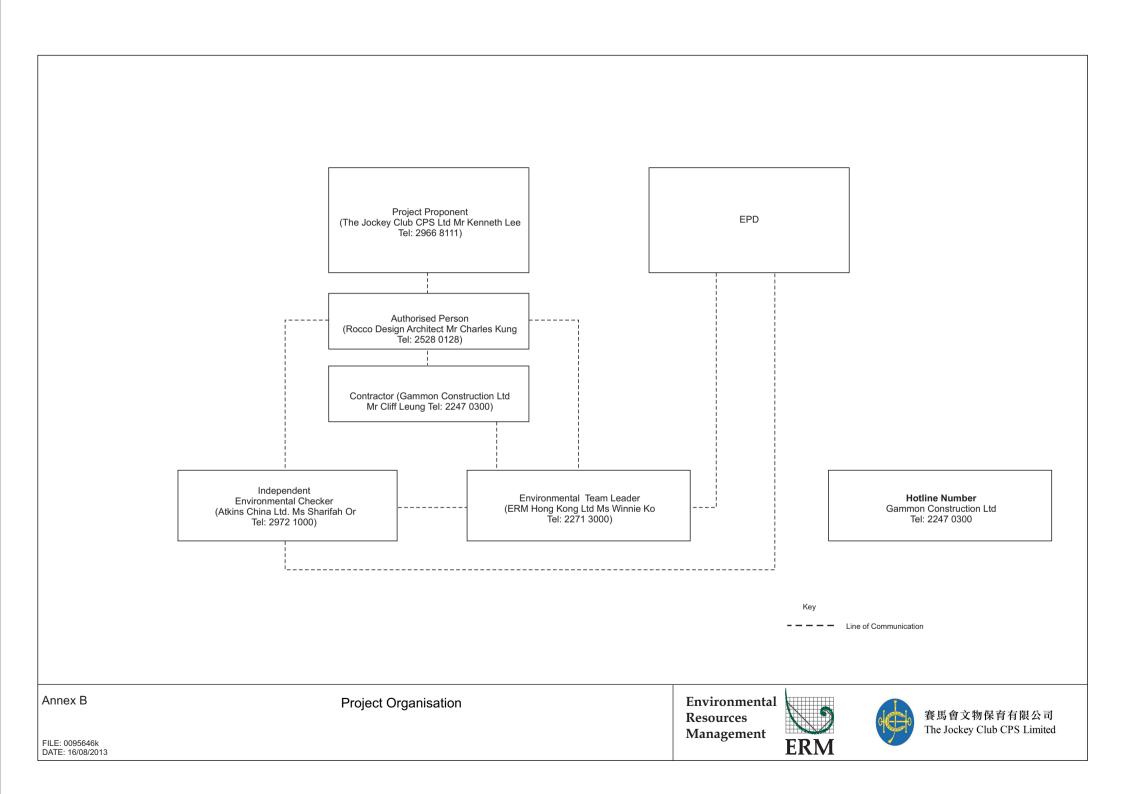
Annex A3 Site Layout Plan marked with Works (June- 2014)



Annex A3 Site Layout Plan marked with Works (July- 2014)

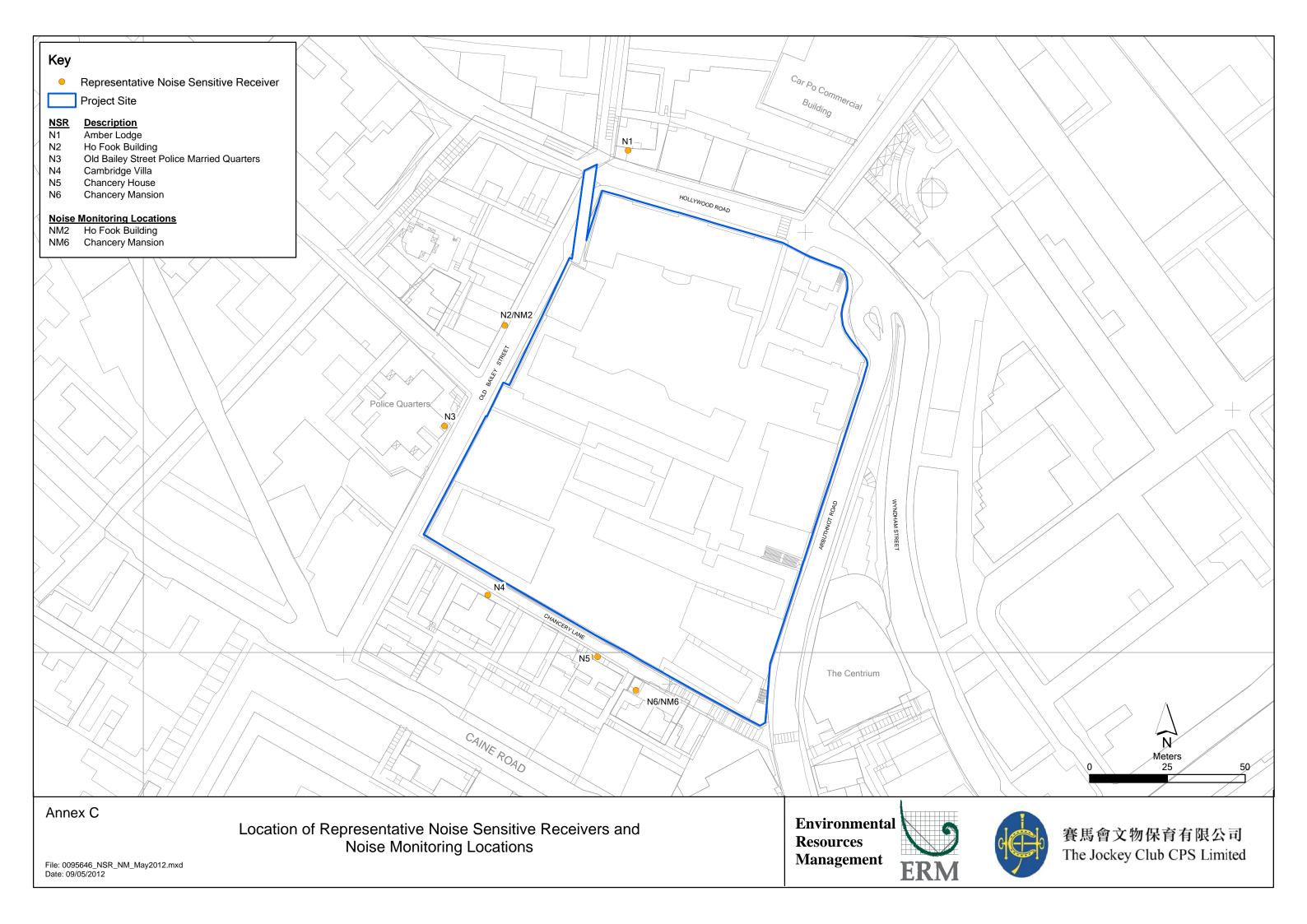
Annex B

Project Organization Chart and Contact Detail



Annex C

Locations of Noise Monitoring Stations and Noise Sensitive Receivers



Annex D

Monitoring Schedule of the Reporting Period

Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - May 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		-		01-May	02-May	03-May
				Public Holiday		
04-May	05-May	06-May	07-May	08-May	09-May	10-May
	Noise Monitoring at NM2 & NM6	Public Holiday				Noise Monitoring at NM2 & NM6
11-May	12-May	13-May	14-May	15-May	16-May	17-May
					Noise Monitoring at NM2 & NM6	
18-May	19-May	20-May	21-May	22-May	23-May	24-May
				Noise Monitoring at NM2 & NM6		
25-May	26-May	27-May	28-May	29-May	30-May	31-May
			Noise Monitoring at NM2 & NM6			

Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - June 2014

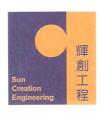
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun
	Public Holiday	Noise Monitoring at NM2 & NM6				
8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun
	Noise Monitoring at NM2 & NM6					Noise Monitoring at NM2 & NM6
15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun
					Noise Monitoring at NM2 & NM6	
22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun
				Noise Monitoring at NM2 & NM6		
29-Jun	30-Jun					

Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - July 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Jul	02-Jul	03-Jul	04-Jul	05-Jul
	Public Holiday		Noise Monitoring at NM2 & NM6			
06-Jul	07-Jul	08-Jul	09-Jul	10-Jul	11-Jul	12-Jul
		Noise Monitoring at NM2 & NM6				
13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul
	Noise Monitoring at NM2 & NM6					Noise Monitoring at NM2 & NM6
20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul
					Noise Monitoring at NM2 & NM6	
27-Jul	28-Jul	29-Jul	30-Jul	31-Jul		
				Noise Monitoring at NM2 & NM6		

Annex E

Calibration Reports for Calibrators and Sound Level Meters



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.:

C134306

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC13-1709)

Description / 儀器名稱

Sound Level Calibrator

Manufacturer / 製造商 Model No. / 型號

Rion NC-73

Serial No./編號

10786708

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 :

 $(23 \pm 2)^{\circ}$ 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

12 July 2013

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

Certified By 核證

K C/Lee

K M Wu

Date of Issue

Website/網址: www.suncreation.com

15 July 2013

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

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所書面批准。



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C134306

證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment:

Equipment ID CL130 CL281 TST150A <u>Description</u> Universal Counter Multifunction Acoustic Calibrator

Measuring Amplifier

Certificate No. C133632 DC130171 C120886

4. Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	93.8	± 0.5	± 0.2

5.2 Frequency Accuracy

rrequericy Accuracy			
UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz) (kHz)		Spec.	(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.

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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Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C144214

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC14-1719)

Date of Receipt / 收件日期: 9 July 2014

Description / 儀器名稱

Sound Level Calibrator

Manufacturer / 製造商

Rion

Model No. / 型號

NC-73

Serial No. / 編號

10786708

: 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 $(23 \pm 2)^{\circ}$ 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

15 July 2014

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

H C Chan

Engineer

Certified By

核證

K K Wong

Date of Issue

16 July 2014

簽發日期 Engineer

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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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 - 校正及檢測實驗所

c/o 香港新界屯門與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



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C144214

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.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment:

> Equipment ID CL130

CL281 TST150A Description Universal Counter

Multifunction Acoustic Calibrator Measuring Amplifier

Certificate No. C143868

DC130171 C141558

4. Test procedure: MA100N.

5. Results:

Sound Level Accuracy 5.1

UUT Nominal Value	Measured Value (dB)	Mfr's Spec.	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.9	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value (Hz)
(kHz)	(kHz)	Spec.	
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.

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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Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.:

C137683

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號:IC13-3109)

Description / 儀器名稱 :

Sound Level Calibrator

Manufacturer / 製造商

Rion

Model No. / 型號 Serial No. / 編號 NC-73 10486660

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 / 温度 :

 $(23 \pm 2)^{\circ}$ 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

3 December 2013

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

. . . .

Certified By 核證 K O Lee

K M Wn

Date of Issue

4 December 2013

簽發日期

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n Creation Engineering Limited - Calibration & Testing Laboratory

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mail/電郵; callab@suncreation.com

Website/網址: www.suncreation.com



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C137683

證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment:

Equipment ID CL130 CL281 TST150A <u>Description</u>
Universal Counter
Multifunction Acoustic Calibrator
Measuring Amplifier

Certificate No. C133632 DC130171 C120886

4. Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

Sound Level Accuracy			
UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	93.8	± 0.5	± 0.2

5.2 Frequency Accuracy

Frequency Accuracy			
UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.991	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.

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Certificate of Calibration

校正證書

Certificate No.: C133573

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC13-1422)

Description / 儀器名稱 :

Sound Level Meter

Manufacturer / 製造商 Model No. / 型號

Rion NL-31

Serial No. / 編號

00410224

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 : $(23 \pm 2)^{\circ}$ C Relative Humidity / 相對濕度 :

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 14 June 2013

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

Certified By

核證

Date of Issue

17 June 2013

簽發日期 K K Wong

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C133573

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. 2.

The results presented are the mean of 3 measurements at each calibration point. 3.

4. Test equipment:

> Equipment ID CL280 CL281

Description 40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

Certificate No. C130019 DC110233

Test procedure: MA101N. 5.

Results: 6.

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	A	Fast	94.00	1	93.6	± 1.1

6.1.2 Linearity

	U	JT Setting		Applied	l Value	UUT
Range	Mode	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 120	L _A	A	Fast	94.00	1	93.6 (Ref.)
				104.00		103.6
				114.00		113.6

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

Time Weighting 6.2

UUT Setting				Applied Value		UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L_A	A	Fast	94.00	1	93.6	Ref.
			Slow			93.5	± 0.3

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所書面批准。

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Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.: C133573

證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

A- Weighting	Ś						
	UU	T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 120	L_A	A	Fast	94.00	63 Hz	67.3	-26.2 ± 1.5
					125 Hz	77.3	-16.1 ± 1.5
					250 Hz	84.9	-8.6 ± 1.4
					500 Hz	90.3	-3.2 ± 1.4
					1 kHz	93.6	Ref.
					2 kHz	94.9	$+1.2 \pm 1.6$
					4 kHz	94.8	$+1.0 \pm 1.6$
					8 kHz	92.6	-1.1 (+2.1; -3.1)
					12.5 kHz	89.7	-4.3 (+3.0; -6.0)

6.3.2 C-Weighting

	UU'	T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 120	L_{C}	С	Fast	94.00	63 Hz	92.7	-0.8 ± 1.5
					125 Hz	93.4	-0.2 ± 1.5
					250 Hz	93.6	0.0 ± 1.4
					500 Hz	93.7	0.0 ± 1.4
					1 kHz	93.7	Ref.
					2 kHz	93.5	-0.2 ± 1.6
					4 kHz	93.0	-0.8 ± 1.6
					8 kHz	90.7	-3.0 (+2.1; -3.1)
					12.5 kHz	87.9	-6.2 (+3.0; -6.0)

Remarks: - UUT Microphone Model No.: UC-53A & S/N: 307154

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB : 63 Hz - 125 Hz : \pm 0.35 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.

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輝創工程有限公司 - 校正及檢測實驗所 c/o 香港新界屯門興安里一號青山灣機樓四樓

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.:

C141622

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC14-0645)

Date of Receipt / 收件日期: 11 March 2014

Description / 儀器名稱

Sound Level Meter

Manufacturer / 製造商 Model No. / 型號

Rion

Serial No. / 編號

NL-52 00131627

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 / 温度 :

 $(23 \pm 2)^{\circ}$ 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

17 March 2014

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
- Rohde & Schwarz Laboratory, Germany

Tested By 測試

Project Engineer

Certified By 核證

K M Wu Engineer Date of Issue

20 March 2014

簽發日期

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Page 1 of 3



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C141622

證書編號

- 1. 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.
- 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:

Equipment ID CL280 CL281 <u>Description</u>
40 MHz Arbitrary Waveform Generator
Multifunction Acoustic Calibrator

Certificate No. C140016

- 5. Test procedure: MA101N.
- 6. Results:
- 6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

	UUT	Setting		Applied	d Value	UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)	1 011011	Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L _A	A	Fast	94.00	1	94.1	± 1.1

6.1.2 Linearity

	UU	Γ Setting	Applie	d Value	UUT	
Range	Function	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 130	L_{A}	A	Fast	94.00	1	94.1 (Ref.)
				104.00		104.1
				114.00		114.1

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

6.2 Time Weighting

	UUT	Setting		Applied Value		UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L_A	A	Fast	94.00	1	94.1	Ref.
			Slow			94.1	± 0.3

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Certificate No.: C141622

證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

Tr Weighting										
	UUT	Setting		Appl	ied Value	UUT	IEC 61672			
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.			
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)			
30 - 130	L_A	A	Fast	94.00	63 Hz	67.8	-26.2 ± 1.5			
					125 Hz	77.8	-16.1 ± 1.5			
					250 Hz	85.4	-8.6 ± 1.4			
					500 Hz	90.8	-3.2 ± 1.4			
					1 kHz	94.1	Ref.			
					2 kHz	95.3	$+1.2 \pm 1.6$			
					4 kHz	95.1	$+1.0 \pm 1.6$			
					8 kHz	93.0	-1.1 (+2.1; -3.1)			
					12.5 kHz	89.6	-4.3 (+3.0; -6.0)			

6.3.2 C-Weighting

C Weighting		Setting		Appli	ed Value	UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _A	C	Fast	94.00	63 Hz	93.2	-0.8 ± 1.5
					125 Hz	93.8	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.1	0.0 ± 1.4
					1 kHz	94.1	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	87.7	-6.2 (+3.0; -6.0)

Remarks: - UUT Microphone Model No.: UC-59 & S/N: 04663

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value: 94 dB: 63 Hz - 125 Hz $\pm 0.35 \, dB$

250 Hz - 500 Hz : $\pm 0.30 \text{ dB}$ 1 kHz $:\pm 0.20 \text{ dB}$ 2 kHz - 4 kHz $: \pm 0.35 \text{ dB}$ 8 kHz $: \pm 0.45 \text{ dB}$ 12.5 kHz $: \pm 0.70 \text{ dB}$

104 dB: 1 kHz $: \pm 0.10 \text{ dB (Ref. 94 dB)}$

114 dB: 1 kHz $: \pm 0.10 \text{ dB (Ref. 94 dB)}$

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

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Annex F

Event/Action Plans for Noise

Annex F Event and Action Plan for Noise

Event			Ac	tion			
	Environmental Team (ET)		dependent Environmental tecker (IEC)	A	uthorised Person (AP)	C	ontractor
Action Level	 Notify IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, AP and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness. 	3.	Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the AP accordingly; Supervise the implementation of remedial measures.	 2. 3. 4. 	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to proposed remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented.	1.	Submit noise mitigation proposals to IEC; Implement noise mitigation proposals.
Limit Level	 Identify source; Inform IEC and AP; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, AP and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and AP informed of the results; If exceedance stops, cease additional monitoring. 	2.	Discuss amongst AP, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the AP accordingly; Supervise the implementation of remedial measures.	 1. 2. 3. 4. 5. 	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; 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.	 1. 2. 3. 4. 5. 	Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the AP until the exceedance is abated.

