

The Jockey Club CPS Limited

Central Police Station Conservation
and Revitalisation Project:
4th Annual EM&A Review Report
(1 November 2014 to 31 October
2015)

Issue Date: June 2016

Environmental Resources Management

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Reference 0095646

For and on behalf of ERM-Hong Kong, Limited
Approved by: <u>Frank Wan</u>
Signed: <u></u>
Position: <u>Partner</u>
Certified by: <u></u> (Environmental Team Leader – Katie Yu)
Date: <u>24 June 2016</u>

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

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

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

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By Post and Email (katie.yu@erm.com)

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Attn: Ms Katie Yu

Dear Katie,

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

We refer to your letter dated 6 September 2016 regarding the Fourth Annual EM&A Review Report. Atkins China Limited verifies, in the capacity of Independent Environmental Checker, that the report conforms the requirements provided in in Section 10.5 of the EM&A Manual.

**Yours sincerely,
For Atkins China Limited**



**Sharifah Or
Independent Environmental Checker**

c.c. HKJC – Mr. Kenneth Lee (By Email)
Rocco Design Architect – Mr. Charles Kung (By Email)

CONTENTS

	<i>EXECUTIVE SUMMARY</i>	<i>I</i>
<i>1</i>	<i>INTRODUCTION</i>	<i>1</i>
<i>1.1</i>	<i>PURPOSE OF THE REPORT</i>	<i>1</i>
<i>1.2</i>	<i>STRUCTURE OF THE REPORT</i>	<i>1</i>
<i>2</i>	<i>PROJECT INFORMATION</i>	<i>3</i>
<i>2.1</i>	<i>BACKGROUND</i>	<i>3</i>
<i>2.2</i>	<i>SITE DESCRIPTION</i>	<i>3</i>
<i>2.3</i>	<i>CONSTRUCTION ACTIVITIES</i>	<i>3</i>
<i>2.4</i>	<i>CONSTRUCTION PROGRAMME</i>	<i>6</i>
<i>2.5</i>	<i>PROJECT ORGANISATION AND MANAGEMENT STRUCTURE</i>	<i>6</i>
<i>2.6</i>	<i>STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS</i>	<i>6</i>
<i>3</i>	<i>ENVIRONMENTAL MONITORING REQUIREMENTS</i>	<i>10</i>
<i>3.1</i>	<i>NOISE MONITORING</i>	<i>10</i>
<i>3.2</i>	<i>CULTURAL HERITAGE</i>	<i>12</i>
<i>3.3</i>	<i>LANDSCAPE AND VISUAL MONITORING</i>	<i>13</i>
<i>3.4</i>	<i>ENVIRONMENTAL REQUIREMENTS IN CONTRACT DOCUMENTS</i>	<i>13</i>
<i>4</i>	<i>IMPLEMENTATION STATUS ON ENVIRONMENTAL MITIGATION MEASURES</i>	<i>14</i>
<i>5</i>	<i>MONITORING RESULTS</i>	<i>15</i>
<i>5.1</i>	<i>NOISE</i>	<i>15</i>
<i>5.2</i>	<i>LANDSCAPE AND VISUAL MONITORING</i>	<i>15</i>
<i>5.3</i>	<i>CULTURAL HERITAGE</i>	<i>18</i>
<i>5.4</i>	<i>WASTE MANAGEMENT</i>	<i>20</i>
<i>5.5</i>	<i>EFFECTIVENESS OF MITIGATION MEASURES AND MONITORING</i>	<i>21</i>
<i>6</i>	<i>ENVIRONMENTAL SITE INSPECTION</i>	<i>22</i>
<i>7</i>	<i>ENVIRONMENTAL NON-CONFORMANCE</i>	<i>24</i>
<i>8</i>	<i>REVIEW OF THE EM&A DATA AND EIA PREDICTIONS</i>	<i>25</i>
<i>8.1</i>	<i>NOISE</i>	<i>25</i>
<i>8.2</i>	<i>WASTE MANAGEMENT</i>	<i>25</i>
<i>8.3</i>	<i>SUMMARY OF REVIEW</i>	<i>26</i>
<i>9</i>	<i>CONCLUSIONS</i>	<i>27</i>

LIST OF TABLES

Table 2.1	<i>Summary of Construction Activities undertaken in this Reporting Period</i>
Table 2.2	<i>Summary of Environmental Licensing, Notification and Permit Status</i>
Table 3.1	<i>Construction Phase Noise Monitoring Locations</i>
Table 3.2	<i>Noise Monitoring Equipment</i>
Table 3.3	<i>Action and Limit Levels for Construction Noise Monitoring</i>
Table 3.4	<i>Alert, Alarm and Action (AAA) Levels for Vibration Monitoring</i>
Table 3.5	<i>Event and Action Plan for vibration monitoring</i>
Table 4.1	<i>Status of Required Submissions</i>
Table 5.1	<i>Findings of Monthly Tree Inspection in the Reporting Period</i>
Table 5.2	<i>Summary of Vibration Monitoring for Trial Piling and Piling Works</i>
Table 5.3	<i>Summary of Vibration Monitoring for Other Construction Works</i>
Table 5.4	<i>Quantities of Waste Generated from the Project</i>
Table 7.1	<i>Summary of Complaint Received</i>
Table 8.1	<i>Comparison of Construction Noise Standard and Noise Monitoring Results</i>
Table 8.2	<i>Quantity of Actual Amount of C&D Materials, General Wastes and Chemical Wastes Generated and EIA Estimation</i>

LIST OF ANNEXES

Annex A	<i>Locations of Works Areas and the Surroundings</i>
Annex A1	<i>Project Location</i>
Annex A2	<i>Declared Monuments within the Project Site</i>
Annex B	<i>Project Organization Chart and Contact Detail</i>
Annex C	<i>Locations of Noise Monitoring Stations and Noise Sensitive Receivers</i>
Annex D	<i>Calibration Reports for Calibrators and Sound Level Meters</i>
Annex E	<i>Event/Action Plans for Noise</i>
Annex F	<i>Summary of Implementation Status</i>
Annex G	<i>Noise Monitoring Results</i>
Annex H	<i>Construction Programme of the Project</i>
Annex I	<i>Waste Flow Table</i>
Annex J	<i>Environmental Complaint, Enquiry, Environmental Summons and Prosecution Log</i>
Annex K	<i>Records of Vibration Monitoring for Trial Piling and Pipe / Bored Piling Works</i>
Annex L	<i>Records of Vibration Monitoring for Other Construction Works</i>
Annex M	<i>A Summary of Current Condition of Character Defining Elements</i>

EXECUTIVE SUMMARY

The construction works of **Central Police Station Conservation and Revitalisation Project** commenced on 24 October 2011. This is the 4th annual Environmental Monitoring and Audit (EM&A) review report summarising the EM&A works carried out during the period from 1 November 2014 and 31 October 2015 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 63 times
- Joint Environmental Site Inspection 12 times
- Heritage Site Inspection 231 times
- Landscape & Visual Monitoring 12 times
- Tree Inspection 12 times
- Vibration monitoring for piling works 1,436 times
- Vibration monitoring for other construction works 864 times

Noise

63 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. Two exceedances of Action Level of construction noise (complaints received) were recorded during the reporting period. No exceedance of Limit Level of construction noise was recorded.

Cultural Heritage

1,436 vibration measurement events were undertaken during the reporting period near Parade Ground, Block 8, Block 17, Block 50 and Block 51. Additionally, a total of 864 numbers of vibration monitoring events at Blocks 1, 11 and 14 were carried out throughout the reporting period.

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

231 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. Twelve 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. 11,847.73 tonnes of inert C&D materials and 2,855.54 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. 51,550 kg of metals and 390 kg of paper/cardboard packaging waste were produced and sent to recyclers for recycling. No plastics waste was recycled during the reporting period. No chemical waste was generated and collected by licenced chemical waste collector during the reporting period.

Environmental Site Inspection

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

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

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

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

No enquiry was received during the reporting period.

No environmental non-compliance event was recorded during the reporting period. 4 non-compliance events related to the character defining elements, historic buildings and structures were recorded during the reporting period.

Six complaints were received during the reporting period.

No summons/prosecutions were 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 4th annual EM&A review report, which summarises the impact monitoring results and audit findings for the EM&A programme during the fourth year of the construction period from 1 November 2014 to 31 October 2015.

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 Jockey Club CPS Limited.

2.2 SITE DESCRIPTION

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

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

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

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

2.3 CONSTRUCTION ACTIVITIES

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

Table 2.1 Summary of Construction Activities undertaken in this Reporting Period

Construction Activities Undertaken
1st Quarter
<ul style="list-style-type: none"> • Structural addition and alteration works at Blocks 2, 3, 4, 6, 9, 10, 11, 13, 14 and 17; • Structural repair works at Blocks 11, 12 and 17; • Underpinning at Blocks 3, 4, 6 and 7; • Excavation at Block 17; • Roof repair works at Blocks 4, 8, 9, 10, 19 and link bridge between Blocks 3 and 9; • Demolition works at Blocks 3, 4, 9 and 14; • New RC structure construction at Blocks 2, 3, 4, 9, 10, 13 and 14; • Paint stripping and plaster repair at Blocks 1, 2, 3, 6, 7, 8, 11, 14 and 15; • Construction of new roof at Block 14; • Demolition of concrete block at Block 8; • Conceal conduit construction and E&M installation at Blocks 1, 2, 6 and 7; • E&M opening at Blocks 1, 3, 6, 7, 10, 11, 12 and 14; • Underground drainage at Block 2; • Timber doors and windows repair works at Blocks 1, 2, 3, 4, 8, 9 and 14; • Transformer delivery and installation in Block 8; • E&M installation at Blocks 1, 7 and 8 and basement plant room; • Paint stripping and plaster works at Blocks 1, 3, 6, 7, 11, 14 and 15; • Façade works at Blocks 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 14, 15 and 17; • Structural timber floor repair at Blocks 3, 6, 7 and 14; • New balcony construction at Block 6; • Balcony repair at Blocks 6, 7, 8, 9 and 10; • Metal works repair at Blocks 3, 11, 13 and 15; • Underground drainage at Blocks 3, 7 and 14; • Service trench and draw pit construction at Zone L2; • Underpinning at Zone L2; • Excavation of M3; • Construction of site wide terminal manhole at Zone M5; • Arbuthnot Road West works; • Excavation works for HEC power cable laying at Old Bailey Street east; • Final reinstatement of traffic island at junction between Arbuthnot Road East and Wyndham Street; • Core wall construction at Arbuthnot Wing; • Basement construction at Old Bailey Wing; • Arbuthnot Wing structure construction; • Old Bailey Wing structure construction; and • Area R19, R22, R24, R54, R174 and R177 upgrading; • Site wide underground services L2, L5 and M5; and • Road works at Old Bailey Street.
2nd Quarter
<ul style="list-style-type: none"> • Structural addition and alteration works at Blocks 3, 4, 9, 10, 11, 12, 13, 14 and 17; • Roof repair works at Blocks 8 and 15; • Balcony repair at Blocks 8, 9 and 10; • Paint stripping and plaster repair at Blocks 2, 3, 9, 10, 11, 14 and 15; • Timber doors and windows repair works at Blocks 2, 3, 4, 7, 8, 9, 10, 13 and 14;

Construction Activities Undertaken

- Structural timber floor repair at Blocks 3, 6, 10 and 14;
- Metal works repair at Blocks 3, 11, 12, 13, 14, 15 and 17;
- Façade works at Blocks 2, 3, 4, 8, 9, 10, 13, 14, 15 and 17;
- Arbuthnot Wing and Old Bailey Wing steel structure construction;
- Old Bailey Wing corewall structure construction;
- E&M opening at Blocks 2, 3, 6, 10, 11, 12 and 14;
- E&M installation at Blocks 1, 2, 3, 6, 7, 8, 9, 11, 12, 14, 17, Arbuthnot Wing and basement plant room;
- Underground drainage at Blocks 2, 3, 6, 7, 10, 11, 15 and sitewide (L1B, L2, L3, L4, L5, L8, M1, M3A, M4 & U2);
- Area R19, R22, R23 and R24 upgrading; and
- Road works at Old Bailey Street and Hollywood Road.

3rd Quarter

- Structural addition and alteration works at Blocks 3, 4, 9, 13, 14 and 17;
- Roof repair works at Blocks 4, 8 and 15;
- Balcony repair at Block 1, 2, 6, 7, 8 and 9;
- Paint stripping and plaster repair at Blocks 3, 9, 14 and 15;
- Timber doors and windows repair works at Blocks 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10;
- Structural timber floor repair at Blocks 3, 6, 7 and 14;
- Metal works repair at Blocks 3, 8, 9, 13, 14 and 15;
- Façade works at Blocks 3, 4, 8, 9, 10, 13 and 14;
- Old Bailey Wing steel structure and corewall construction;
- Builders works at Arbuthnot Wing;
- External façade installation at Arbuthnot Wing;
- E&M opening at Blocks 3, 9, 12, 14 and 15;
- E&M installation at Blocks 1, 3, 6, 7, 8, 9, 11, 14, 17, Arbuthnot Wing and basement plant room;
- Underground drainage at Blocks 3, 4, 10, 13, 14, 15 and sitewide (L1B, L3, L4, L8, L9, M1, M3A, M3B, M4, M5 & U2);
- Area R18, R19, R23 upgrading; and
- Road works at Old Bailey Street and Hollywood Road.

4th Quarter

- Structural A&A works at Blocks 3, 4, 8, 9, 10, 13, 14, 15 and 17;
- Roof repair works at Block 4;
- Balcony repair at Blocks 6, 7, 8 and 9;
- Plaster repair at Blocks 3, 9, 10, 14 and 15;
- Timber doors and windows repair works at Blocks 1, 2, 3, 4, 6, 7, 8, 9, 10, and 14;
- Structural timber floor repair at Blocks 3, 4, 6, 7 and 10;
- Metal works repair at Blocks 3, 8, 10, 13, 14 and 15;
- Façade works at Blocks 3, 4, 9, 10, 13, 14, 15 and 17;
- Old Bailey Wing steel structure & corewall construction;
- Arbuthnot Wing & Old Bailey Wing builders works;
- Arbuthnot Wing external facade installation;
- E&M Opening at Blocks 3, 9, 14 and 15;
- E&M installation at Blocks 1, 3, 6, 8, 9, 14, 15, 17, AW, OBW and basement plant room;
- U/G Drainage at Blocks 4, 10, 11, 13, 14 and sitewide (L1B, L3, L4, L6, L8, L9, L10, M1, M3, M3B, M5, M5B, M6A, U2);
- Area R18 upgrading;

Construction Activities Undertaken

- Road works at Old Bailey Street & Hollywood Road;
 - Retaining wall update at Block 9; and
 - Footbridge construction.
-

2.4 CONSTRUCTION PROGRAMME

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

2.5 PROJECT ORGANISATION AND MANAGEMENT STRUCTURE

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

2.6 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

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

Table 2.2 Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Environmental Permit (EP)	EP-408/2011	-	superseded by EP-408/2001/A
	EP-408/2011/A	-	superseded by EP-408/2001/B
	EP-408/2011/B	Throughout the Contract	Permit granted on 22 March 2012
Notification of Construction Works as required under <i>Air Pollution Control (Construction Dust) Regulation</i>	Ref. No. 332920	Throughout the Contract	-
Registration of Chemical Waste Producer under <i>Waste Disposal Ordinance</i>	Chemical Waste Producer No.: 5213-122-G2347-25	Throughout the Contract	-
Disposal of C&D material/waste	Billing Account Number: 7013338	Throughout the Contract	-
Effluent Discharge License under <i>Water Pollution Control Ordinance</i>	License No. WT00010633-2011	21 Oct 2011 - 31 Oct 2016	-
Notification of Commencement of Asbestos Abatement Work under <i>Air Pollution Control Ordinance</i>	-	Throughout the Contract	EPD's letter (EPD's ref.: (5) in EPAC/A/4/000/23 3 II) dated 2 December 2011 satisfied that the content of the asbestos abatement plan (Report No.: 0210/11/ED/0078A) is in accordance with the APCO
Approval of Asbestos Abatement Work (Phase 2)	-	Earliest commencement date on 26 January 2012.	EPD's letter (EPD's ref.:() in EPAC/A/4/000/23 3) dated 18 January 2012.
Construction Noise Permit (CNP)	GW-RS0734-12	11 July 2012 at 0200 hours to 2 August 2012 at 0400 hours	Expired.
	GW-RS0839-12	13 August 2012 at 1900 hours to 31 December 2012 at 0700 hours	Expired.
	GW-RS1162-12	1 December 2012 at 0000 hours to 28 March 2013 at 0600 hours	Expired.

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 hours	Expired.
GW-RS0434-14	8 May 2014 at 0000 hours to 30 September 2014 at 2400 hours	Expired.
GW-RS0651-14	28 July 2014 at 0000	Expired.

	hours to 26 September 2014 at 2400 hours	
GW-RS0658-14	29 June 2014 at 0000 hours to 28 December 2014 at 2400 hours	Expired.
GW-RS0749-14	1 August 2014 at 0000 hours to 31 January 2015 at 2400 hours	Expired.
GW-RS0918-14	29 September 2014 at 0000 hours to 31 December 2014 at 2400 hours	Expired.
GW-RS0086-15	1 February 2015 at 0000 hours to 30 June 2015 at 2400 hours	Expired
GW-RS0044-15	16 March 2015 at 0100 hours to 24 April 2015 at 0500 hours	Expired
GW-RS0280-15	27 April 2015 at 0000 hours to 26 May 2015 at 2400 hours	Expired.
GW-RS0693-15	6 July 2015 at 0000 hours to 30 July 2015 at 2400 hours	Expired.
GW-RS0707-15	1 July 2015 at 0000 hours to 29 December 2015 at 2400 hours	Cancelled by EPD on 31 July 2015.
GW-RS0241-15	23 March 2015 at 0000 hours to 21 August 2015 at 2400 hours	Expired.
GW-RS0580-15	28 May 2015 at 0000 hours to 25 August 2015 at 2400 hours	Expired.
GW-RS0514-15	21 May 2015 at 0000 hours to 20 November 2015 at 2400 hours	-
GW-RS0696-15	28 June 2015 at 0000 hours to 29 November 2015 at 2400 hours	-

3.1 NOISE MONITORING

3.1.1 Monitoring Location

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

Table 3.1 Construction Phase Noise Monitoring Locations

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

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

3.1.2 Monitoring Parameters, Frequency and Programme

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

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

3.1.3 Monitoring Equipment and Methodology

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

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

Table 3.2 *Noise Monitoring Equipment*

Monitoring Stations	Monitoring Equipment (Sound Level Meter and Calibrator)
NM2, NM6	<u>Calibrator</u> Rion NC-73 (S/N 10486660; S/N 10786708) CEL 120 (S/N 3421612) <u>Sound Level Meter</u> Rion NL-52 (S/N 00131627) CEL 633A (S/N 3521757)

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

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

3.1.4 *Event / Action Plan*

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

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

Notes:

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

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

3.1.5 *Mitigation Measures*

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

3.2 CULTURAL HERITAGE

3.2.1 Vibration Monitoring

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

Baseline Monitoring

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

Vibration Monitoring for Demolition Works

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

Vibration Monitoring for Trial Piling and Pipe/Bored Piling Works

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

Vibration Monitoring for Other Construction Works

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

Alert, Alarm and Action Levels

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

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

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

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

Table 3.5 *Event and Action Plan for Vibration Monitoring*

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

3.2.2 *Mitigation Measures*

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

3.3 *LANDSCAPE AND VISUAL MONITORING*

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

3.3.1 *Mitigation Measures*

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

3.4 *ENVIRONMENTAL REQUIREMENTS IN CONTRACT DOCUMENTS*

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

IMPLEMENTATION STATUS ON ENVIRONMENTAL MITIGATION MEASURES

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

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

Table 4.1 *Status of Required Submissions*

	Submission	Submission Date
<i>EP Condition</i>		
Conditions 3.4	• 36 th Monthly EM&A Report	14 November 2014
	• 37 th Monthly EM&A Report	15 December 2014
	• 38 th Monthly EM&A Report	14 January 2015
	• 39 th Monthly EM&A Report	16 February 2015
	• 40 th Monthly EM&A Report	16 March 2015
	• 41 st Monthly EM&A Report	14 April 2015
	• 42 nd Monthly EM&A Report	14 May 2015
	• 43 rd Monthly EM&A Report	15 June 2015
	• 44 th Monthly EM&A Report	13 July 2015
	• 45 th Monthly EM&A Report	13 August 2015
	• 46 th Monthly EM&A Report	14 September 2015
	• 47 th Monthly EM&A Report	14 October 2015
<i>EM&A Manual</i>		
Section 10.4	• 13 th Quarterly EM&A Report	31 March 2015
	• 14 th Quarterly EM&A Report	5 August 2015
	• 3 rd Annual EM&A Report	16 April 2015

5.1 NOISE

A total of 63 sets of 30-minute construction noise measurements were carried out at each monitoring station, NM2 and NM6, during normal weekdays of the reporting period. The monitoring results together with graphical presentations are presented in *Annex G*. The local impacts observed near the monitoring stations of NM2 and NM6 were summarised below:

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

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

5.2 LANDSCAPE AND VISUAL MONITORING

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

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

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observation / Recommendations
<i>1st Quarter (4 Nov 2014, 4 Dec 2014 and 5 Jan 2015)</i>			
Tree -5	<i>Mangifera indica</i>	Fair	<ul style="list-style-type: none"> • Renovation works were being carried out near the tree. Some white paint due to nearby renovation works was observed on some leaves of the tree. The Contractor was reminded that the tree should be well protected from nearby construction works at all times.
Tree -6	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> • No further action required.
Tree-7	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> • No further action required.
Tree-8	<i>Plumeria rubra</i>	Fair	<ul style="list-style-type: none"> • No further action required.
Tree-9	<i>Araucaria cunninghamia</i>	Fair	<ul style="list-style-type: none"> • No further action required.
Tree-11	<i>Dracaena marginata</i>	Fair/Poor	<ul style="list-style-type: none"> • Withered leaves were observed on the tree; • To keep close monitoring on the growth of the tree.

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observation / Recommendations
2nd Quarter (5 Feb, 5 Mar and 8 Apr 2015)			
Tree -5	<i>Mangifera indica</i>	Fair	<ul style="list-style-type: none"> • Signs of pests (mealy bugs) were observed on some leaves; • To trim off the affected leaves; • To spray pesticide for the tree.
Tree -6	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> • No further action required.
Tree-7	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> • No further action required.
Tree-8	<i>Plumeria rubra</i>	Fair	<ul style="list-style-type: none"> • No further action required.
Tree-9	<i>Araucaria cunninghamia</i>	Fair	<ul style="list-style-type: none"> • No further action required.
Tree-11	<i>Dracaena marginata</i>	Poor	<ul style="list-style-type: none"> • Withered leaves were observed on the tree; • To keep close monitoring on the growth of the tree.
3rd Quarter (4 May, 2 Jun and 6 Jul 2015)			
Tree -5	<i>Mangifera indica</i>	Fair	<ul style="list-style-type: none"> • Signs of pests (mealy bugs) were observed on some leaves; • To trim off the affected leaves; • To spray pesticide for the tree; • Mulch was too moist with fallen leaves in the planter; • To remove the mulch and fallen leaves from the planter; • The decayed mulch and leaves have been removed prior to inspection on 6 July 2015; • Signs of pest (mealy bugs) have been reduced due to pest control operation on 3 July 2015; • To keep close monitoring on the presence of pest on the tree.
Tree -6	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> • Mulch was too moist with fallen leaves in the planter • To remove the mulch and fallen leaves from the planter; • The decayed mulch and leaves have been removed prior to inspection on 6 July 2015.
Tree-7	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> • Mulch was too moist with fallen leaves in the planter; • To remove the mulch and fallen leaves from the planter; • The decayed mulch and leaves have been removed prior to inspection on 6 July 2015.
Tree-8	<i>Plumeria rubra</i>	Fair	<ul style="list-style-type: none"> • Mulch was too moist with fallen leaves in the planter • To remove the mulch and fallen leaves from the planter;

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observation / Recommendations
Tree-9	<i>Araucaria cunninghamia</i>	Fair	<ul style="list-style-type: none"> The decayed mulch and leaves have been removed prior to inspection on 6 July 2015. Mulch was too moist with fallen leaves in the planter; To remove the mulch and fallen leaves from the planter; The decayed mulch and leaves have been removed prior to inspection on 6 July 2015.
Tree-11	<i>Dracaena marginata</i>	Poor	<ul style="list-style-type: none"> Withered leaves were observed on the tree; To keep close monitoring on the growth of the tree.
4th Quarter (5 Aug, 4 Sep and 5 Oct 2015)			
Tree -5	<i>Mangifera indica</i>	Fair	<ul style="list-style-type: none"> Signs of pest (mealy bugs) have been reduced due to pest control operation on 3 July 2015; To keep close monitoring on the presence of pest on the tree; To have more protection work on the trunk (e.g. wrapped with Hessian cloth).
Tree -6	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> No further action required.
Tree-7	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> No further action required.
Tree-8	<i>Plumeria rubra</i>	Fair	<ul style="list-style-type: none"> No further action required.
Tree-9	<i>Araucaria cunninghamia</i>	Fair	<ul style="list-style-type: none"> No further action required..
Tree-11	<i>Dracaena marginata</i>	Poor	<ul style="list-style-type: none"> Withered leaves were observed on the tree; Some wet cement was observed in the planter; Some debris was observed in the planter; To keep close monitoring on the growth of the tree; To place sand bags on the edge of the planter; To tidy up the planter and have more protection work on the tree.

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 / piling works

A summary of vibration monitoring for trial piling and piling works in the reporting period is presented in *Table 5.2*.

Table 5.2 Summary of Vibration Monitoring for Trial Piling and Piling Works

Month/ Date	Works Locations	Number of monitoring at monitoring station
Nov 2014	Parade Ground	25
	Block 8	25
	Block 50	25
	Block 51	25
	Block 17	25
Dec 2014	Parade Ground	25
	Block 8	25
	Block 50	25
	Block 51	25
	Block 17	25
Jan 2015	Parade Ground	26
	Block 8	26
	Block 50	26
	Block 51	26
	Block 17	26
Feb 2015	Parade Ground	18
	Block 8	18
	Block 50	18
	Block 51	18
	Block 17	18
Mar 2015	Parade Ground	26
	Block 8	26
	Block 50	26
	Block 51	26
	Block 17	26
Apr 2015	Parade Ground	22
	Block 8	22
	Block 50	22
	Block 51	22
	Block 17	22
May 2015	Parade Ground	24
	Block 8	24
	Block 50	24
	Block 51	24
	Block 17	24
Jun 2015	Parade Ground	25
	Block 8	25
	Block 50	25
	Block 51	25
	Block 17	25
Jul 2015	Parade Ground	26
	Block 8	26
	Block 50	26
	Block 51	26
	Block 17	26

Month/ Date	Works Locations	Number of monitoring at monitoring station
Aug 2015	Parade Ground	26
	Block 8	26
	Block 50	26
	Block 51	26
	Block 17	26
Sep 2015	Parade Ground	24
	Block 8	24
	Block 50	24
	Block 51	24
	Block 17	24
Oct 2015	Parade Ground	19
	Block 8	25
	Block 50	19
	Block 51	19
	Block 17	19

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

Other construction works

A summary of vibration monitoring for underpinning, strengthening and structural alteration works at Blocks 1, 11 and 14 in the reporting period is presented in *Table 5.3*.

Table 5.3 Summary of Vibration Monitoring for Other Construction Works

Month/ Date	Works Locations	Number of monitoring at monitoring station
Nov 2014	Block 1	25
	Block 11	25
	Block 14	25
Dec 2014	Block 1	25
	Block 11	25
	Block 14	25
Jan 2015	Block 1	26
	Block 11	26
	Block 14	26
Feb 2015	Block 1	18
	Block 11	18
	Block 14	18
Mar 2015	Block 1	26
	Block 11	26
	Block 14	26
Apr 2015	Block 1	22
	Block 11	22
	Block 14	22
May 2015	Block 1	24
	Block 11	24
	Block 14	24
Jun 2015	Block 1	25
	Block 11	25
	Block 14	25
Jul 2015	Block 1	26
	Block 11	26

Month/ Date	Works Locations	Number of monitoring at monitoring station
	Block 14	26
Aug 2015	Block 1	26
	Block 11	26
	Block 14	26
Sep 2015	Block 1	24
	Block 11	24
	Block 14	24
Oct 2015	Block 1	19
	Block 11	25
	Block 14	19

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

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

5.3.2 *Heritage Site Audit*

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

A total of 4 non-compliance reports related to the character defining elements, historic buildings and structures were issued during the reporting period. The non-compliance reports are provided in *Annex M*.

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

5.4 *WASTE MANAGEMENT*

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. Non-inert C&D materials were made up of wastes such as general refuse, which were disposed of at the SENT landfill. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarised in *Table 5.4*. The summary of Waste Flow Table prepared by the Contractor is shown in *Annex I*.

Table 5.4 Quantities of Waste Generated from the Project

Month / Year	Quantity						
	C&D Materials (inert) (tonnes) (a)	C&D Materials (non-inert) (tonnes) (b)	Chemical Waste		Recycled materials		
			Liquid (L)	Solid (kg)	Paper/cardboard (kg)	Plastics (kg)	Metals (kg)
November 2014	1,249.55	336.57	0	0	0	0	6,660
December 2014	1,177.63	260.33	0	0	68	0	12,080
January 2015	614.34	222.32	0	0	0	0	3,000
February 2015	593.97	133.74	0	0	0	0	5,420
March 2015	766.35	245.77	0	0	106	0	8,980
April 2015	594.77	195.55	0	0	0	0	3,370
May 2015	832.50	212.04	0	0	133	0	5,090
June 2015	673.87	222.66	0	0	23	0	0
July 2015	1133.90	184.02	0	0	0	0	6,950
August 2015	1394.20	226.04	0	0	0	0	0
September 2015	942.39	330.23	0	0	0	0	0
October 2015	1874.26	286.27	0	0	60	0	0
Total	11,847.73	2,855.54	0	0	390	0	51,550

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 fourth construction year. No environmental non-compliance events were observed and no exceedances of limit level of construction noise were recorded. 4 non-compliance events related to the character defining elements, historic buildings and structures were recorded during the reporting period. The Contractor has implemented appropriate mitigation measures and took follow up actions to rectify the non-compliance events. The EM&A programme is considered effective.

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

17 November 2014

- Nil.

15 December 2014

- Chemical waste containers were observed without drip tray near Block 17. The Contractor was reminded to remove the chemical waste containers.

19 January 2015

- Nil.

9 February 2015

- Nil.

19 March 2015

- Nil.

28 April 2015

- A number of chemical drums and containers were observed without drip trays at the Parade Ground. The Contractor was reminded to move the chemical drums and containers to the designated chemical storage area.

19 May 2015

- Nil.

16 June 2015

- Nil.

23 July 2015

- Several bags of conbextra were observed not covered by tarpaulin sheet in Block 9. The Contractor was reminded to provide tarpaulin sheet to prevent potential fugitive dust emissions.

27 August 2015

- Nil.

17 September 2015

- Oil stains were observed near a large container which stores a number of chemical waste containers at Parade Ground. The Contractor was reminded to remove the oil stains and store the chemical waste containers to the designated chemical waste store.

22 October 2015

- Nil.

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 Non-Compliance*

No environmental non-compliance event was recorded during the reporting period. 4 non-compliance events related to the character defining elements, historic buildings and structures were recorded during the reporting period.

7.1.4 *Summary of Environmental Complaint*

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

Table 7.1 *Summary of Complaint Received*

Date	Means by which complaint was received	Nature of complaint
17 February 2015	Environmental Protection Department	Dust nuisance
19 March 2015	Gammon Construction Limited	Noise nuisance
4 May 2015	Police	Noise nuisance
18 June 2015	Police	Noise nuisance
4 July 2015	Hong Kong Jockey Club	Noise nuisance
4 August 2015	Environmental Protection Department	Noise nuisance

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

7.1.5 *Summary of Environmental Summons and Successful Prosecution*

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

8.1 NOISE

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

Table 8.1 Comparison of Construction Noise Standard and Noise Monitoring Results

Reporting Month	Monitoring Stations	Corresponding NSR in EIA	Noise Limit Level	Predicted Construction Noise Level (With Mitigation) in EIA	Measured Construction Noise Level
				L _{eq, 30 min} dB(A)	L _{eq, 30 min} dB(A)
Nov 2014	NM2	N2	75	67 - 72	63.8 – 70.1
	NM6	N6	75	73 - 75	64.3 – 69.7
Dec 2014	NM2	N2	75	67 - 72	66.1 – 71.9
	NM6	N6	75	73 - 75	67.1 – 70.6
Jan 2015	NM2	N2	75	67 - 72	64.8 – 71.1
	NM6	N6	75	73 - 75	66.9 – 73.7
Feb 2015	NM2	N2	75	67 - 72	65.5 – 71.1
	NM6	N6	75	73 - 75	65.9 – 70.6
Mar 2015	NM2	N2	75	67 - 72	68.3 – 71.0
	NM6	N6	75	73 - 75	68.2 – 69.1
Apr 2015	NM2	N2	75	67 - 72	62.6 – 73.9
	NM6	N6	75	73 - 75	62.7 – 71.2
May 2015	NM2	N2	75	67 - 72	66.2 – 72.3
	NM6	N6	75	73 - 75	67.3 – 70.6
Jun 2015	NM2	N2	75	67 - 72	67.1 – 71.9
	NM6	N6	75	73 - 75	66.3 – 68.4
Jul 2015	NM2	N2	75	67 - 72	66.5 – 70.5
	NM6	N6	75	73 - 75	66.5 – 68.4
Aug 2015	NM2	N2	75	67 - 72	67.6 – 73.0
	NM6	N6	75	73 - 75	66.9 – 74.8
Sep 2015	NM2	N2	75	67 - 72	68.1 – 74.8
	NM6	N6	75	73 - 75	67.3 – 71.8
Oct 2015	NM2	N2	75	67 - 72	69.5 – 75.0
	NM6	N6	75	73 - 75	70.4 – 73.9

The monitoring results recorded during the reporting period 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	35,256.0 m ³
Amount of C&D Materials (Non-inert) Arising	890 m ³	9,730.5 m ³
General Refuse	130 kg per day	- (c)
Chemical Waste	Less than 100L per month	- 57 L - 395 kg - 7,000 kg of asbestos generated

Notes:

(a) The accumulated actual amount of C&D Materials and chemical waste were recorded since the commencement of construction works.

(b) The volume of waste materials are provided by the Contractor based on the updated waste record in October 2015.

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

8.3 SUMMARY OF REVIEW

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

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

This 4th Annual EM&A review Report presents the EM&A works undertaken during the reporting period from 1 November 2014 to 31 October 2015 in accordance with EM&A Manual.

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

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

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

No enquiry was received during the reporting period.

No environmental non-compliance event was recorded during the reporting period. 4 non-compliance events related to the character defining elements, historic buildings and structures were recorded during the reporting period.

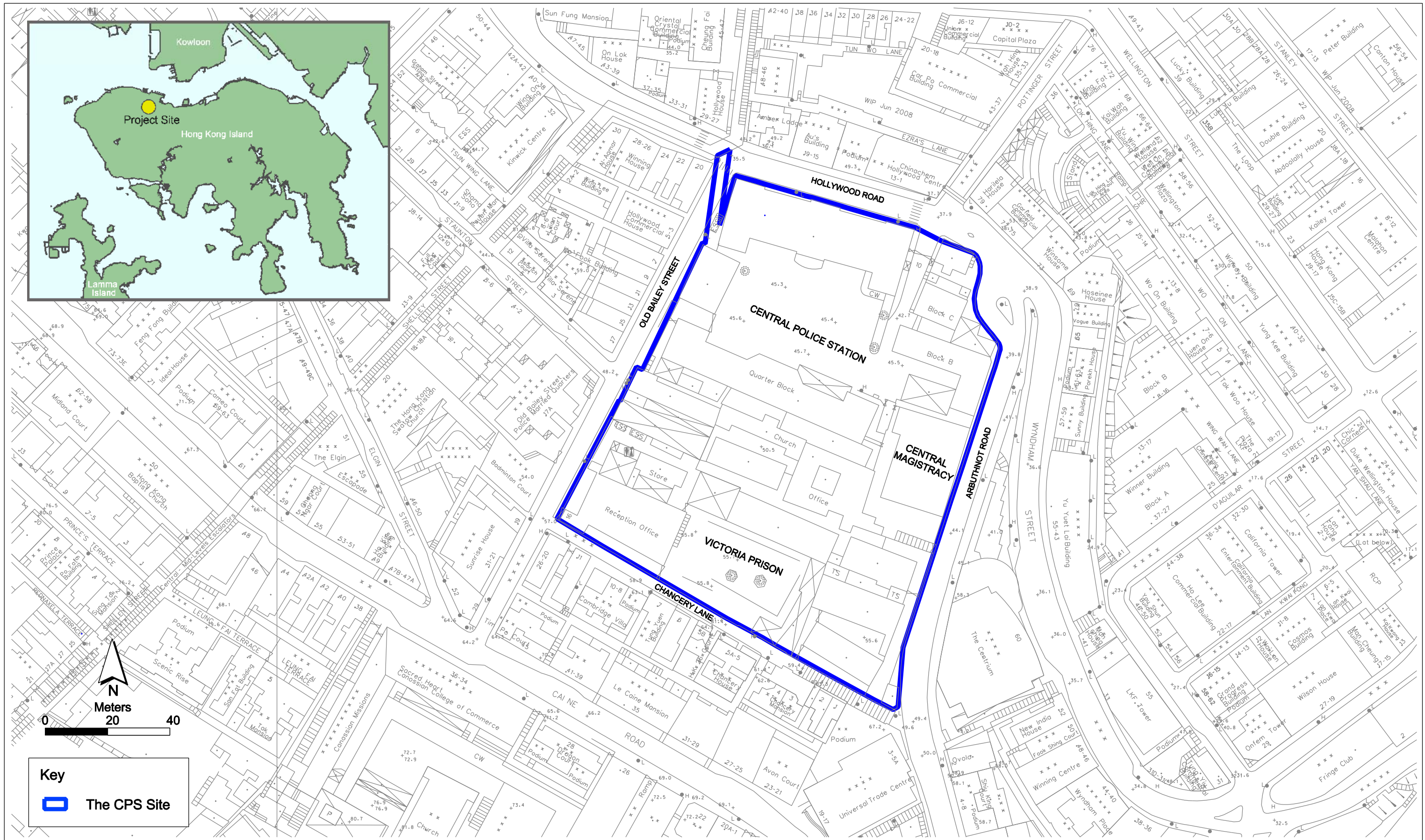
Six complaints were received during the reporting period.

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

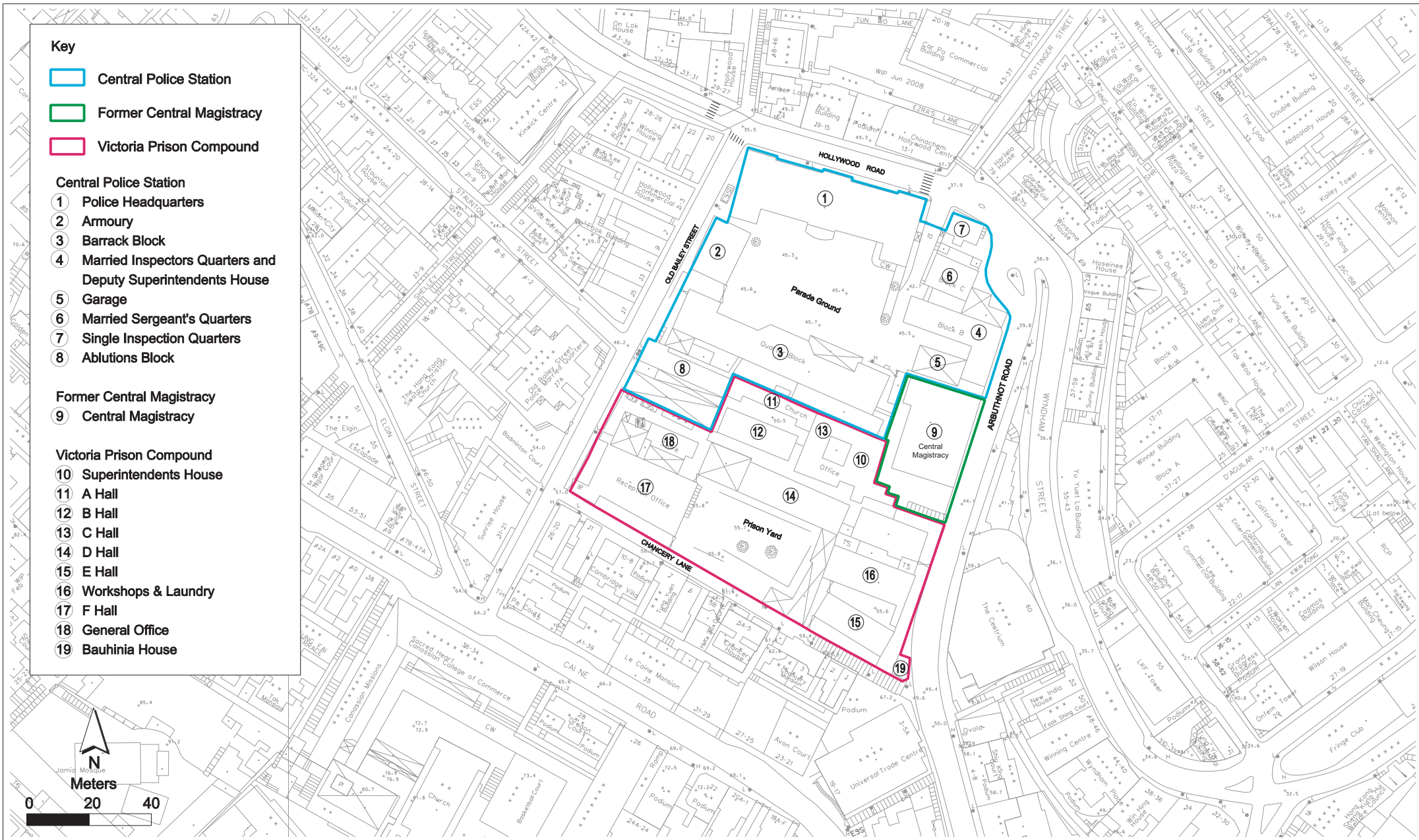
Project Location

**Environmental
Resources
Management**



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

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



Annex A2

Declared Monuments within the Project Site

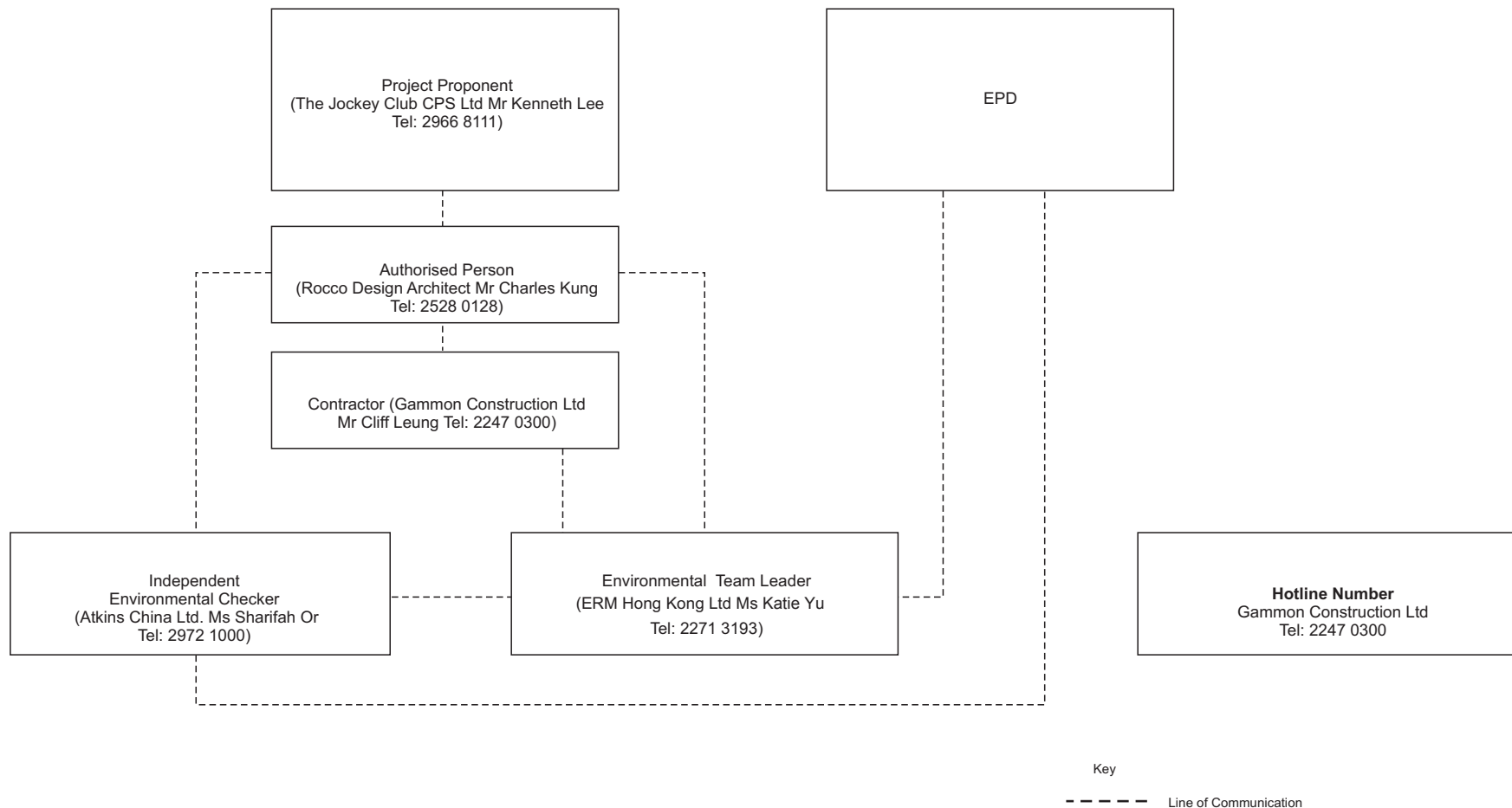
Environmental Resources Management



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

Annex B

Project Organization Chart and Contact Detail



Annex C

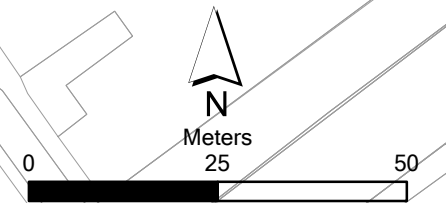
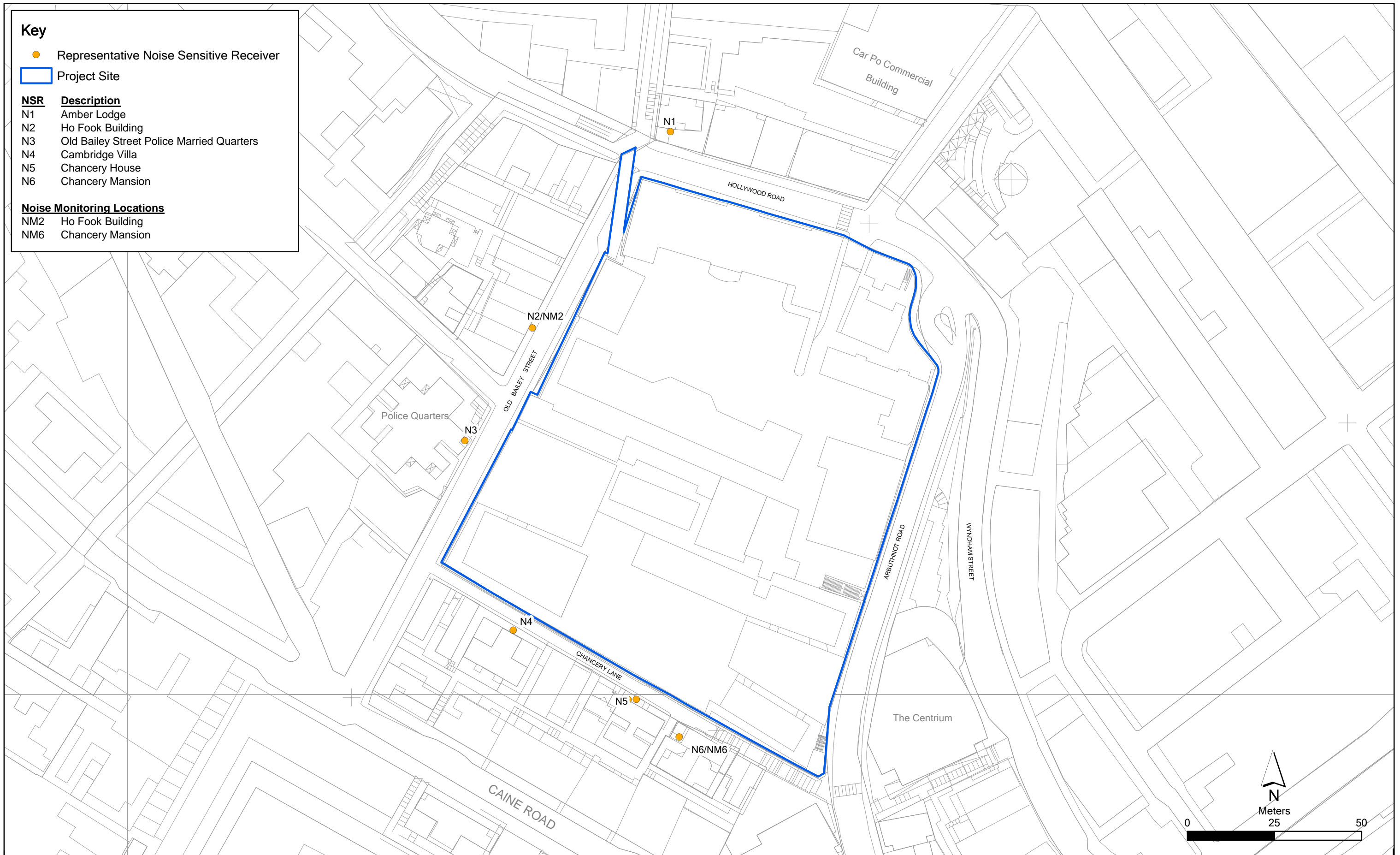
Locations of Noise
Monitoring Stations and
Noise Sensitive Receivers

Key

- Representative Noise Sensitive Receiver
- ▭ Project Site

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

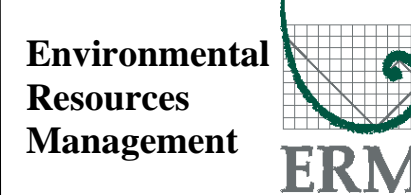
Noise Monitoring Locations	
NM2	Ho Fook Building
NM6	Chancery Mansion



Annex C

Location of Representative Noise Sensitive Receivers and Noise Monitoring Locations

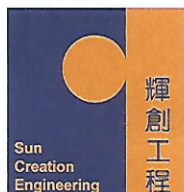
File: 0095646_NSR_NM_May2012.mxd
Date: 09/05/2012



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

Annex D

Calibration Reports for Calibrators and Sound Level Meters



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No. : C147473

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC14-3079) Date of Receipt / 收件日期 : 5 December 2014

Description / 儀器名稱 : Acoustic Calibrator

Manufacturer / 製造商 : Casella

Model No. / 型號 : CEL-120/1

Serial No. / 編號 : 3421612

Supplied By / 委託者 : Envirotech Services Co.

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

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 14 December 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 / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

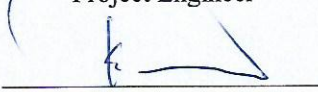
Tested By

測試


K C Lee
Project Engineer

Certified By

核證


K K Wong
Engineer

Date of Issue

簽發日期

17 December 2014

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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 - 校正及檢測實驗室

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Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Certificate of Calibration

校正證書

Certificate No. : C147473

證書編號

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

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C143868
CL281	Multifunction Acoustic Calibrator	DC130171
TST150A	Measuring Amplifier	C141558

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.25	± 0.2
114 dB, 1 kHz	114.1		

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000 0	1 kHz ± 5 Hz	± 0.1

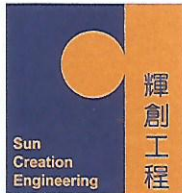
Remark : The uncertainties are for a confidence probability of not less than 95 %.

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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輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No. : C147474

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC14-3079) Date of Receipt / 收件日期 : 5 December 2014

Description / 儀器名稱 : Sound Level Meter

Manufacturer / 製造商 : Casella

Model No. / 型號 : CEL-633A

Serial No. / 編號 : 3521757

Supplied By / 委託者 : Envirotech Services Co.

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

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 14 December 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 / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA


Tested By

測試


K O Lee
Project Engineer

Certified By

核證


K K Wong
Engineer

Date of Issue

簽發日期

17 December 2014

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

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輝創工程有限公司 - 校正及檢測實驗室

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E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Certificate of Calibration

校正證書

Certificate No. : C147474

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 using the Casella Acoustic Calibrator CEL-120/1, S/N : 3421612 was performed before the test.
- The results presented are the mean of 3 measurement at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C140016
CL281	Multifunction Acoustic Calibrator	DC130171

- Test procedure : MA101N.

- Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting		Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Time Weighting	Frequency Weighting	Level (dB)	Freq. (kHz)		
L _F	A	114.00	1	113.9	± 1.1

6.1.2 Linearity

UUT Setting		Applied Value		UUT Reading (dB)
Time Weighting	Frequency Weighting	Level (dB)	Freq. (kHz)	
L _F	A	114.00	1	113.9 (Ref.)
		104.00		103.9
		94.00		93.9

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

6.2 Time Weighting

UUT Setting		Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)	
Time Weighting	Frequency Weighting	Level (dB)	Freq. (kHz)			
L _F	A	114.00	1	113.9	Ref.	
L _S				113.9		± 0.3
L _I				113.9		

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Certificate of Calibration

校正證書

Certificate No. : C147474

證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting		Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Time Weighting	Frequency Weighting	Level (dB)	Freq.		
L _F	A	94.00	63 Hz	87.6	-26.2 ± 1.5
			125 Hz	97.7	-16.1 ± 1.5
			250 Hz	105.2	-8.6 ± 1.4
			500 Hz	110.6	-3.2 ± 1.4
			1 kHz	113.9	Ref.
			2 kHz	115.1	+1.2 ± 1.6
			4 kHz	114.7	+1.0 ± 1.6
			8 kHz	112.4	-1.1(+2.1 ; -3.1)
			12.5 kHz	108.3	-4.3(+3.0 ; -6.0)

6.3.2 C-Weighting

UUT Setting		Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Time Weighting	Frequency Weighting	Level (dB)	Freq.		
L _F	C	94.00	63 Hz	113.0	-0.8 ± 1.5
			125 Hz	113.7	-0.2 ± 1.0
			250 Hz	113.8	0.0 ± 1.0
			500 Hz	113.9	0.0 ± 1.0
			1 kHz	113.9	Ref.
			2 kHz	113.7	-0.2 ± 1.0
			4 kHz	112.9	-0.8 ± 1.0
			8 kHz	110.5	-3.0 (+1.5 ; -3.0)
			12.5 kHz	106.4	-6.2 (+3.0 ; -6.0)

Remarks : - UUT Microphone Model No. : CEL-251 & S/N : 1950

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :

114 dB	: 63 Hz - 125 Hz	: ± 0.45 dB
	250 Hz - 500 Hz	: ± 0.40 dB
	1 kHz	: ± 0.30 dB
	2 kHz - 4 kHz	: ± 0.45 dB
	8 kHz	: ± 0.55 dB
	12.5 kHz	: ± 0.80 dB
104 dB	: 1 kHz	: ± 0.10 dB (Ref. 114 dB)
94 dB	: 1 kHz	: ± 0.10 dB (Ref. 114 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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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 : NC-73
Serial No. / 編號 : 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 / 溫度 : $(23 \pm 2)^{\circ}\text{C}$ Relative Humidity / 相對濕度 : $(55 \pm 20)\%$
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 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 : K C Lee

Certified By : 
核證 : K M Wu

Date of Issue : 4 December 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 written approval of this laboratory.

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Certificate of Calibration

校正證書

Certificate No. : C137683

證書編號

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

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C133632
CL281	Multifunction Acoustic Calibrator	DC130171
TST150A	Measuring Amplifier	C120886

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

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

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	0.991	1 kHz $\pm 2\%$	± 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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輝創工程有限公司

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

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 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.

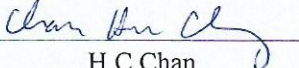
The results are detailed in the subsequent page(s).

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
Engineer

Date of Issue

簽發日期

16 July 2014

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, I Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 – 校正及檢測實驗室

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Page 1 of 2



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.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C143868
CL281	Multifunction Acoustic Calibrator	DC130171
TST150A	Measuring Amplifier	C141558

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

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

5.2 Frequency Accuracy

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

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

Note :

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

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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 : Rion

Model No. / 型號 : NL-52

Serial No. / 編號 : 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 / 溫度 : (23 ± 2)°C

Relative Humidity / 相對濕度 : (55 ± 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.

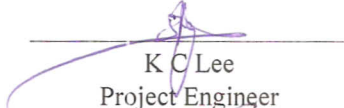
The results are detailed in the subsequent page(s).

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

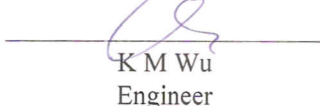
Tested By

測試


K C Lee
Project Engineer

Certified By

核證


K M Wu
Engineer

Date of Issue

簽發日期

20 March 2014

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

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Certificate of Calibration

校正證書

Certificate No. : C141622

證書編號

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

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C140016
CL281	Multifunction Acoustic Calibrator	DC130171

- Test procedure : MA101N.

- Results :

- 6.1 Sound Pressure Level

- 6.1.1 Reference Sound Pressure Level

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

- 6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
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. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

- 6.2 Time Weighting

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

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Certificate of Calibration

校正證書

Certificate No. : C141622
證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
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 ± 1.6
					4 kHz	95.1	+1.0 ± 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

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
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	: ± 0.35 dB
250 Hz - 500 Hz	: ± 0.30 dB
1 kHz	: ± 0.20 dB
2 kHz - 4 kHz	: ± 0.35 dB
8 kHz	: ± 0.45 dB
12.5 kHz	: ± 0.70 dB
104 dB : 1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB : 1 kHz	: ± 0.10 dB (Ref. 94 dB)

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

Note :

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

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

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

Annex E

Event/Action Plans for Noise

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

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

Annex F

Summary of Implementation Status

Annex F Implementation Schedule for Environmental Protection Measures

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
<i>Cultural Heritage</i>					
S3.9.1	S3.2.6	Subject to the outcome of the archaeological investigation, if archaeological deposits are identified to be impacted by the proposed development, appropriate mitigation measures will be recommended and agreed with AMO.	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	<u>Vibration Monitoring</u> 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	<u>Compliance of the Approved Measures and Auditing</u> 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
		<p>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.</p> <p>The Heritage Checker shall also attend the regular site meetings with AMO and report the compliance and effectiveness of the mitigation measures for cultural heritage.</p>			
S3.9.3	S3.3.4	<p><u>Archival Recording</u></p> <p>An archival recording should be conducted to provide a detailed reference for the update of the Conservation Management Plan and inventory of historical features of the monuments, the preparation of as-built drawings showing the condition of the historic buildings and structures after the completion of the construction works. These archival records will be a reference source for future maintenance of the character defining elements, conservation of the monuments, interpretation and conservation education of the Site. The archival recording shall include but not limit to the video and photographic recording on the detailed process of the repair trials for different kinds of historical features, conservation works of character defining elements and historic fabrics of the monuments, and a written records of any new changes to the detailed design made in the construction phase illustrate with photos and drawings. A full set of the archives records (including both hard and soft copies) should be submitted to the AMO for approval after the work completion for record purpose. Any new findings related to the conservation of built heritage in the Site identified during the detailed design stage and construction phases shall be properly recorded in details for notification to the AMO and update of the Conservation Management Plan.</p>	Whole Site	During detailed design, construction and prior to operation	N/A – Archival recording will be conducted at later stage.
S3.7.3	-	<p><u>General Construction Methods</u></p> <p>Prior to the commencement of the modification/refurbishment works at an existing building or structure (e.g. masonry walls near the Old Bailey Wing) , a site survey will be carried out by the design team, and all building dimensions and levels of the building/structure shown will be</p>	Whole site	During construction	<>

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		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.			
S3.7.1 & 3.7.2	-	<p>Implementation and update of the Conservation Management Plan (CMP). Any new findings related to the conservation of the built heritage in the site identified during the detailed design and construction stage shall be properly recorded in details for the notification to the AMO and update in the CMP. After the construction, a cartographic and photographic recording on the restored historic buildings, historic features and the site shall be conducted and the following records shall be included into the CMP as appendices for updating and record purpose:</p> <ul style="list-style-type: none"> • one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and • an updated inventory list of the historic features together with the cross referenced location plans and photo records. <p>One set of updated CMP shall be submitted to the AMO for approval before the operation stage of the project.</p>	Whole site	During detailed design, construction, post-construction and operation	√ - CMP was implemented during the reporting month. There were no updates for the CMP.

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

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

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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		top and bottom edge so that old and new are equally visible. An independent frame should be strategically positioned in order to ensure minimal disturbance to the original wall, and provide the main structural support and planting surface for the green wall. The frame on to which the new green will be planted should contain its own irrigation system so that moisture for the plants will remain mainly on the planting surface and not the existing wall behind. The planting chosen should be appropriate to the Hong Kong climate, requiring relatively little maintenance to sustain the quality of both plants and wall.			
S4.7.2	-	<u>New Custom Paving</u> 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	<u>In-situ Tree Protection - Quarterly inspection</u> Quarterly Inspection of affected and newly planted trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office for a period of 12 months after construction.	Whole site	During post construction and operation	N/A – The quarterly inspection will be conducted at later stage.
<i>Noise</i>					
S5.9	-	The following site practices should be followed during the construction of the Project: <ul style="list-style-type: none"> • Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase; • Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase; • Mobile plant, if any, will be sited as far away from NSRs as possible; 	Whole Site	During construction	√

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

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

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

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

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

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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical Waste Treatment Centre at Tsing Yi	During construction and operation	√
S8.5	S6 & Table 6.1	<u>General Refuse</u> General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the transfer station, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts.	Whole site	During construction	√
S8.5	S6	Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Site. Materials recovered will be sold for recycling.	Whole site	During construction and operation	√
S8.5	S6	<u>Staff Training</u> At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.	Whole site	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

Noise Monitoring Results

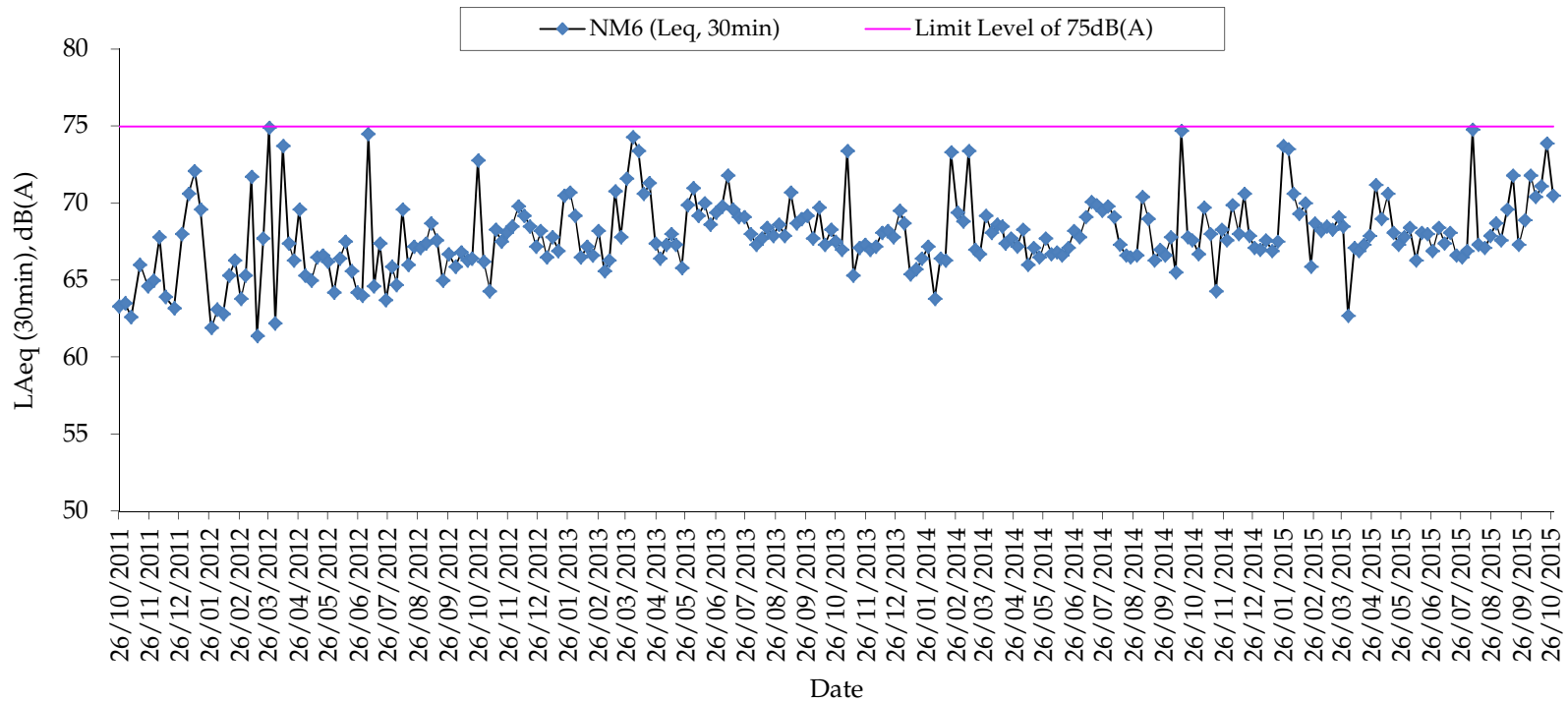
Annex G - Cumulative Noise Monitoring Results

Station	Date	Noise Levels, dB(A) 30 mins			Limit Level, dB(A) 30 mins
		Leq	L10	L90	Leq
NM2 Ho Fook Building	06-Nov-14	68.2	70.4	65.7	75
NM2 Ho Fook Building	12-Nov-14	70.1	71.6	66.9	75
NM2 Ho Fook Building	18-Nov-14	63.8	66.4	61.4	75
NM2 Ho Fook Building	24-Nov-14	68.1	69.8	65.4	75
NM2 Ho Fook Building	29-Nov-14	69.6	71.3	66.8	75
NM2 Ho Fook Building	05-Dec-14	66.1	67.6	63.7	75
NM2 Ho Fook Building	11-Dec-14	71.9	74.2	69.0	75
NM2 Ho Fook Building	17-Dec-14	68.1	70.4	65.5	75
NM2 Ho Fook Building	22-Dec-14	69.6	71.0	66.6	75
NM2 Ho Fook Building	27-Dec-14	69.2	71.3	65.3	75
NM2 Ho Fook Building	02-Jan-15	69.6	72.6	65.2	75
NM2 Ho Fook Building	08-Jan-15	70.3	73.2	65.5	75
NM2 Ho Fook Building	14-Jan-15	71.1	72.7	68.3	75
NM2 Ho Fook Building	20-Jan-15	64.8	66.6	62.5	75
NM2 Ho Fook Building	26-Jan-15	71.1	75.0	67.2	75
NM2 Ho Fook Building	31-Jan-15	70.5	72.7	67.1	75
NM2 Ho Fook Building	05-Feb-15	71.1	73.2	67.6	75
NM2 Ho Fook Building	11-Feb-15	70.1	72.5	66.4	75
NM2 Ho Fook Building	17-Feb-15	69.5	72.2	64.5	75
NM2 Ho Fook Building	23-Feb-15	65.5	67.1	63.2	75
NM2 Ho Fook Building	27-Feb-15	70.4	72.2	66.7	75
NM2 Ho Fook Building	05-Mar-15	68.8	70.4	66.4	75
NM2 Ho Fook Building	11-Mar-15	70.0	73.6	63.7	75
NM2 Ho Fook Building	17-Mar-15	68.3	70.5	63.7	75
NM2 Ho Fook Building	23-Mar-15	70.7	72.7	67.5	75
NM2 Ho Fook Building	28-Mar-15	71.0	72.8	68.0	75
NM2 Ho Fook Building	02-Apr-15	62.6	64.1	60.8	75
NM2 Ho Fook Building	08-Apr-15	67.4	69.0	65.3	75
NM2 Ho Fook Building	13-Apr-15	69.3	72.0	65.5	75
NM2 Ho Fook Building	18-Apr-15	71.3	73.8	67.3	75
NM2 Ho Fook Building	24-Apr-15	66.5	68.9	64.1	75
NM2 Ho Fook Building	30-Apr-15	73.9	76.8	66.0	75
NM2 Ho Fook Building	06-May-15	72.3	75.8	66.3	75
NM2 Ho Fook Building	12-May-15	66.2	67.5	64.5	75
NM2 Ho Fook Building	18-May-15	69.3	71.3	66.2	75
NM2 Ho Fook Building	23-May-15	68.9	70.2	65.7	75
NM2 Ho Fook Building	29-May-15	69.9	72.4	66.5	75
NM2 Ho Fook Building	04-Jun-15	68.4	70.2	66.1	75
NM2 Ho Fook Building	10-Jun-15	70.5	73.1	66.7	75
NM2 Ho Fook Building	16-Jun-15	68.5	69.9	65.0	75
NM2 Ho Fook Building	22-Jun-15	67.1	68.4	64.9	75
NM2 Ho Fook Building	27-Jun-15	71.9	74.5	68.7	75
NM2 Ho Fook Building	03-Jul-15	70.5	73.5	66.0	75
NM2 Ho Fook Building	09-Jul-15	68.8	70.4	65.2	75
NM2 Ho Fook Building	15-Jul-15	69.0	71.0	65.2	75
NM2 Ho Fook Building	21-Jul-15	66.5	67.6	64.6	75
NM2 Ho Fook Building	27-Jul-15	66.5	67.6	64.8	75
NM2 Ho Fook Building	01-Aug-15	67.6	69.6	65.3	75
NM2 Ho Fook Building	07-Aug-15	70.2	71.7	68.1	75
NM2 Ho Fook Building	13-Aug-15	70.3	72.3	67.7	75
NM2 Ho Fook Building	19-Aug-15	73.0	74.6	69.5	75
NM2 Ho Fook Building	25-Aug-15	71.8	74.4	68.8	75
NM2 Ho Fook Building	31-Aug-15	72.1	74.2	68.5	75
NM2 Ho Fook Building	05-Sep-15	70.6	72.4	67.1	75
NM2 Ho Fook Building	11-Sep-15	68.1	69.6	66.4	75
NM2 Ho Fook Building	17-Sep-15	74.8	77.3	72.3	75
NM2 Ho Fook Building	23-Sep-15	72.0	74.8	69.5	75
NM2 Ho Fook Building	29-Sep-15	74.5	77.8	67.5	75
NM2 Ho Fook Building	05-Oct-15	75.0	78.2	71.0	75
NM2 Ho Fook Building	10-Oct-15	74.8	78.3	69.6	75
NM2 Ho Fook Building	16-Oct-15	70.0	71.0	69.0	75
NM2 Ho Fook Building	22-Oct-15	69.5	71.4	67.2	75
NM2 Ho Fook Building	28-Oct-15	74.8	77.8	70.6	75

Annex G - Cumulative Noise Monitoring Results

Station	Date	Noise Levels, dB(A) 30 mins			Limit Level, dB(A) 30 mins
		Leq	L10	L90	Leq
NM6 Chancery Mansion	06-Nov-14	69.7	71.6	66.3	75
NM6 Chancery Mansion	12-Nov-14	68.0	69.4	65.7	75
NM6 Chancery Mansion	18-Nov-14	64.3	66.1	61.6	75
NM6 Chancery Mansion	24-Nov-14	68.3	69.5	65.4	75
NM6 Chancery Mansion	29-Nov-14	67.6	68.8	65.1	75
NM6 Chancery Mansion	05-Dec-14	69.9	72.7	66.7	75
NM6 Chancery Mansion	11-Dec-14	68.0	69.7	65.7	75
NM6 Chancery Mansion	17-Dec-14	70.6	72.9	67.2	75
NM6 Chancery Mansion	22-Dec-14	67.9	69.4	64.8	75
NM6 Chancery Mansion	27-Dec-14	67.1	68.7	64.6	75
NM6 Chancery Mansion	02-Jan-15	67.0	68.6	63.5	75
NM6 Chancery Mansion	08-Jan-15	67.6	69.7	63.8	75
NM6 Chancery Mansion	14-Jan-15	66.9	68.4	64.6	75
NM6 Chancery Mansion	20-Jan-15	67.5	69.1	64.6	75
NM6 Chancery Mansion	26-Jan-15	73.7	75.9	70.5	75
NM6 Chancery Mansion	31-Jan-15	73.5	75.8	69.4	75
NM6 Chancery Mansion	05-Feb-15	70.6	72.3	66.9	75
NM6 Chancery Mansion	11-Feb-15	69.3	72.3	65.2	75
NM6 Chancery Mansion	17-Feb-15	70.0	71.9	65.6	75
NM6 Chancery Mansion	23-Feb-15	65.9	67.3	63.8	75
NM6 Chancery Mansion	27-Feb-15	68.7	70.1	65.9	75
NM6 Chancery Mansion	05-Mar-15	68.2	69.6	66.0	75
NM6 Chancery Mansion	11-Mar-15	68.5	71.2	64.1	75
NM6 Chancery Mansion	17-Mar-15	68.3	70.1	66.1	75
NM6 Chancery Mansion	23-Mar-15	69.1	70.7	67.1	75
NM6 Chancery Mansion	28-Mar-15	68.5	70.2	66.6	75
NM6 Chancery Mansion	02-Apr-15	62.7	63.7	61.6	75
NM6 Chancery Mansion	08-Apr-15	67.1	68.6	64.8	75
NM6 Chancery Mansion	13-Apr-15	66.9	68.7	64.9	75
NM6 Chancery Mansion	18-Apr-15	67.3	68.7	65.4	75
NM6 Chancery Mansion	24-Apr-15	67.9	69.2	65.8	75
NM6 Chancery Mansion	30-Apr-15	71.2	73.1	67.9	75
NM6 Chancery Mansion	06-May-15	69.0	70.7	66.8	75
NM6 Chancery Mansion	12-May-15	70.6	72.7	66.6	75
NM6 Chancery Mansion	18-May-15	68.1	69.9	66.0	75
NM6 Chancery Mansion	23-May-15	67.3	68.8	65.7	75
NM6 Chancery Mansion	29-May-15	67.8	69.2	65.7	75
NM6 Chancery Mansion	04-Jun-15	68.4	70.0	66.7	75
NM6 Chancery Mansion	10-Jun-15	66.3	67.5	64.8	75
NM6 Chancery Mansion	16-Jun-15	68.1	69.6	65.6	75
NM6 Chancery Mansion	22-Jun-15	68.0	69.2	65.6	75
NM6 Chancery Mansion	27-Jun-15	66.9	68.5	64.6	75
NM6 Chancery Mansion	03-Jul-15	68.4	69.9	65.1	75
NM6 Chancery Mansion	09-Jul-15	67.4	68.7	65.5	75
NM6 Chancery Mansion	15-Jul-15	68.1	70.3	65.9	75
NM6 Chancery Mansion	21-Jul-15	66.6	68.0	64.9	75
NM6 Chancery Mansion	27-Jul-15	66.5	67.3	65.3	75
NM6 Chancery Mansion	01-Aug-15	66.9	68.3	65.5	75
NM6 Chancery Mansion	07-Aug-15	74.8	76.8	71.2	75
NM6 Chancery Mansion	13-Aug-15	67.3	68.7	64.9	75
NM6 Chancery Mansion	19-Aug-15	67.1	69.1	65.4	75
NM6 Chancery Mansion	25-Aug-15	67.9	70.0	65.3	75
NM6 Chancery Mansion	31-Aug-15	68.7	70.3	66.3	75
NM6 Chancery Mansion	05-Sep-15	67.6	68.9	64.8	75
NM6 Chancery Mansion	11-Sep-15	69.6	71.0	68.1	75
NM6 Chancery Mansion	17-Sep-15	71.8	73.3	69.9	75
NM6 Chancery Mansion	23-Sep-15	67.3	68.8	64.4	75
NM6 Chancery Mansion	29-Sep-15	68.9	70.3	66.0	75
NM6 Chancery Mansion	05-Oct-15	71.8	73.5	69.8	75
NM6 Chancery Mansion	10-Oct-15	70.4	72.1	66.9	75
NM6 Chancery Mansion	16-Oct-15	71.1	72.5	68.4	75
NM6 Chancery Mansion	22-Oct-15	73.9	77.4	69.1	75
NM6 Chancery Mansion	28-Oct-15	70.5	71.8	68.5	75

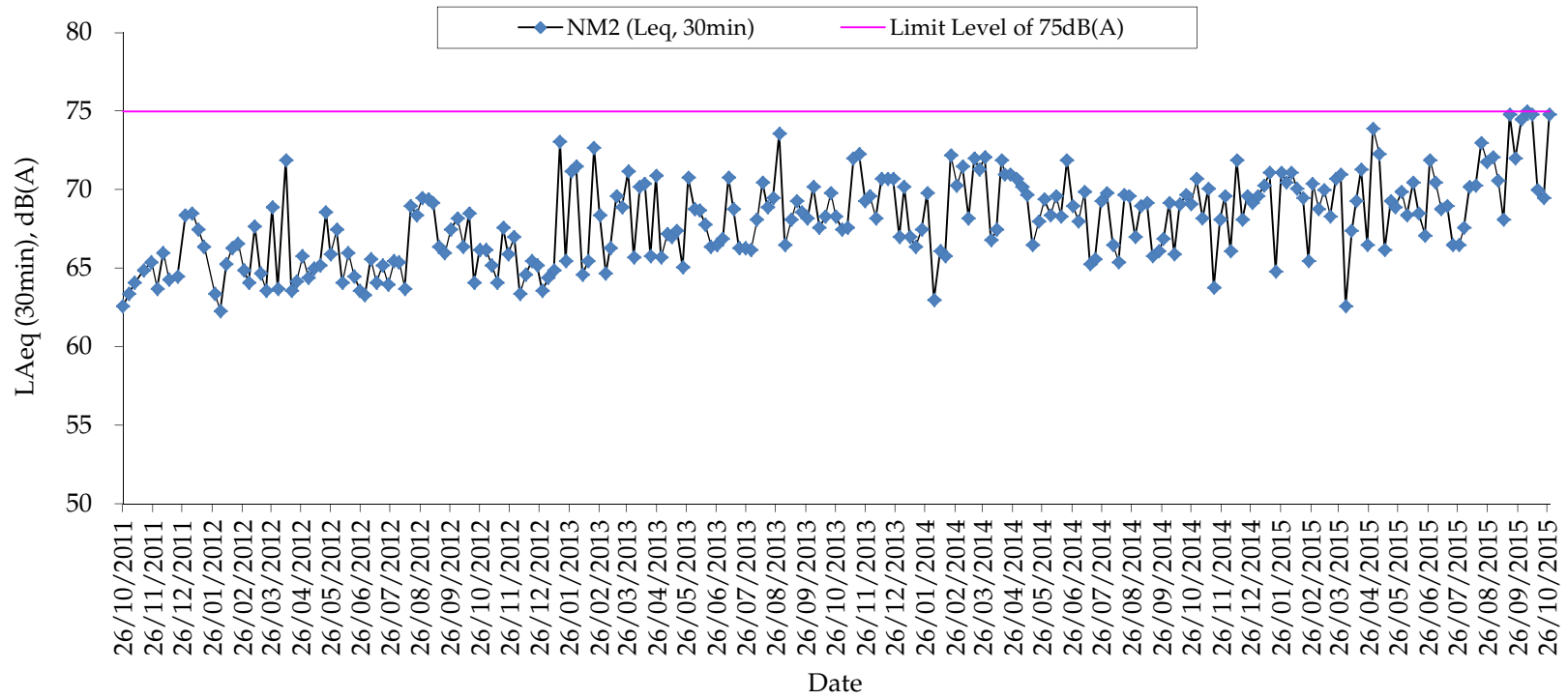
Normal Weekdays Noise Monitoring Results at NM6 - Chancery Mansion (Leq, 30min)



Remark:

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

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



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

Annex H

Construction Programme of the Project

Activity ID	Activity Description	Dur (Cal Days)	Start Date	Finish Date	Rev 6A Start	Rev 6A Finish	2012												2013												2014												2015												2016																							
							M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D														
EXISTING BUILDING																																																																														
Block 1																																																																														
010005-18	BLOCK 1 - POLICE HEADQUARTERS MAJOR WORKS	932*	03OCT12A	22APR15	03OCT12A	14MAR15	BLOCK 1 - POLICE HEADQUARTERS MAJOR WORKS																																																																							
010005-22	BLOCK 1 - SERV. CORRIDOR&WORKS AFTER CATWALK	271*	18AUG14A	15MAY15	18AUG14A	16APR15	BLOCK 1 - SERV. CORRIDOR&WORKS AFTER CATWALK																																																																							
010005-30	BLK 1-O/S WORK AFTER SITE OFFICE VACATED+SIGNAGE	204*	02JUL15	21JAN16	02JUL15	15FEB16	BLK 1-O/S WORK AFTER SITE OFFICE VACATED+SIGNAGE																																																																							
Central Basement Plant Room																																																																														
010005-35	CENTRAL BASEMENT PLANT ROOM	968*	04OCT12A	29MAY15	04OCT12A	21MAY15	CENTRAL BASEMENT PLANT ROOM																																																																							
Block 2																																																																														
020005-05	BLOCK 2 - ARMOURY & STORE	838*	03MAY13A	18AUG15	03MAY13A	14JUL15	BLOCK 2 - ARMOURY & STORE																																																																							
Block 3																																																																														
030005-05	BLOCK 3 - BARRACK BLOCK	1,066*	21MAR13A	19FEB16	21MAR13A	13JAN16	BLOCK 3 - BARRACK BLOCK																																																																							
030005-20	BLOCK 3 - REMAINING FACADE REPAIR WORK	136*	16JUL15	28NOV15	22JUN15	21DEC15	BLOCK 3 - REMAINING FACADE REPAIR WORK																																																																							
Block 4																																																																														
040005-05	BLOCK 4 - DORMITORY BLOCK A & B	869*	12AUG13A	28DEC15	12AUG13A	06JAN16	BLOCK 4 - DORMITORY BLOCK A & B																																																																							
040005-30	BLOCK 4 - T & C	32*	18DEC15	18JAN16	21DEC15	20JAN16	BLOCK 4 - T & C																																																																							
040005-40	BLOCK 4 - STATUTORY INSPECTIONS	55*	30DEC15	22FEB16	30DEC15	22FEB16	BLOCK 4 - STATUTORY INSPECTIONS																																																																							
Block 5																																																																														
050002	Block 5 (Demolition Only)	159*	16JUN14A	21NOV14A	16JUN14A	26NOV14	Block 5 (Demolition Only)																																																																							
Block 6																																																																														
060005-05	BLOCK 6 - DORMITORY BLOCK C	915*	18FEB13A	21AUG15	18FEB13A	05AUG15	BLOCK 6 - DORMITORY BLOCK C																																																																							
Block 7																																																																														
070005-05	BLOCK 7 - DORMITORY BLOCK D	852*	19MAR13A	18JUL15	19MAR13A	30JUL15	BLOCK 7 - DORMITORY BLOCK D																																																																							
Block 8																																																																														
080010-05	BLOCK 8 - ABLUTIONS BLOCK	1,205*	23APR12A	10AUG15	23APR12A	27JUL15	BLOCK 8 - ABLUTIONS BLOCK																																																																							
080010-30	BLOCK 8 - REMAINING FACADE REPAIR WORK	71*	09OCT15	18DEC15	08OCT15	17DEC15	BLOCK 8 - REMAINING FACADE REPAIR WORK																																																																							
Block 9																																																																														
090005-05	BLOCK 9 - CENTRAL MAGISTRACY	877*	17JUN13A	10NOV15	17JUN13A	27OCT15	BLOCK 9 - CENTRAL MAGISTRACY																																																																							
Block 10																																																																														
100010-05	BLOCK 10 - SUPERINTENDENT HOUSE	1,050*	11JAN13A	26NOV15	11JAN13A	28OCT15	BLOCK 10 - SUPERINTEND																																																																							
Block 11																																																																														
110010-05	BLOCK 11 - A HALL	986*	10NOV12A	23JUL15	10NOV12A	27JUL15	BLOCK 11 - A HALL																																																																							
110010-30	BLOCK 11 - A HALL REMAIN FACADE REPAIR WORK	128*	19AUG15	24DEC15	16JUL15	24DEC15	BLOCK 11 - A HALL REMAIN FACADE REPAIR WORK																																																																							
Block 12																																																																														
120010-05	BLOCK 12 - B HALL	1,023*	10NOV12A	29AUG15	10NOV12A	07AUG15	BLOCK 12 - B HALL																																																																							
Block 13																																																																														
130010-05	BLOCK 13 - C HALL	1,056*	18JAN13A	09DEC15	18JAN13A	24NOV15	BLOCK 13 - C HALL																																																																							
130010-35	BLOCK 13 - C HALL REMAIN FACADE REPAIR WORK	79*	06AUG15	23OCT15	04JUL15	21NOV15	BLOCK 13 - C HALL REMAIN FACADE REPAIR WORK																																																																							
Block 14																																																																														
140010-03	BLOCK 14 EAST WING D HALL	1,112*	22OCT12A	07NOV15	22OCT12A	20OCT15	BLOCK 14 EAST WING D HALL																																																																							
140035-03	BLOCK 14 - WEST WING D HALL	1,052*	08JAN13A	25NOV15	08JAN13A	16OCT15	BLOCK 14 - WEST WING D HALL																																																																							
Block 15																																																																														
150010-05	BLOCK 15 - E HALL	829*	10JUN13A	16SEP15	10JUN13A	29AUG15	BLOCK 15 - E HALL																																																																							
Block 17																																																																														
170010-02	BLOCK 17 - F HALL	1,199*	02MAY12A	13AUG15	02MAY12A	12AUG15	BLOCK 17 - F HALL																																																																							
Block 19																																																																														
190005-05	BLOCK 19 - BAUHINIA HOUSE	775*	01AUG13A	14SEP15	01AUG13A	02SEP15	BLOCK 19 - BAUHINIA HOUSE																																																																							
T & C / INSPECTION & HANDOVER																																																																														
S400	- T & C - BLOCK 1 TO 19 (EXCL BLOCK 4)	294*	08APR15	26JAN16	17FEB15	13JAN16	- T & C - BLOCK 1 TO 19 (EXCL BLOCK 4)																																																																							
S410	-STATUTORY INSPECTION (EXCL BLOCK 4)	50*	12NOV15	31DEC15	09NOV15	24DEC15	-STATUTORY INSPECTION (EXCL BLOCK 4)																																																																							
S415	- FINAL HANDOVER INSPECTION	120*	05JAN16	03MAY16	29DEC15	26APR16	- FINAL HANDOVER INSPECTION																																																																							

Start Date	07JUL10
Finish Date	04MAY16
Data Date	27NOV14
Run Date	28NOV14 17:34

	Early Bar
	Rev6A Bar
	Progress Bar

4L02

CENTRAL POLICE STATION
CONSERVATION AND REVITALIZATION
CONSTRUCTION PROGRAMME (Rev 6A)
SUMMARY PROGRAMME OF HISTORIC & NEW BUILDINGS
(WITH PROGRESS AS OF 27 NOV 2014)

Sheet 1 of 2



Date		Revision		Checked	Approved
30OCT14					

Activity ID	Activity Description	Dur (Cal Days)	Start Date	Finish Date	Rev 6A Start	Rev 6A Finish	2012												2013												2014												2015												2016																							
							M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D														
NEW BUILDINGS																																																																														
OBW																																																																														
OBW-0010	OLD BAILEY WING	1,374*	30MAR12A	02JAN16	30MAR12A	24DEC15																																																																								
AW																																																																														
AW-0010	ARBUTHNOT WING	1,291*	08MAY12A	19NOV15	08MAY12A	07NOV15																																																																								
INSPECTION & HANDOVER																																																																														
OBW-0015	- APPLY FOR WATER SUPPLY & CONNECTION	66*	10OCT15	14DEC15	10OCT15	26NOV15																																																																								
OBW-0020	- STATUTORY INSPECTION (NEW BLDGS)	50*	12NOV15	31DEC15	09NOV15	24DEC15																																																																								
OBW-0025	- OP ACHIEVED	0		31DEC15		24DEC15																																																																								
OBW-0030	- HANDOVER INPSECTION (NEW BLDGS)	120*	05JAN16	03MAY16	29DEC15	26APR16																																																																								
OBW-0035	- PRACTICAL COMPLETION	0		03MAY16		26APR16																																																																								
SIGNAGE																																																																														
SIGNAGE																																																																														
SN-0010	-SIGNAGE	92*	10OCT15	09JAN16	02OCT15	31DEC15																																																																								

Start Date 07JUL10
 Finish Date 04MAY16
 Data Date 27NOV14
 Run Date 28NOV14 17:34

4L02 Sheet 2 of 2

**CENTRAL POLICE STATION
 CONSERVATION AND REVITALIZATION
 CONSTRUCTION PROGRAMME (Rev 6A)
 SUMMARY PROGRAMME OF HISTORIC & NEW BUILDINGS
 (WITH PROGRESS AS OF 27 NOV 2014)**



GCL / P / J3416 / CP06A/SUM/ HIST BLDG			
Date	Revision	Checked	Approved
30OCT14	Reviewed		

Annex I

Waste Flow Table

Annex I – Waste Flow Table

Month / Year	Quantity											
	C&D Materials (inert) (tonnes) ^(a)	Number of Trucks for C&D Materials Disposal (inert)	Volume of C&D Materials (inert) (m ³) ^(a)	C&D Materials (non-inert) (tonnes) ^(b)	Number of Trucks for C&D Materials Disposal (non-inert)	Volume of C&D Materials (non- inert) (m ³) ^(b)	Chemical Waste (Solid /kg)	Chemical Waste (Liquid/L)	Recycled materials			
									Paper/cardboard (kg)	Plastics (kg)	Metals (kg)	
October 2011 – November 2011	0	0	0	33.5	12	58.50	0	0	38	6	36423	
December-11	0	0	0	18.25	6	29.25	0	0	112	0	24000	
January-12	354.14	40	195.00	16.88	5	24.38	2400	0	0	0	3820	
February-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	
June-12	383.11	45	219.38	27.41	8	39.00	40	45	0	0	1100	
July-12	217.98	25	121.88	23.22	8	39.00	0	0	302	0	1750	
August-12	341.87	42	204.75	48.87	16	78.00	0	0	0	0	2310	
September-12	227.7	29	141.38	37.99	12	58.50	0	0	383	0	1410	
October-12	290.58	44	214.50	30.34	8	39.00	0	0	86	0	3150	
November-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	
January-13	273.64	34	165.75	276.17	74	360.75	0	0	172	0	8120	
February-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	
May-13	2679.91	317	1545.38	176.68	44	214.50	0	0	62	0	17286	
June-13	3062.38	356	1735.50	212.63	56	273.00	0	0	0	0	7150	
July-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	
September-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	
November-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	
January-14	3813.53	400	1950.00	97.87	36	175.50	0	0	0	0	14110	
February-14	3378.16	316	1540.50	37.84	14	68.25	0	0	0	0	9800	
March-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	
May-14	3195.53	310	1511.25	119.54	37	180.38	0	0	0	0	7000	
June-14	2176.81	205	999.38	148.8	45	219.38	0	0	242	0	8830	
July-14	1009.96	111	541.13	147.36	49	238.88	0	0	0	0	6680	
August-14	379.23	53	258.38	211.86	47	229.13	0	0	0	0	13690	
September-14	1216.97	123	599.63	264.83	56	273.00	0	0	0	0	9720	
October-14	1162.34	124	604.50	294.33	65	316.88	0	0	0	0	57080	
November-14	1249.55	141	687.38	336.57	75	365.63	0	0	0	0	6660	
December-14	1177.63	129	628.88	260.33	69	336.38	0	0	68	0	12080	
January-15	614.34	69	336.38	222.32	58	282.75	0	0	0	0	3000	
February-15	593.97	78	380.25	133.74	40	195.00	0	0	0	0	5420	
March-15	766.35	93	453.38	245.77	71	346.13	0	0	106	0	8980	
April-15	594.77	78	380.25	195.55	51	248.63	0	0	0	0	3370	
May-15	832.50	110	536.25	212.04	63	307.13	0	0	133	0	5090	
June-15	673.87	84	409.50	222.66	72	351.00	0	0	23	0	0	
July-15	1133.90	137	667.88	184.02	62	302.25	0	0	0	0	6950	
August-15	1394.20	157	765.38	226.04	81	394.88	0	0	0	0	0	
September-15	942.39	107	521.63	330.23	108	526.50	0	0	0	0	0	
October-15	1874.26	220	1072.50	286.27	109	531.38	0	0	60	0	0	
Total	64254.76	7232	35256	7008.55	1996	9730.50	7395	57	9035	6	616579	

Notes:

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

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

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

Annex J

Environmental Complaint,
Enquiry, Environmental
Summons and Prosecution
Log

Annex 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
August 2014	3	0
September 2014	2	0
October 2014	1	0
November 2014	0	0

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
December 2014	0	0
January 2015	0	0
February 2015	1	0
March 2015	1	0
April 2015	0	0
May 2015	1	0
June 2015	1	0
July 2015	1	0
August 2015	1	0
September 2015	0	0
October 2015	0	0
Overall Total	30	0

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	2015/02/001
Date of Complaint Received	17 February 2015
Location of Complaint	Project Site
Nature of Complaint	Dust nuisance
Complaint Received by	Environmental Protection Department (EPD)
Complainant	-

Details of Complaint

EPD received a complaint on dust nuisance on 16 February 2015. The complaint was transferred to the Project's Environmental Team on 17 February 2015. The complainant mentioned that construction dust was emitted from the CPS Project Site and affected nearby roads and vehicles on 16 February 2015.

Investigation Report

1. According to the information provided by the Contractor, construction works that were carried out on 16 February 2015 include façade cleaning, indoor fixing and concreting. These activities are not expected to generate fugitive dust. Construction activities such as rock breaking and excavation works that have the potential to cause fugitive dust emissions were not carried out on 16 February 2015.
2. Weekly construction dust monitoring (i.e. 1-hour Total Suspended Particulates (TSP)) is conducted at identified monitoring stations, one on each side facing the CPS Project Site. TSP monitoring was carried out on 17 February 2015 and the results showed compliance with the Action and Limit Levels for TSP.
3. It can be concluded that the emissions of construction dust did not originate from the CPS Project Site.

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. No specific mitigation measures or follow-up actions are required from the Contractor.

Date of File Closed : 4 March 2015

Approved by:

ET Leader

IEC

JCCPS's
Representative

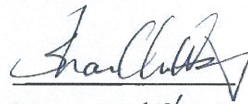
Rocco Design
Architect's
Representative



(Name: Winnie Ko)
Date: 4 March 2015



(Name: Sharifah Or)
Date: 5 March 2015



(Name: CW Sham)
Date: 11 Mar 2015



(Name: CHARLES KUNG)
Date: 11 March 2015

Gammon's
Representative



(Name: CUPP LEUNG)
Date: 2015.03.05

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

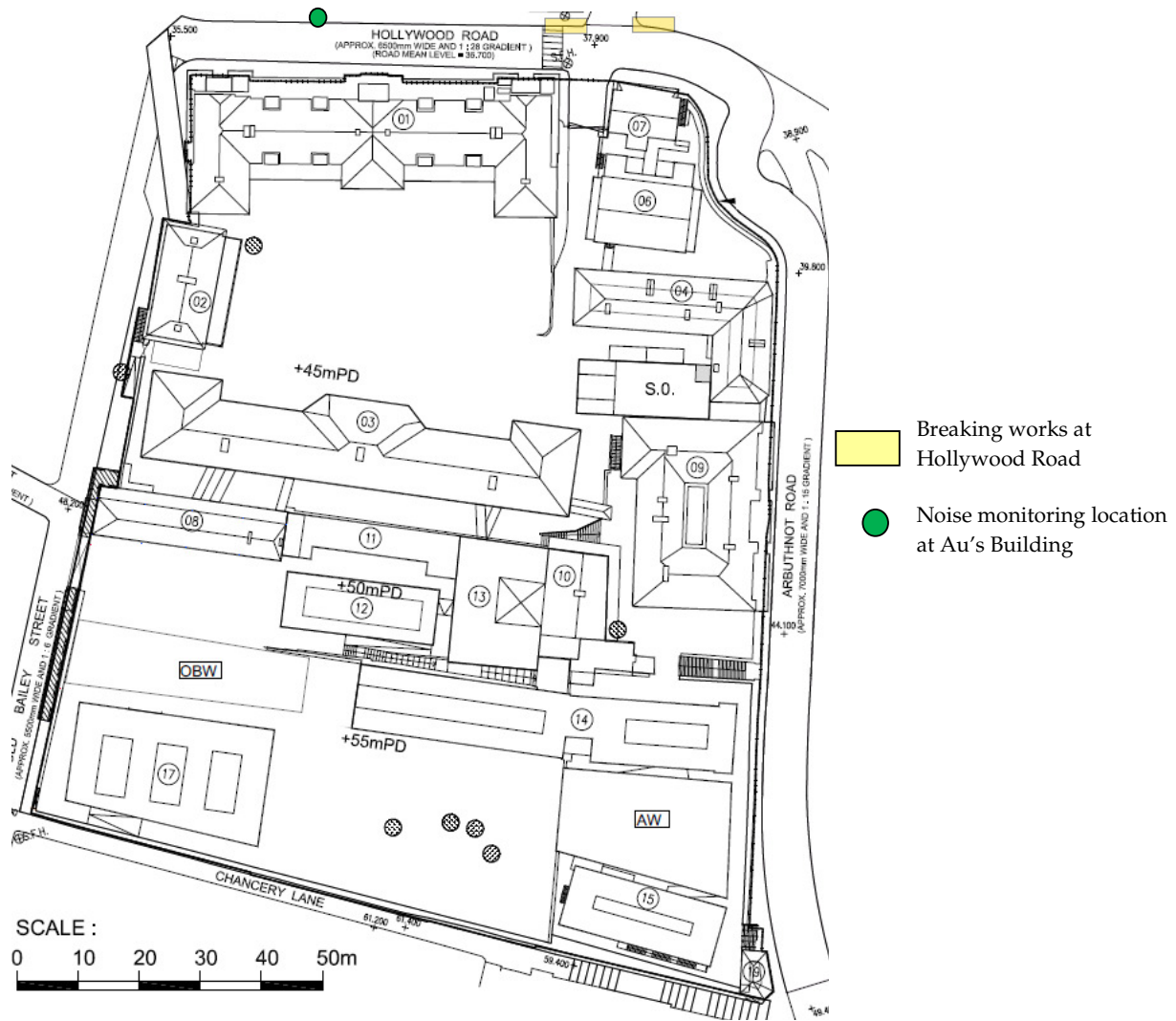
Log Number:	2015/03/001
Date of Complaint Received	19 March 2015
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Gammon Construction Limited (GCL)
Complainant	[REDACTED]

Details of Complaint

GCL received a complaint on noise nuisance from Connoisseur Art Gallery located on Hollywood Road on 19 March 2015. The complaint was transferred to the Project's Environmental Team on the same day. The complainant mentioned that the noise generated from breaking works at Hollywood Road was causing a nuisance to their business on 19 March 2015.

Investigation Report

1. The noise nuisance was related to breaking works for the widening of existing pedestrian crossing and foot path width along Hollywood Road during normal working hours on 19 March 2015. The locations of the mentioned works are shown in the figure below.
2. Weekly daytime noise monitoring at rooftop of Au's Building located on Hollywood Road are conducted by the Contractor. Noise monitoring was carried out at Au's Building on 17 March 2015 and the results 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. After the receipt of the complaint, GCL has met the complainant from Connoisseur Art Gallery and explained the status of the construction works at Hollywood Road. GCL explained that the noisy works at Hollywood Road would be carried out during normal working hours and are expected to be completed by 27 March 2015. GCL suggested Connoisseur Art Gallery to maintain communication with them until the construction works at Hollywood Road are complete. Upon request by Connoisseur Art Gallery, GCL would try to amend the time of noisy work at Hollywood Road, where practicable, to accommodate any appointment or special event that may be taken place at Connoisseur Art Gallery.

Date of File Closed : 26 March 2015

Approved by:

ET Leader

IEC

JCCPS's
Representative

Rocco Design
Architect's
Representative



(Name: Winnie Ko)
Date: 26 March 2015



(Name: Sharifah Or)
Date: 2 April 2015



(Name: C W Sham)
Date: 2 Apr 2015



(Name: CHARLES KUNG)
Date: 2 APRIL 2015

Gammon's
Representative



(Name: CLIFF KWOK)
Date: 2015.03.31

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	2015/05/001
Date of Complaint Received	4 May 2015
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Police
Complainant	██████████

Details of Complaint

The Police received a complaint on noise nuisance at around 19:30 hour on 4 May 2015. Policemen arrived at the site entrance at Old Bailey Street at 19:30 hour to investigate the noise complaint. The complaint was transferred to the Project's Environmental Team on 6 May 2015. The complainant, a resident on the Chancery Lane, mentioned that there was noise nuisance from construction activities after normal working hours on 4 May 2015.

Investigation Report

1. After the receipt of the complaint, GCL has immediately inspected the site condition and checked with the relevant works package contractors working at the CPS Site. It has been confirmed that all general construction works involving the use of power mechanical equipment (PME) and prescribed construction works were stopped before 1900 hour on 4 May 2015.
2. GCL sub-agent accompanied and assisted the policemen for their investigation process. No construction noise from the CPS Site was identified during the investigation. The policemen then checked the Construction Noise Permit (CNP) displayed at the site entrance and left the CPS Site at around 1950 hour.
3. It can be concluded that the alleged construction noise nuisance did not originate from the CPS Site.

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. As the investigation confirmed that the alleged construction noise nuisance did not originate from the CPS site, therefore, no follow-up action is required.

However, for future good site management, on 5 May 2015, a reminder was given to all frontline, operation team and works contractor that all general construction works using PME and prescribed construction activities are prohibited during restricted hours, i.e. between 7pm to 7am on normal working days or at any time on a general holiday (including Sunday), unless a valid CNP is obtained. GCL will also enhance site supervision to ensure compliance of the above.

Date of File Closed : 11 May 2015

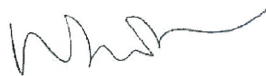
Approved by:

ET Leader

IEC

JCCPS's
Representative

Rocco Design
Architect's
Representative



(Name: Winnie Ko)
Date: 11 May 2015



(Name: Sharifah Or)
Date: 14 May 2015



(Name: C W Sham)
Date: 14 May 2015



(Name: CHARLES KUNG)
Date: 15 May 2015

Gammon's
Representative



(Name: Cliff Leung)
Date: 2015.05.12



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



**Central Police Station
Conservation and Revitalisation Project**



COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

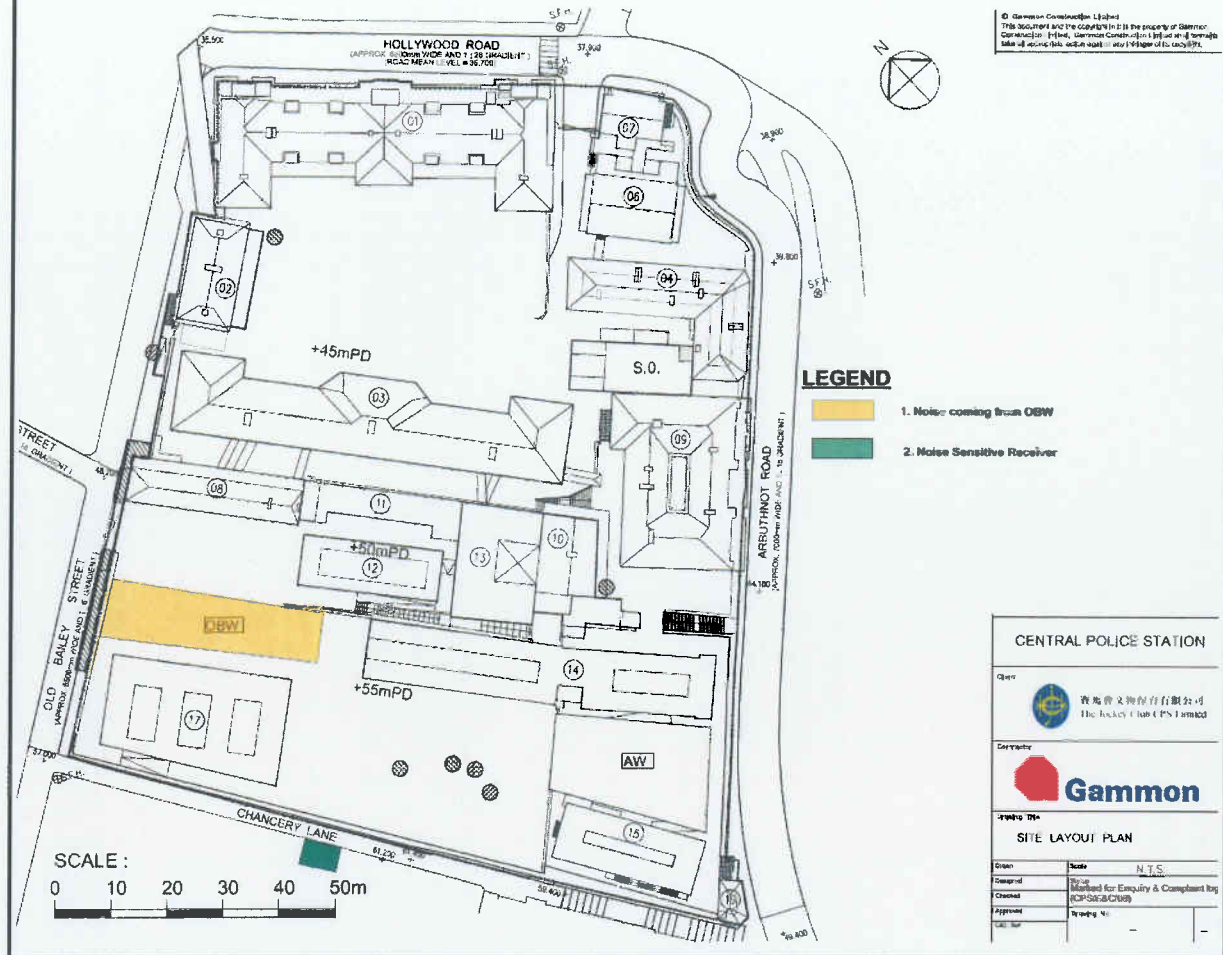
Log Number:	2015/06/001
Date of Complaint Received	18 June 2015
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Police
Complainant	[REDACTED]

Details of Complaint

The Police received a complaint on noise nuisance at around 19:05 hour on 18 June 2015. Policemen arrived at the site entrance at Old Bailey Street at 19:35 hour to investigate the noise complaint. The complaint was transferred to the Project's Environmental Team on 25 June 2015. The complainant, a resident on the Chancery Lane, mentioned that there was noise nuisance from construction activities after normal working hours on 18 June 2015.

Investigation Report

1. CPS project managers have accompanied and assisted the policemen for their investigation process. It was observed that spot welding of bondek sheeting was being carried out at Old Bailey Wing, as shown in the figure below. The welding machine was operated under a Construction Noise Permit (CNP No. RS0707-15).
2. The policemen then checked the CNP displayed at the site entrance and left the CPS Site at around 2000 hour.