Annex G

Summary of Implementation Status

Annex G Implementation Schedule for Environmental Protection Measures (1 May to 31 May 2014)

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Cultura	al Heritag	ge			
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.	In accordance with the recommendations in the Archaeological Action Plan (AAP) issued on 21 Dec 11 and approved on 30 Dec 11 by AMO	During detailed design and construction	No field work in the reporting month.
S3.9.2	S3.3.1	Vibration Monitoring 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.	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	Compliance of the Approved Measures and Auditing 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. 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	Whole site	Prior to and during construction	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		proposal of the regular audit such as methodology (e.g. performance 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. 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.			
S3.9.3	S3.3.4	Archival Recording 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 asbuilt 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.	Whole Site	During detailed design, construction and prior to operation	N/A – Archival recording will be conducted at later stage.
S3.7.3	-	General Construction Methods 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	Whole site	During construction	V

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S3.7.1 & 3.7.2	-	checked and confirmed by the contractor. Non-percussive piling 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. 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: • 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	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
	ipe & Visi	ıal			
S4.7.27	-	In-situ Tree Protection - Cordon Zone (CZ) 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.	Whole site	During construction	√ - Part of the cordon zone of Tree-5 has been used as a worker storage room. The Contractor was recommended to pay utmost attention to potential land pollution at the worker storage room at all times. Scaffolding has been set up close to Tree-5 within the cordon zone. The Contractor was reminded to perform proper measures to protect Tree-5 during the carrying out of works within the cordon zone.
S4.7.2	-	In-situ Tree Protection - Advanced & Phased Root Pruning 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.	Whole site	During construction	N/A – no root pruning has been conducted yet
S4.7.2	-	In-situ Tree Protection - Foliage cleansing system 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	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	<u>In-situ Tree Protection - Monthly inspection</u> Monthly inspection of affected trees by an experienced and	Whole site	During construction	\checkmark
		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.			
S4.7.2	-	<u>Light Control</u> Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.	Whole site	During construction and operation	√
S4.7.2	S4	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. 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	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
		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.			
		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 (<i>Table 4.3</i>), 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			
		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::			
		 Bauhinia '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.			
		 Bauhinia variegata, 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	Vertical Greening	Inner Southern Wall	During detailed design and	N/A – No vertical greening was conducted during the reporting month.
		Within the limitations of the conservation of the CPS character, greening of vertical structures should be provided where possible.		construction	
		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			

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 exiting 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	-	New Custom Paving 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	In-situ Tree Protection - Quarterly inspection 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.
Noise	•				
S5.9	-	 The following site practices should be followed during the construction of the Project: 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	√ ·

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		 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	√ ·
Air Qu S6.8.1	ality -	Dust control measures stipulated in the <i>Air Pollution Control</i> (<i>Construction Dust</i>) <i>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	$\sqrt{}$
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	V
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	V
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	V
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	V
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	V

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	V
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	V
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	√
Water (Quality		l	1	
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</i> of <i>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	V
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	V
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	V
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	V
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	√ ·
Waste 1	Manageme	, ,	1	1	
S8.5	\$6.3.1 & Table 6.1	General 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	-	Management of Waste Disposal 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	1
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	V
S8.5	S6.3	Reduction of Construction Waste Generation 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	V
S8.5	S6	 Containers used for storage of chemical waste shall: 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</i> of the <i>Regulations</i>. 	Whole Site	During construction and operation	V
S8.5	S6	 Storage areas for chemical waste shall: 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	√ ·
S8.5	S6 & Table 6.1	General Refuse 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	V
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	Staff Training 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	Commencement 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
- Δ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd
- N/A Not Applicable in Reporting Period

Annex G Implementation Schedule for Environmental Protection Measures (1 June to 30 June 2014)

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Cultura	al Heritag	ge			
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.	In accordance with the recommendations in the Archaeological Action Plan (AAP) issued on 21 Dec 11 and approved on 30 Dec 11 by AMO	During detailed design and construction	No field work in the reporting month.
S3.9.2	S3.3.1	Vibration Monitoring 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.	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	Compliance of the Approved Measures and Auditing 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. 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	Whole site	Prior to and during construction	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		proposal of the regular audit such as methodology (e.g. performance 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. 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.			
S3.9.3	S3.3.4	Archival Recording 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 asbuilt 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.	Whole Site	During detailed design, construction and prior to operation	N/A – Archival recording will be conducted at later stage.
S3.7.3	-	General Construction Methods 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	Whole site	During construction	V

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S3.7.1 & 3.7.2	-	checked and confirmed by the contractor. Non-percussive piling 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. 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: • 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	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
	ipe & Visi	ıal			
S4.7.27	-	In-situ Tree Protection - Cordon Zone (CZ) 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.	Whole site	During construction	√ - Part of the cordon zone of Tree-5 has been used as a worker storage room. The Contractor was recommended to pay utmost attention to potential land pollution at the worker storage room at all times. Scaffolding has been set up close to Tree-5 within the cordon zone. The Contractor was reminded to perform proper measures to protect Tree-5 during the carrying out of works within the cordon zone.
S4.7.2	-	In-situ Tree Protection - Advanced & Phased Root Pruning 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.	Whole site	During construction	N/A – no root pruning has been conducted yet
S4.7.2	-	In-situ Tree Protection - Foliage cleansing system 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	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	In-situ Tree Protection - Monthly inspection Monthly inspection of affected trees by an experienced and	Whole site	During construction	√
		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.			
S4.7.2	-	<u>Light Control</u> Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.	Whole site	During construction and operation	√
S4.7.2	S4	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. 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	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
		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.			
		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			
		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::			
		 Bauhinia 'Blakeana' a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring. 			
		 Bauhinia purpure, a native evergreen with lighter purple flowers from late autumn to early winter. 			
		 Bauhinia variegata, 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	Vertical Greening	Inner Southern Wall	During detailed design and	N/A – No vertical greening was conducted during the reporting month.
		Within the limitations of the conservation of the CPS character, greening of vertical structures should be provided where possible.		construction	
		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			

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 exiting 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	-	New Custom Paving 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	In-situ Tree Protection - Quarterly inspection 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.
Noise					
S5.9	-	 The following site practices should be followed during the construction of the Project: 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	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		 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	1
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	√ ·
Air Qu S6.8.1		Dust control measures stipulated in the <i>Air Pollution Control</i> (<i>Construction Dust</i>) <i>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	$\sqrt{}$
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	V
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	V
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	V
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	V
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	V

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	V
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	V
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	√
Water (Quality		l	1	
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</i> of <i>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	V
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	V
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	V
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	V
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	√
Waste N	Manageme	nt			
S8.5	\$6.3.1 & Table 6.1	General 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	-	Management of Waste Disposal 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	V
S8.5	S6.3	Reduction of Construction Waste Generation 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	V
S8.5	S6	 Containers used for storage of chemical waste shall: 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</i> of the <i>Regulations</i>. 	Whole Site	During construction and operation	V
S8.5	S6	 Storage areas for chemical waste shall: 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	√
S8.5	S6 & Table 6.1	General Refuse 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	Staff Training 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	Commencement 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
- Δ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd
- N/A Not Applicable in Reporting Period

Annex G Implementation Schedule for Environmental Protection Measures (1 July to 31 July 2014)

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Cultura	al Heritag	ge			
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.	In accordance with the recommendations in the Archaeological Action Plan (AAP) issued on 21 Dec 11 and approved on 30 Dec 11 by AMO	During detailed design and construction	No field work in the reporting month.
S3.9.2	S3.3.1	Vibration Monitoring 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.	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	Compliance of the Approved Measures and Auditing 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. 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	Whole site	Prior to and during construction	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		proposal of the regular audit such as methodology (e.g. performance 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. 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.			
S3.9.3	S3.3.4	Archival Recording 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 asbuilt 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.	Whole Site	During detailed design, construction and prior to operation	N/A – Archival recording will be conducted at later stage.
S3.7.3	-	General Construction Methods 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	Whole site	During construction	V

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S3.7.1 & 3.7.2	-	checked and confirmed by the contractor. Non-percussive piling 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. 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: • 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	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				
	ndscape & Visual								
S4.7.27	-	In-situ Tree Protection - Cordon Zone (CZ) 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.	Whole site	During construction	√ - Part of the cordon zone of Tree-5 has been used as a worker storage room. The Contractor was recommended to pay utmost attention to potential land pollution at the worker storage room at all times. Scaffolding has been set up close to Tree-5 within the cordon zone. The Contractor was reminded to perform proper measures to protect Tree-5 during the carrying out of works within the cordon zone.				
S4.7.2	-	In-situ Tree Protection - Advanced & Phased Root Pruning 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.	Whole site	During construction	N/A – no root pruning has been conducted yet				
S4.7.2	-	In-situ Tree Protection - Foliage cleansing system 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	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	In-situ Tree Protection - Monthly inspection 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	Whole site	During construction	√
S4.7.2	-	protected trees, must be reported to the authorized person or the tree expert within two days. Light Control Control of night-time lighting shall be implemented to minimise impact	Whole site	During construction and operation	√
S4.7.2	S4	to adjacent VSRs. Compensatory Tree Planting 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. 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	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
		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.			
		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 (<i>Table 4.3</i>), 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			
		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::			
		 Bauhinia '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.			
		 Bauhinia variegata, 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	Vertical Greening	Inner Southern Wall	During detailed design and	N/A – No vertical greening was conducted during the reporting month.
		Within the limitations of the conservation of the CPS character, greening of vertical structures should be provided where possible.		construction	
		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			

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 exiting 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	-	New Custom Paving 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	In-situ Tree Protection - Quarterly inspection 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.
Noise					
S5.9	-	 The following site practices should be followed during the construction of the Project: 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	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		 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	√ ·
Air Qu S6.8.1	ality -	Dust control measures stipulated in the <i>Air Pollution Control</i> (<i>Construction Dust</i>) <i>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	$\sqrt{}$
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	V
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	V
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	V
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	V
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	V

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	V
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	V
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	√
Water (Quality				
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</i> of <i>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	V
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	V
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	V
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	V
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	√ ·
Waste 1	Manageme	nt	1	1	
S8.5	\$6.3.1 & Table 6.1	General 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	-	Management of Waste Disposal 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	V
S8.5	S6.3	Reduction of Construction Waste Generation 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	V
S8.5	S6	 Containers used for storage of chemical waste shall: 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</i> of the <i>Regulations</i>. 	Whole Site	During construction and operation	V
S8.5	S6	 Storage areas for chemical waste shall: 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	√
S8.5	S6 & Table 6.1	General Refuse 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	Staff Training 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	Commencement 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
- $\blacktriangle \qquad \text{Non-compliance of Mitigation Measures but rectified by Gammon Construction Ltd} \\$
- Δ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd
- N/A Not Applicable in Reporting Period

Annex H

Noise Monitoring Results

Annex H Noise Monitoring Results

Daytime Noise Monitoring Results

NM6 Chancery Mansion

Date	Start Time	End Time	Weather	Noise	level (dB(A))	, 30 min	Major Construction Noise Source(s) Observed	Other Noise Source(s)	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID
				Leq	L10	L90		Observed		` '		
05-May-14	9:42	10:12	Cloudy	68.3	69.7	66.2	Interior fitting, crawler crane (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
10-May-14	11:35	12:05	Cloudy	66.0	67.4	63.8	Interior fitting, crawler crane (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
16-May-14	9:43	10:13	Cloudy	67.1	68.6	64.3	Interior fitting, crawler crane (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
22-May-14	9:58	10:28	Cloudy	66.5	67.9	65.0	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
28-May-14	10:10	10:40	Sunny	67.7	69.0	65.6	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
			Min.	66.0								
			Max.	68.3								

NM2 Ho Fook Building

				Noise	level (dB(A)), 30 min	Maior Construction Noise	Other Noise		Wind Speed	Noise Meter	Calibrator
Date	Start Time	End Time	Weather	Leq	L10	L90	Source(s) Observed	Source(s) Observed	Remarks	(m/s)	Model / ID	Model / ID
05-May-14	10:20	10:50	Cloudy	70.2	71.8	67.6	Interior fitting, lifting within the project site)	Traffic noise	-	0.5	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
10-May-14	13:00	13:30	Cloudy	69.7	71.4	66.9	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
16-May-14	10:20	10:50	Cloudy	66.5	68.2	63.6	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
22-May-14	10:35	11:05	Cloudy	68.0	70.8	64.6	Lifting, interior fitting (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)
28-May-14	10:48	11:18	Sunny	69.4	70.8	67.2	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00410224)	RION - NC73 (S/N 10786708)

Min. 66.5 Max. 70.2

Annex H Noise Monitoring Results

Daytime Noise Monitoring Results

NM6 Chancery Mansion

Date	Start Time	End Time	Weather	Noise	level (dB(A)), 30 min	Major Construction Noise Source(s) Observed	Other Noise Source(s)	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID
				Leq	L10	L90	` '	Observed		, ,		
03-Jun-14	10:08	10:38	Fine	66.7	68.2	64.3	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
09-Jun-14	9:43	10:13	Sunny	66.8	67.7	65.7	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
14-Jun-14	9:50	10:20	Sunny	66.6	68.2	64.2	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
20-Jun-14	13:00	13:30	Cloudy	67.1	68.6	65.3	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
26-Jun-14	10:28	10:58	Sunny	68.2	69.5	66.8	Interior fitting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
	•		Min.	66.6								
			Max.	68.2								

NM2 Ho Fook Building

				Noise	level (dB(A)), 30 min	Maior Construction Noise	Other Noise		Wind Speed	Noise Meter	Calibrator
Date	Start Time	End Time	Weather	Leq	L10	L90	Source(s) Observed	Source(s) Observed	Remarks	(m/s)	Model / ID	Model / ID
03-Jun-14	10:45	11:15	Fine	68.4	70.2	65.5	Interior fitting, lifting within the project site)	Traffic noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
09-Jun-14	10:20	10:50	Sunny	69.6	71.0	66.2	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
14-Jun-14	10:27	10:57	Sunny	68.3	69.7	65.3	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
20-Jun-14	13:38	14:08	Cloudy	71.9	73.7	68.6	Lifting, interior fitting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
26-Jun-14	8:34	9:04	Sunny	69.0	70.6	65.5	Interior fitting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)

Min. 68.3 Max. 71.9

Annex H Noise Monitoring Results

Daytime Noise Monitoring Results

NM6 Chancery Mansion

Date	Start Time	End Time	Weather	Noise	level (dB(A)), 30 min	Major Construction Noise Source(s) Observed	Other Noise Source(s)	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID
				Leq	L10	L90	(0)	Observed		()		
02-Jul-14	10:14	10:44	Sunny	67.8	69.9	65.3	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
08-Jul-14	10:14	10:44	Sunny	69.1	70.6	67.0	Interior fitting, lifting, steel bending (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
14-Jul-14	10:17	10:47	Sunny	70.1	71.5	68.1	Interior fitting, lifting, steel bending (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
19-Jul-14	10:20	10:50	Sunny	69.9	71.5	67.1	Lifting, steel bending (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
25-Jul-14	10:30	11:00	Sunny	69.5	71.2	67.5	Lifting, steel bending (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
31-Jul-14	10:18	10:48	Sunny	69.8	71.5	66.7	Lifting, interior fitting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
			Min.	67.8								