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. On 19 June 2015, a reminder was given to all frontline, operation team and works contractor that all general construction works using PME and prescribed construction activities are prohibited during restricted hours, i.e. between 7pm to 7am on normal working days or at any time on a general holiday (including Sunday), unless a valid CNP is obtained. GCL will also enhance site supervision to ensure compliance of the above.

Date of File Closed : 4 August 2015

Approved by:

ET Leader

IEC

JCCPS's
Representative

Rocco Design
Architect's
Representative



(Name: Winnie Ko)
Date: 4 August 2015



(Name: Sharifah Or)
Date: 10 August 2015



(Name: C. W. Sham)
Date: 11 Aug 2015



(Name: CHARLES KUNG)
Date: 11 AUG 2015

Gammon's
Representative



(Name: CLIFF LEUNG)
Date: 2015.08.05

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

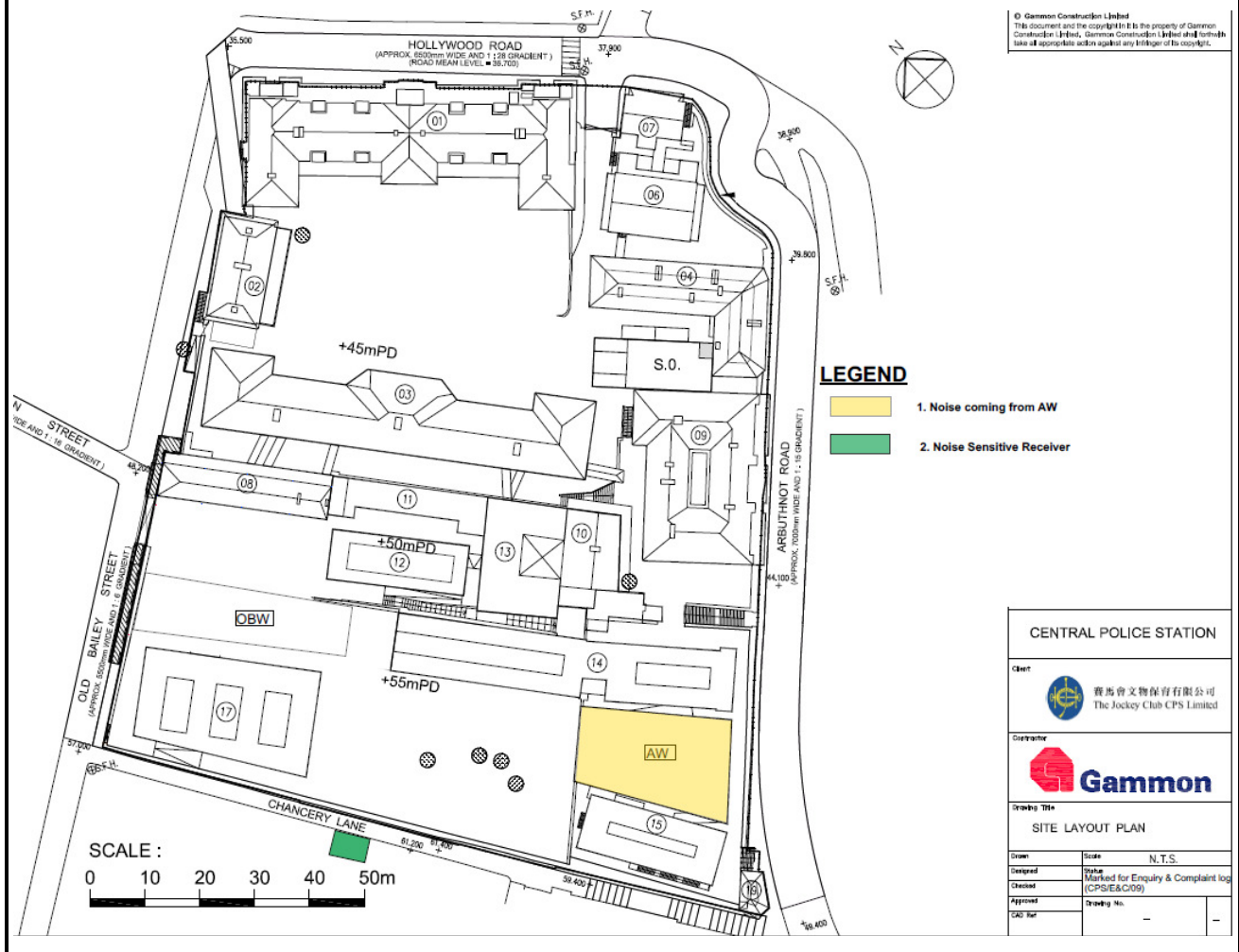
Log Number:	2015/07/001
Date of Complaint Received	4 July 2015
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Hong Kong Jockey Club (HKJC)
Complainant	██████████

Details of Complaint

A noise complaint was received by the HKJC at around 19:20 hour on 4 July 2015. The complainant also reported the noise nuisance to the police on 4 July 2015. The complainant complained about noise nuisance at around 19:20 hour. Policemen arrived at the CPS Site at 19:36 hour to investigate the noise complaint. The complaint was transferred to the Project's Environmental Team on 6 July 2015.

Investigation Report

1. CPS site staff have accompanied and assisted the policemen for their investigation process. No noise generating activities from the CPS site was identified during the investigation.
2. The policemen then checked the CNP displayed at the site entrance and left the CPS Site at around 19:46 hour.
3. As reported by the site team, the noise may have been originated from the waterproofing spraying machine at rooftop of Arbuthnot Wing, as shown in the figure below. The waterproofing spraying machine has ceased operation before 19:00 hour. However, noise may have been emitted during the process of cleaning the water proofing spraying machine. No power mechanical equipment (PME) was being operated after 19:00 hour.
4. Construction manager of the CPS Site made a telephone call to Mr. Chugani at around 21:00 hour to discuss this noise complaint.



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. A reminder was given to all frontline, operation team and works contractor that all general construction works using PME and prescribed construction activities are prohibited during restricted hours, i.e. between 7pm to 7am on normal working days or at any time on a general holiday (including Sunday), unless a valid CNP is obtained. All PMEs without valid CNP must be switched off before 19:00 hour during normal working days. GCL will also enhance site supervision to ensure compliance of the above.

Date of File Closed : 3 August 2015

Approved by:

ET Leader

IEC

JCCPS's
Representative

Rocco Design
Architect's
Representative



(Name: Winnie Ko)
Date: 3 August 2015

(Name: Sharifah Or)
Date: 10 August 2015

(Name: CW Sham)
Date: 11 Aug 2015

(Name: CHARLES RUNG)
Date: 11 AUG 2015

Gammon's
Representative



(Name: CUFF)
Date: 2015 08.05

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	2015/08/001
Date of Complaint Received	4 August 2015
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Environmental Protection Department (EPD)
Complainant	██████████

Details of Complaint

A noise complaint was received by EPD via email and transferred to the Project's Environmental Team and the Contractor (Gammon Construction Limited – GCL) on 4 August 2015. The complainant complained about noise nuisance in general and provided sound clips of the noise nuisance recorded by the complainant on different dates. Four sound clips on 28 January, 14 May, 20 May and 30 July 2015 were provided by the complainant. In addition, the complainant also complained about the noise nuisance from the back alert during the backing of construction vehicles.

Investigation Report

1. According to sound clips dated 28 January, 14 May and 20 May 2015, the noise nuisance is suspected to be related to rock breaking works. According to the Contractor, site record showed that breakers have been used on these dates, indicating that there may be potential rock breaking or other demolition activities being carried out within the CPS Project Site during normal working hours on these dates.
2. According to the sound clip dated 30 July 2015, the noise nuisance is suspected to be related to rock breaking. According to the Contractor, no rock breaking work has been carried out within the CPS Project Site on 30 July 2015. It is understood that Hong Kong Electric has construction site at Old Bailey Street outside the CPS Project Site, where rock breaking works may have been carried out on 30 July 2015.
3. The noise nuisance as recorded on 28 January, 14 May and 20 May 2015 by the complainant may have been originated from rock breaking works within the CPS Project Site during normal working hours. However, the exact location, time and duration of the suspected rock breaking works within the CPS Project Site on these dates could not be traced back.
4. The noise nuisance as recorded on 30 July 2015 by the complainant was likely originated from rock breaking works within the construction site managed by Hong Kong Electric. No rock breaking work has been carried out within the CPS Project Site on 30 July 2015.
5. The complainant mentioned noise nuisance from the back alert during the backing of construction vehicles. It should be noted that the back alert must be on during the backing of construction vehicles for safety purposes.

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 complaint investigation showed that the recorded noise of rock breaking works on some of the dates may have been originated from the CPS Project Site. To minimize potential noise nuisance arising from rock breaking activities within the CPS Project Site in the future, the Contractor was recommended to implement the following:

- (i) Wrap the breaker head using acoustic blanket during rock breaking works; and
- (ii) Install or erect acoustic curtain / noise barrier, where practicable, during rock breaking works or other noisy construction activities.

In addition, the volume of the back alert during the backing of construction vehicles will be adjusted lower to reduce the potential noise nuisance to nearby sensitive receivers.

Date of File Closed : 10 September 2015

Approved by:

ET Leader

IEC

JCCPS's
Representative

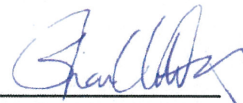
Rocco Design
Architect's
Representative



(Name: Winnie Ko)
Date: 10 September 2015



(Name: Sharifah Or)
Date: 11 September 2015

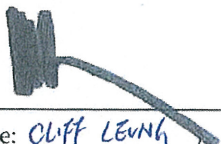


(Name: C. W. Sham)
Date: 11 Sep 2015



(Name: CHARLES KUNG)
Date: 11 SEPT 2015

Gammon's
Representative



(Name: Cliff LEUNG)
Date: 2015.09.11

Annex K

Records of Vibration
Monitoring for Trial Piling
and Piling Works

Pipe pile wall, grout curtain and excavation and lateral support at Parade Ground



NOTES:
 1. UTILITIES SETTLEMENT POINTS (UT1 TO UT9) SHALL ONLY BE INSTALLED AFTER EXCAVATION PERMIT IS OBTAINED. AS ALTERNATIVE SETTLEMENT POINTS (GS18 AND GS19) MAY BE INSTALLED.
 2. SHOULD UT1 TO UT6 BE INSTALLED, GS18 AND GS19 SHALL NOT BE REQUIRED.
 3. EITHER UTILITIES SETTLEMENT MARKERS (UT1 TO UT6) OR GROUND SETTLEMENT MARKERS (GS18 AND GS19) SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF OLD BAILEY WING ELS WORKS.

LEGEND

	EXISTING FRESH WATER MAIN
	EXISTING SALT WATER MAIN
	EXISTING STREET LIGHTING NO. 33458-A1
	EXISTING STREET LIGHTING CABLE
	EXISTING GAS MAIN
	EXISTING HV ELECTRICITY CABLE
	EXISTING LV ELECTRICITY CABLE
	EXISTING TELECOMMUNICATION DUCT (HUTCHINSON GLOBAL COMMUNICATIONS LIMITED)
	EXISTING STORMWATER DRAIN
	EXISTING FOUL SEWER
	PROPOSED FOUL SEWER
	SITE BOUNDARY
	EXISTING RETAINING WALL
	EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER
	PROPOSED BUILDING SETTLEMENT POINTS/TILMETER
	PROPOSED RETAINING WALL SETTLEMENT POINTS/TILMETER
	PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE WALL OR PIPE PILE WALL
	PROPOSED GROUND SETTLEMENT POINTS
	PROPOSED UTILITY MONITORING POINTS
	PROPOSED VIBRATION MONITORING POINTS
	PROPOSED ADDITIONAL DRILLHOLE

Revision/Update/修改/更新			
No. 編號	Description 說明	Date 日期	Prepared 備註
A	BD SUBMISSION	12/11	JS
A	BD SUBMISSION	03/12	JS

Note: This plan has been processed on a centralized check bar under the centralized processing system as promulgated in PNH A234-16. The output of the authorized person, registered structural engineer and/or registered geotechnical engineer concerned specified under section 4(3)(b) and the provision of section 14(2) of the Buildings Ordinance are of particular reference in this regard.

Plan Approved
 NG Kim-shing
 Chief Structural Engineer
 for BUILDING AUTHORITY
 - 3 MAY 2012



BD SUBMISSION
 Drawing Status 製圖狀況

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- No part of the drawing and the design contained herein may be reproduced without the prior written consent of the design consultant.
- 本圖紙或其內容均不得在未經設計顧問公司書面同意下被复制或再行刊印。
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- 切勿直接從圖紙上量取尺寸。
- Check and verify all dimensions on site.
- 於現場時請核對及核實所有尺寸。
- Read this drawing in conjunction with the specifications and all other related drawings.
- 此圖紙必須與圖則說明書及其他相關圖紙一併閱讀。
- Notify the relevant consultants immediately of any discrepancy found herein.
- 如有發現任何不一致之處，請立即通知有關顧問公司。

Client 業主: 香港中文大學文物館有限公司
 The Chinese University of Hong Kong
 Design Consultant: HERZOG & DEMEUREN
 Conservation Architect: 香港中文大學文物館有限公司
 Execution Architect: Rocco
 Structural Engineer / RSE: ARUP
 E & M Engineer: JRP

Project 項目: CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT
 Drawing Title 圖名: MONITORING LAYOUT PLAN

Scale 比例: 1:3000A1
 Drawing No. 圖號: 00-OAP209674-C-001
 Checked 校核: AL
 Prepared 備註: JS



Vibration Monitoring Record (November)

Point	<i>Parade Ground</i>				
	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Nov-14	0.154	0.128	0.156	0.148	0.182
02-Nov-14	Holiday				
03-Nov-14	0.263	0.106	0.298	0.154	0.131
04-Nov-14	0.346	0.158	0.179	0.193	0.125
05-Nov-14	0.191	0.131	0.206	0.167	0.102
06-Nov-14	0.168	0.108	0.174	0.348	0.179
07-Nov-14	0.106	0.185	0.156	0.187	0.123
08-Nov-14	0.398	0.134	0.189	0.204	0.156
09-Nov-14	Sunday				
10-Nov-14	0.098	0.102	0.314	0.195	0.142
11-Nov-14	0.156	0.147	0.114	0.286	0.189
12-Nov-14	0.192	0.120	0.111	0.168	0.175
13-Nov-14	0.146	0.127	0.177	0.178	0.166
14-Nov-14	0.114	0.122	0.156	0.169	0.147
15-Nov-14	0.196	0.159	0.114	0.196	0.162
16-Nov-14	Sunday				
17-Nov-14	0.165	0.113	0.159	0.209	0.151
18-Nov-14	0.192	0.102	0.143	0.122	0.149
19-Nov-14	0.101	0.114	0.138	0.173	0.138
20-Nov-14	0.191	0.152	0.173	0.129	0.130
21-Nov-14	0.088	0.078	0.145	0.099	0.109
22-Nov-14	0.195	0.102	0.165	0.198	0.126
23-Nov-14	Sunday				
24-Nov-14	0.126	0.114	0.183	0.145	0.192
25-Nov-14	0.491	0.101	0.151	0.189	0.125
26-Nov-14	0.119	0.132	0.112	0.156	0.132
27-Nov-14	0.156	0.105	0.168	0.192	0.122
28-Nov-14	0.178	0.136	0.122	0.142	0.117
29-Nov-14	0.162	0.103	0.195	0.241	0.165
30-Nov-14	Sunday				



Vibration Monitoring Record (December)

	<i>Parade Ground</i>				
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Dec-14	0.165	0.132	0.198	0.351	0.196
02-Dec-14	0.189	0.103	0.151	0.258	0.161
03-Dec-14	0.165	0.128	0.196	0.143	0.185
04-Dec-14	0.113	0.123	0.165	0.198	0.118
05-Dec-14	0.198	0.114	0.127	0.231	0.105
06-Dec-14	0.117	0.165	0.125	0.173	0.151
07-Dec-14	Sunday				
08-Dec-14	0.135	0.156	0.114	0.198	0.113
09-Dec-14	0.168	0.132	0.166	0.143	0.120
10-Dec-14	0.176	0.104	0.137	0.122	0.161
11-Dec-14	0.143	0.111	0.195	0.173	0.124
12-Dec-14	0.147	0.102	0.165	0.165	0.114
13-Dec-14	0.113	0.097	0.130	0.148	0.109
14-Dec-14	Sunday				
15-Dec-14	0.198	0.112	0.175	0.169	0.124
16-Dec-14	0.136	0.105	0.113	0.152	0.108
17-Dec-14	0.155	0.114	0.136	0.159	0.112
18-Dec-14	0.119	0.103	0.154	0.135	0.114
19-Dec-14	0.125	0.117	0.140	0.144	0.132
20-Dec-14	0.110	0.163	0.189	0.183	0.112
21-Dec-14	Sunday				
22-Dec-14	0.143	0.182	0.122	0.149	0.112
23-Dec-14	0.114	0.162	0.103	0.138	0.108
24-Dec-14	0.102	0.122	0.122	0.129	0.170
25-Dec-14	Holiday				
26-Dec-14	Holiday				
27-Dec-14	0.114	0.136	0.135	0.132	0.102
28-Dec-14	Sunday				
29-Dec-14	0.132	0.145	0.159	0.119	0.105
30-Dec-14	0.125	0.114	0.132	0.192	0.119
31-Dec-14	0.113	0.106	0.145	0.153	0.110



Vibration Monitoring Record (Jan 15)

Point	Parade Ground				
	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Jan-15	Public Holiday				
02-Jan-15	0.106	0.109	0.133	0.147	0.115
03-Jan-15	0.114	0.165	0.144	0.125	0.152
04-Jan-15	Sunday				
05-Jan-15	0.153	0.114	0.135	0.158	0.120
06-Jan-15	0.114	0.104	0.139	0.112	0.182
07-Jan-15	0.161	0.115	0.122	0.169	0.122
08-Jan-15	0.144	0.120	0.117	0.127	0.130
09-Jan-15	0.121	0.135	0.107	0.110	0.142
10-Jan-15	0.111	0.127	0.118	0.162	0.152
11-Jan-15	Sunday				
12-Jan-15	0.114	0.156	0.138	0.114	0.136
13-Jan-15	0.168	0.115	0.122	0.183	0.120
14-Jan-15	0.121	0.120	0.106	0.142	0.128
15-Jan-15	0.116	0.103	0.110	0.171	0.114
16-Jan-15	0.150	0.107	0.112	0.193	0.100
17-Jan-15	0.113	0.108	0.140	0.141	0.128
18-Jan-15	Sunday				
19-Jan-15	0.148	0.101	0.192	0.156	0.114
20-Jan-15	0.131	0.105	0.115	0.172	0.120
21-Jan-15	0.117	0.100	0.114	0.156	0.119
22-Jan-15	0.163	0.114	0.132	0.128	0.101
23-Jan-15	0.101	0.112	0.108	0.114	0.122
24-Jan-15	0.161	0.108	0.121	0.169	0.135
25-Jan-15	Sunday				
26-Jan-15	0.145	0.103	0.132	0.183	0.118
27-Jan-15	0.121	0.107	0.108	0.150	0.121
28-Jan-15	0.136	0.219	0.188	0.194	0.103
29-Jan-15	0.136	0.105	0.113	0.152	0.108
30-Jan-15	0.149	0.109	0.098	0.167	0.125
31-Jan-15	0.159	0.103	0.151	0.158	0.161



Vibration Monitoring Record (February)

Point	<i>Parade Ground</i>				
	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Feb-15	Sunday				
02-Feb-15	0.108	0.121	0.120	0.169	0.114
03-Feb-15	0.116	0.102	0.108	0.125	0.104
04-Feb-15	0.128	0.105	0.112	0.151	0.109
05-Feb-15	0.104	0.105	0.117	0.130	0.110
06-Feb-15	0.117	0.112	0.109	0.118	0.103
07-Feb-15	0.115	0.103	0.118	0.165	0.141
08-Feb-15	Sunday				
09-Feb-15	0.137	0.105	0.115	0.133	0.109
10-Feb-15	0.112	0.109	0.152	0.117	0.103
11-Feb-15	0.125	0.110	0.103	0.145	0.111
12-Feb-15	0.103	0.096	0.110	0.128	0.105
13-Feb-15	0.137	0.102	0.122	0.129	0.114
14-Feb-15	0.122	0.118	0.105	0.100	0.103
15-Feb-15	Sunday				
16-Feb-15	0.120	0.114	0.108	0.115	0.108
17-Feb-15	0.172	0.101	0.102	0.138	0.095
18-Feb-15	Site Close				
19-Feb-15	Public Holiday				
20-Feb-15	Public Holiday				
21-Feb-15	Public Holiday				
22-Feb-15	Sunday				
23-Feb-15	Site Close				
24-Feb-15	Site Close				
25-Feb-15	0.153	0.086	0.098	0.107	0.082
26-Feb-15	0.116	0.104	0.084	0.151	0.103
27-Feb-15	0.120	0.118	0.100	0.126	0.110
28-Feb-15	0.106	0.092	0.103	0.112	0.096



Vibration Monitoring Record (Mar 2015)

Point	<i>Parade Ground</i>				
	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Mar-15	Sunday				
02-Mar-15	0.116	0.095	0.107	0.158	0.099
03-Mar-15	0.160	0.097	0.108	0.117	0.104
04-Mar-15	0.111	0.105	0.102	0.141	0.103
05-Mar-15	0.135	0.100	0.108	0.133	0.112
06-Mar-15	0.109	0.096	0.114	0.120	0.101
07-Mar-15	0.130	0.105	0.108	0.114	0.108
08-Mar-15	Sunday				
09-Mar-15	0.110	0.103	0.162	0.109	0.097
10-Mar-15	0.134	0.105	0.103	0.151	0.103
11-Mar-15	0.105	0.100	0.103	0.111	0.109
12-Mar-15	0.114	0.095	0.108	0.145	0.101
13-Mar-15	0.129	0.103	0.115	0.126	0.103
14-Mar-15	0.107	0.085	0.102	0.138	0.105
15-Mar-15	Sunday				
16-Mar-15	0.111	0.106	0.104	0.102	0.113
17-Mar-15	0.176	0.098	0.102	0.154	0.109
18-Mar-15	0.125	0.102	0.105	0.116	0.095
19-Mar-15	0.132	0.109	0.101	0.121	0.109
20-Mar-15	0.158	0.087	0.133	0.140	0.105
21-Mar-15	0.132	0.106	0.114	0.116	0.101
22-Mar-15	Sunday				
23-Mar-15	0.124	0.109	0.123	0.124	0.110
24-Mar-15	0.129	0.094	0.112	0.156	0.104
25-Mar-15	0.116	0.104	0.108	0.121	0.108
26-Mar-15	0.138	0.111	0.108	0.119	0.101
27-Mar-15	0.125	0.106	0.101	0.133	0.108
28-Mar-15	0.117	0.103	0.109	0.117	0.097
29-Mar-15	Sunday				
30-Mar-15	0.165	0.118	0.102	0.169	0.118
31-Mar-15	0.117	0.102	0.108	0.135	0.104



Vibration Monitoring Record (Apr 15)

Point	<i>Parade Ground</i>				
	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Apr-15	0.110	0.085	0.131	0.119	0.102
02-Apr-15	0.142	0.094	0.110	0.115	0.105
03-Apr-15	Public Holiday				
04-Apr-15	Public Holiday				
05-Apr-15	Sunday				
06-Apr-15	Public Holiday				
07-Apr-15	Public Holiday				
08-Apr-15	0.119	0.105	0.104	0.120	0.104
09-Apr-15	0.132	0.083	0.110	0.103	0.100
10-Apr-15	0.126	0.102	0.102	0.116	0.103
11-Apr-15	0.105	0.086	0.109	0.112	0.097
12-Apr-15	Sunday				
13-Apr-15	0.103	0.100	0.104	0.101	0.099
14-Apr-15	0.132	0.103	0.103	0.112	0.100
15-Apr-15	0.119	0.095	0.109	0.152	0.105
16-Apr-15	0.110	0.102	0.105	0.133	0.101
17-Apr-15	0.105	0.092	0.125	0.114	0.108
18-Apr-15	0.100	0.095	0.104	0.118	0.102
19-Apr-15	Sunday				
20-Apr-15	0.109	0.100	0.103	0.141	0.105
21-Apr-15	0.115	0.103	0.108	0.132	0.111
22-Apr-15	0.104	0.087	0.101	0.117	0.106
23-Apr-15	0.123	0.101	0.105	0.121	0.113
24-Apr-15	0.115	0.096	0.111	0.115	0.102
25-Apr-15	0.109	0.087	0.106	0.115	0.103
26-Apr-15	Sunday				
27-Apr-15	0.105	0.102	0.110	0.129	0.100
28-Apr-15	0.103	0.105	0.102	0.121	0.106
29-Apr-15	0.103	0.109	0.108	0.112	0.103
30-Apr-15	0.108	0.100	0.108	0.116	0.102



Vibration Monitoring Record (May)

	<i>Parade Ground</i>				
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-May-15	Public Holiday				
02-May-15	0.106	0.089	0.097	0.113	0.105
03-May-15	Sunday				
04-May-15	0.113	0.108	0.114	0.141	0.128
05-May-15	0.105	0.104	0.102	0.128	0.102
06-May-15	0.120	0.101	0.096	0.114	0.102
07-May-15	0.103	0.105	0.100	0.162	0.105
08-May-15	0.109	0.087	0.103	0.134	0.105
09-May-15	0.103	0.096	0.101	0.112	0.103
10-May-15	Sunday				
11-May-15	0.109	0.113	0.102	0.115	0.102
12-May-15	0.105	0.102	0.110	0.120	0.105
13-May-15	0.111	0.108	0.102	0.110	0.109
14-May-15	0.107	0.103	0.101	0.118	0.103
15-May-15	0.103	0.108	0.116	0.107	0.100
16-May-15	0.109	0.102	0.102	0.165	0.110
17-May-15	Sunday				
18-May-15	0.105	0.117	0.105	0.118	0.102
19-May-15	0.109	0.105	0.101	0.115	0.106
20-May-15	0.113	0.107	0.119	0.110	0.103
21-May-15	0.101	0.112	0.108	0.114	0.102
22-May-15	0.116	0.104	0.114	0.151	0.103
23-May-15	0.098	0.110	0.111	0.139	0.102
24-May-15	Sunday				
25-May-15	Public Holiday				
26-May-15	0.112	0.135	0.109	0.135	0.109
27-May-15	0.104	0.107	0.101	0.117	0.106
28-May-15	0.105	0.116	0.109	0.112	0.107
29-May-15	0.098	0.115	0.107	0.106	0.102
30-May-15	0.125	0.122	0.105	0.123	0.095
31-May-15	Sunday				



Vibration Monitoring Record (June 2015)