Max. 70.1

NM2 Ho Fook Building

Time End Ti	Time Weather	Noise Leg	level (dB(A)), 30 min	Major Construction Naise	Other Noise				
IIME ENG III	ime weather	Lea					B	Wind Speed	Noise Meter	Calibrator
			L10	L90	Source(s) Observed	Source(s) Observed	Remarks	(m/s)	Model / ID	Model / ID
2 8:52	52 Sunny	68.0	69.7	65.3	Interior fitting (within the project site)	Traffic noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
3 8:53	53 Sunny	69.9	72.0	66.9	Interior fitting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
5 8:55	55 Sunny	65.3	67.0	63.7	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10786708)
8 8:58	58 Sunny	65.6	66.7	63.7	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
6 8:56	56 Sunny	69.3	70.3	67.1	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
5 8:55	,	69.8	71.2	66.0	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
5	3 8:6 5 8:6 8 8:6	3 8:53 Sunny 5 8:55 Sunny 6 8:56 Sunny 5 8:55 Sunny	8:53 Sunny 69.9 8:55 Sunny 65.3 8:58 Sunny 65.6 8:56 Sunny 69.3 5 8:55 Sunny 69.8	3 8:53 Sunny 69.9 72.0 5 8:55 Sunny 65.3 67.0 8 8:58 Sunny 65.6 66.7 6 8:56 Sunny 69.3 70.3 5 8:55 Sunny 69.8 71.2	3 8:53 Sunny 69.9 72.0 66.9 5 8:55 Sunny 65.3 67.0 63.7 8 8:58 Sunny 65.6 66.7 63.7 6 8:56 Sunny 69.3 70.3 67.1 5 8:55 Sunny 69.8 71.2 66.0	2 8:52 Sunny 68.0 69.7 65.3 project site) 3 8:53 Sunny 69.9 72.0 66.9 Interior fitting (within the project site) 5 8:55 Sunny 65.3 67.0 63.7 Interior fitting, lifting (within the project site) 3 8:58 Sunny 65.6 66.7 63.7 Interior fitting, lifting (within the project site) 6 8:56 Sunny 69.3 70.3 67.1 Interior fitting, lifting (within the project site) 5 8:55 Sunny 69.8 71.2 66.0 Interior fitting, lifting (within the project site)	8:52 Sunny 69.0 69.7 65.3 project site) 1 Interior fitting, lifting (within the project site) 1 Traffic Noise 1 Sunny 69.9 72.0 66.9 Interior fitting, lifting (within the project site) 2 Sunny 65.3 67.0 63.7 Interior fitting, lifting (within the project site) 3 Sunny 65.6 66.7 63.7 Interior fitting, lifting (within the project site) 4 Traffic Noise 5 Sunny 69.3 70.3 67.1 Interior fitting, lifting (within the project site) 5 Sunny 69.8 71.2 66.0 Interior fitting, lifting (within the project site) 7 Traffic Noise	Sunny	Sunny	Sunny Sunn

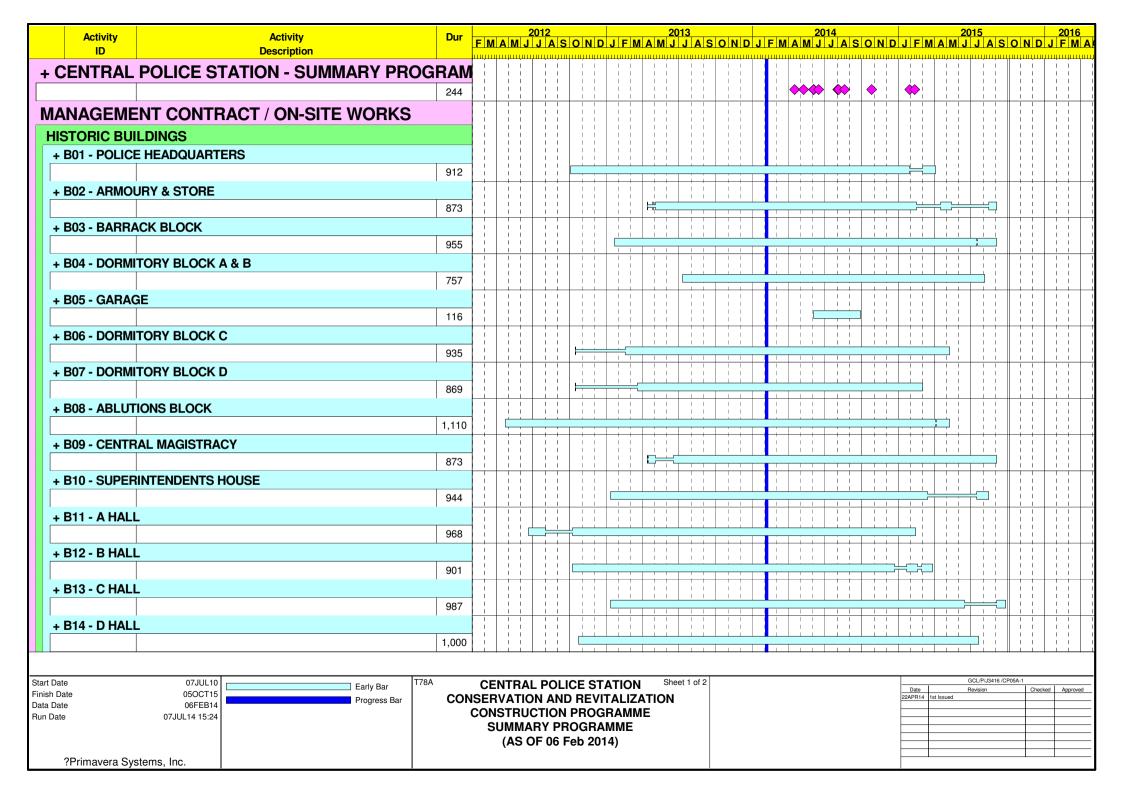
Min. 65.3 Max. 69.9

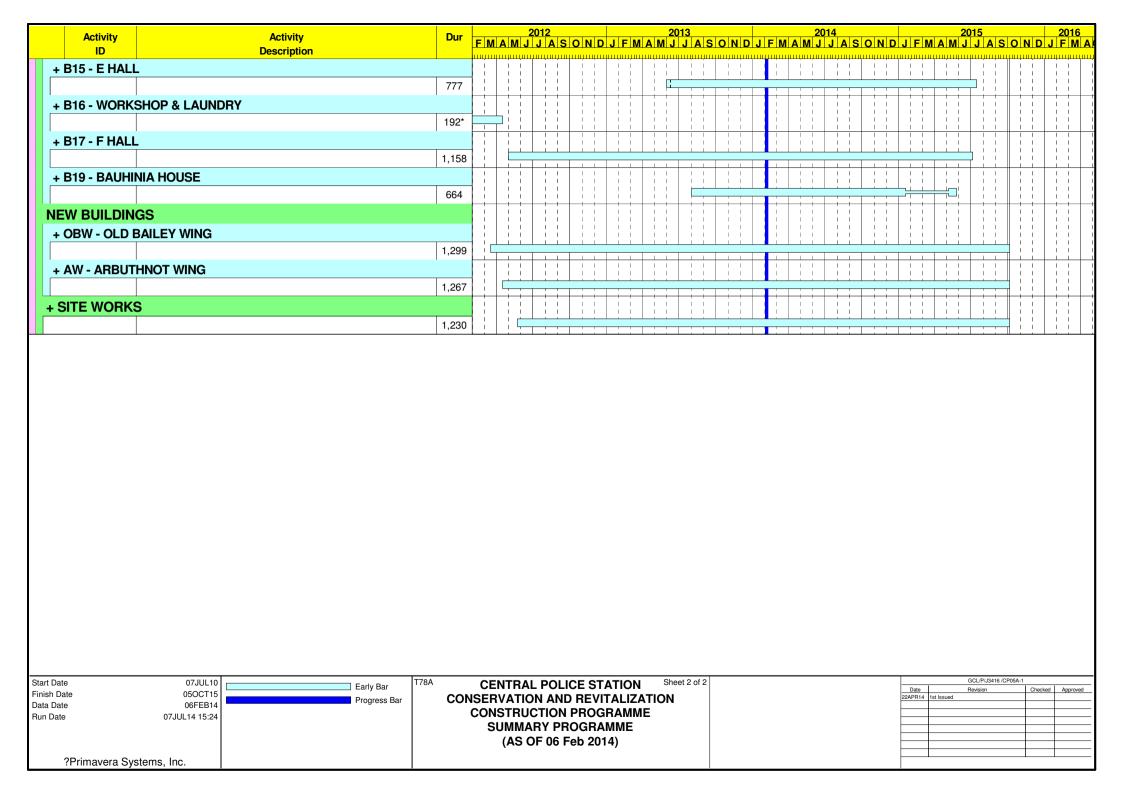




Annex I

Construction Programme of the Project





Annex J

Waste Flow Table

Annex J – Waste Flow Table

Month / Year					Qι	ıantity					
	C&D Materials (inert) (tonnes) (a)	Number of Trucks for C&D Materials Disposal (inert)	Volume of C&D Materials (inert) (m³) (c)		Number of Trucks for C&D Materials Disposal (non-inert)	Materials (non-		Chemical Waste (Liquid/L)	Recycled materials		
		Disposar (mert)	(m ⁻)	(tonnes)	Disposar (non-mert)	inert) (m ³) (c)	/kg)	(Liquid/L)	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
anuary-12	354.14	40	195.00	16.88	5	24.38	2400	0	0	0	3820
ebruary-12	252.35	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
une-12	383.11	45	219.38	27.41	8	39.00	40	45	0	0	1100
uly-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
eptember-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
lovember-12	843.86	100	487.50	47.44	15	73.13	0	0	0	0	5650
December-12	207.5	27	131.63	88.66	28	136.50	0	0	0	0	27230
anuary-13	273.64	34	165.75	276.17	74	360.75	0	0	172	0	8120
ebruary-13	945.97	131	638.63	177.54	46	224.25	0	0	0	0	1080
March-13	1236.96	151	736.13	230.55	60	292.50	0	0	164	0	11300
April-13	1406.79	187	911.63	232.27	63	307.13	135	12	225	0	21220
/lay-13	2679.91	317	1545.38	176.68	44	214.50	0	0	62	0	17286
ine-13	3062.38	356	1735.50	212.63	56	273.00	0	0	0	0	7150
aly-13	3814.86	465	2266.88	114.36	43	209.63	0	0	168	0	14843
August-13	2831.78	353	1720.88	89.23	25	121.88	0	0	0	0	7190
eptember-13	979.49	141	687.38	103.73	29	141.38	40	0	0	0	4030
October-13	2170.54	270	1316.25	157.48	41	199.88	135	0	0	0	3120
lovember-13	836.74	109	531.38	191.58	44	214.50	0	0	202	0	18486
December-13	2606.76	296	1443.00	192.54	49	238.88	0	0	0	0	10041
nuary-14	3813.53	400	1950.00	97.87	36	175.50	0	0	0	0	14110
ebruary-14	3378.16	316	1540.50	37.84	14	68.25	0	0	0	0	9800
farch-14	5256.15	516	2515.50	89.39	31	151.13	0	0	6000	0	19030
April-14	3006	299	1457.63	114.31	33	160.88	45	0	0	0	6950
Лау-14	3195.53	310	1511.25	119.54	37	180.38	0	0	0	0	7000
ine-14	2176.81	205	999.38	148.8	45	219.38	0	0	242	0	11350
uly-14	1009.96	111	541.13	147.36	49	238.88	0	0	0	0	3300
Tota	al 49648.49	5529	26953.875	3381.99	969	4723.88	7395	57	8645	6	483679

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 K

Environmental Complaint, Environmental Summons and Prosecution Log

Annex K 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
November 2012	2	0
December 2012	0	0
January 2013	0	0
February 2013	1	0
March 2013	1	0
April 2013	0	0

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
May 2013	0	0
June 2013	0	0
July 2013	0	0
August 2013	0	0
September 2013	0	0
October 2013	0	0
November 2013	0	0
December 2013	0	0
January 2014	2	0
February 2014	1	0
March 2014	1	0
April 2014	1	0
May 2014	0	0
June 2014	0	0
July 2014	2	0
Overall Total	18	0









Central Police Station Conservation and Revitalisation Project



COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

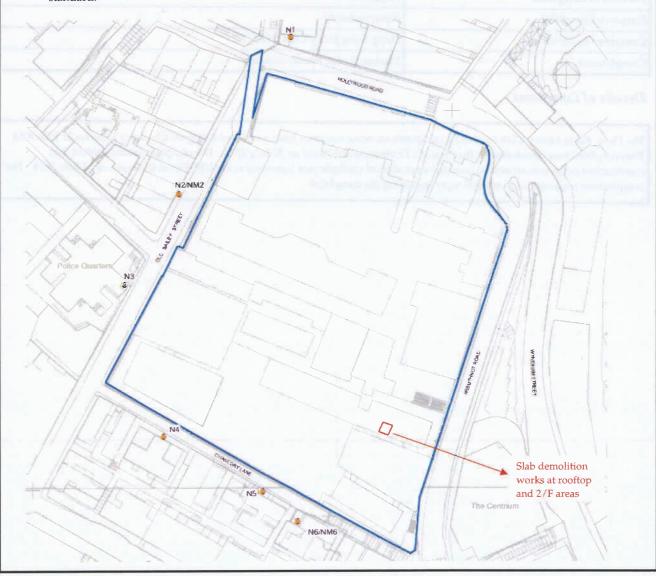
Log Number:	2014/07/001
Date of Complaint Received	21 July 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Hong Kong Jocky Club (HKJC)
Complainant	

Details of Complaint

The Hong Kong Jockey Club received a complaint on noise nuisance from a resident living on Chancery Lane on 21 July 2014. The complaint was transferred to the Project's Environmental Team on 22 July 2014. The complainant mentioned that construction noise was emanated from the operation of multiple jack hammers at the CPS Site in the week of 14 July 2014. The complainant requested a phone call reply regarding the complaint.

Investigation Report

- 1. According to the Contractor's works summary, demolition of slab for lift shaft construction using hand-held breakers (>10kg) at Block 14 were being carried out in the week of 14 July 2014 during normal working hours. The location of the mentioned demolition works is shown in the figure below.
- 2. A number of hand-held breakers (>10kg) were being operated for slab demolition on the rooftop and 2/F of Block 14. The slab demolition works have been completed.
- 3. The noise nuisance mentioned by the complainant is likely to be related to the demolition works that were carried out on the rooftop of Block 14.
- 4. Weekly daytime noise monitoring at designated noise monitoring stations (NM2 and NM6) are conducted according to EM&A requirement. Noise monitoring results in the past 4 weeks showed compliance with the construction noise standard.



Mitigation Measures and Follow-up Actions Recommended to Contractor

All construction works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor was recommended to install acoustic silencers to the hand-held breakers during breaking and demolition works to reduce noise generated at source. According to findings of investigation, the potential noise nuisance is suspected to be related to the demolition works on rooftop areas on which nearby noise sensitive receivers have direct line of sight. The Contractor was reminded to erect portable noise barriers or acoustic curtains, as far as practicable, when engaging in breaking works or other noisy works in open areas to minimise potential noise nuisance to nearby residents. Furthermore, the Contractor has returned call to complainant to explain the situation and the possible noise mitigation measures to be employed in the future.

Date of File Closed:

25 July 2014

Approved by:

ET Leader

IEC

ICCPS's

Representative

Rocco Design

Architect's Representative

(Name: Winnie Ko)

Date: 25 July 2014

(Name: Sharifah Or)

Date: 25 July 2014

(Name: CWShan) Date: 28 July

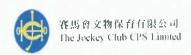
(Name:

Gammon's Representative

(Name: CUFF With Date:

2014.07. W









Central Police Station Conservation and Revitalisation Project



COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

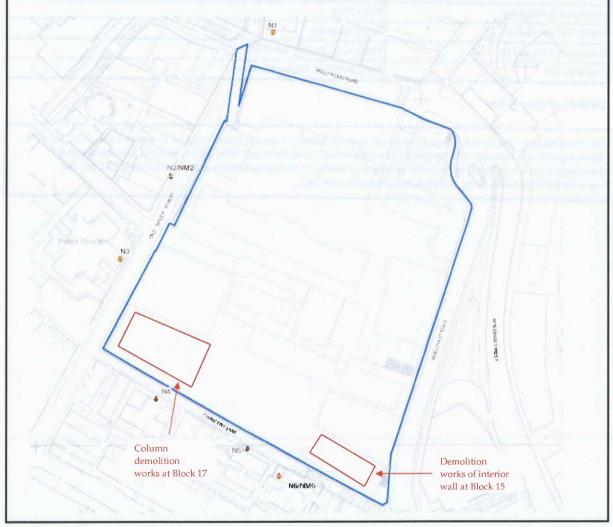
Log Number:	2014/07/002
Date of Complaint Received	25 July 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Hong Kong Jocky Club (HKJC)
Complainant	

Details of Complaint

The Hong Kong Jockey Club received a complaint on noise nuisance from a resident living on Chancery Lane on 25 July 2014. The complaint was transferred to the Project's Environmental Team on 28 July 2014. The complainant mentioned that construction noise was emanated from the operation of multiple jack hammers at the prison area of the CPS Site. The complainant requested a phone call reply regarding the complaint.

Investigation Report

- According to the Contractor's works summary, interior wall demolition at Block 15 and column demolition at Block 17
 were being carried out in the week of 21 July 2014 during normal working hours. The noise nuisance mentioned by the
 complainant is likely to be related to the demolition works at Block 15 and Block 17. The location of the mentioned
 demolition works is shown in the figure below.
- 2. A number of hand-held breakers (>10kg) were being operated for the above-mentioned demolition works at Block 15 and Block 17. All demolition works were being conducted inside the buildings. According to the Contractor, the demolition works at Block 15 and Block 17 will be completed within the next 1 to 2 months.
- Weekly daytime noise monitoring at designated noise monitoring stations (NM2 and NM6) are conducted according to EM&A requirement. Noise monitoring results in the past 4 weeks showed compliance with the construction noise standard.



Mitigation Measures and Follow-up Actions Recommended to Contractor

All construction works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor has implemented noise mitigation measures in response to the complaint. Acoustic curtains has been erected at the south and west elevations of Block 15, and at the entrance opening and windows areas of Block 17 to shield the direct line of sight and reduce the noise nuisance to nearby noise sensitive receivers along the Chancery Lane. Locations of the erected acoustic curtains are shown in the figure below. The Contractor was also recommended to install acoustic silencers to the hand-held breakers during breaking and demolition works to reduce noise generated at source. On 26 July 2014, the Contractor has returned call to complainant to explain the situation and the noise mitigation measures that are currently in place.