Point	Parade Ground				
	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Jun-15	0.119	0.105	0.109	0.152	0.105
02-Jun-15	0.106	0.113	0.110	0.120	0.104
03-Jun-15	0.101	0.113	0.159	0.133	0.102
04-Jun-15	0.108	0.121	0.112	0.119	0.104
05-Jun-15	0.101	0.113	0.112	0.105	0.107
06-Jun-15	0.108	0.106	0.165	0.113	0.120
07-Jun-15	Sunday				
08-Jun-15	0.110	0.105	0.113	0.119	0.102
09-Jun-15	0.106	0.099	0.105	0.112	0.096
10-Jun-15	0.103	0.111	0.106	0.108	0.100
11-Jun-15	0.105	0.114	0.108	0.118	0.115
12-Jun-15	0.109	0.106	0.105	0.120	0.101
13-Jun-15	0.105	0.102	0.101	0.129	0.105
14-Jun-15	Sunday				
15-Jun-15	0.104	0.107	0.105	0.113	0.105
16-Jun-15	0.107	0.105	0.112	0.118	0.105
17-Jun-15	0.105	0.108	0.106	0.121	0.106
18-Jun-15	0.109	0.105	0.109	0.115	0.109
19-Jun-15	0.103	0.102	0.130	0.107	0.101
20-Jun-15	Public Holiday				
21-Jun-15	Sunday				
22-Jun-15	0.102	0.110	0.108	0.113	0.105
23-Jun-15	0.105	0.101	0.103	0.105	0.097
24-Jun-15	0.103	0.109	0.109	0.117	0.103
25-Jun-15	0.109	0.103	0.102	0.128	0.108
26-Jun-15	0.101	0.100	0.098	0.111	0.102
27-Jun-15	0.103	0.103	0.109	0.107	0.100
28-Jun-15	Sunday				
29-Jun-15	0.105	0.100	0.103	0.151	0.107
30-Jun-15	0.107	0.103	0.108	0.120	0.104



Vibration Monitoring Record (July)

Point	<i>Parade Ground</i>				
	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Jul-15	Public Holiday				
02-Jul-15	0.101	0.109	0.103	0.117	0.105
03-Jul-15	0.103	0.102	0.102	0.112	0.104
04-Jul-15	0.103	0.105	0.107	0.119	0.103
05-Jul-15	Sunday				
06-Jul-15	0.105	0.104	0.097	0.105	0.100
07-Jul-15	0.101	0.109	0.103	0.110	0.102
08-Jul-15	0.106	0.102	0.108	0.123	0.102
09-Jul-15	0.102	0.109	0.100	0.113	0.106
10-Jul-15	0.108	0.108	0.101	0.108	0.103
11-Jul-15	0.103	0.105	0.106	0.117	0.105
12-Jul-15	Sunday				
13-Jul-15	0.094	0.103	0.112	0.105	0.112
14-Jul-15	0.105	0.109	0.101	0.118	0.102
15-Jul-15	0.106	0.105	0.109	0.110	0.105
16-Jul-15	0.101	0.103	0.105	0.107	0.101
17-Jul-15	0.097	0.095	0.103	0.101	0.105
18-Jul-15	0.102	0.109	0.103	0.122	0.106
19-Jul-15	Sunday				
20-Jul-15	0.105	0.106	0.100	0.119	0.100
21-Jul-15	0.112	0.107	0.105	0.137	0.102
22-Jul-15	0.109	0.103	0.108	0.151	0.107
23-Jul-15	0.104	0.108	0.105	0.123	0.109
24-Jul-15	0.103	0.102	0.112	0.108	0.105
25-Jul-15	0.101	0.105	0.103	0.115	0.105
26-Jul-15	Sunday				
27-Jul-15	0.109	0.103	0.108	0.110	0.109
28-Jul-15	0.103	0.108	0.102	0.109	0.104
29-Jul-15	0.122	0.118	0.105	0.100	0.103
30-Jul-15	0.107	0.102	0.106	0.152	0.102
31-Jul-15	0.102	0.109	0.101	0.109	0.106



Vibration Monitoring Record (August)

Point	<i>Parade Ground</i>				
	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Aug-15	0.106	0.100	0.109	0.135	0.110
02-Aug-15	Sunday				
03-Aug-15	0.109	0.102	0.105	0.107	0.100
04-Aug-15	0.105	0.109	0.103	0.112	0.102
05-Aug-15	0.101	0.097	0.100	0.108	0.103
06-Aug-15	0.103	0.113	0.106	0.101	0.108
07-Aug-15	0.105	0.101	0.107	0.119	0.102
08-Aug-15	0.102	0.109	0.106	0.105	0.105
09-Aug-15	Sunday				
10-Aug-15	0.101	0.109	0.102	0.142	0.102
11-Aug-15	0.105	0.102	0.107	0.118	0.105
12-Aug-15	0.103	0.109	0.104	0.112	0.102
13-Aug-15	0.101	0.105	0.102	0.109	0.104
14-Aug-15	0.105	0.107	0.103	0.127	0.103
15-Aug-15	0.105	0.105	0.107	0.129	0.101
16-Aug-15	Sunday				
17-Aug-15	0.106	0.109	0.107	0.113	0.105
18-Aug-15	0.109	0.105	0.101	0.105	0.101
19-Aug-15	0.103	0.107	0.105	0.110	0.107
20-Aug-15	0.101	0.109	0.102	0.115	0.112
21-Aug-15	0.101	0.106	0.107	0.109	0.105
22-Aug-15	0.103	0.105	0.101	0.110	0.109
23-Aug-15	Sunday				
24-Aug-15	0.113	0.108	0.097	0.110	0.099
25-Aug-15	0.105	0.102	0.106	0.113	0.106
26-Aug-15	0.108	0.105	0.101	0.109	0.105
27-Aug-15	0.099	0.091	0.111	0.112	0.107
28-Aug-15	0.115	0.095	0.102	0.116	0.101
29-Aug-15	0.102	0.106	0.098	0.104	0.103
30-Aug-15	Sunday				
31-Aug-15	0.109	0.101	0.102	0.112	0.104



Vibration Monitoring Record (September)

Point	<i>Parade Ground</i>				
	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Sep-15	0.101	0.105	0.106	0.109	0.115
02-Sep-15	0.105	0.096	0.103	0.107	0.106
03-Sep-15	<i>Holiday</i>				
04-Sep-15	0.102	0.100	0.107	0.108	0.110
05-Sep-15	0.107	0.102	0.105	0.115	0.104
06-Sep-15	<i>Sunday</i>				
07-Sep-15	0.109	0.105	0.107	0.117	0.105
08-Sep-15	0.102	0.107	0.102	0.128	0.109
09-Sep-15	0.106	0.102	0.108	0.106	0.105
10-Sep-15	0.100	0.106	0.105	0.115	0.103
11-Sep-15	0.107	0.102	0.100	0.109	0.104
12-Sep-15	0.103	0.109	0.102	0.123	0.105
13-Sep-15	<i>Sunday</i>				
14-Sep-15	0.103	0.107	0.105	0.108	0.100
15-Sep-15	0.109	0.103	0.101	0.107	0.103
16-Sep-15	0.105	0.101	0.106	0.110	0.103
17-Sep-15	0.103	0.100	0.109	0.107	0.108
18-Sep-15	0.109	0.102	0.105	0.109	0.102
19-Sep-15	0.101	0.105	0.102	0.105	0.109
20-Sep-15	<i>Sunday</i>				
21-Sep-15	0.106	0.108	0.101	0.114	0.102
22-Sep-15	0.102	0.105	0.104	0.108	0.105
23-Sep-15	0.109	0.102	0.110	0.105	0.107
24-Sep-15	0.101	0.107	0.102	0.109	0.103
25-Sep-15	0.103	0.100	0.105	0.109	0.107
26-Sep-15	0.101	0.106	0.107	0.115	0.106
27-Sep-15	<i>Sunday</i>				
28-Sep-15	<i>Holiday</i>				
29-Sep-15	0.109	0.102	0.102	0.107	0.103
30-Sep-15	0.103	0.105	0.102	0.112	0.100



Vibration Monitoring Record (October)

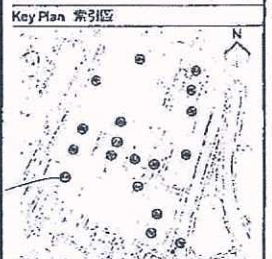
Point	<i>Parade Ground</i>				
	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2
Date	mm/s	mm/s	mm/s	mm/s	mm/s
01-Oct-15	Holiday				
02-Oct-15	0.094	0.103	0.108	0.115	0.102
03-Oct-15	0.099	0.100	0.102	0.108	0.105
04-Oct-15	Sunday				
05-Oct-15	0.107	0.105	0.107	0.105	0.106
06-Oct-15	0.100	0.101	0.102	0.122	0.105
07-Oct-15	0.103	0.107	0.100	0.109	0.100
08-Oct-15	0.095	0.096	0.103	0.111	0.097
09-Oct-15	0.103	0.109	0.100	0.105	0.102
10-Oct-15	0.100	0.105	0.109	0.112	0.105
11-Oct-15	Sunday				
12-Oct-15	0.105	0.106	0.103	0.105	0.108
13-Oct-15	0.101	0.107	0.100	0.114	0.102
14-Oct-15	0.103	0.100	0.107	0.106	0.101
15-Oct-15	0.098	0.103	0.102	0.110	0.100
16-Oct-15	0.102	0.095	0.101	0.125	0.104
17-Oct-15	0.105	0.102	0.109	0.107	0.101
18-Oct-15	Sunday				
19-Oct-15	0.096	0.101	0.096	0.105	0.110
20-Oct-15	0.104	0.106	0.104	0.101	0.096
21-Oct-15	Holiday				
22-Oct-15	0.107	0.102	0.100	0.109	0.100
23-Oct-15	0.102	0.105	0.107	0.115	0.103
24-Oct-15	0.096	0.100	0.102	0.109	0.110
25-Oct-15	Holiday				
26-Oct-15	/	/	/	/	/
27-Oct-15	/	/	/	/	/
28-Oct-15	/	/	/	/	/
29-Oct-15	/	/	/	/	/
30-Oct-15	/	/	/	/	/
31-Oct-15	/	/	/	/	/

Foundation Pile Works at Block 8.



BD Ref No. 17-2024-002	
BD Ref No. 2024-0004	
Revision/Description/Date/By	
No. Rev. Description/Date/By	
1 - ED SUBMISSION	12/11 JS

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



BD SUBMISSION
 Drawing Status 製圖狀況

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Client 業主

 Design Consultant
HERZOG & DEMEUREN
 Conservation Architect
 Executive Architect
ROCCO
 Structural Engineer / RSE
ARUP
 Project 項目
**CENTRAL POLICE STATION
 CONSERVATION AND REVITALISATION
 PROJECT**

Drawing Title 圖名
MONITORING LAYOUT PLAN

Scale 比例
 1:3000 A1
 Drawing No. 圖號
 00-OAP209674-G-001

LEGEND

	EXISTING FRESH WATER MAIN
	EXISTING SALT WATER MAIN
	EXISTING STREET LIGHTING NO. 33428-A1
	EXISTING STREET LIGHTING CABLE
	EXISTING GAS MAIN
	EXISTING HV ELECTRICITY CABLE
	EXISTING LV ELECTRICITY CABLE
	EXISTING TELECOMMUNICATION DUCT (FUTURION GLOBAL COMMUNICATIONS LIMITED)
	EXISTING STORMWATER DRAIN
	EXISTING FOUL SEWER
	PROPOSED FOUL SEWER
	SITE BOUNDARY
	EXISTING RETAINING WALL
	EXISTING DRILLHOLE WITH STANDPIPE/PNEZOMETER
	PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER
	PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER
	PROPOSED INCLINOMETER TO BE INSTALLED IN TRENCH FILE WALL OR PIPE FILE WALL
	PROPOSED GROUND SETTLEMENT POINTS
	PROPOSED UTILITY MONITORING POINTS
	PROPOSED VIBRATION MONITORING POINTS
	PROPOSED ADDITIONAL DRILLHOLE

NOTES
 1. ALL UTILITY SETTLEMENT POINTS (WITH OR WITHOUT STANDPIPE) SHOULD BE INSTALLED AFTER EXCAVATION PERMIT IS OBTAINED AS ALTERNATIVE SETTLEMENT POINTS (E.G. BS1 AND BS15) MAY BE INSTALLED.
 2. STANDPIPE UTILITY SETTLEMENT POINTS SHOULD NOT BE INSTALLED UNTIL ALL UTILITY SETTLEMENT POINTS (WITH OR WITHOUT STANDPIPE) HAVE BEEN INSTALLED PRIOR TO COMMENCEMENT OF ALL PILE WORKS.

(Block 8 Foundation)

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Nov-2014 to 30-Nov-2014

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-Nov-2014		0.20	0.18	0.10						
2-Nov-2014		Sunday								
3-Nov-2014		0.37	0.16	0.11						
4-Nov-2014		0.32	0.19	0.13						
5-Nov-2014		0.14	0.19	0.15						
6-Nov-2014		0.17	0.17	0.11						
7-Nov-2014		0.17	0.18	0.13						
8-Nov-2014		0.19	0.17	0.12						
9-Nov-2014		Sunday								
10-Nov-2014		0.22	0.14	0.14						
11-Nov-2014		0.19	0.20	0.17						
12-Nov-2014		0.13	0.19	0.19						
13-Nov-2014		0.14	0.16	0.17						
14-Nov-2014		0.17	0.13	0.17						
15-Nov-2014		0.17	0.20	0.19						
16-Nov-2014		Sunday								
17-Nov-2014		0.20	0.15	0.16						
18-Nov-2014		0.13	0.17	0.11						
19-Nov-2014		0.12	0.14	0.13						
20-Nov-2014		0.19	0.16	0.13						
21-Nov-2014		0.18	0.13	0.16						
22-Nov-2014		0.17	0.17	0.11						
23-Nov-2014		Sunday								
24-Nov-2014		0.14	0.20	0.15						
25-Nov-2014		0.12	0.17	0.13						
26-Nov-2014		0.17	0.11	0.16						
27-Nov-2014		0.14	0.20	0.11						
28-Nov-2014		0.16	0.15	0.10						
29-Nov-2014		0.20	0.13	0.21						
30-Nov-2014		Sunday								

(Block 8 Foundation)

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Dec-2014 to 31-Dec-2014

POINT		VM8-1	VM11-1#	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.560	0.130	0.190						
1-Dec-2014		0.322	0.147	0.132						
2-Dec-2014		0.156	0.132	0.111						
3-Dec-2014		0.212	0.113	0.103						
4-Dec-2014		0.165	0.180	0.123						
5-Dec-2014		0.148	0.122	0.168						
6-Dec-2014		0.216	0.193	0.147						
7-Dec-2014		Sunday								
8-Dec-2014		0.331	0.152	0.106						
9-Dec-2014		0.182	0.115	0.103						
10-Dec-2014		0.192	0.114	0.132						
11-Dec-2014		0.152	0.216	0.138						
12-Dec-2014		0.131	0.130	0.105						
13-Dec-2014		0.168	0.166	0.115						
14-Dec-2014		Sunday								
15-Dec-2014		0.151	0.136	0.104						
16-Dec-2014		0.182	0.136	0.112						
17-Dec-2014		0.135	0.114	0.165						
18-Dec-2014		0.166	0.114	0.133						
19-Dec-2014		0.165	0.121	0.127						
20-Dec-2014		0.117	0.196	0.154						
21-Dec-2014		Sunday								
22-Dec-2014		0.168	0.111	0.165						
23-Dec-2014		0.196	0.116	0.162						
24-Dec-2014		0.124	0.126	0.113						
25-Dec-2014		Holiday								
26-Dec-2014		Holiday								
27-Dec-2014		0.135	0.146	0.108						
28-Dec-2014		Sunday								
29-Dec-2014		0.159	0.118	0.103						
30-Dec-2014		0.121	0.165	0.121						
31-Dec-2014		0.192	0.123	0.125						

(Block 8 Foundation)

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jan-2015 to 31-Jan-2015

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-Jan-2015		Public Holiday								
2-Jan-2015		0.13	0.13	0.11						
3-Jan-2015		0.16	0.14	0.12						
4-Jan-2015		Sunday								
5-Jan-2015		0.14	0.11	0.10						
6-Jan-2015		0.12	0.15	0.17						
7-Jan-2015		0.20	0.12	0.19						
8-Jan-2015		0.14	0.16	0.15						
9-Jan-2015		0.11	0.12	0.12						
10-Jan-2015		0.13	0.15	0.13						
11-Jan-2015		Sunday								
12-Jan-2015		0.12	0.14	0.14						
13-Jan-2015		0.16	0.11	0.16						
14-Jan-2015		0.13	0.13	0.17						
15-Jan-2015		0.11	0.18	0.13						
16-Jan-2015		0.13	0.11	0.13						
17-Jan-2015		0.11	0.13	0.12						
18-Jan-2015		Sunday								
19-Jan-2015		0.10	0.14	0.11						
20-Jan-2015		0.11	0.13	0.16						
21-Jan-2015		0.14	0.11	0.12						
22-Jan-2015		0.11	0.11	0.12						
23-Jan-2015		0.11	0.13	0.10						
24-Jan-2015		0.14	0.11	0.11						
25-Jan-2015		Sunday								
26-Jan-2015		0.10	0.18	0.13						
27-Jan-2015		0.11	0.15	0.10						
28-Jan-2015		0.17	0.17	0.12						
29-Jan-2015		0.15	0.14	0.10						
30-Jan-2015		0.14	0.16	0.15						
31-Jan-2015		0.11	0.16	0.17						

(Block 8 Foundation)

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Feb-2015 to 28-Feb-2015

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-Feb-2015		Sunday								
2-Feb-2015		0.10	0.13	0.12						
3-Feb-2015		0.11	0.11	0.12						
4-Feb-2015		0.15	0.14	0.11						
5-Feb-2015		0.13	0.11	0.11						
6-Feb-2015		0.11	0.11	0.12						
7-Feb-2015		0.12	0.10	0.11						
8-Feb-2015		Sunday								
9-Feb-2015		0.10	0.11	0.14						
10-Feb-2015		0.10	0.15	0.11						
11-Feb-2015		0.17	0.12	0.10						
12-Feb-2015		0.11	0.12	0.11						
13-Feb-2015		0.12	0.13	0.11						
14-Feb-2015		0.14	0.13	0.12						
15-Feb-2015		Sunday								
16-Feb-2015		0.11	0.11	0.15						
17-Feb-2015		0.11	0.12	0.10						
18-Feb-2015		Site Close								
19-Feb-2015		Public Holiday								
20-Feb-2015		Public Holiday								
21-Feb-2015		Public Holiday								
22-Feb-2015		Sunday								
23-Feb-2015		Site Close								
24-Feb-2015		Site Close								
25-Feb-2015		0.13	0.12	0.11						
26-Feb-2015		0.11	0.11	0.13						
27-Feb-2015		0.12	0.10	0.10						
28-Feb-2015		0.13	0.10	0.09						

(Block 8 Foundation)

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Mar-2015 to 31-Mar-2015

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-Mar-2015					Sunday					
2-Mar-2015		0.10	0.12	0.11						
3-Mar-2015		0.14	0.11	0.09						
4-Mar-2015		0.13	0.10	0.12						
5-Mar-2015		0.10	0.14	0.10						
6-Mar-2015		0.12	0.11	0.11						
7-Mar-2015		0.11	0.10	0.09						
8-Mar-2015					Sunday					
9-Mar-2015		0.17	0.11	0.10						
10-Mar-2015		0.11	0.10	0.11						
11-Mar-2015		0.13	0.11	0.11						
12-Mar-2015		0.11	0.10	0.09						
13-Mar-2015		0.14	0.11	0.10						
14-Mar-2015		0.11	0.10	0.09						
15-Mar-2015					Sunday					
16-Mar-2015		0.11	0.09	0.10						
17-Mar-2015		0.13	0.10	0.09						
18-Mar-2015		0.11	0.11	0.10						
19-Mar-2015		0.10	0.11	0.08						
20-Mar-2015		0.12	0.11	0.09						
21-Mar-2015		0.11	0.12	0.10						
22-Mar-2015					Sunday					
23-Mar-2015		0.10	0.15	0.11						
24-Mar-2015		0.16	0.12	0.11						
25-Mar-2015		0.10	0.11	0.13						
26-Mar-2015		0.11	0.11	0.09						
27-Mar-2015		0.13	0.10	0.11						
28-Mar-2015		0.10	0.10	0.08						
29-Mar-2015					Sunday					
30-Mar-2015		0.15	0.12	0.11						
31-Mar-2015		0.11	0.10	0.09						

(Block 8 Foundation)

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Apr-2015 to 30-Apr-2015

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-Apr-2015		0.11	0.12	0.10						
2-Apr-2015		0.10	0.11	0.10						
3-Apr-2015		Public Holiday								
4-Apr-2015		Public Holiday								
5-Apr-2015		Sunday								
6-Apr-2015		Public Holiday								
7-Apr-2015		Public Holiday								
8-Apr-2015		0.13	0.11	0.10						
9-Apr-2015		0.12	0.11	0.10						
10-Apr-2015		0.10	0.10	0.09						
11-Apr-2015		0.13	0.11	0.08						
12-Apr-2015		Sunday								
13-Apr-2015		0.12	0.11	0.10						
14-Apr-2015		0.11	0.10	0.11						
15-Apr-2015		0.11	0.12	0.10						
16-Apr-2015		0.17	0.11	0.09						
17-Apr-2015		0.10	0.11	0.10						
18-Apr-2015		0.11	0.10	0.09						
19-Apr-2015		Sunday								
20-Apr-2015		0.10	0.14	0.10						
21-Apr-2015		0.10	0.11	0.10						
22-Apr-2015		0.12	0.10	0.10						
23-Apr-2015		0.12	0.10	0.11						
24-Apr-2015		0.14	0.10	0.09						
25-Apr-2015		0.10	0.11	0.10						
26-Apr-2015		Sunday								
27-Apr-2015		0.10	0.11	0.08						
28-Apr-2015		0.11	0.10	0.09						
29-Apr-2015		0.14	0.10	0.10						
30-Apr-2015		0.11	0.11	0.11						

(Block 8 Foundation)

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-May-2015 to 31-May-2015

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-May-2015		Public Holiday								
2-May-2015		0.14	0.11	0.08						
3-May-2015		Sunday								
4-May-2015		0.10	0.10	0.09						
5-May-2015		0.10	0.11	0.10						
6-May-2015		0.11	0.12	0.10						
7-May-2015		0.10	0.11	0.10						
8-May-2015		0.10	0.11	0.10						
9-May-2015		0.17	0.11	0.09						
10-May-2015		Sunday								
11-May-2015		0.11	0.11	0.09						
12-May-2015		0.16	0.12	0.11						
13-May-2015		0.11	0.11	0.10						
14-May-2015		0.11	0.13	0.11						
15-May-2015		0.10	0.10	0.11						
16-May-2015		0.11	0.11	0.10						
17-May-2015		Sunday								
18-May-2015		0.13	0.10	0.11						
19-May-2015		0.12	0.11	0.11						
20-May-2015		0.11	0.10	0.10						
21-May-2015		0.13	0.10	0.12						
22-May-2015		0.11	0.10	0.09						
23-May-2015		0.11	0.10	0.12						
24-May-2015		Sunday								
25-May-2015		Public Holiday								
26-May-2015		0.11	0.10	0.12						
27-May-2015		0.10	0.10	0.11						
28-May-2015		0.14	0.11	0.11						
29-May-2015		0.12	0.10	0.11						
30-May-2015		0.13	0.10	0.11						
31-May-2015		Sunday								

(Block 8 Foundation)

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jun-2015 to 30-Jun-2015

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-2015		0.10	0.14	0.10						
2-Jun-2015		0.10	0.11	0.12						
3-Jun-2015		0.11	0.11	0.11						
4-Jun-2015		0.10	0.10	0.10						
5-Jun-2015		0.10	0.11	0.11						
6-Jun-2015		0.11	0.11	0.13						
7-Jun-2015	Sunday									
8-Jun-2015		0.12	0.11	0.09						
9-Jun-2015		0.10	0.10	0.11						
10-Jun-2015		0.10	0.12	0.10						
11-Jun-2015		0.11	0.12	0.11						
12-Jun-2015		0.10	0.11	0.10						
13-Jun-2015		0.10	0.12	0.11						
14-Jun-2015	Sunday									
15-Jun-2015		0.10	0.11	0.11						
16-Jun-2015		0.10	0.10	0.11						
17-Jun-2015		0.10	0.11	0.11						
18-Jun-2015		0.10	0.13	0.10						
19-Jun-2015		0.10	0.10	0.11						
20-Jun-2015	Public Holiday									
21-Jun-2015	Sunday									
22-Jun-2015		0.10	0.11	0.11						
23-Jun-2015		0.10	0.10	0.11						
24-Jun-2015		0.10	0.11	0.10						
25-Jun-2015		0.10	0.11	0.10						
26-Jun-2015		0.11	0.10	0.11						
27-Jun-2015		0.11	0.10	0.09						
28-Jun-2015	Sunday									
29-Jun-2015		0.10	0.10	0.11						
30-Jun-2015		0.10	0.10	0.10						

(Block 8 Foundation)

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jul-2015 to 31-Jul-2015

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-2015		Public Holiday								
2-Jul-2015		0.10	0.11	0.10						
3-Jul-2015		0.10	0.10	0.11						
4-Jul-2015		0.10	0.10	0.11						
5-Jul-2015		Sunday								
6-Jul-2015		0.09	0.10	0.11						
7-Jul-2015		0.11	0.10	0.11						
8-Jul-2015		0.10	0.11	0.10						
9-Jul-2015		0.10	0.11	0.10						
10-Jul-2015		0.10	0.11	0.11						
11-Jul-2015		0.09	0.11	0.11						
12-Jul-2015		Sunday								
13-Jul-2015		0.11	0.11	0.11						
14-Jul-2015		0.11	0.11	0.10						
15-Jul-2015		0.11	0.11	0.10						
16-Jul-2015		0.10	0.11	0.10						
17-Jul-2015		0.10	0.10	0.11						
18-Jul-2015		0.11	0.11	0.10						
19-Jul-2015		Sunday								
20-Jul-2015		0.12	0.10	0.10						
21-Jul-2015		0.11	0.11	0.10						
22-Jul-2015		0.10	0.11	0.11						
23-Jul-2015		0.11	0.10	0.11						
24-Jul-2015		0.10	0.11	0.10						
25-Jul-2015		0.10	0.11	0.10						
26-Jul-2015		Sunday								
27-Jul-2015		0.10	0.11	0.10						
28-Jul-2015		0.09	0.10	0.11						
29-Jul-2015		0.10	0.13	0.12						
30-Jul-2015		0.10	0.11	0.11						
31-Jul-2015		0.11	0.10	0.10						

(Block 8 Foundation)

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Aug-2015 to 31-Aug-2015

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-Aug-2015		0.10	0.11	0.11						
2-Aug-2015		Sunday								
3-Aug-2015		0.10	0.11	0.10						
4-Aug-2015		0.11	0.10	0.11						
5-Aug-2015		0.11	0.11	0.11						
6-Aug-2015		0.11	0.10	0.10						
7-Aug-2015		0.10	0.10	0.11						
8-Aug-2015		0.12	0.10	0.11						
9-Aug-2015		Sunday								
10-Aug-2015		0.10	0.10	0.11						
11-Aug-2015		0.10	0.10	0.11						
12-Aug-2015		0.08	0.11	0.11						
13-Aug-2015		0.10	0.10	0.11						
14-Aug-2015		0.10	0.11	0.10						
15-Aug-2015		0.09	0.10	0.11						
16-Aug-2015		Sunday								
17-Aug-2015		0.11	0.11	0.10						
18-Aug-2015		0.10	0.11	0.10						
19-Aug-2015		0.10	0.11	0.10						
20-Aug-2015		0.10	0.10	0.11						
21-Aug-2015		0.10	0.10	0.10						
22-Aug-2015		0.10	0.11	0.11						
23-Aug-2015		Sunday								
24-Aug-2015		0.10	0.10	0.10						
25-Aug-2015		0.10	0.11	0.10						
26-Aug-2015		0.10	0.11	0.10						
27-Aug-2015		0.10	0.11	0.11						
28-Aug-2015		0.10	0.10	0.10						
29-Aug-2015		0.10	0.10	0.10						
30-Aug-2015		Sunday								
31-Aug-2015		0.11	0.10	0.11						