Date of File Closed:

30 July 2014

Approved by:

ET Leader

IEC

JCCPS's Representative Rocco Design Architect's Representative

(Name: Winnie Ko)

Date: 30 July 2014

(Name: Sharifah Or) Date: 31 July 2014

(Name: CWSham)

Date: 31 July 2014

(Name:

Date:

Gammon's Representative

(Name: CUFT (EVA))
Date: 2014. 07. 30

Annex L

Records of Vibration Monitoring for Trial Piling and Piling Works





Vibration Monitoring Record (MAY)

	Parade Ground					
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	
Date	mm/s	mm/s	mm/s	mm/s	mm/s	
01-May-14			Holiday			
02-May-14	0.439	0.760	0.369	0.687	0.316	
03-May-14	0.217	0.283	0.138	0.384	0.176	
04-May-14			Sunday			
05-May-14	0.251	0.251	0.143	0.087	0.087	
06-May-14			Holiday			
07-May-14	0.193	0.205	0.169	0.159	0.112	
08-May-14	0.349	0.083	0.117	0.327	0.098	
09-May-14	0.259	0.164	0.271	0.314	0.241	
10-May-14	0.338	0.141	0.261	0.624	0.228	
11-May-14			Sunday			
12-May-14	0.341	0.254	0.595	0.431	0.272	
13-May-14	0.087	0.087	0.106	0.102	0.090	
14-May-14	0.095	0.268	0.111	0.196	0.144	
15-May-14	0.571	0.236	0.145	0.102	0.164	
16-May-14	0.175	0.172	0.132	0.095	0.647	
17-May-14	0.663	0.208	0.156	0.351	0.191	
18-May-14			Sunday			
19-May-14	0.438	0.423	0.242	0.304	0.333	
20-May-14	0.128	0.145	0.421	0.176	0.802	
21-May-14	0.164	0.251	0.235	0.199	0.204	
22-May-14	0.103	0.117	0.194	0.678	0.192	
23-May-14	0.124	0.146	0.162	0.162	0.137	
24-May-14	0.193	0.281	0.116	0.371	0.265	
25-May-14			Sunday			
26-May-14	0.209	0.208	0.209	0.416	0.310	
27-May-14	0.307	0.652	0.574	0.423	0.739	
28-May-14	0.150	0.147	0.108	0.290	0.203	
29-May-14	0.539	0.370	0.194	0.214	0.244	
30-May-14	0.349	0.319	0.406	0.259	0.247	
31-May-14	0.128	0.227	0.117	0.223	0.381	



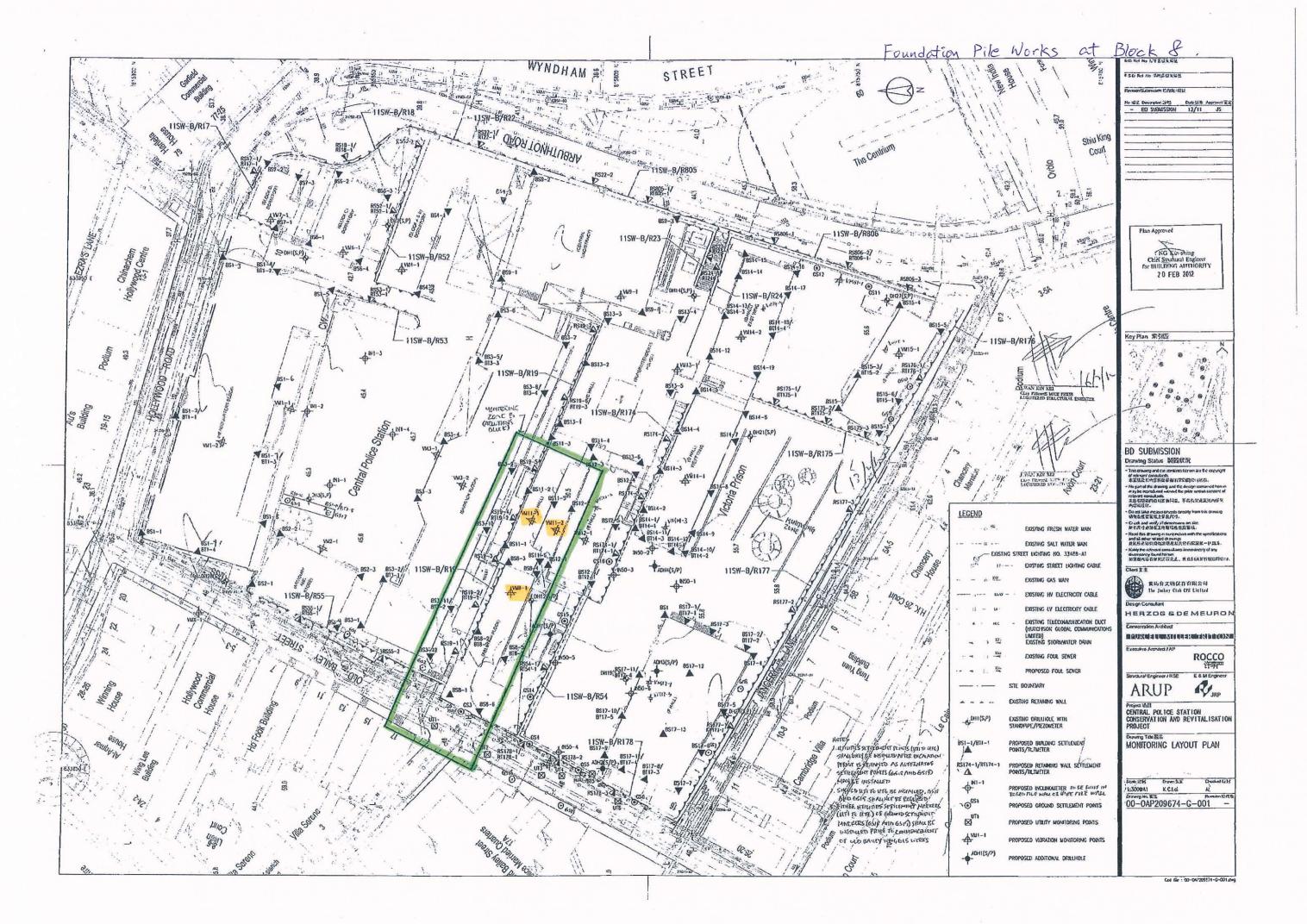
Vibration Monitoring Record (JUNE)

	Parade Ground				
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Jun-14			Sunday		
02-Jun-14			Holiday		
03-Jun-14	0.429	0.444	0.392	0.430	0.365
04-Jun-14	0.361	0.228	0.176	0.339	0.216
05-Jun-14	0.169	0.281	0.310	0.185	0.167
06-Jun-14	0.132	0.201	0.177	0.244	0.298
07-Jun-14	0.398	0.196	0.639	0.285	0.266
08-Jun-14			Sunday		
09-Jun-14	0.281	0.359	0.354	0.114	0.139
10-Jun-14	0.346	0.160	0.106	0.137	0.166
11-Jun-14	0.240	0.318	0.371	0.570	0.150
12-Jun-14	0.137	0.097	0.209	0.098	0.164
13-Jun-14	0.206	0.171 0.305		0.286	0.225
14-Jun-14	0.120	0.395	0.200	0.093	0.102
15-Jun-14			Sunday		
16-Jun-14	0.648	0.319	0.208	0.106	0.103
17-Jun-14	0.102	0.402	0.216	0.128	0.243
18-Jun-14	0.105	0.761	0.189	0.208	0.106
19-Jun-14	0.198	0.165	0.256	0.171	0.794
20-Jun-14	0.151	0.186	0.164	0.291	0.220
21-Jun-14	0.395	0.172	0.202	0.635	0.196
22-Jun-14			Sunday		
23-Jun-14	0.904	0.306	0.290	0.176	0.700
24-Jun-14	0.154	0.166	0.158	0.335	0.157
25-Jun-14	0.291	0.118	0.221	0.396	0.152
26-Jun-14	0.395	0.298	0.146	0.285	0.124
27-Jun-14	0.212	0.138	0.197	0.632	0.241
28-Jun-14	0.281	0.191	0.400	0.184	0.177
29-Jun-14		<u>-</u>	Sunday	<u>-</u>	-
30-Jun-14	0.311	0.197	0.173	0.491	0.205



Vibration Monitoring Record (JULY)

	Parade Ground					
Point	oint VM1-1 VM1-2 VM2-1		VM2-1	VM3-1	VM3-2	
Date	mm/s	mm/s	mm/s	mm/s	mm/s	
01-Jul-14			Sunday			
02-Jul-14	0.209	0.153	0.176	0.309	0.176	
03-Jul-14	0.206	0.573	0.166	0.225	0.249	
04-Jul-14	0.207	0.452	0.194	0.242	0.223	
05-Jul-14	0.247	0.317	0.242	0.598	0.251	
06-Jul-14			Sunday			
07-Jul-14	0.365	0.284	0.174	0.296	0.192	
08-Jul-14	0.216	0.237	0.359	0.364	0.363	
09-Jul-14	0.197	0.313	0.521	0.168	0.193	
10-Jul-14	0.325	0.184	0.229	0.531	0.164	
11-Jul-14	0.073	0.073	0.104	0.131	0.081	
12-Jul-14	4 0.168 0.117 0.291 0.44		0.443	0.154		
13-Jul-14			Sunday			
14-Jul-14	0.394	0.221	0.199	0.261	0.173	
15-Jul-14	0.369	0.184	0.184	0.289	0.520	
16-Jul-14	0.241	0.192	0.341	0.164	0.254	
17-Jul-14	0.394	0.284	0.213	0.147	0.263	
18-Jul-14	0.641	0.258	0.164	0.164	0.326	
19-Jul-14	0.319	0.154	0.165	0.551	0.134	
20-Jul-14		•	Sunday			
21-Jul-14	0.360	0.112	0.112	0.627	0.078	
22-Jul-14	0.086	0.086	0.081	0.081	0.086	
23-Jul-14	0.086	0.059	0.066	0.129	0.413	
24-Jul-14	0.086	0.081	0.518	0.139	0.086	
25-Jul-14	0.106	0.121	0.096	0.331	0.129	
26-Jul-14	0.089	0.162	0.087	0.221	0.103	
27-Jul-14			Sunday			
28-Jul-14	0.162	0.099	0.172	0.138	0.334	
29-Jul-14	0.083	0.073	0.081	0.073	0.135	
30-Jul-14	0.086	0.048	0.066	0.066	0.462	
31-Jul-14	0.121	0.192	0.088	0.185	0.094	



Win Win Way Construction Company Ltd.

Trigger Levels

(Block 8 Foundation)

Monitoring Check Pts.	Trigger Levels				
monitoring check I to.	Alert level	Alarm level	Action level		
Vibrating 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		

Project Title: Central Police Station Conservation & Revitalization					Project No: WP201	1-May-2014	to	31-May-2014	
POINT		VM8-1	VM11-1#	VM11-2					
DATE	PD/(m)	mm/s	mm/s	mm/s					
19-Jun-2012 (Init	tial)	0.56	0.13	0.19					
1-May-2014					Holiday				
2-May-2014		0.72	0.50	0.48					
3-May-2014		0.71	0.48	0.49					
4-May-2014					Sunday				
5-May-2014		0.83	0.52	0.34					
6-May-2014					Holiday				
7-May-2014		0.75	0.49	0.55					
8-May-2014		0.74	0.46	0.54					
9-May-2014		0.77	0.47	0.53					
10-May-2014		0.76	0.49	0.51					
11-May-2014					Sunday				
12-May-2014		0.75	0.48	0.52					
13-May-2014		0.74	0.46	0.53					
14-May-2014		0.73	0.47	0.51					
15-May-2014		0.78	0.46	0.50					
16-May-2014		0.76	0.45	0.49					
17-May-2014		0.75	0.43	0.42					
18-May-2014					Sunday	Sunday			
19-May-2014		0.77	0.44	0.48					
20-May-2014		0.75	0.46	0.47					
21-May-2014		0.76	0.45	0.46					
22-May-2014		0.74	0.47	0.47					
23-May-2014		0.75	0.43	0.45					
24-May-2014		0.73	0.40	0.43					
25-May-2014			Sunday						
26-May-2014		0.73	0.38	0.43					
27-May-2014		0.74	0.37	0.41					
28-May-2014		0.75	0.36	0.43					
29-May-2014		0.72	0.38	0.42					
30-May-2014		0.73	0.36	0.40					

Win Win Way Construction Company Ltd.

Trigger Levels						
Alert level	Alarm level	Action level				

(Block 8 Foundation)

Monitoring Check Pts.	Trigger Levels				
	Alert level	Alarm level	Action level		
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s		
#Vibration at largest span of	5.0mm/s	6.0mm/s	7.5mm/s		
highest Structural level	J.OIIIII/8	0.011111/5	8 (1111116.1		

Project Title: Central Police Station Conservation & Revitalization				Project No: WP201	Project No: WP201 1-Jun-2014 to			
POINT	[VM8-1	VM11-1#	VM11-2				
DATE	PD/(m)	mm/s	mm/s	mm/s				
19-Jun-2012	(Initial)	0.56	0.13	0.19				
1-Jun-2014					Sunday			
2-Jun-2014					Holiday			
3-Jun-2014		0.75	0.286	0.174				
4-Jun-2014		0.76	0.223	0.351				
5-Jun-2014		0.71	0.612	0.179				
6-Jun-2014		0.70	0.143	0.120				
7-Jun-2014		0.69	0.150	0.162				
8-Jun-2014					Sunday			
9-Jun-2014		0.67	0.239	0.209				
10-Jun-2014		0.65	0.098	0.209				
11-Jun-2014		0.64	0.139	0.112				
12-Jun-2014		0.66	0.095	0.102				
13-Jun-2014		0.63	0.221	0.271				
14-Jun-2014		0.62	0.097	0.097				
15-Jun-2014					Sunday			
16-Jun-2014		0.64	0.303	0.108				
17-Jun-2014		0.63	0.291	0.100				
18-Jun-2014		0.61	0.113	0.194				
19-Jun-2014		0.62	0.231	0.428				
20-Jun-2014		0.59	0.335	0.201				
21-Jun-2014		0.58	0.167	0.282				
22-Jun-2014					Sunday			
23-Jun-2014		0.57	0.213	0.259				
24-Jun-2014		0.59	0.135	0.145				
25-Jun-2014		0.58	0.361	0.285			_	
26-Jun-2014		0.56	0.199	0.206				
27-Jun-2014		0.54	0.385	0.165				
28-Jun-2014		0.51	0.183	0.232				
29-Jun-2014					Sunday			
30-Jun-2014		0.55	0.394	0.521				

Win Win Way Construction Company Ltd.

Trigger Levels						
Alert level	Alarm level	Action level				

(Block 8 Foundation)

Monitoring Check Pts.	Trigger Levels			
manning check t to	Alert level	Alarm level	Action level	
Vibrating 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	

Project Title: Central Police Station Conservation & Revitalization					Project No: WP201	Project No: WP201 1-Jul-2014 to			
POINT		VM8-1	VM11-1#	VM11-2					
DATE	PD/(m)	mm/s	mm/s	mm/s					
19-Jun-2012 ((Initial)	0.56	0.13	0.19					
1-Jul-2014					Holiday				
2-Jul-2014		0.51	0.31	0.26					
3-Jul-2014		0.45	0.30	0.22					
4-Jul-2014		0.56	0.32	0.25					
5-Jul-2014		0.50	0.35	0.29					
6-Jul-2014					Sunday				
7-Jul-2014		0.55	0.31	0.27					
8-Jul-2014		0.54	0.33	0.28					
9-Jul-2014		0.53	0.32	0.27					
10-Jul-2014		0.52	0.33	0.29					
11-Jul-2014		0.60	0.38	0.32					
12-Jul-2014		0.66	0.36	0.35					
13-Jul-2014					Sunday				
14-Jul-2014		0.55	0.31	0.27					
15-Jul-2014		0.55	0.31	0.27					
16-Jul-2014		0.16	0.18	0.16					
17-Jul-2014		0.60	0.12	0.25					
18-Jul-2014		0.36	0.46	0.17					
19-Jul-2014		0.13	0.33	0.46					
20-Jul-2014					Sunday	Sunday			
21-Jul-2014		0.08	0.09	0.31					
22-Jul-2014		0.07	0.09	0.08					
23-Jul-2014		0.06	0.08	0.17					
24-Jul-2014		0.09	0.41	0.10					
25-Jul-2014		0.10	0.13	0.37					
26-Jul-2014		0.54	0.16	0.17					
27-Jul-2014					Sunday				
28-Jul-2014		0.16	0.52	0.27					
29-Jul-2014		0.09	0.26	0.08					
30-Jul-2014		0.55	0.40	0.15					
31-Jul-2014		0.13	0.25	0.11					

Mini-piles with post-pressurized grout in CDG and Steel Shear H-piles at Block 1, STREET 11SW-B/R18 11SW-B/R17-Shill King The Centrium CONT 11SW-B/R806 11SW-B/R23-11SW-B/R52 NG Kun-shing Chief Stractoral Engineer for BUILIPHG AUTHORITY 11SW-B/R24 W 1 9 MAR 2012 11SW-B/R53 11SW-B/R19-11SW-B/R174 11SW-B/R175 BD SUBMISSION wing Status 罗斯状识 LEGEND · 的文字是是是是一个一个一个一个 Chara and valify of altremones on sa 有有尺寸必能加工地指揮者非為資訊 STREET LIGHTING NO. 33488-A1 853-2/ 11SW-B/R19-11SW-B/R177 11SW-B/R55 EXISTING LY ELECTRICITY CABLE HERZOG&DEMEURON EXISTING TELECOMMUNICATION DUCT (HIJTCHISON OF OBAL COMMUNICATIONS LAMITED) EXISTING STORMWATER DRAIN ROCCO 许学 EXISTING FOUL SEWER R. JRP ARUP Projec 項註 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT EXISTING DRILLHOLE WITH 11SW-B/R54 STANDPIPE/PIEZOMETER Drawing Tale 整体 MONITORING LAYOUT PLAN 11SW-B/R178 8 PROPOSED BUILDING SETTLEMENT POINTS/THUTMETER RS174-1/RT174-PROPOSED INCLINOMETER TO BE BUILT IN BORIED PILE WALL OR PIPE PILE WALL 1:300**0**A1 K.C.(a) MOIES

JULIES SETLEMENT POINTS (UTI TO UT6)
SHALL ONLY BE INSTALLED AFTER EXCONATION
PERMIT IS OBTAINED, AS ALTERNATIVE.
SETTLEMENT POINTS (ISS AND ISSI) MAY BE
INSTALLED.
SHOULD UTI TO UTI6 BE RESTALLED, ISSIB AND
ISSID SHALL NOT BE REQUIRED.
JETHER UTILITIES SETTLEMENT MARKETS (UTI TO
UT6) OR GROUND SETTLEMENT MARKETS (UTI TO
UT6) OR GROUND SETTLEMENT MARKETS (USI TO
COMMENCEMENT OF OLD BALLEY WHICE ELS
WORKS. 00-0AP209674-G-001 PROPOSED GROUND SETTLEMENT POINTS PROPOSED UTILITY MONITORING POINTS PROPOSED VIBRATION MONITORING POINTS MONITORING ZONE A PROPOSED ADDITIONAL DESELHOLE



(Block 17 Foundation Works)						
Manitania - Charle Dec	Trigger Levels					
Monitoring Check Pts.	Alert level	Alarm level	Action level			
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s			
# Vibration at largest span of	5.0mm/s	6.0mm/s	7.5mm/s			
highest Structural level	5.0mm/s	6.0mm/s				

Project Title: Central Police Station Conservation & Revitalization			tion	Project No: WP201	1-May-2014	to	31-May-2014	
POINT		V M17-1	VM17-3 #					
DATE	PD/(m)	mm/s	mm/s					
19-Jun-2012 ((Initial)	0.13	0.37					
Surveying Date								
1-May-2014			•	•	Holiday	•		•
2-May-2014		0.26	0.59					
3-May-2014		0.25	0.57					
4-May-2014		0.20	0.07		Sunday			1
5-May-2014		0.30	0.66					
6-May-2014		0.50	0.00	<u> </u>	Holiday			ı
7-May-2014		0.29	0.65		Honday			
8-May-2014		0.29	0.67			+		
				+	+	+		
9-May-2014		0.30	0.68			+		
10-May-2014		0.28	0.64					
11-May-2014			1	-	Sunday	1		T
12-May-2014		0.29	0.68					
13-May-2014		0.30	0.65					
14-May-2014		0.31	0.66					
15-May-2014		0.30	0.67					
16-May-2014		0.38	0.65					
17-May-2014		0.36	0.64					
18-May-2014					Sunday			_
19-May-2014		0.32	0.64					
20-May-2014		0.35	0.63					
21-May-2014 22-May-2014		0.31 0.28	0.64 0.62			+		
23-May-2014		0.28	0.62			+		
24-May-2014		0.29	0.61					
25-May-2014		0.27	0.01		Sunday	1		1
26-May-2014		0.33	0.60					
27-May-2014		0.31	0.59					
28-May-2014		0.30	0.61					
29-May-2014		0.29	0.62					
30-May-2014		0.28	0.59					



(Block 17 Foundation Works)						
Manitania - Charle Dec	Trigger Levels					
Monitoring Check Pts.	Alert level	Alarm level	Action level			
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s			
# Vibration at largest span of	5.0mm/s	6.0mm/s	7.5mm/s			
highest Structural level	5.0mm/s	6.0mm/s				

roject Title: Central Police Station Conservation & Revitalization			Project No: WP201		1-Jun-2014	to	30-Jun-2014		
POINT		V M17-1	VM17-3 #						
DATE	PD/(m)	mm/s	mm/s						
19-Jun-2012 ((Initial)	0.13	0.37						
Surveying Date									
1-Jun-2014				•	Sunday	-	•		
2-Jun-2014					Holiday				
3-Jun-2014		0.35	0.62						
4-Jun-2014	+ +	0.31	0.63						
5-Jun-2014	+ +	0.29	0.61	1					
6-Jun-2014	+ +	0.29	0.62	 					
7-Jun-2014	+	0.27	0.60						
8-Jun-2014		0.27	0.00		Sunday				
9-Jun-2014		0.26	0.60		Sunday				
10-Jun-2014	+		 						
	+	0.28	0.61						
11-Jun-2014		0.30	0.59						
12-Jun-2014	+	0.29	0.58						
13-Jun-2014		0.27	0.60						
14-Jun-2014		0.26	0.58						
15-Jun-2014					Sunday				
16-Jun-2014		0.25	0.59						
17-Jun-2014		0.24	0.55						
18-Jun-2014		0.25	0.58						
19-Jun-2014	+	0.24	0.56						
20-Jun-2014 21-Jun-2014	+	0.21 0.22	0.54 0.53						
21-Jun-2014 22-Jun-2014		0.22	0.33		Sunday				
23-Jun-2014		0.21	0.53		Sunday		I		
24-Jun-2014		0.22	0.52						
25-Jun-2014	1 1	0.20	0.50						
26-Jun-2014		0.18	0.48						
27-Jun-2014		0.19	0.47						
28-Jun-2014		0.21	0.45						
29-Jun-2014	+ .	0.10			Sunday				
30-Jun-2014		0.19	0.41						



(Block 17 Foundation Works)						
M ' CL LD	Trigger Levels					
Monitoring Check Pts.	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			

Project Title: Central Police Station Conservation & Revitalization		ritalization	Project No: WP201	1-Jul-2014	to	30-Jul-2014		
POINT		VM17-1	VM17-3 #					
DATE	PD/(m)	mm/s	mm/s					
19-Jun-2012 (In	itial)	0.13	0.37					
Surveying Date								
1-Jul-2014			•	•	Sunday			
2-Jul-2014		0.24	0.42					
3-Jul-2014		0.28	0.46					
4-Jul-2014		0.33	0.44					
5-Jul-2014		0.25	0.49					
6-Jul-2014					Sunday			
7-Jul-2014		0.20	0.48					
8-Jul-2014		0.31	0.41					
9-Jul-2014		0.25	0.45					
10-Jul-2014		0.26	0.49					
11-Jul-2014		0.30	0.59					
12-Jul-2014		0.20	0.53					
13-Jul-2014					Sunday			•
14-Jul-2014		0.19	0.41					
15-Jul-2014		0.19	0.41					
16-Jul-2014		0.17	0.15					
17-Jul-2014		0.16	0.15					
18-Jul-2014		0.36	0.34					
19-Jul-2014		0.25	0.35					
20-Jul-2014					Sunday			
21-Jul-2014		0.76	0.21					
22-Jul-2014		0.18	0.10					
23-Jul-2014		0.11	0.07					
24-Jul-2014		0.25	0.33					
25-Jul-2014		0.15	0.14					
26-Jul-2014		0.18	0.17					
27-Jul-2014				<u>.</u>	Sunday			
28-Jul-2014		0.20	0.17					
29-Jul-2014		0.08	0.08					
30-Jul-2014		0.06	0.30					
31-Jul-2014		0.06	0.65					

Bored Pile Walls / Pipe Pile Walls at Block 50 WYNDHAM & B.D. Ref. No. 原宇書標案編成 3/3053/11 (日に 17 & 5 b) (HU)(5) STREET 11SW-B/R18 No.编集 Des No. 編集 Description 說明 Date 日期 Approved 宴
- BD SUBMISSION 12/11 JS 11SW-B/R22 A DA TONHTUBAA Shiu King The Centrium Court 11SW-B/R805 11SW-B/R806 11SW-B/R23 11SW-B/R52 Plan Approved RS53-17 RT53-17 NG Kin¹shing Chief Structural Engineer for BUILDING AUTHORITY 11SW-B/R24 BS14-13/2 PMH-4 20 FEB 2012 RS19-7 BS3-7 -11SW-B/R53 -11SW-B/R176 →IN1-3 BS3-5/ BT3-3 **★VM13-1**/ 11SW-B/R19 BS3-8/ BT3-4 11SW-B/R174 BS14-7 11SW-B/R175 BD SUBMISSION Drawing Status 製圖狀況 36.73 LEGEND 833900 E Do not take measurements 切勿直接從圖紙上量度尺寸 Check and verify all dimensions or site 所有尺寸必須在工地現場複查及署核。 EXISTING FRESH WATER MAIN and all other related drawings. 此圈抵必须與双格以明書及其它有關國紙一併閱讀。 EXISTING SALT WATER MAIN EXISTING STREET LIGHTING NO. 33488-A1 BS2-3 BS3-2/ 11SW-B/R19 EXISTING STREET LIGHTING CABLE 11SW-B/R177 署馬會文物保育有限公司 1SW-B/R55-30 RS177-2 BS17-BT17-EXISTING LV ELECTRICITY CABLE HERZOG & DE MEURON EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
EXISTING STORMWATER DRAIN ROCCO 许字严 ADH3(S/P) DH19(BS17-11/ PROPOSED FOUL SEWER E & M Engineer JRP SITE BOUNDARY ARUP 11SW-B/R54 EXISTING RETAINING WALL ryoped দুল CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT → DH1 (S,P) UT: EXISTING DRILLHOLF WITH STANDPIPE/PIEZOMETER Drawing Title III & UT2 RS178−1/ ⊠ RS178−1/ BS1-1/BT1-1 PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER MONITORING LAYOUT PLAN OEC 23 P 2:09 PROPOSED RETAINING WALL SETLEMENT POINTS/TILTMETER RS174-1/RT174-1 PERMIT IS CRITAINED AS ALTERNATIVE PERMIT IS CRITAINED AS ALTERNATIVE 1 **→**IN1-1 PERSONNES OBTAINED AS ALTERNATIVE SETTLEMENT FORMY (SELECTION OF SELECTION OF STATE OF SETTLEMENT AS AS AS OF SETTLEMENT AS AS AS OF SETTLEMENT HARRES SETTLEMENT HARRES SUIT TO 19 THE LOCAL AS SETTLEMENT HARRES SUIT TO 19 THE LOCAL ASSOCIATION OF SETTLEMENT SETTLEMENT SUIT TO 19 THE SETTLEMENT PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE OR FIPE PILE WALL K.C.Lai 1:300@A1 Ø^{GS1} Drawing No. 国状 00-0AP209674-G-001 PROPOSED GROUND SETTLEMENT POINTS 2011 UT1 Loon PROPOSED UTILITY MONITORING POINTS SETTINES WITH THE STETT LEMENT ATTENTY OF CUT BALLEY WING TO THE CONTROL OF CONTROL OF CONTROL OF CUT BALLEY WING TELS WEEKS **→**VM1−1 9817 PROPOSED VIBRATION MONITORING POINTS ACH1(S/P) PROPOSED ADDITIONAL DRILLHOLE



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

Monitorina Chash Dts	Trigger Levels				
Monitoring Check Pts.	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		

Project Title: Central P	Police Station Conservation & Revitalization				Project No: WP201		1-May-2014	to	30-May-2014
POINT	VM8-1	VM 11-1#	VM11-2	VM12-1#	VM12-2	VM14-3	VM 17-1	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									
1-May-2014					Holiday				
2-May-2014	0.72	0.50	0.48	0.51	0.42	0.47	0.26	0.68	0.59
3-May-2014	0.71	0.48	0.49	0.49	0.43	0.46	0.25	0.65	0.57
4-May-2014					Sunday				
5-May-2014	0.75	0.51	0.53	0.52	0.43	0.56	0.30	0.75	0.66
6-May-2014					Holiday				
7-May-2014	0.75	0.49	0.55	0.51	0.42	0.54	0.29	0.74	0.65
8-May-2014	0.74	0.46	0.54	0.50	0.41	0.53	0.31	0.73	0.67
9-May-2014	0.77	0.47	0.53	0.49	0.40	0.55	0.30	0.73	0.68
10-May-2014	0.76	0.49	0.51	0.51	0.42	0.54	0.28	0.74	0.64
11-May-2014					Sunday				
12-May-2014	0.75	0.48	0.52	0.50	0.45	0.56	0.29	0.75	0.68
13-May-2014	0.74	0.46	0.53	0.49	0.44	0.53	0.30	0.73	0.65
14-May-2014	0.73	0.47	0.51	0.49	0.40	0.54	0.31	0.72	0.66
15-May-2014	0.78	0.46	0.50	0.47	0.39	0.56	0.30	0.71	0.67
16-May-2014	0.76	0.45	0.49	0.46	0.41	0.53	0.38	0.70	0.65
17-May-2014	0.75	0.43	0.42	0.44	0.40	0.52	0.36	0.69	0.64
18-May-2014		•			Sunday	•	•		•
19-May-2014	0.77	0.44	0.48	0.45	0.40	0.54	0.32	0.67	0.64
20-May-2014	0.75	0.46	0.47	0.43	0.38	0.51	0.35	0.65	0.63
21-May-2014	0.76	0.45	0.46	0.44	0.41	0.52	0.31	0.67	0.64
22-May-2014	0.74	0.47	0.47	0.41	0.39	0.50	0.28	0.61	0.62
23-May-2014	0.75	0.43	0.45	0.43	0.38	0.48	0.30	0.65	0.62
24-May-2014	0.73	0.40	0.43	0.42	0.37	0.49	0.29	0.62	0.61
25-May-2014					Sunday				
26-May-2014	0.73	0.38	0.43	0.42	0.33	0.48	0.33	0.59	0.60
27-May-2014	0.74	0.37	0.41	0.39	0.38	0.47	0.31	0.61	0.59
28-May-2014	0.75	0.36	0.43	0.40	0.36	0.50	0.30	0.60	0.61
29-May-2014	0.72	0.38	0.42	0.41	0.37	0.51	0.29	0.58	0.62
30-May-2014	0.73	0.36	0.40	0.40	0.36	0.47	0.28	0.53	0.59



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

Monitoring Check Pts.		Trigger Levels				
Widintoning Check Fts.	Alert level	Alarm level	Action level			
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s			
# Vibration at largest span of	5.0mm/s	6.0mm/s	7.5mm/s			
highest Structural level	5.011111/5	0.011111/5	7.511111/8			

Project Title: Central	ject Title: Central Police Station Conservation & Revitaliz		& Revitalization	on	n Project No: WP201			to	30-Jun-2014
POINT	VM8-1	VM11-1#	VM11-2	VM12-1#	VM12-2	VM14-3	VM 1 7 -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									
1-Jun-2014					Sunday				
2-Jun-2014					Holiday				
3-Jun-2014	0.75	0.46	0.47	0.43	0.38	0.51	0.35	0.65	0.62
4-Jun-2014	0.76	0.45	0.46	0.44	0.41	0.52	0.31	0.67	0.63
5-Jun-2014	0.71	0.40	0.41	0.39	0.37	0.48	0.29	0.59	0.61
6-Jun-2014	0.70	0.41	0.42	0.38	0.39	0.46	0.29	0.64	0.62
7-Jun-2014	0.69	0.39	0.39	0.38	0.40	0.42	0.27	0.59	0.60
8-Jun-2014					Sunday				
9-Jun-2014	0.67	0.35	0.37	0.37	0.39	0.40	0.26	0.60	0.60
10-Jun-2014	0.65	0.38	0.40	0.35	0.37	0.45	0.28	0.62	0.61
11-Jun-2014	0.64	0.39	0.36	0.36	0.34	0.44	0.30	0.63	0.59
12-Jun-2014	0.66	0.36	0.35	0.34	0.36	0.46	0.29	0.60	0.58
13-Jun-2014	0.63	0.35	0.37	0.36	0.35	0.45	0.27	0.61	0.60
14-Jun-2014	0.62	0.37	0.35	0.34	0.33	0.44	0.26	0.59	0.58
15-Jun-2014	•	•	-	•	Sunday	•	•	•	•
16-Jun-2014	0.64	0.36	0.36	0.35	0.33	0.43	0.25	0.60	0.59
17-Jun-2014	0.63	0.35	0.34	0.34	0.32	0.42	0.24	0.54	0.55
18-Jun-2014	0.61	0.36	0.35	0.35	0.31	0.44	0.25	0.57	0.58
19-Jun-2014	0.62	0.34	0.34	0.34	0.32	0.43	0.24	0.58	0.56
20-Jun-2014	0.59	0.33	0.35	0.33	0.31	0.42	0.21	0.59	0.54
21-Jun-2014	0.58	0.34	0.32	0.32	0.30	0.42	0.22	0.54	0.53
22-Jun-2014					Sunday				
23-Jun-2014	0.57	0.33	0.31	0.30	0.31	0.42	0.21	0.53	0.53
24-Jun-2014	0.59	0.32	0.32	0.31	0.30	0.41	0.22	0.52	0.52
25-Jun-2014	0.58	0.34	0.30	0.30	0.29	0.38	0.20	0.50	0.50
26-Jun-2014	0.56	0.32	0.29	0.29	0.28	0.36	0.18	0.49	0.48
27-Jun-2014	0.54	0.32	0.28	0.28	0.26	0.34	0.19	0.48	0.47
28-Jun-2014	0.51	0.30	0.26	0.26	0.27	0.37	0.21	0.43	0.45
29-Jun-2014					Sunday				
30-Jun-2014	0.55	0.31	0.27	0.26	0.27	0.35	0.19	0.45	0.41