(Block 8 Foundation)

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Sep-2015 to 30-Sep-2015

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-Sep-2015		0.11	0.11	0.10						
2-Sep-2015		0.11	0.11	0.11						
3-Sep-2015		Holiday								
4-Sep-2015		0.10	0.10	0.12						
5-Sep-2015		0.12	0.10	0.11						
6-Sep-2015		Sunday								
7-Sep-2015		0.10	0.11	0.10						
8-Sep-2015		0.10	0.10	0.11						
9-Sep-2015		0.10	0.11	0.12						
10-Sep-2015		0.11	0.10	0.11						
11-Sep-2015		0.10	0.11	0.10						
12-Sep-2015		0.11	0.11	0.10						
13-Sep-2015		Sunday								
14-Sep-2015		0.10	0.10	0.11						
15-Sep-2015		0.10	0.11	0.10						
16-Sep-2015		0.11	0.10	0.11						
17-Sep-2015		0.11	0.10	0.11						
18-Sep-2015		0.10	0.11	0.10						
19-Sep-2015		0.10	0.11	0.11						
20-Sep-2015		Sunday								
21-Sep-2015		0.10	0.10	0.11						
22-Sep-2015		0.09	0.11	0.11						
23-Sep-2015		0.10	0.11	0.11						
24-Sep-2015		0.10	0.10	0.12						
25-Sep-2015		0.10	0.10	0.11						
26-Sep-2015		0.10	0.10	0.11						
27-Sep-2015		Sunday								
28-Sep-2015		Holiday								
29-Sep-2015		0.10	0.10	0.11						
30-Sep-2015		0.10	0.11	0.11						

(Block 8 Foundation)

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Oct-2015 to 31-Oct-2015

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-Oct-2015		Holiday								
2-Oct-2015		0.105	0.101	0.107						
3-Oct-2015		0.100	0.102	0.108						
4-Oct-2015		Sunday								
5-Oct-2015		0.096	0.103	0.102						
6-Oct-2015		0.099	0.103	0.116						
7-Oct-2015		0.093	0.100	0.107						
8-Oct-2015		0.102	0.092	0.103						
9-Oct-2015		0.102	0.109	0.102						
10-Oct-2015		0.102	0.107	0.102						
11-Oct-2015		Sunday								
12-Oct-2015		0.102	0.109	0.105						
13-Oct-2015		0.098	0.105	0.107						
14-Oct-2015		0.095	0.104	0.121						
15-Oct-2015		0.093	0.104	0.108						
16-Oct-2015		0.098	0.103	0.104						
17-Oct-2015		0.089	0.104	0.102						
18-Oct-2015		Sunday								
19-Oct-2015		0.099	0.101	0.106						
20-Oct-2015		0.105	0.096	0.101						
21-Oct-2015		Holiday								
22-Oct-2015		0.103	0.109	0.122						
23-Oct-2015		0.093	0.109	0.105						
24-Oct-2015		0.103	0.109	0.105						
25-Oct-2015		Sunday								
26-Oct-2015		/	0.101	0.104						
27-Oct-2015		/	0.107	0.102						
28-Oct-2015		/	0.103	0.109						
29-Oct-2015		/	0.103	0.107						
30-Oct-2015		/	0.108	0.105						
31-Oct-2015		/	0.102	0.104						

Mini-piles with post-pressurized grout in CDG and steel shear H-piles at Block 1



Project No.	00-OAP209674-G-001
Revision/Description	03/12 JS
Author	DD SUBMISSION
Checker	03/12 JS
Approver	03/12 JS

Plan Approved
 NG Kuhnberg
 Chief Structural Engineer
 for BUILDING AUTHORITY
 19 MAR 2012



BD SUBMISSION
 Drawing Status 製圖狀況

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Client 委託
 香港文物保育有限公司
 The Heritage Conservation Unit
 Design Consultant
HERZOG & DEMEUREN
 Conservation Architects
 Executive Architect / AP
ROCCO
 Structural Engineer / RSE
 K.C. Lai
ARUP
 Project 項目
**CENTRAL POLICE STATION
 CONSERVATION AND REVITALISATION
 PROJECT**
 Drawing Title 圖名
MONITORING LAYOUT PLAN

Scale 比例尺
 1:3000A1
 Drawing No. 圖號
00-OAP209674-G-001
 Checked 校對
 AL
 Revision 修訂
B

LEGEND

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

NOTES:

- UTILITIES SETTLEMENT POINTS (UT1 TO UT6) SHALL ONLY BE INSTALLED AFTER EXCAVATION PERMIT IS OBTAINED. AS ALTERNATIVE SETTLEMENT POINTS (GS18 AND GS19) MAY BE INSTALLED.
- SHOULD UT1 TO UT6 BE INSTALLED, GS18 AND GS19 SHALL NOT BE REQUIRED.
- EITHER UTILITIES SETTLEMENT MARKERS (UT1 TO UT6) OR GROUND SETTLEMENT MARKERS (GS18 AND GS19) SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF OLD BAILEY WING ELS WORKS.



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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Nov-2014 to 30-Nov-2014

POINT		VM17-1	VM17-3 #						
DATE	PD/(m)	mm/s	mm/s						
19-Jun-2012 (Initial)		0.13	0.37						
Surveying Date									
1-Nov-2014		0.09	0.10						
2-Nov-2014		Sunday							
3-Nov-2014		0.12	0.10						
4-Nov-2014		0.10	0.08						
5-Nov-2014		0.10	0.10						
6-Nov-2014		0.11	0.09						
7-Nov-2014		0.09	0.07						
8-Nov-2014		0.12	0.10						
9-Nov-2014		Sunday							
10-Nov-2014		0.10	0.10						
11-Nov-2014		0.12	0.09						
12-Nov-2014		0.11	0.09						
13-Nov-2014		0.14	0.07						
14-Nov-2014		0.14	0.07						
15-Nov-2014		0.11	0.10						
16-Nov-2014		Sunday							
17-Nov-2014		0.10	0.09						
18-Nov-2014		0.11	0.12						
19-Nov-2014		0.10	0.11						
20-Nov-2014		0.17	0.16						
21-Nov-2014		0.15	0.13						
22-Nov-2014		0.12	0.11						
23-Nov-2014		Sunday							
24-Nov-2014		0.16	0.16						
25-Nov-2014		0.10	0.10						
26-Nov-2014		0.10	0.12						
27-Nov-2014		0.14	0.13						
28-Nov-2014		0.14	0.17						
29-Nov-2014		0.15	0.11						
30-Nov-2014		Sunday							

(Block 17 Foundation Works)

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Dec-2014 to 31-Dec-2014

POINT		VM17-1	VM17-2	VM17-3 #						
DATE	PD/(m)	mm/s	mm/s	mm/s						
19-Jun-2012 (Initial)		0.130	0.370	0.370						
Surveying Date										
1-Dec-2014		0.111	0.102	0.105						
2-Dec-2014		0.103	0.093	0.101						
3-Dec-2014		0.141	0.105	0.082						
4-Dec-2014		0.132	0.097	0.116						
5-Dec-2014		0.113	0.143	0.097						
6-Dec-2014		0.106	0.098	0.087						
7-Dec-2014		Sunday								
8-Dec-2014		0.103	0.085	0.110						
9-Dec-2014		0.103	0.108	0.095						
10-Dec-2014		0.117	0.102	0.095						
11-Dec-2014		0.106	0.157	0.107						
12-Dec-2014		0.155	0.134	0.115						
13-Dec-2014		0.125	0.116	0.107						
14-Dec-2014		Sunday								
15-Dec-2014		0.138	0.114	0.182						
16-Dec-2014		0.153	0.141	0.120						
17-Dec-2014		0.114	0.129	0.109						
18-Dec-2014		0.113	0.142	0.185						
19-Dec-2014		0.201	0.157	0.158						
20-Dec-2014		0.126	0.114	0.102						
21-Dec-2014		Sunday								
22-Dec-2014		0.120	0.114	0.103						
23-Dec-2014		0.106	0.141	0.112						
24-Dec-2014		0.099	0.141	0.133						
25-Dec-2014		Holiday								
26-Dec-2014		Holiday								
27-Dec-2014		0.103	0.126	0.110						
28-Dec-2014		Sunday								
29-Dec-2014		0.123	0.108	0.101						
30-Dec-2014		0.111	0.152	0.105						
31-Dec-2014		0.150	0.103	0.120						

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jan-2015 to 31-Jan-2015

POINT		VM17-1	VM17-3 #						
DATE	PD/(m)	mm/s	mm/s						
19-Jun-2012 (Initial)		0.13	0.37						
Surveying Date									
1-Jan-2015				Public Holiday					
2-Jan-2015		0.10	0.09						
3-Jan-2015		0.12	0.10						
4-Jan-2015				Sunday					
5-Jan-2015		0.10	0.10						
6-Jan-2015		0.12	0.09						
7-Jan-2015		0.11	0.11						
8-Jan-2015		0.15	0.15						
9-Jan-2015		0.16	0.12						
10-Jan-2015		0.17	0.11						
11-Jan-2015				Sunday					
12-Jan-2015		0.13	0.10						
13-Jan-2015		0.16	0.17						
14-Jan-2015		0.12	0.12						
15-Jan-2015		0.11	0.12						
16-Jan-2015		0.14	0.11						
17-Jan-2015		0.11	0.14						
18-Jan-2015				Sunday					
19-Jan-2015		0.11	0.11						
20-Jan-2015		0.14	0.10						
21-Jan-2015		0.10	0.11						
22-Jan-2015		0.11	0.10						
23-Jan-2015		0.14	0.11						
24-Jan-2015		0.10	0.09						
25-Jan-2015				Sunday					
26-Jan-2015		0.11	0.09						
27-Jan-2015		0.13	0.09						
28-Jan-2015		0.13	0.07						
29-Jan-2015		0.14	0.18						
30-Jan-2015		0.15	0.15						
31-Jan-2015		0.14	0.07						

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Feb-2015 to 28-Feb-2015

POINT		VM17-1	VM17-3 #						
DATE	PD/(m)	mm/s	mm/s						
19-Jun-2012 (Initial)		0.13	0.37						
Surveying Date									
1-Feb-2015				Sunday					
2-Feb-2015		0.10	0.09						
3-Feb-2015		0.10	0.09						
4-Feb-2015		0.10	0.08						
5-Feb-2015		0.10	0.10						
6-Feb-2015		0.13	0.08						
7-Feb-2015		0.11	0.09						
8-Feb-2015				Sunday					
9-Feb-2015		0.17	0.11						
10-Feb-2015		0.11	0.08						
11-Feb-2015		0.12	0.10						
12-Feb-2015		0.12	0.11						
13-Feb-2015		0.12	0.10						
14-Feb-2015		0.11	0.14						
15-Feb-2015				Sunday					
16-Feb-2015		0.11	0.09						
17-Feb-2015		0.10	0.08						
18-Feb-2015				Site Close					
19-Feb-2015				Public Holiday					
20-Feb-2015				Public Holiday					
21-Feb-2015				Public Holiday					
22-Feb-2015				Sunday					
23-Feb-2015				Site Close					
24-Feb-2015				Site Close					
25-Feb-2015		0.10	0.07						
26-Feb-2015		0.11	0.08						
27-Feb-2015		0.10	0.08						
28-Feb-2015		0.10	0.10						

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Mar-2015 to 31-Mar-2015

POINT		VM17-1	VM17-3 #						
DATE	PD/(m)	mm/s	mm/s						
19-Jun-2012 (Initial)		0.13	0.37						
Surveying Date									
1-Mar-2015				Sunday					
2-Mar-2015		0.11	0.08						
3-Mar-2015		0.11	0.07						
4-Mar-2015		0.11	0.11						
5-Mar-2015		0.11	0.10						
6-Mar-2015		0.10	0.09						
7-Mar-2015		0.10	0.08						
8-Mar-2015				Sunday					
9-Mar-2015		0.11	0.07						
10-Mar-2015		0.11	0.10						
11-Mar-2015		0.10	0.08						
12-Mar-2015		0.10	0.08						
13-Mar-2015		0.10	0.08						
14-Mar-2015		0.12	0.10						
15-Mar-2015				Sunday					
16-Mar-2015		0.10	0.13						
17-Mar-2015		0.11	0.11						
18-Mar-2015		0.11	0.10						
19-Mar-2015		0.10	0.09						
20-Mar-2015		0.11	0.10						
21-Mar-2015		0.10	0.08						
22-Mar-2015				Sunday					
23-Mar-2015		0.10	0.09						
24-Mar-2015		0.14	0.08						
25-Mar-2015		0.10	0.07						
26-Mar-2015		0.10	0.08						
27-Mar-2015		0.11	0.10						
28-Mar-2015		0.10	0.07						
29-Mar-2015				Sunday					
30-Mar-2015		0.11	0.09						
31-Mar-2015		0.11	0.08						

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Apr-2015 to 30-Apr-2015

POINT		VM17-1	VM17-3 #							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012 (Initial)		0.13	0.37							
Surveying Date										
1-Apr-2015		0.10	0.09							
2-Apr-2015		0.10	0.07							
3-Apr-2015		Public Holiday								
4-Apr-2015		Public Holiday								
5-Apr-2015		Sunday								
6-Apr-2015		Public Holiday								
7-Apr-2015		Public Holiday								
8-Apr-2015		0.11	0.10							
9-Apr-2015		0.11	0.11							
10-Apr-2015		0.12	0.11							
11-Apr-2015		0.12	0.11							
12-Apr-2015		Sunday								
13-Apr-2015		0.12	0.11							
14-Apr-2015		0.16	0.10							
15-Apr-2015		0.10	0.11							
16-Apr-2015		0.11	0.10							
17-Apr-2015		0.11	0.09							
18-Apr-2015		0.10	0.09							
19-Apr-2015		Sunday								
20-Apr-2015		0.10	0.10							
21-Apr-2015		0.11	0.10							
22-Apr-2015		0.10	0.09							
23-Apr-2015		0.11	0.10							
24-Apr-2015		0.11	0.10							
25-Apr-2015		0.11	0.10							
26-Apr-2015		Sunday								
27-Apr-2015		0.12	0.07							
28-Apr-2015		0.11	0.09							
29-Apr-2015		0.10	0.10							
30-Apr-2015		0.10	0.10							

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-May-2015 to 31-May-2015

POINT		VM17-1	VM17-3 #						
DATE	PD/(m)	mm/s	mm/s						
19-Jun-2012 (Initial)		0.13	0.37						
Surveying Date									
1-May-2015				Public Holiday					
2-May-2015		0.10	0.08						
3-May-2015				Sunday					
4-May-2015		0.10	0.09						
5-May-2015		0.12	0.10						
6-May-2015		0.10	0.10						
7-May-2015		0.12	0.09						
8-May-2015		0.10	0.10						
9-May-2015		0.11	0.10						
10-May-2015				Sunday					
11-May-2015		0.11	0.11						
12-May-2015		0.10	0.10						
13-May-2015		0.11	0.12						
14-May-2015		0.11	0.11						
15-May-2015		0.10	0.10						
16-May-2015		0.10	0.11						
17-May-2015				Sunday					
18-May-2015		0.11	0.11						
19-May-2015		0.11	0.11						
20-May-2015		0.12	0.11						
21-May-2015		0.11	0.11						
22-May-2015		0.11	0.10						
23-May-2015		0.11	0.11						
24-May-2015				Sunday					
25-May-2015				Public Holiday					
26-May-2015		0.12	0.11						
27-May-2015		0.12	0.11						
28-May-2015		0.12	0.10						
29-May-2015		0.10	0.10						
30-May-2015		0.11	0.11						
31-May-2015				Sunday					

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jun-2015 to 30-Jun-2015

POINT		VM17-1	VM17-3 #						
DATE	PD/(m)	mm/s	mm/s						
19-Jun-2012 (Initial)		0.13	0.37						
Surveying Date									
1-Jun-2015		0.11	0.10						
2-Jun-2015		0.11	0.10						
3-Jun-2015		0.11	0.10						
4-Jun-2015		0.11	0.11						
5-Jun-2015		0.10	0.10						
6-Jun-2015		0.11	0.10						
7-Jun-2015	Sunday								
8-Jun-2015		0.10	0.10						
9-Jun-2015		0.11	0.10						
10-Jun-2015		0.10	0.10						
11-Jun-2015		0.11	0.10						
12-Jun-2015		0.10	0.10						
13-Jun-2015		0.10	0.09						
14-Jun-2015	Sunday								
15-Jun-2015		0.11	0.10						
16-Jun-2015		0.10	0.11						
17-Jun-2015		0.10	0.10						
18-Jun-2015		0.10	0.10						
19-Jun-2015		0.10	0.10						
20-Jun-2015	Public Holiday								
21-Jun-2015	Sunday								
22-Jun-2015		0.10	0.09						
23-Jun-2015		0.11	0.09						
24-Jun-2015		0.10	0.10						
25-Jun-2015		0.10	0.10						
26-Jun-2015		0.10	0.10						
27-Jun-2015		0.10	0.08						
28-Jun-2015	Sunday								
29-Jun-2015		0.10	0.10						
30-Jun-2015		0.11	0.10						

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jul-2015 to 31-Jul-2015

POINT		VM17-1	VM17-3 #						
DATE	PD/(m)	mm/s	mm/s						
19-Jun-2012 (Initial)		0.13	0.37						
Surveying Date									
1-Jul-2015				Public Holiday					
2-Jul-2015		0.11	0.10						
3-Jul-2015		0.10	0.09						
4-Jul-2015		0.10	0.10						
5-Jul-2015				Sunday					
6-Jul-2015		0.10	0.09						
7-Jul-2015		0.10	0.10						
8-Jul-2015		0.11	0.08						
9-Jul-2015		0.11	0.09						
10-Jul-2015		0.10	0.10						
11-Jul-2015		0.10	0.08						
12-Jul-2015				Sunday					
13-Jul-2015		0.11	0.10						
14-Jul-2015		0.11	0.10						
15-Jul-2015		0.11	0.07						
16-Jul-2015		0.11	0.10						
17-Jul-2015		0.11	0.12						
18-Jul-2015		0.11	0.10						
19-Jul-2015				Sunday					
20-Jul-2015		0.10	0.09						
21-Jul-2015		0.10	0.10						
22-Jul-2015		0.11	0.09						
23-Jul-2015		0.11	0.09						
24-Jul-2015		0.10	0.10						
25-Jul-2015		0.10	0.09						
26-Jul-2015				Sunday					
27-Jul-2015		0.10	0.09						
28-Jul-2015		0.11	0.10						
29-Jul-2015		0.11	0.10						
30-Jul-2015		0.10	0.09						
31-Jul-2015		0.11	0.10						

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Aug-2015 to 31-Aug-2015

POINT		VM17-1	VM17-3 #						
DATE	PD/(m)	mm/s	mm/s						
19-Jun-2012 (Initial)		0.13	0.37						
Surveying Date									
1-Aug-2015		0.11	0.11						
2-Aug-2015				Sunday					
3-Aug-2015		0.10	0.10						
4-Aug-2015		0.11	0.10						
5-Aug-2015		0.10	0.10						
6-Aug-2015		0.10	0.08						
7-Aug-2015		0.10	0.10						
8-Aug-2015		0.10	0.09						
9-Aug-2015				Sunday					
10-Aug-2015		0.10	0.08						
11-Aug-2015		0.11	0.10						
12-Aug-2015		0.10	0.08						
13-Aug-2015		0.10	0.08						
14-Aug-2015		0.11	0.09						
15-Aug-2015		0.11	0.08						
16-Aug-2015				Sunday					
17-Aug-2015		0.10	0.07						
18-Aug-2015		0.09	0.08						
19-Aug-2015		0.10	0.07						
20-Aug-2015		0.10	0.07						
21-Aug-2015		0.10	0.07						
22-Aug-2015		0.11	0.08						
23-Aug-2015				Sunday					
24-Aug-2015		0.10	0.10						
25-Aug-2015		0.09	0.08						
26-Aug-2015		0.11	0.08						
27-Aug-2015		0.10	0.10						
28-Aug-2015		0.10	0.10						
29-Aug-2015		0.11	0.11						
30-Aug-2015				Sunday					
31-Aug-2015		0.11	0.08						

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Sep-2015 to 30-Sep-2015

POINT		VM17-1	VM17-3 #						
DATE	PD/(m)	mm/s	mm/s						
19-Jun-2012 (Initial)		0.13	0.37						
Surveying Date									
1-Sep-2015		0.09	0.08						
2-Sep-2015		0.10	0.11						
3-Sep-2015	Holiday								
4-Sep-2015		0.12	0.11						
5-Sep-2015		0.11	0.10						
6-Sep-2015	Sunday								
7-Sep-2015		0.10	0.10						
8-Sep-2015		0.11	0.09						
9-Sep-2015		0.11	0.10						
10-Sep-2015		0.12	0.10						
11-Sep-2015		0.10	0.11						
12-Sep-2015		0.11	0.10						
13-Sep-2015	Sunday								
14-Sep-2015		0.10	0.11						
15-Sep-2015		0.11	0.11						
16-Sep-2015		0.11	0.11						
17-Sep-2015		0.10	0.10						
18-Sep-2015		0.11	0.11						
19-Sep-2015		0.12	0.11						
20-Sep-2015	Sunday								
21-Sep-2015		0.11	0.10						
22-Sep-2015		0.11	0.10						
23-Sep-2015		0.11	0.11						
24-Sep-2015		0.10	0.10						
25-Sep-2015		0.11	0.11						
26-Sep-2015		0.10	0.10						
27-Sep-2015	Sunday								
28-Sep-2015	Holiday								
29-Sep-2015		0.10	0.11						
30-Sep-2015		0.11	0.11						

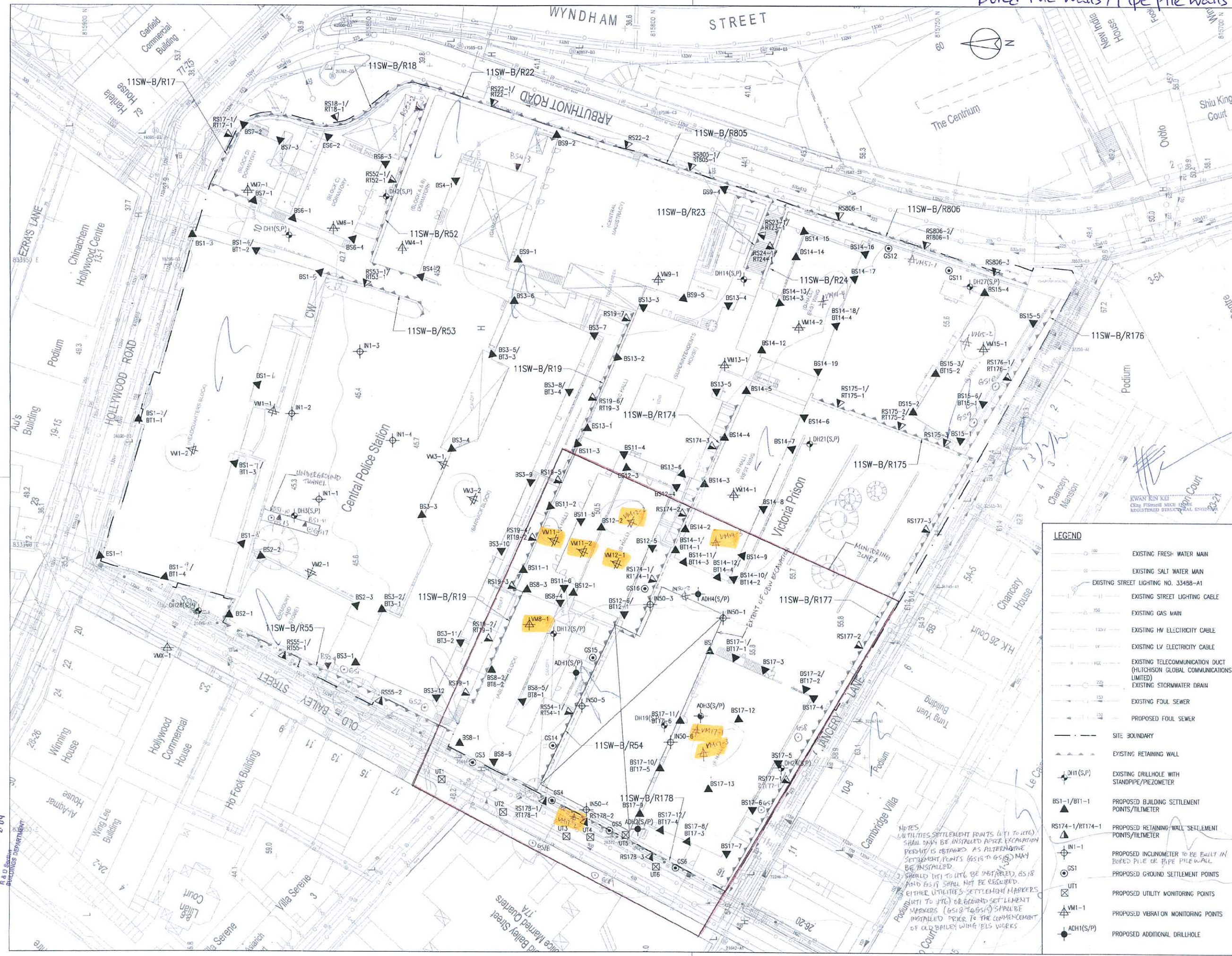
Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s
# Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Oct-2015 to 31-Oct-2015

POINT		VM17-1	VM17-3 #						
DATE	PD/(m)	mm/s	mm/s						
19-Jun-2012 (Initial)		0.13	0.37						
Surveying Date									
1-Oct-2015				Holiday					
2-Oct-2015		0.101	0.106						
3-Oct-2015		0.102	0.107						
4-Oct-2015				Sunday					
5-Oct-2015		0.107	0.114						
6-Oct-2015		0.103	0.109						
7-Oct-2015		0.107	0.117						
8-Oct-2015		0.113	0.114						
9-Oct-2015		0.116	0.102						
10-Oct-2015		0.106	0.119						
11-Oct-2015				Sunday					
12-Oct-2015		0.105	0.100						
13-Oct-2015		0.109	0.107						
14-Oct-2015		0.109	0.115						
15-Oct-2015		0.103	0.104						
16-Oct-2015		0.109	0.111						
17-Oct-2015		0.106	0.109						
18-Oct-2015				Sunday					
19-Oct-2015		0.111	0.103						
20-Oct-2015		0.092	0.092						
21-Oct-2015				Holiday					
22-Oct-2015		0.105	0.109						
23-Oct-2015		0.104	0.104						
24-Oct-2015		0.109	0.107						
25-Oct-2015				Sunday					
26-Oct-2015		/	/						
27-Oct-2015		/	/						
28-Oct-2015		/	/						
29-Oct-2015		/	/						
30-Oct-2015		/	/						
31-Oct-2015		/	/						

Bored Pile Walls / Pipe pile Walls at Block 50



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

Revision/Submission 修改版/ 版本
 No. 編號 Description 說明 Date 日期 Approved 審定
 - BD SUBMISSION 12/11 JS

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



BD SUBMISSION
 Drawing Status 圖樣狀況

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

Design Consultant
HERZOG & DEMEUREN

Conservation Architect
 Rocco Yip

Executive Architect / AP
 Rocco Yip

Structural Engineer / RSE E & M Engineer
ARUP

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

Drawing Title 圖名
MONITORING LAYOUT PLAN

Scale 比例 1:3000
 Drawn 繪圖 K.C.Loi
 Checked 校核 AL
 Drawing No. 圖號 00-OAP209674-G-001
 Revision 修改版

LEGEND

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

NOTES
 UTILITIES SETTLEMENT POINTS (UT1 TO UT6) SHALL ONLY BE INSTALLED AFTER EXCAVATION PERMIT IS OBTAINED AS ALTERNATIVE SETTLEMENT POINTS (GS16 TO GS19) MAY BE INSTALLED.
 應於獲取得掘開許可後，方可安裝 UT1 至 UT6 之管線沉降點，因為可安裝之替代沉降點 (GS16 至 GS19) 可能已安裝。
 GS18 AND GS19 SHALL NOT BE REQUIRED.
 GS18 及 GS19 均不須安裝。
 EITHER UTILITY SETTLEMENT MARKERS (UT1 TO UT6) OR GROUND SETTLEMENT MARKERS (GS18 TO GS19) SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF OLD BAILEY WALLS WORKS.