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

Monitoring Check Pts.	Trigger Levels					
Wollitoring Check Fts.	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			

Project Title:	ect Title: Central Police Station Conservation & Revitalization		on	Project No: W	P201	1-Jul-2014 to		30-Jul-2014		
POINT		VM8- 1	V M11-1#	VM 11-2	VM12-1#	VM12-2	VM14-3	VM 17-1	VM17-2	VM 17-3 #
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										
1-Jul-2014			•			Holiday				
2-Jul-2014		0.51	0.31	0.26	0.25	0.29	0.35	0.24	0.45	0.42
3-Jul-2014		0.45	0.30	0.22	0.26	0.28	0.19	0.28	0.48	0.46
4-Jul-2014		0.56	0.32	0.25	0.28	0.30	0.30	0.33	0.55	0.44
5-Jul-2014		0.50	0.35	0.29	0.27	0.31	0.27	0.25	0.54	0.49
6-Jul-2014			•		•	Sunday	•		•	•
7-Jul-2014		0.55	0.31	0.27	0.25	0.28	0.17	0.20	0.50	0.48
8-Jul-2014		0.54	0.33	0.28	0.29	0.22	0.38	0.31	0.44	0.41
9-Jul-2014		0.53	0.32	0.27	0.22	0.25	0.18	0.25	0.49	0.45
10-Jul-2014		0.52	0.33	0.29	0.25	0.24	0.22	0.26	0.50	0.49
11-Jul-2014		0.60	0.38	0.32	0.36	0.34	0.10	0.30	0.63	0.59
12-Jul-2014		0.66	0.36	0.35	0.34	0.36	0.12	0.20	0.55	0.53
13-Jul-2014						Sunday				
14-Jul-2014		0.55	0.31	0.27	0.26	0.27	0.35	0.19	0.45	0.41
15-Jul-2014		0.55	0.31	0.27	0.26	0.27	0.35	0.19	0.45	0.41
16-Jul-2014		0.16	0.18	0.16	0.20	0.23	0.18	0.17	0.40	0.15
17-Jul-2014		0.60	0.12	0.25	0.27	0.34	0.20	0.16	0.24	0.15
18-Jul-2014		0.36	0.46	0.17	0.34	0.12	0.17	0.36	0.25	0.34
19-Jul-2014		0.13	0.33	0.46	0.14	0.24	0.12	0.25	0.20	0.35
20-Jul-2014						Sunday				
21-Jul-2014		0.08	0.09	0.31	0.58	0.09	0.66	0.76	0.09	0.21
22-Jul-2014		0.07	0.09	0.08	0.42	0.21	0.34	0.18	0.10	0.10
23-Jul-2014		0.06	0.08	0.17	0.31	0.06	0.07	0.11	0.18	0.07
24-Jul-2014		0.09	0.41	0.10	0.15	0.01	0.23	0.25	0.33	0.33
25-Jul-2014		0.10	0.13	0.37	0.17	0.65	0.10	0.15	0.10	0.14
26-Jul-2014		0.54	0.16	0.17	0.34	0.16	0.30	0.18	0.10	0.17
27-Jul-2014					•	Sunday	-			-
28-Jul-2014		0.16	0.52	0.27	0.20	0.16	0.21	0.20	0.22	0.17
29-Jul-2014		0.09	0.26	0.08	0.12	0.13	0.09	0.08	0.13	0.08
30-Jul-2014		0.55	0.40	0.15	0.28	0.53	0.48	0.06	0.09	0.30
31-Jul-2014		0.13	0.25	0.11	0.11	0.16	0.09	0.15	0.17	0.65

Shaft Granted Pre-boved H-piles at Block 51 (Arbithnot Wing) WYNDHAM & STREET 11SW-B/R18 11SW-B/R22 BO SUBMISSION (50) 12/1
BO SUBMISSION (01) 03/1:
BO SUBMISSION (01) 03/1:
BO SUBMISSION (17) 03/1:
BO SUBMISSION RV BATCH 1 03/1:
FOR INFROMATION (50) 03/1: 11SW-B/R17-Shiu King The Centrium Court 11SW-B/R23-115W-B/R52 Chief Streetural Engineer for BUILDING AUTRORITY -11SW-B/R24 W BS13-4 13 JUL 2012 - 11SW-B/R53 -11SW-8/R176 ₩13-1/ 11SW-B/R19-B\$1-14 853-8/ 813-4 11SW-B/R174-MONITORING ZONE A 11SW-B/R175-BD SUBMISSION Drawing Status 製腦狀況 Do not take measure/cents o 切的直接位额统上偏径尺寸。 Chock and verify 20 corrections on th 所有尺寸必須在工地批學資金以棄紙 Read this displayed on computation was used at other related displaying.

企業就分享其他近郊市及其它有新疆以一场阅读。 EXISTING SALT WATER WAIN EXISTING STREET LICHTING NO. 33488-AT 11SW-8/R19 11SW-B/R177-EXISTING STREET LIGHTING CABLE 要馬會支票部分有限公司 EXISTING TELECOMMUNICATION DUCT **最終終於國際首都於2016年11月2日** 17月2日 EXISTING FOUL SEWER ROCCO DH19(BS17-11) JRP ARUP EXISTING RETAINING WALL Project WE CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT 11SW-B/R54 Drawing Tale M.E.
MONITORING LAYOUT PLAN BS1-1/BI1-1 PROPOSED BUILDING SETTLEMENT POINTS/TICTMETER RS174-1/RT174-1 PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER 1:3008A1 K.C.L.cs AL Frankrig No. 36th C.C.L.cs AL Frankrig No. 36 PROPOSED GROUND SETTLEMENT POINTS ₩ W PROPOSED UTILITY MONITORING POINTS 2,4 **₩**1-1 PROPOSED VIBRATION MONITORING POINTS CHAPTER ERAC YORY PROPOSED ADDITIONAL ORILLHOLE Motore Participal county Within

(Shaft Grouted Pre-bored H-piles at Block 51)

WW	恆誠建築工程有限公司
Win Win	Way Construction Company Ltd.

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

Project Title: Central	Police Station	n Conservation	& Revitalization	Project No: WP201	1-May-2014	to 31-May-2014
POINT	VM 14-4	VM15-2	VM51-1			
DATE PD/(m)	mm/s	mm/s	mm/s			
03-Dec-2012 (Initial)	0.14	0.21	0.3			
1-May-2014		•	•	Holiday		•
2-May-2014	0.27	0.12	0.13			
3-May-2014	0.26	0.13	0.12			
4-May-2014	0.20	0.15	0.12	Sunday	1	
5-May-2014	0.28	0.14	0.12			
6-May-2014	0.20	0.11	0.12	Holiday	1	<u> </u>
7-May-2014	0.27	0.12	0.13			
8-May-2014	0.26	0.13	0.12			
9-May-2014	0.25	0.12	0.12			
10-May-2014	0.28	0.12	0.12			
11-May-2014	0.28	0.12	0.13	Sunday		
12-May-2014	0.22	0.16	0.14	Sunday		
	0.33					
13-May-2014	0.34	0.18	0.13			
14-May-2014	0.36	0.17	0.12 0.10			
15-May-2014 16-May-2014	0.30 0.29	0.16 0.15	0.10			
17-May-2014	0.29	0.13	0.13			
18-May-2014	0.50	0.17	0.14	Sunday		
19-May-2014	0.31	0.16	0.13			
20-May-2014	0.30	0.18	0.14			
21-May-2014	0.29	0.17	0.15			
22-May-2014	0.31	0.16	0.13			
23-May-2014	0.34	0.15	0.12			
24-May-2014	0.31	0.16	0.13			
25-May-2014	0.21	0.14	0.15	Sunday		
26-May-2014 27-May-2014	0.31	0.14 0.17	0.15 0.16			
28-May-2014	0.33	0.17	0.14		 	
29-May-2014 29-May-2014	0.32	0.15	0.14			
30-May-2014	0.31	0.14	0.12			

₩₩ 恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Shaft Grouted Pre-bored H-piles at Block 51)

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

Project Title: Central	Police Station	n Conservation	& Revitalization	Project No: WP201	1-Jun-2014	to	30-Jun-201
POINT	VM 14-4	VM15-2	VM51-1				
DATE PD/(m)	mm/s	mm/s	mm/s				
03-Dec-2012 (Initial)	0.14	0.21	0.3				
1-Jun-2014		•	•	Sunday			
2-Jun-2014				Holiday			
3-Jun-2014	0.26	0.228	0.12				
4-Jun-2014	0.26	0.391	0.12				
5-Jun-2014	0.28	0.712	0.12				
6-Jun-2014	0.23	0.207	0.14				
7-Jun-2014	0.25	0.117	0.15				
8-Jun-2014	0.23	0,117	0.13	Sunday			-
9-Jun-2014	0.24	0.354	0.15				
10-Jun-2014	0.24	0.117	0.13				
11-Jun-2014	0.28	0.087	0.13				
12-Jun-2014	0.23	0.097	0.11				
13-Jun-2014		0.206			+		
14-Jun-2014	0.35		0.12				
14-Jun-2014 15-Jun-2014	0.35	0.097	0.12	Sunday			
16-Jun-2014	0.25	0.139	0.15	Sullday			
17-Jun-2014	0.32	0.105	0.13				
18-Jun-2014	0.33	0.178	0.12				
19-Jun-2014	0.31	0.601	0.13				
20-Jun-2014	0.37	0.468	0.16				
21-Jun-2014	0.38	0.310	0.25				
22-Jun-2014		1		Sunday	T T		
23-Jun-2014	0.33	0.331	0.21				
24-Jun-2014 25-Jun-2014	0.31 0.25	0.337 0.662	0.13 0.22				
26-Jun-2014 26-Jun-2014	0.25	0.465	0.22				
27-Jun-2014	0.30	0.691	0.13				
28-Jun-2014	0.32	0.405	0.14				
29-Jun-2014				Sunday	<u> </u>		
30-Jun-2014	0.31	0.556	0.12				

WW 恆誠建築工程有限公司 Win Win Way Construction Company Ltd.

(Shaft Grouted Pre-bored H-piles at Block 51)

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

Project Title: Ce	entral Police Stati	on Conservation	& Revitalization	Project No: WP201	1-Jul-2014	to	30-Jul-2014
POINT	VM14-4	VM15-2	VM51-1				
	D/(m) mm/s	mm/s	mm/s				
03-Dec-2012 (Initial	ial) 0.14	0.21	0.3				
1-Jul-2014	•	•	•	Holiday			•
2-Jul-2014	0.40	0.28	0.12				
3-Jul-2014	0.18	0.31	0.32				
4-Jul-2014	0.20	0.39	0.19				
5-Jul-2014	0.33	0.71	0.11				
6-Jul-2014				Sunday			
7-Jul-2014	0.20	0.19	0.15				
8-Jul-2014	0.16	0.41	0.10				
9-Jul-2014	0.22	0.30	0.16				
10-Jul-2014	0.14	0.12	0.13				
11-Jul-2014	0.19	0.20	0.10				
12-Jul-2014	0.19	0.23	0.19				
13-Jul-2014	•	•	•	Sunday	•		•
14-Jul-2014	0.21	0.20	0.29				
15-Jul-2014	0.15	0.22	0.32				
16-Jul-2014	0.14	0.18	0.20				
17-Jul-2014	0.17	0.28	0.17				
18-Jul-2014	0.13	0.31	0.32				
19-Jul-2014	0.14	0.20	0.25				
20-Jul-2014				Sunday			•
21-Jul-2014	0.11	0.09	0.34				
22-Jul-2014	0.26	0.20	0.12				
23-Jul-2014	0.06	0.07	0.17				
24-Jul-2014	0.26	0.52	0.38				
25-Jul-2014	0.09	0.33	0.39				
26-Jul-2014	0.10	0.20	0.33				
27-Jul-2014	•	•	- 1	Sunday			•
28-Jul-2014	0.15	0.17	0.17				
29-Jul-2014	0.14	0.08	0.15				
30-Jul-2014	0.61	0.07	0.68				
31-Jul-2014	0.07	0.61	0.20				

Annex M

Records of Vibration Monitoring for Other Construction Works





	(Block 14 Sti	ructurai A&A)	
Manifesius Charle De		Trigger Levels	
Monitoring Check Pts.	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

Project Title:	Central	Police Station	n Conservation	& Revitalizati	on Proj	ect No: WP201	1-May-2014	to	31-May-2014
POINT		VM14-1 #	VM14-2#	VM14-3	VM14-4				
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s				
19-Nov-12 (I	nitial)	0.103	0.112	0.147	0.136				
1-May-2014						Holiday			
2-May-2014		0.18	0.10	0.13	0.38				
3-May-2014		0.17	0.11	0.15	0.37				
4-May-2014						Sunday			
5-May-2014		0.23	0.15	0.16	0.40				
6-May-2014						Holiday			
7-May-2014		0.23	0.13	0.15	0.39				
8-May-2014		0.22	0.12	0.15	0.38				
9-May-2014		0.22	0.13	0.16	0.35				
10-May-2014		0.21	0.13	0.14	0.36				
11-May-2014						Sunday			
12-May-2014		0.23	0.11	0.13	0.35				
13-May-2014		0.24	0.12	0.14	0.36				
14-May-2014		0.25	0.13	0.15	0.34				
15-May-2014		0.23	0.10	0.14	0.35				
16-May-2014		0.21	0.11	0.13	0.36				
17-May-2014		0.20	0.10	0.16	0.38				
18-May-2014						Sunday			
19-May-2014		0.23	0.14	0.16	0.40				
20-May-2014		0.22	0.13	0.18	0.35				
21-May-2014		0.24	0.12	0.17	0.36				
22-May-2014		0.25	0.15	0.16	0.33				
23-May-2014		0.23	0.14	0.15	0.34				
24-May-2014		0.22	0.13	0.14	0.32				
25-May-2014	, , , , , , , , , , , , , , , , , , ,					Sunday			•
26-May-2014		0.23	0.13	0.13	0.35				
27-May-2014		0.22	0.14	0.15	0.34				
28-May-2014		0.21	0.12	0.14	0.35				
29-May-2014		0.22	0.11	0.13	0.33				
30-May-2014		0.19	0.13	0.14	0.31				



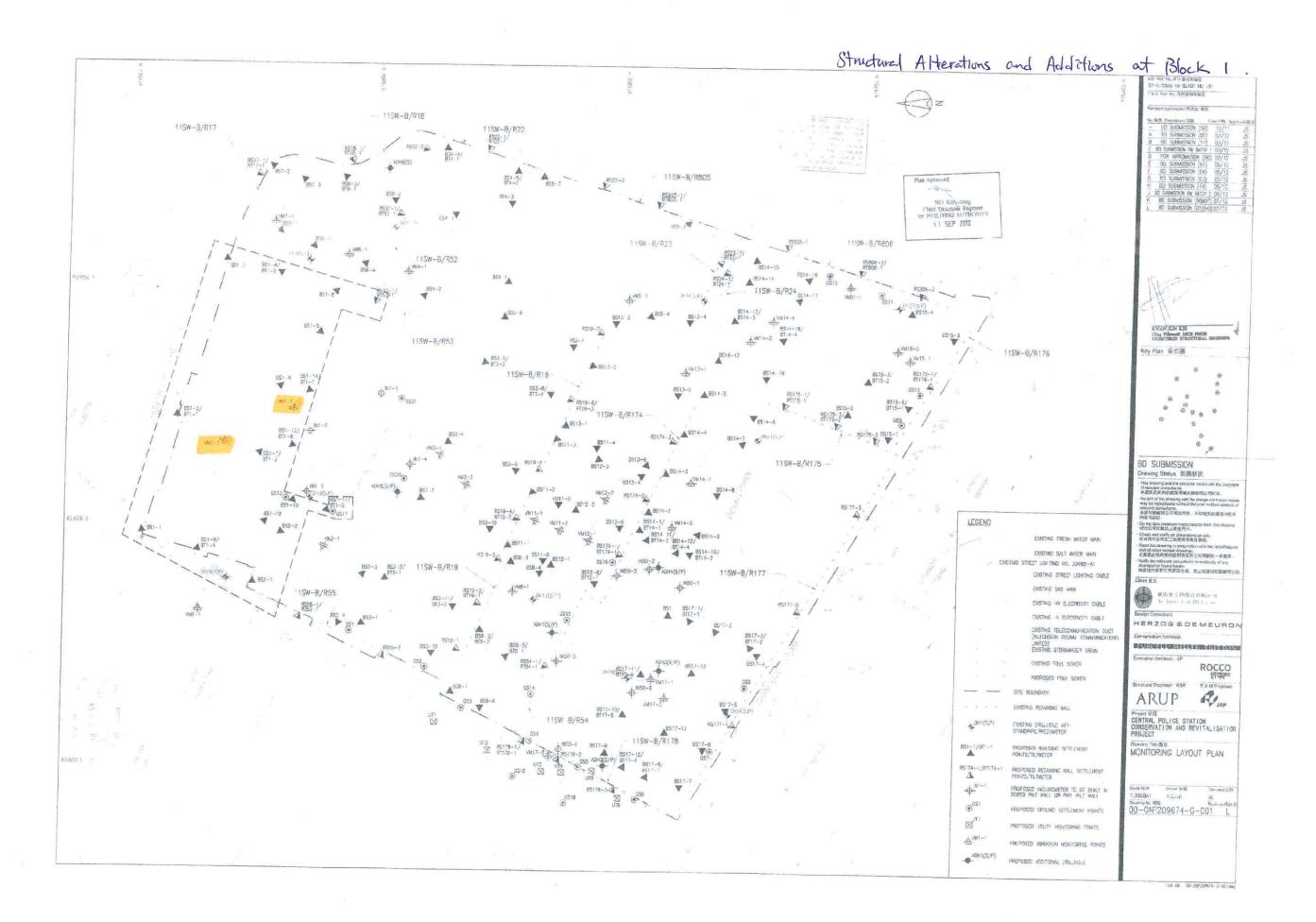
	(Block 14 Str	ructural A&A)	
Manifestina Charle Des		Trigger Levels	
Monitoring Check Pts.	Alert level	Alarm level	Action level
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s
# Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s

Project Title:	Central	Police Station	n Conservation	& Revitalizati	on Proje	ect No: WP201	1-Jun-2014	to	30-Jun-2014
POINT		VM14-1 #	VM14-2#	V M14-3	VM14-4				
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s				
19-Nov-12 ((nitial)	0.103	0.112	0.147	0.136				
1-Jun-2014						Sunday			
2-Jun-2014						Holiday			
3-Jun-2014		0.22	0.13	0.18	0.35				
4-Jun-2014		0.24	0.12	0.17	0.36				
5-Jun-2014		0.24	0.13	0.15	0.34				
6-Jun-2014		0.22	0.12	0.13	0.32				
7-Jun-2014		0.21	0.11	0.12	0.32				
8-Jun-2014						Sunday			
9-Jun-2014		0.20	0.15	0.40	0.33				
10-Jun-2014		0.24	0.14	0.45	0.34				
11-Jun-2014		0.25	0.14	0.44	0.39				
12-Jun-2014		0.19	0.17	0.46	0.30				
13-Jun-2014		0.19	0.12	0.45	0.35				
14-Jun-2014		0.21	0.13	0.44	0.32				
15-Jun-2014						Sunday			
16-Jun-2014		0.21	0.11	0.43	0.36				
17-Jun-2014		0.20	0.10	0.42	0.38				
18-Jun-2014		0.23	0.14	0.44	0.34				
19-Jun-2014		0.23	0.14	0.43	0.40				
20-Jun-2014		0.22	0.13	0.42	0.35				
21-Jun-2014		0.24	0.12	0.42	0.36				
22-Jun-2014						Sunday			
23-Jun-2014		0.23	0.14	0.42	0.34				
24-Jun-2014		0.22	0.13	0.41	0.32				
25-Jun-2014		0.23	0.14	0.38	0.34				
26-Jun-2014		0.23	0.13	0.36	0.35			<u> </u>	
27-Jun-2014		0.22	0.14	0.34	0.34			<u> </u>	
28-Jun-2014		0.21	0.12	0.37	0.35				
29-Jun-2014						Sunday			
30-Jun-2014		0.25	0.16	0.35	0.30				



	(Block 14 Str	ructural A&A						
Manitarina Charle Dta		Trigger Levels						
Monitoring Check Pts.	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					

Project Title: Central	Police Station	n Conservation	& Revitalizati	on Proje	ect No: WP201	1-Jul-2014	to	30-Jul-201
POINT	V M14-1 #	VM14-2 #	VM14-3	VM14-4				
DATE PD/(m)	mm/s	mm/s	mm/s	mm/s				
19-Nov-12 (Initial)	0.103	0.112	0.147	0.136				
1-Jul-2014					Holiday			
2-Jul-2014	0.24	0.10	0.35	0.40				
3-Jul-2014	0.18	0.19	0.19	0.18				
4-Jul-2014	0.20	0.29	0.30	0.20				
5-Jul-2014	0.45	0.23	0.27	0.33				
6-Jul-2014					Holiday			
7-Jul-2014	0.29	0.33	0.17	0.20				
8-Jul-2014	0.49	0.34	0.38	0.16				
9-Jul-2014	0.36	0.26	0.18	0.22				
10-Jul-2014	0.19	0.38	0.22	0.14				
11-Jul-2014	0.15	0.10	0.10	0.19				
12-Jul-2014	0.26	0.20	0.12	0.19				
13-Jul-2014					Holiday			
14-Jul-2014	0.39	0.63	0.17	0.21				
15-Jul-2014	0.21	0.21	0.11	0.15				
16-Jul-2014	0.12	0.42	0.18	0.14				
17-Jul-2014	0.34	0.26	0.20	0.17				
18-Jul-2014	0.20	0.31	0.17	0.13				
9-Jul-2014	0.17	0.20	0.12	0.14				
20-Jul-2014					Holiday			
21-Jul-2014	0.62	0.36	0.66	0.11				
22-Jul-2014	0.09	0.09	0.34	0.26				
23-Jul-2014	0.18	0.07	0.07	0.06				
24-Jul-2014	0.18	0.07	0.07	0.06				
25-Jul-2014	0.11	0.22	0.10	0.09				
26-Jul-2014	0.10	0.30	0.09	0.10				
27-Jul-2014					Holiday			
28-Jul-2014	0.15	0.52	0.21	0.12				
29-Jul-2014	0.08	0.09	0.09	0.14				
30-Jul-2014	0.53	0.08	0.48	0.61				
31-Jul-2014	0.20	0.11	0.09	0.07				



Structural Additions and Alterations at Block 11 WYNDHAM \$ STREET 22-3/3066/10/BLK11 (HU) (S) F.S.D. Ref No. 消防療機築編號 11SW-B/R18 11SW-B/R17 Shiu King The Centrium Gourt - 11SW-B/R806 11SW-B/R23-11SW-B/R52 GS12 - 11SW-B/R24 BS14-17 CHIONG Kam-yueng lacky Chief Structural Engineer for BUILDING AUTHORITY BS13-3 - 3 OCT 2612 ₩15-2 11SW-B/R53 11SW-B/R176 **Д**VM15−1 BS3-5/ BT3-3 11SW-B/R19 BS1-14/ BT1-7 11SW-B/R174 ₩BS14-6 DH21(S,P) BD SUBMISSION 11SW-B/R175-Drawing Status 製圖狀況 GS20 retevant consultants。 未經有關解例公司書而同意。不包裝製此區級內任何 次交替1954 LEGEND Do not take measurements directly from 切勿直沒從雪紙上豐度尺寸。 Check and verify all dimensions on site 符有尺寸必須在工地現場按查及審核 EXISTING FRESH WATER MAIN Read this drawing in conjunction with the specification and all other related drawings.
 此匯纸必須與根格投明實及其它有關團級一併閱讀。 IN50-2 -3 — ADH4(S/P) EXISTING STREET LIGHTING NC. 33488-A1 discrepancy found herein, 如發現內容存任何朦朧之處。應立刻通知初聲明問公元 BS2-3 BS3-2/ 11SW-B/R19 EXISTING STREET LIGHTING CABLE 11SW-B/R177 -11SW-B/R55 EXISTING HV ELECTRICITY CABLE EXISTING IN FLECTRICITY CARLE HERZOG & DEMEURON EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
EXISTING STORMWATER DRAIN EXISTING FOUL SEWER ROCCO PROPOSED FOUL SEWER Structural Engineer / RSE E & M Engineer JRP ARUP EXISTING RETAINING WALL Project ঘটি CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT DH1(S,P) 11SW-B/R54 EXISTING DRILLHOLE WITH BS17-13 - 11SW-B/R178 STANDPIPE/PIEZONETER Drawing Title 劉名 BS1-1/BT1-1 MONITORING LAYOUT PLAN RS174-1/RT174-1 PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE WALL OR PIPE PILE WALL 1:300名1 K.C.Lai AL Revision博改版 00-0AP209674-G-001 M PROPOSED GROUND SETTLEMENT POINTS U∏1 ⊠ PROPOSED UTILITY MONITORING POINTS ______VM1−1 PROPOSED VIBRATION MONITORING POINTS ADH1(S/P) PROPOSED ADDITIONAL DRILLHOLE Cod Re - 00-0AP2095/4-G-001.deg



Vibration Monitoring Record (MAY)

	Blo	ck 1	Block 2	Blo	ck 3	Block 4	Block	6 & 7	Block 9	Bloc	k 11	Bloc	k 12	Block 13	Bloc	k 15
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	VM4-1	VM6-1	VM7-1	VM9-1	VM11-1	VM11-2	VM12-1	VM12-2	VM13-1	VM15-1	VM15-2
Date	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	mm/s
01-May-14	01-May-14 Holiday															
02-May-14	0.439	0.760	0.369	0.687	0.316	0.230	0.177	0.145	0.129	0.251	0.106	0.363	0.380	0.119	0.370	0.225
03-May-14	0.217	0.283	0.138	0.384	0.176	0.268	0.216	0.181	0.208	0.358	0.183	0.291	0.169	0.175	0.468	0.398
04-May-14								Sur	nday							
05-May-14	0.251	0.251	0.143	0.087	0.087	0.302	0.186	0.212	0.128	0.266	0.285	0.556	0.506	0.169	0.639	0.166
06-May-14								Hol	iday							
07-May-14	0.193	0.205	0.169	0.159	0.112	0.228	0.182	0.310	0.139	0.524	0.162	0.326	0.224	0.192	0.331	0.521
08-May-14	0.349	0.083	0.117	0.327	0.098	0.455	0.251	0.354	0.163	0.120	0.842	0.182	0.108	0.137	0.160	0.100
09-May-14	0.259	0.164	0.271	0.314	0.241	0.394	0.586	0.165	0.331	0.318	0.124	0.165	0.167	0.153	0.138	0.327
10-May-14	0.338	0.141	0.261	0.624	0.228	0.216	0.328	0.197	0.128	0.536	0.268	0.132	0.185	0.194	0.201	0.354
11-May-14								Sur	nday							
12-May-14	0.341	0.254	0.595	0.431	0.272	0.194	0.422	0.447	0.139	0.137	0.131	0.119	0.135	0.129	0.122	0.124
13-May-14	0.087	0.087	0.106	0.102	0.090	0.116	0.087	0.083	0.163	0.086	0.087	0.716	0.116	0.093	0.122	0.086
14-May-14	0.095	0.268	0.111	0.196	0.144	0.180	0.129	0.131	0.331	0.087	0.086	0.551	0.117	0.122	0.098	0.117
15-May-14	0.571	0.236	0.145	0.102	0.164	0.451	0.306	0.177	0.128	0.124	0.102	0.087	0.095	0.151	0.114	0.086
16-May-14	0.175	0.172	0.132	0.095	0.647	0.209	0.317	0.536	0.886	0.137	0.105	0.100	0.102	0.120	0.093	0.087
17-May-14	0.663	0.208	0.156	0.351	0.191	0.549	0.558	0.184	0.222	0.977	0.094	0.093	0.090	0.106	0.094	0.151
18-May-14								Sur	nday							
19-May-14	0.438	0.423	0.242	0.304	0.333	0.228	0.199	0.837	0.778	0.977	0.094	0.483	0.177	0.539	0.349	0.272
20-May-14	0.128	0.145	0.421	0.176	0.802	0.499	0.619	0.452	0.154	0.262	0.230	0.178	0.481	0.402	0.178	0.298
21-May-14	0.164	0.251	0.235	0.199	0.204	0.324	0.403	0.251	0.208	0.311	0.146	0.226	0.143	0.156	0.197	0.286
22-May-14	0.103	0.117	0.194	0.678	0.192	0.335	0.276	0.150	0.192	0.086	0.102	0.180	0.111	0.136	0.091	0.087
23-May-14	0.124	0.146	0.162	0.162	0.137	0.132	0.132	0.102	0.093	0.098	0.151	0.258	0.196	0.095	0.275	0.681
24-May-14	0.193	0.281	0.116	0.371	0.265	0.228	0.201	0.188	0.118	0.661	0.203	0.199	0.124	0.167	0.301	0.275
25-May-14								Sur	nday							
26-May-14	0.209	0.208	0.209	0.416	0.310	0.318	0.191	0.303	0.264	0.585	0.397	0.257	0.321	0.364	0.236	0.313
27-May-14	0.307	0.652	0.574	0.423	0.739	0.606	0.446	0.497	0.499	0.091	0.093	0.106	0.586	0.098	0.093	0.202
28-May-14	0.150	0.147	0.108	0.290	0.203	0.536	0.606	0.492	0.178	0.170	0.128	0.309	0.177	0.147	0.095	0.087
29-May-14	0.539	0.370	0.194	0.214	0.244	0.194	0.227	0.166	0.307	0.098	0.131	0.132	0.214	0.145	0.102	0.098
30-May-14	0.349	0.319	0.406	0.259	0.247	0.246	0.542	0.240	0.338	0.341	0.112	0.229	0.137	0.156	0.267	0.351
31-May-14	0.128	0.227	0.117	0.223	0.381	0.104	0.106	0.102	0.116	0.105	0.271	0.122	0.274	0.321	0.112	0.514



Vibration Monitoring Record (JUNE)

	Blo	ck 1	Block 2	Blo	ck 3	Block 4	Block	6 & 7	Block 9	Bloc	k 11	Bloc	k 12	Block 13	Bloc	k 15
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	VM4-1	VM6-1	VM7-1	VM9-1	VM11-1	VM11-2	VM12-1	VM12-2	VM13-1	VM15-1	VM15-2
Date	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	mm/s
01-Jun-14								Sur	nday							
02-Jun-14								Hol	iday							
03-Jun-14	0.429	0.444	0.392	0.430	0.365	0.244	0.517	0.505	0.302	0.286	0.174	0.451	0.197	0.215	0.358	0.228
04-Jun-14	0.361	0.228	0.176	0.339	0.216	0.397	0.216	0.364	0.221	0.223	0.351	0.314	0.209	0.183	0.242	0.391
05-Jun-14	0.169	0.281	0.310	0.185	0.167	0.311	0.201	0.297	0.135	0.612	0.179	0.301	0.174	0.220	0.336	0.712
06-Jun-14	0.132	0.201	0.177	0.244	0.298	0.204	0.402	0.275	0.490	0.143	0.120	0.112	0.140	0.160	0.100	0.207
07-Jun-14	0.398	0.196	0.639	0.285	0.266	0.335	0.209	0.574	0.467	0.150	0.162	0.125	0.388	0.113	0.103	0.117
08-Jun-14					•			Sui	nday							
09-Jun-14	0.281	0.359	0.354	0.114	0.139	0.405	0.239	0.433	0.102	0.239	0.209	0.102	0.438	0.102	0.377	0.354
10-Jun-14	0.346	0.160	0.106	0.137	0.166	0.208	0.705	0.316	0.337	0.098	0.209	0.579	0.098	0.177	0.098	0.117
11-Jun-14	0.240	0.318	0.371	0.570	0.150	0.668	0.256	0.340	0.183	0.139	0.112	0.087	0.087	0.125	0.222	0.087
12-Jun-14	0.137	0.097	0.209	0.098	0.164	0.182	0.095	0.104	0.097	0.095	0.102	0.098	0.098	0.098	0.097	0.097
13-Jun-14	0.206	0.171	0.305	0.286	0.225	0.611	0.334	0.197	0.231	0.221	0.271	0.233	0.161	0.117	0.358	0.206
14-Jun-14	0.120	0.395	0.200	0.093	0.102	0.108	0.106	0.216	0.108	0.097	0.097	0.111	0.098	0.098	0.094	0.097
15-Jun-14								Sur	nday							
16-Jun-14	0.648	0.319	0.208	0.106	0.103	0.398	0.635	0.415	0.194	0.303	0.108	0.129	0.227	0.230	0.132	0.139
17-Jun-14	0.102	0.402	0.216	0.128	0.243	0.248	0.207	0.095	0.393	0.291	0.100	0.350	0.102	0.106	0.758	0.105
18-Jun-14	0.105	0.761	0.189	0.208	0.106	0.184	0.108	0.102	0.113	0.113	0.194	0.120	0.128	0.106	0.199	0.178
19-Jun-14	0.198	0.165	0.256	0.171	0.794	0.319	0.351	0.245	0.231	0.231	0.428	0.240	0.313	0.593	0.307	0.601
20-Jun-14	0.151	0.186	0.164	0.291	0.220	0.246	0.214	0.167	0.385	0.335	0.201	0.146	0.139	0.291	0.531	0.468
21-Jun-14	0.395	0.172	0.202	0.635	0.196	0.691	0.304	0.245	0.519	0.167	0.282	0.367	0.282	0.165	0.337	0.310
22-Jun-14								Sui	nday	I.		I.			l .	
23-Jun-14	0.904	0.306	0.290	0.176	0.700	0.194	0.370	0.303	0.124	0.213	0.259	0.245	0.436	0.277	0.560	0.331
24-Jun-14	0.154	0.166	0.158	0.335	0.157	0.147	0.163	0.201	0.350	0.135	0.145	0.293	0.255	0.147	0.541	0.337
25-Jun-14	0.291	0.118	0.221	0.396	0.152	0.254	0.220	0.169	0.197	0.361	0.285	0.119	0.621	0.225	0.286	0.662
26-Jun-14	0.395	0.298	0.146	0.285	0.124	0.361	0.193	0.281	0.204	0.199	0.206	0.268	0.152	0.190	0.361	0.465
27-Jun-14	0.212	0.138	0.197	0.632	0.241	0.199	0.354	0.265	0.265	0.385	0.165	0.367	0.213	0.331	0.225	0.691
28-Jun-14	0.281	0.191	0.400	0.184	0.177	0.294	0.259	0.222	0.194	0.183	0.232	0.202	0.206	0.176	0.199	0.405
29-Jun-14								Sur	nday							
30-Jun-14	0.311	0.197	0.173	0.491	0.205	0.334	0.298	0.243	0.176	0.394	0.521	0.175	0.139	0.149	0.278	0.556



Vibration Monitoring Record (JULY)

	Bloc	ck 1	Block 2	Bloc	:k 3	Block 4	Block	6 & 7	Block 9	Bloc	k 11	Bloc	k 12	Block 13	Bloc	k 15
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	VM4-1	VM6-1	VM7-1	VM9-1	VM11-1	VM11-2	VM12-1	VM12-2	VM13-1	VM15-1	VM15-2
Date	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	mm/s
01-Jul-14	Sunday															
02-Jul-14	0.209	0.153	0.176	0.309	0.176	0.413	0.211	0.209	0.182	0.328	0.194	0.194	0.235	0.169	0.166	0.151
03-Jul-14	0.206	0.573	0.166	0.225	0.249	0.321	0.196	0.209	0.178	0.209	0.270	0.230	0.180	0.223	0.177	0.146
04-Jul-14	0.207	0.452	0.194	0.242	0.223	0.180	0.265	0.177	0.260	0.202	0.163	0.199	0.203	0.169	0.171	0.223
05-Jul-14	0.247	0.317	0.242	0.598	0.251	0.194	0.308	0.390	0.660	0.493	0.317	0.491	0.235	0.398	0.327	0.811
06-Jul-14								Su	nday							
07-Jul-14	0.365	0.284	0.174	0.296	0.192	0.226	0.269	0.341	0.201	0.631	0.205	0.294	0.164	0.182	0.413	0.562
08-Jul-14	0.216	0.237	0.359	0.364	0.363	0.209	0.216	0.203	0.598	0.532	0.217	0.421	0.390	0.370	0.157	0.292
09-Jul-14	0.197	0.313	0.521	0.168	0.193	0.325	0.229	0.256	0.216	0.269	0.197	0.285	0.361	0.231	0.391	0.543
10-Jul-14	0.325	0.184	0.229	0.531	0.164	0.182	0.261	0.165	0.359	0.394	0.201	0.396	0.288	0.146	0.625	0.441
11-Jul-14	0.073	0.073	0.104	0.131	0.081	0.073	0.073	0.073	0.189	0.120	0.081	0.145	0.081	0.081	0.086	0.091
12-Jul-14	0.168	0.117	0.291	0.443	0.154	0.299	0.381	0.129	0.360	0.264	0.167	0.351	0.117	0.231	0.361	0.221
13-Jul-14								Sur	nday							
14-Jul-14	0.394	0.221	0.199	0.261	0.173	0.335	0.212	0.194	0.165	0.394	0.284	0.198	0.182	0.524	0.267	0.197
15-Jul-14	0.369	0.184	0.184	0.289	0.520	0.196	0.185	0.338	0.206	0.168	0.117	0.318	0.241	0.149	0.381	0.224
16-Jul-14	0.241	0.192	0.341	0.164	0.254	0.224	0.210	0.351	0.169	0.182	0.162	0.196	0.225	0.226	0.216	0.176
17-Jul-14	0.394	0.284	0.213	0.147	0.263	0.374	0.189	0.216	0.099	0.119	0.252	0.266	0.341	0.194	0.341	0.284
18-Jul-14	0.641	0.258	0.164	0.164	0.326	0.341	0.298	0.179	0.196	0.461	0.169	0.344	0.116	0.144	0.199	0.314
19-Jul-14	0.319	0.154	0.165	0.551	0.134	0.167	0.221	0.327	0.112	0.325	0.464	0.136	0.242	0.168	0.333	0.196
20-Jul-14								Sui	nday							
21-Jul-14	0.360	0.112	0.112	0.627	0.078	0.078	0.078	0.078	0.147	0.086	0.312	0.579	0.086	0.086	0.339	0.086
22-Jul-14	0.086	0.086	0.081	0.081	0.086	0.445	0.081	0.086	0.324	0.086	0.081	0.417	0.212	0.120	0.122	0.196
23-Jul-14	0.086	0.059	0.066	0.129	0.413	0.154	0.066	0.223	0.106	0.081	0.166	0.308	0.059	0.073	0.171	0.066
24-Jul-14	0.086	0.081	0.518	0.139	0.086	0.445	0.306	0.408	0.102	0.408	0.102	0.147	0.081	0.086	0.375	0.520
25-Jul-14	0.106	0.121	0.096	0.331	0.129	0.165	0.641	0.366	0.165	0.126	0.366	0.168	0.653	0.154	0.385	0.331
26-Jul-14	0.089	0.162	0.087	0.221	0.103	0.612	0.229	0.169	0.086	0.164	0.168	0.341	0.158	0.286	0.325	0.198
27-Jul-14								Sui	nday	•	•	•	•			,
28-Jul-14	0.162	0.099	0.172	0.138	0.334	0.249	0.321	0.249	0.165	0.521	0.265	0.195	0.156	0.132	0.165	0.165
29-Jul-14	0.083	0.073	0.081	0.073	0.135	0.078	0.482	0.073	0.202	0.259	0.081	0.120	0.131	0.081	0.151	0.081
30-Jul-14	0.086	0.048	0.066	0.066	0.462	0.117	0.048	0.433	0.453	0.398	0.147	0.278	0.529	0.686	0.678	0.066
31-Jul-14	0.121	0.192	0.088	0.185	0.094	0.091	0.198	0.204	0.632	0.251	0.105	0.112	0.161	0.149	0.195	0.613

Annex N

A Summary of Current Condition of Character Defining Elements

Schedule of Character Defining Elements

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

	Level of significance	Meaning
	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.
Positive	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.

Central Police Station

Schedule of Character Defining Elements

Central Police Station

Addendum	Date
Item no. 10.029 edited entry	18 June 2013
Item no. 10.030 added	18 June 2013

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

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

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

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

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

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

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

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

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

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

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

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

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	LOCKET	High	Protect in situ	Not applicable	N/A

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.024	Fixed signs	The Control of the Co	Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
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 material in a neutral mid-tone.	High

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.026	Enclosure at First Floor landing of main stair		Adverse	Remove	Not applicable	Moderate

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

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

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

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
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

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

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

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

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

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
02.009	Concrete stairs		Adverse	Remove stairs	Not applicable	Moderate

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

03 Barracks Block

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.003	External shutters		High	Reinstate to match existing pattern	Not applicable	High
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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
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 replanning of interiors. Record on measured survey drawings.	Low
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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.008	Exterior decorations		Adverse	Strip off and redecorate	Sample and analyse existing paint media; select new media to suit substrate and significance	High
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 noncombustible sheet linings to block opening.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
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

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

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 noncompliance 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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.014	Painted signs	NO VISITOR WILL BE ADMITTED WITHOUT THE PERMISSION OF THE D.O. OR FORMATION COMMANDER 或官管主得未如者转探 進擅得不可許官警值當	High	Protect in situ	Not applicable	N/A
03.015	Fixed signs	NO. 3 PLATOON R. & F CHANGING ROOM 第三隊更衣室	Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.016	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 and mid-tone.	High
03.017	Lean-to structure adjacent North wall		Moderate	Remove	Record on measured survey drawings. Make good walls where roof structure abuts	Moderate

Schedule of Character Defining Elements

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 replanning 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 rebonded. Record walls on measured survey dwgs.	Moderate

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

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 reuse 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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.024	Bridge at east end		Moderate	Retain	Not applicable	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.025	Chimneypiece on Ground Floor		Low	Repair and retain in current location	Not applicable	Neutral
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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.027	Clay-tiled floor in store room adjacent stairs		Low	Remove as part of replanning of interiors	Record on measured survey drawings	Low

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.004	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	No applicable	High

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

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 noncombustible sheet linings to block opening.	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
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

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

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

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

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 noncompliance 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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.013	External verandahs	The state of the s	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 extneral walls on centreline of arcade arches and above structural arch	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.014	Painted signs	BLOCK A	High	Protect in situ	Not applicable	N/A
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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
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

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

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.020	Flat plywood ceiling lining with plain rectangular cover battens		Adverse	Replace with T&G boarding to match existing	Not applicable	High

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.021	Steps up to doorway on FF verandah	EXIT	Moderate	Remove steps and doorway to form new fore escape route	Record steps and doorway on measured drawings	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
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

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

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

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

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

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.007	Painted signs	PECKC.	High	Protect in situ	Not applicable	N/A
06.008	Fixed signs	衛生署 DEPARTMENT OF HEALTH 中央警署診療所 POLICE MEDICAL POST CENTRAL POLICE STATIN	Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
06.011	Perforated margin at perimeter of ceiling	EXIT ED	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	EXIT	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

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 noncompliance 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

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

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

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	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
07.002	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	No applicable	High

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

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

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

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

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 noncompliance 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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
07.014	Fixed signs	P 学 子 分 体 所 Control Price Station Redicts But	Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A

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

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

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 noncombustible sheet linings to block opening.	Moderate

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

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	NO VISITOR WILL BE ADMITTED WITHOUT THE PERMISSION OF THE D. D. OR FORMANION COMMANDER 支管主導体和者珍様 連接将不可計官擊血當	High	Protect in situ	Not applicable	N/A

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	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
					clashes.	
08.011	Cantilever balconies on north side		Moderate	Repair and retain insitu	Not applicable	

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
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
08.013	Balcony balustrades		Low	Repair as necessary and retain. Remove selected sections to enable installation of new bridge connections to Barrack Block.	Avoid removal of associated iron columns. Form interventions at selected positions so as to maintain the rhythm of the balustrades and ensure proper support at ends.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.014	Single-storey outbuilding with pitched roof over		Low	Demolish to make way for new loading bay.	Record on measured survey drawings. Infill existing internal opening leaving reveals exposed. Tooth-in new brickwork at abutments after existing walls removed. Salvage cast iron columns for possible re-use.	Low
08.015	Corrugated steel sheet on balcony balustrades		Adverse	Remove	Not applicable	Low

Schedule of Character Defining Elements

Central Police Station

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.003	Internal walls		Moderate	Remove selected internal walls where strictly necessary as part of replanning 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 rebonded, 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

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

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 noncombustible 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

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 noncompliance 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	WINDOWS DEPARTMENT RESOLUTION DEPARTMENT RE	Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A

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

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

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

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

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

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

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

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

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.003	Panelled doors and linings	No. 1272.	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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
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 noncombustible sheet linings to block opening.	Moderate
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

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

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 noncompliance 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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.011	Fixed signs	は、大きない。 は、たるない。 は、なない。 は、なななななななななななななななななななななななななななななななななななな	Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A
10.012	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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.013	Internal walls		Moderate	Remove selected internal walls where strictly necessary as part of replanning 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 rebonded, as evidence of the current condition.	Moderate

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

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

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

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

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 reopen archway	Protect original arch and jambs against damage during demolition	Moderate

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.029	Steps on east elevation		Moderate	Repair as necessary and retain	Not applicable	Neutral
10.030	Decorative metal screen (See also item 10.026)		Low	Repair and retain	Not applicable	Positive

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

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	AHALL	High	Protect in situ	Not applicable	N/A

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.004	Fixed signs	多生 小心地滑 CAUTION SLIPPERY FLOOR	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

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

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.010	Timber doors		Low	Repair and retain	Not applicable	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.011	Security screen and door at First Floor	EXITHO	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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.013	Metal louvres on window openings		Adverse	Remove	Not applicable	Low

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.005	Fixed signs	The state of the s	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

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

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.006	Cantilever reinforced concrete canopy		Low	Retain	Not applicable	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.007	Internal partition walls		Low	Remove as part of replanning of interiors	Record on measured survey drawings	Low
13.008	Fixed signs	Note that the second of the se	Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.009	Metal window frames		Moderate	Repair and retain	Not applicable	Neutral
13.010	Internal security screens		Moderate	Retain where possible	Where necessary record on measured survey drawings prior to removal	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
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
13.012	Communal cells at Ground Floor		Moderate	Remove as part of re- planning of interiors	Record on measured survey drawings	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.013	Rooflight and security bars over communal cells		Moderate	Remove as part of replanning of interiors	Record on measured survey drawings	Low
13.014	Granite threshold at external door openings		Low	Retain	Not applicable	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.015	Timber boarded doors with fanlight over		Low	Repair as necessary and retain	Not applicable	Neutral
13.015	Vinyl tile floor		Adverse	Replace	Not applicable	Low

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact

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.	Retain security gate and granite threshold. Adjust adjacent ground level as necessary to achieve barrier-free access. Pin gate back against adjacent wall in the open position if necessary.	Low

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

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)	3	Moderate	Retain door surround and gate wherever possible.	Pin back gate against wall. Remove paint media to expose granite material.	Low

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

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

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

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	Set out new openings to cause minimum disruption to ashlar pattern. Record existing pattern on measured survey drawings.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.010	Blocked doorway at south-east corner		Low	Preserve blocked opening intact.	Not applicable	Neutral

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

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

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.017	Mortuary		High	Preserve insitu	Avoid any service penetrations from adjacent spaces	Neutral
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

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	A	Low	Form penetrations for services installations where necessary	Avoid disruption of beams.	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.021	Arched opening at east end		Low	Retain insitu	Not applicable	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.022	Top-lit central hall		High	Retain insitu	Not applicable	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.023	Arches across central hall at First Floor		Moderate	Retain insitu	Not applicable	Neutral

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

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

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

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

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

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

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

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

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

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.045	Metal security screen adjacent main stair		Moderate	Retain insitu	Not applicable	Neutral

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.046	Double-height central hall at Second Floor		High	Retain insitu	Not applicable	Neutral

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

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

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

15 E Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.001	Dividing walls at Lower Ground Floor	HAIR AND THE PARTY OF THE PARTY	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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.004	Services installations	Tart	Adverse	Remove	Not applicable	Moderate
15.005	Metal louvres over cell window openings		Low	Remove	Record on measured survey drawings	Low

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

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.010	Services installations	Add BODDO	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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.012	Second Floor central hall		High	Retain	Not applicable	Neutral

17 F Hall

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.004	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
17.005	Fixed signs	PRISONERS' PRIVATE CLOTHING STORE 犯人私家衣服儲藏室	Moderate	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.006	Security screen at First Floor entrance		Low	Remove	Record on measured drawings	Low
17.007	Metal windows		Moderate	Remove at First Floor to accommodate gallery space and block structural openings with blockwork	Record on measured drawings.	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.008	Fixed furniture		Moderate	Remove to accommodate gallery space	None	Low
17.009	Security screens		Moderate	Remove to accommodate gallery space	Record on measured drawings	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.010	Timber windows		Moderate	Remove at First Floor to accommodate gallery space and block structural openings with blockwork	Record on measured drawings	Moderate
17.011	Communal washing/lavatory facilities		Moderate	Remove to accommodate gallery space	Record on measured drawings	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.012	Blocked up lantern light		Low	Unblock lantern and fit glazing	Record on measured drawings	Low
17.013	Security gates at Ground openings		Moderate	Remove to enable access to Ground Floor gallery space	Record on measured drawings	Low

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.017	Security screen at Ground Floor main entrance	STATE AND TO STATE OF	Low	Remove to accommodate gallery space	Record on measured drawings	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.018	Blue Entrance Gate (facing Old Bailey Street)		High	Retain in situ	Maintain in working order	Neutral
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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.020	Blue Entrance Gate (inner) facing Prison Yard		Moderate	Retain gate and enclosing frame	Repair and maintain in working order	Low

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
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
17.023	External toilets at Ground Floor adjacent East elevation		Low	Remove	Record on measured drawings	Low

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
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

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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

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

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

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.006	Look-out turret		High	Repair and retain insitu	Not applicable	Neutral

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

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.008	Modern partitions		Adverse	Remove	Not applicable	Moderate

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.009	Electrical services	A SERVICE OF THE PROPERTY OF T	Adverse	Remove	Not applicable	Moderate
19.010	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High

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