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Nov-2014 to 30-Nov-2014

POINT		VM8-1	VM11-1#	VM11-2	VM12-1#	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3 #
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (Initial)		0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
1-Nov-2014		0.20	0.18	0.10	0.20	0.16	0.17	0.09	0.10	0.10
2-Nov-2014		Sunday								
3-Nov-2014		0.37	0.16	0.11	0.32	0.15	0.56	0.12	0.07	0.10
4-Nov-2014		0.32	0.19	0.13	0.16	0.14	0.18	0.10	0.10	0.08
5-Nov-2014		0.14	0.19	0.15	0.20	0.16	0.25	0.10	0.11	0.10
6-Nov-2014		0.17	0.17	0.11	0.18	0.15	0.22	0.11	0.12	0.09
7-Nov-2014		0.17	0.18	0.13	0.21	0.14	0.31	0.09	0.10	0.07
8-Nov-2014		0.19	0.17	0.12	0.19	0.16	0.17	0.12	0.10	0.10
9-Nov-2014		Sunday								
10-Nov-2014		0.22	0.14	0.14	0.13	0.15	0.14	0.10	0.08	0.10
11-Nov-2014		0.19	0.20	0.17	0.19	0.20	0.19	0.12	0.10	0.09
12-Nov-2014		0.13	0.19	0.19	0.32	0.13	0.16	0.11	0.12	0.09
13-Nov-2014		0.14	0.16	0.17	0.25	0.12	0.16	0.14	0.12	0.07
14-Nov-2014		0.17	0.13	0.17	0.20	0.12	0.18	0.14	0.12	0.07
15-Nov-2014		0.17	0.20	0.19	0.13	0.17	0.19	0.11	0.12	0.10
16-Nov-2014		Sunday								
17-Nov-2014		0.20	0.15	0.16	0.18	0.13	0.18	0.10	0.10	0.09
18-Nov-2014		0.13	0.17	0.11	0.14	0.12	0.15	0.11	0.09	0.12
19-Nov-2014		0.12	0.14	0.13	0.20	0.11	0.20	0.10	0.09	0.11
20-Nov-2014		0.19	0.16	0.13	0.16	0.10	0.18	0.17	0.11	0.16
21-Nov-2014		0.18	0.13	0.16	0.21	0.12	0.16	0.15	0.14	0.13
22-Nov-2014		0.17	0.17	0.11	0.19	0.12	0.18	0.12	0.12	0.11
23-Nov-2014		Sunday								
24-Nov-2014		0.14	0.20	0.15	0.15	0.18	0.20	0.16	0.11	0.16
25-Nov-2014		0.12	0.17	0.13	0.18	0.12	0.13	0.10	0.15	0.10
26-Nov-2014		0.17	0.11	0.16	0.13	0.15	0.15	0.10	0.10	0.12
27-Nov-2014		0.14	0.20	0.11	0.19	0.16	0.16	0.14	0.10	0.13
28-Nov-2014		0.16	0.15	0.10	0.14	0.10	0.17	0.14	0.14	0.17
29-Nov-2014		0.17	0.13	0.19						
30-Nov-2014		Sunday								

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Dec-2014 to 31-Dec-2014

POINT		VM8-1	VM11-1#	VM11-2	VM12-1#	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3 #
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.560	0.130	0.190	0.220	0.130	0.210	0.130	0.130	0.370
Surveying Date										
1-Dec-2014		0.322	0.147	0.132	0.198	0.121	0.132	0.111	0.102	0.105
2-Dec-2014		0.156	0.132	0.111	0.198	0.132	0.182	0.103	0.093	0.101
3-Dec-2014		0.212	0.113	0.103	0.151	0.120	0.192	0.141	0.105	0.082
4-Dec-2014		0.165	0.180	0.123	0.164	0.154	0.147	0.132	0.097	0.116
5-Dec-2014		0.148	0.122	0.168	0.121	0.198	0.136	0.113	0.143	0.097
6-Dec-2014		0.216	0.193	0.147	0.122	0.103	0.146	0.106	0.098	0.087
7-Dec-2014		Sunday								
8-Dec-2014		0.331	0.152	0.106	0.135	0.133	0.126	0.103	0.085	0.110
9-Dec-2014		0.182	0.115	0.103	0.172	0.114	0.134	0.103	0.108	0.095
10-Dec-2014		0.192	0.114	0.132	0.152	0.103	0.151	0.117	0.102	0.095
11-Dec-2014		0.152	0.216	0.138	0.115	0.108	0.125	0.106	0.157	0.107
12-Dec-2014		0.131	0.130	0.105	0.168	0.111	0.118	0.155	0.134	0.115
13-Dec-2014		0.168	0.166	0.115	0.172	0.132	0.182	0.125	0.116	0.107
14-Dec-2014		Sunday								
15-Dec-2014		0.151	0.136	0.104	0.120	0.183	0.114	0.138	0.114	0.182
16-Dec-2014		0.182	0.136	0.112	0.103	0.154	0.119	0.153	0.141	0.120
17-Dec-2014		0.135	0.114	0.165	0.112	0.130	0.162	0.114	0.129	0.109
18-Dec-2014		0.166	0.114	0.133	0.182	0.145	0.149	0.113	0.142	0.185
19-Dec-2014		0.165	0.121	0.127	0.162	0.149	0.119	0.201	0.157	0.158
20-Dec-2014		0.117	0.196	0.154	0.152	0.114	0.192	0.126	0.114	0.102
21-Dec-2014		Sunday								
22-Dec-2014		0.168	0.111	0.165	0.132	0.103	0.171	0.120	0.114	0.103
23-Dec-2014		0.196	0.116	0.162	0.106	0.153	0.126	0.106	0.141	0.112
24-Dec-2014		0.124	0.126	0.113	0.102	0.149	0.131	0.099	0.141	0.133
25-Dec-2014		Holiday								
26-Dec-2014		Holiday								
27-Dec-2014		0.135	0.146	0.108	0.171	0.155	0.116	0.103	0.126	0.110
28-Dec-2014		Sunday								
29-Dec-2014		0.159	0.118	0.103	0.136	0.158	0.116	0.123	0.108	0.101
30-Dec-2014		0.121	0.165	0.121	0.103	0.165	0.152	0.111	0.152	0.105
31-Dec-2014		0.192	0.123	0.125	0.136	0.114	0.123	0.150	0.103	0.120

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jan-2015 to 31-Jan-2015

POINT		VM8-1	VM11-1#	VM11-2	VM12-1#	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3 #
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
1-Jan-2015		Public Holiday								
2-Jan-2015		0.13	0.13	0.11	0.10	0.13	0.15	0.10	0.11	0.09
3-Jan-2015		0.16	0.14	0.12	0.12	0.17	0.17	0.12	0.10	0.10
4-Jan-2015		Sunday								
5-Jan-2015		0.14	0.11	0.10	0.12	0.12	0.13	0.10	0.12	0.10
6-Jan-2015		0.12	0.15	0.17	0.11	0.12	0.11	0.12	0.10	0.09
7-Jan-2015		0.20	0.12	0.19	0.10	0.17	0.13	0.11	0.11	0.11
8-Jan-2015		0.14	0.16	0.15	0.10	0.14	0.11	0.15	0.13	0.15
9-Jan-2015		0.11	0.12	0.12	0.14	0.13	0.13	0.16	0.16	0.12
10-Jan-2015		0.13	0.15	0.13	0.12	0.18	0.14	0.17	0.15	0.11
11-Jan-2015		Sunday								
12-Jan-2015		0.12	0.14	0.14	0.10	0.16	0.13	0.13	0.12	0.10
13-Jan-2015		0.16	0.11	0.16	0.11	0.14	0.14	0.16	0.12	0.17
14-Jan-2015		0.13	0.13	0.17	0.10	0.11	0.12	0.12	0.11	0.12
15-Jan-2015		0.11	0.18	0.13	0.11	0.13	0.15	0.11	0.13	0.12
16-Jan-2015		0.13	0.11	0.13	0.10	0.10	0.15	0.14	0.11	0.11
17-Jan-2015		0.11	0.13	0.12	0.09	0.11	0.18	0.11	0.11	0.14
18-Jan-2015		Sunday								
19-Jan-2015		0.10	0.14	0.11	0.11	0.10	0.17	0.11	0.11	0.11
20-Jan-2015		0.11	0.13	0.16	0.10	0.11	0.20	0.14	0.11	0.10
21-Jan-2015		0.14	0.11	0.12	0.11	0.12	0.12	0.10	0.11	0.11
22-Jan-2015		0.11	0.11	0.12	0.10	0.15	0.16	0.11	0.14	0.10
23-Jan-2015		0.11	0.13	0.10	0.11	0.14	0.14	0.14	0.10	0.11
24-Jan-2015		0.14	0.11	0.11	0.11	0.16	0.12	0.10	0.11	0.09
25-Jan-2015		Sunday								
26-Jan-2015		0.10	0.18	0.13	0.11	0.12	0.14	0.11	0.10	0.09
27-Jan-2015		0.11	0.15	0.10	0.11	0.11	0.12	0.13	0.10	0.09
28-Jan-2015		0.17	0.17	0.12	0.11	0.18	0.20	0.13	0.12	0.07
29-Jan-2015		0.15	0.14	0.10	0.12	0.18	0.11	0.14	0.11	0.18
30-Jan-2015		0.14	0.16	0.15	0.10	0.14	0.11	0.15	0.13	0.15
31-Jan-2015		0.11	0.16	0.17	0.15	0.12	0.16	0.14	0.12	0.07

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Feb-2015 to 28-Feb-2015

POINT		VM8-1	VM11-1#	VM11-2	VM12-1#	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3 #
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (Initial)		0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
1-Feb-2015		Sunday								
2-Feb-2015		0.10	0.13	0.12	0.10	0.11	0.13	0.10	0.11	0.09
3-Feb-2015		0.11	0.11	0.12	0.11	0.11	0.13	0.10	0.11	0.09
4-Feb-2015		0.15	0.14	0.11	0.11	0.10	0.14	0.10	0.09	0.08
5-Feb-2015		0.13	0.11	0.11	0.10	0.14	0.12	0.10	0.10	0.10
6-Feb-2015		0.11	0.11	0.12	0.12	0.10	0.11	0.13	0.10	0.08
7-Feb-2015		0.12	0.10	0.11	0.11	0.10	0.13	0.11	0.10	0.09
8-Feb-2015		Sunday								
9-Feb-2015		0.10	0.11	0.14	0.12	0.11	0.12	0.17	0.13	0.11
10-Feb-2015		0.10	0.15	0.11	0.11	0.10	0.12	0.11	0.10	0.08
11-Feb-2015		0.17	0.12	0.10	0.12	0.11	0.16	0.12	0.10	0.10
12-Feb-2015		0.11	0.12	0.11	0.10	0.10	0.11	0.12	0.15	0.11
13-Feb-2015		0.12	0.13	0.11	0.11	0.11	0.13	0.12	0.12	0.10
14-Feb-2015		0.14	0.13	0.12	0.12	0.10	0.14	0.11	0.13	0.14
15-Feb-2015		Sunday								
16-Feb-2015		0.11	0.11	0.15	0.13	0.10	0.15	0.11	0.11	0.09
17-Feb-2015		0.11	0.12	0.10	0.13	0.10	0.11	0.10	0.09	0.08
18-Feb-2015		Site Close								
19-Feb-2015		Public Holiday								
20-Feb-2015		Public Holiday								
21-Feb-2015		Public Holiday								
22-Feb-2015		Sunday								
23-Feb-2015		Site Close								
24-Feb-2015		Site Close								
25-Feb-2015		0.13	0.12	0.11	0.12	0.10	0.12	0.10	0.09	0.07
26-Feb-2015		0.11	0.11	0.13	0.11	0.10	0.15	0.11	0.10	0.08
27-Feb-2015		0.12	0.10	0.10	0.10	0.09	0.11	0.10	0.08	0.08
28-Feb-2015		0.13	0.10	0.09	0.12	0.11	0.13	0.10	0.10	0.10

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Mar-2015 to 31-Mar-2015

POINT		VM8-1	VM11-1#	VM11-2	VM12-1#	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3 #
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
1-Mar-2015		Sunday								
2-Mar-2015		0.10	0.12	0.11	0.11	0.08	0.15	0.11	0.10	0.08
3-Mar-2015		0.14	0.11	0.09	0.11	0.10	0.11	0.11	0.09	0.07
4-Mar-2015		0.13	0.10	0.12	0.13	0.11	0.16	0.11	0.15	0.11
5-Mar-2015		0.10	0.14	0.10	0.11	0.10	0.13	0.11	0.11	0.10
6-Mar-2015		0.12	0.11	0.11	0.10	0.10	0.11	0.10	0.08	0.09
7-Mar-2015		0.11	0.10	0.09	0.10	0.09	0.13	0.10	0.10	0.08
8-Mar-2015		Sunday								
9-Mar-2015		0.17	0.11	0.10	0.11	0.10	0.12	0.11	0.09	0.07
10-Mar-2015		0.11	0.10	0.11	0.12	0.10	0.11	0.11	0.09	0.10
11-Mar-2015		0.13	0.11	0.11	0.11	0.09	0.12	0.10	0.12	0.08
12-Mar-2015		0.11	0.10	0.09	0.15	0.09	0.11	0.10	0.10	0.08
13-Mar-2015		0.14	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.08
14-Mar-2015		0.11	0.10	0.09	0.10	0.08	0.14	0.12	0.09	0.10
15-Mar-2015		Sunday								
16-Mar-2015		0.11	0.09	0.10	0.12	0.11	0.12	0.10	0.13	0.13
17-Mar-2015		0.13	0.10	0.09	0.13	0.10	0.15	0.11	0.12	0.11
18-Mar-2015		0.11	0.11	0.10	0.10	0.10	0.11	0.11	0.15	0.10
19-Mar-2015		0.10	0.11	0.08	0.10	0.08	0.10	0.10	0.12	0.09
20-Mar-2015		0.12	0.11	0.09	0.12	0.10	0.10	0.11	0.11	0.10
21-Mar-2015		0.11	0.12	0.10	0.10	0.08	0.11	0.10	0.10	0.08
22-Mar-2015		Sunday								
23-Mar-2015		0.10	0.15	0.11	0.11	0.09	0.11	0.10	0.11	0.09
24-Mar-2015		0.16	0.12	0.11	0.12	0.16	0.11	0.14	0.10	0.08
25-Mar-2015		0.10	0.11	0.13	0.15	0.08	0.10	0.10	0.09	0.07
26-Mar-2015		0.11	0.11	0.09	0.10	0.08	0.15	0.10	0.09	0.08
27-Mar-2015		0.13	0.10	0.11	0.10	0.08	0.13	0.11	0.11	0.10
28-Mar-2015		0.10	0.10	0.08	0.11	0.10	0.12	0.10	0.10	0.07
29-Mar-2015		Sunday								
30-Mar-2015		0.15	0.12	0.11	0.12	0.10	0.16	0.11	0.08	0.09
31-Mar-2015		0.11	0.10	0.09	0.11	0.07	0.12	0.11	0.10	0.08

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Apr-2015 to 30-Apr-2015

POINT		VM8-1	VM11-1#	VM11-2	VM12-1#	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3 #
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (Initial)		0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
1-Apr-2015		0.11	0.12	0.10	0.12	0.08	0.11	0.10	0.10	0.09
2-Apr-2015		0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.09	0.07
3-Apr-2015		Public Holiday								
4-Apr-2015		Public Holiday								
5-Apr-2015		Sunday								
6-Apr-2015		Public Holiday								
7-Apr-2015		Public Holiday								
8-Apr-2015		0.13	0.11	0.10	0.11	0.08	0.12	0.11	0.10	0.10
9-Apr-2015		0.12	0.11	0.10	0.11	0.09	0.10	0.11	0.12	0.11
10-Apr-2015		0.10	0.10	0.09	0.11	0.08	0.10	0.12	0.12	0.11
11-Apr-2015		0.13	0.11	0.08	0.10	0.09	0.10	0.12	0.11	0.11
12-Apr-2015		Sunday								
13-Apr-2015		0.12	0.11	0.10	0.11	0.11	0.11	0.12	0.11	0.11
14-Apr-2015		0.11	0.10	0.11	0.13	0.10	0.11	0.16	0.11	0.10
15-Apr-2015		0.11	0.12	0.10	0.11	0.10	0.16	0.10	0.10	0.11
16-Apr-2015		0.17	0.11	0.09	0.11	0.10	0.12	0.11	0.11	0.10
17-Apr-2015		0.10	0.11	0.10	0.11	0.08	0.10	0.11	0.10	0.09
18-Apr-2015		0.11	0.10	0.09	0.11	0.08	0.13	0.10	0.11	0.09
19-Apr-2015		Sunday								
20-Apr-2015		0.10	0.14	0.10	0.11	0.10	0.12	0.10	0.11	0.10
21-Apr-2015		0.10	0.11	0.10	0.10	0.11	0.15	0.11	0.12	0.10
22-Apr-2015		0.12	0.10	0.10	0.10	0.09	0.10	0.10	0.10	0.09
23-Apr-2015		0.12	0.10	0.11	0.11	0.08	0.14	0.11	0.10	0.10
24-Apr-2015		0.14	0.10	0.09	0.12	0.10	0.11	0.11	0.11	0.10
25-Apr-2015		0.10	0.11	0.10	0.13	0.08	0.10	0.11	0.10	0.10
26-Apr-2015		Sunday								
27-Apr-2015		0.10	0.11	0.08	0.11	0.10	0.11	0.12	0.10	0.07
28-Apr-2015		0.11	0.10	0.09	0.10	0.08	0.12	0.11	0.10	0.09
29-Apr-2015		0.14	0.10	0.10	0.11	0.10	0.10	0.10	0.12	0.10
30-Apr-2015		0.11	0.11	0.11	0.10	0.09	0.11	0.10	0.10	0.10

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-May-2015 to 31-May-2015

POINT		VM8-1	VM11-1#	VM11-2	VM12-1#	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3 #
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (Initial)		0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
1-May-2015		Public Holiday								
2-May-2015		0.14	0.11	0.08	0.10	0.08	0.10	0.10	0.10	0.08
3-May-2015		Sunday								
4-May-2015		0.10	0.10	0.09	0.11	0.08	0.11	0.10	0.11	0.09
5-May-2015		0.10	0.11	0.10	0.10	0.08	0.10	0.12	0.12	0.10
6-May-2015		0.11	0.12	0.10	0.10	0.10	0.10	0.10	0.12	0.10
7-May-2015		0.10	0.11	0.10	0.11	0.10	0.10	0.12	0.11	0.09
8-May-2015		0.10	0.11	0.10	0.10	0.08	0.13	0.10	0.11	0.10
9-May-2015		0.17	0.11	0.09	0.11	0.10	0.11	0.11	0.13	0.10
10-May-2015		Sunday								
11-May-2015		0.11	0.11	0.09	0.11	0.09	0.10	0.11	0.12	0.11
12-May-2015		0.16	0.12	0.11	0.10	0.10	0.13	0.10	0.11	0.10
13-May-2015		0.11	0.11	0.10	0.11	0.10	0.16	0.11	0.12	0.12
14-May-2015		0.11	0.13	0.11	0.10	0.08	0.17	0.11	0.14	0.11
15-May-2015		0.10	0.10	0.11	0.10	0.09	0.13	0.10	0.10	0.10
16-May-2015		0.11	0.11	0.10	0.11	0.10	0.13	0.10	0.12	0.11
17-May-2015		Sunday								
18-May-2015		0.13	0.10	0.11	0.11	0.11	0.16	0.11	0.15	0.11
19-May-2015		0.12	0.11	0.11	0.10	0.10	0.12	0.11	0.10	0.11
20-May-2015		0.11	0.10	0.10	0.11	0.10	0.15	0.12	0.10	0.11
21-May-2015		0.13	0.10	0.12	0.13	0.11	0.16	0.11	0.15	0.11
22-May-2015		0.11	0.10	0.09	0.11	0.07	0.14	0.11	0.10	0.10
23-May-2015		0.11	0.10	0.12	0.11	0.09	0.12	0.11	0.13	0.11
24-May-2015		Sunday								
25-May-2015		Public Holiday								
26-May-2015		0.11	0.10	0.12	0.10	0.09	0.14	0.12	0.12	0.11
27-May-2015		0.10	0.10	0.11	0.10	0.10	0.12	0.12	0.11	0.11
28-May-2015		0.14	0.11	0.11	0.10	0.09	0.10	0.12	0.10	0.10
29-May-2015		0.12	0.10	0.11	0.11	0.10	0.12	0.10	0.12	0.10
30-May-2015		0.13	0.10	0.11	0.12	0.10	0.11	0.11	0.11	0.11
31-May-2015		Sunday								

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jun-2015 to 30-Jun-2015

POINT		VM8-1	VM11-1#	VM11-2	VM12-1#	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3 #
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (Initial)		0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
1-Jun-2015		0.10	0.14	0.10	0.11	0.10	0.13	0.11	0.12	0.10
2-Jun-2015		0.10	0.11	0.12	0.10	0.09	0.12	0.11	0.11	0.10
3-Jun-2015		0.11	0.11	0.11	0.11	0.08	0.15	0.11	0.10	0.10
4-Jun-2015		0.10	0.10	0.10	0.11	0.10	0.13	0.11	0.11	0.11
5-Jun-2015		0.10	0.11	0.11	0.11	0.10	0.12	0.10	0.11	0.10
6-Jun-2015		0.11	0.11	0.13	0.09	0.08	0.10	0.11	0.11	0.10
7-Jun-2015		Sunday								
8-Jun-2015		0.12	0.11	0.09	0.11	0.10	0.10	0.10	0.12	0.10
9-Jun-2015		0.10	0.10	0.11	0.10	0.11	0.13	0.11	0.10	0.10
10-Jun-2015		0.10	0.12	0.10	0.11	0.10	0.11	0.10	0.10	0.10
11-Jun-2015		0.11	0.12	0.11	0.10	0.11	0.12	0.11	0.10	0.10
12-Jun-2015		0.10	0.11	0.10	0.11	0.09	0.10	0.10	0.10	0.10
13-Jun-2015		0.10	0.12	0.11	0.11	0.08	0.10	0.10	0.10	0.09
14-Jun-2015		Sunday								
15-Jun-2015		0.10	0.11	0.11	0.11	0.10	0.10	0.11	0.10	0.10
16-Jun-2015		0.10	0.10	0.11	0.11	0.10	0.11	0.10	0.11	0.11
17-Jun-2015		0.10	0.11	0.11	0.11	0.11	0.13	0.10	0.11	0.10
18-Jun-2015		0.10	0.13	0.10	0.10	0.09	0.11	0.10	0.10	0.10
19-Jun-2015		0.10	0.10	0.11	0.10	0.09	0.12	0.10	0.11	0.10
20-Jun-2015		Public Holiday								
21-Jun-2015		Sunday								
22-Jun-2015		0.10	0.11	0.11	0.10	0.10	0.11	0.10	0.10	0.09
23-Jun-2015		0.10	0.10	0.11	0.10	0.09	0.10	0.11	0.10	0.09
24-Jun-2015		0.10	0.11	0.10	0.11	0.09	0.11	0.10	0.10	0.10
25-Jun-2015		0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.10
26-Jun-2015		0.11	0.10	0.11	0.11	0.09	0.11	0.10	0.11	0.10
27-Jun-2015		0.11	0.10	0.09	0.11	0.10	0.11	0.10	0.10	0.08
28-Jun-2015		Sunday								
29-Jun-2015		0.10	0.10	0.11	0.11	0.09	0.11	0.10	0.11	0.10
30-Jun-2015		0.10	0.10	0.10	0.12	0.10	0.10	0.11	0.11	0.10

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jul-2015 to 31-Jul-2015

POINT		VM8-1	VM11-1#	VM11-2	VM12-1#	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3 #
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
1-Jul-2015		Public Holiday								
2-Jul-2015		0.10	0.11	0.10	0.10	0.09	0.11	0.11	0.10	0.10
3-Jul-2015		0.10	0.10	0.11	0.11	0.10	0.11	0.10	0.10	0.09
4-Jul-2015		0.10	0.10	0.11	0.11	0.10	0.11	0.10	0.11	0.10
5-Jul-2015		Sunday								
6-Jul-2015		0.09	0.10	0.11	0.10	0.09	0.12	0.10	0.10	0.09
7-Jul-2015		0.11	0.10	0.11	0.10	0.09	0.11	0.10	0.10	0.10
8-Jul-2015		0.10	0.11	0.10	0.11	0.10	0.11	0.11	0.10	0.08
9-Jul-2015		0.10	0.11	0.10	0.11	0.10	0.11	0.11	0.10	0.09
10-Jul-2015		0.10	0.11	0.11	0.11	0.09	0.11	0.10	0.11	0.10
11-Jul-2015		0.09	0.11	0.11	0.12	0.10	0.11	0.10	0.10	0.08
12-Jul-2015		Sunday								
13-Jul-2015		0.11	0.11	0.11	0.10	0.11	0.12	0.11	0.10	0.10
14-Jul-2015		0.11	0.11	0.10	0.10	0.08	0.10	0.11	0.10	0.10
15-Jul-2015		0.11	0.11	0.10	0.11	0.10	0.11	0.11	0.09	0.07
16-Jul-2015		0.10	0.11	0.10	0.11	0.10	0.11	0.11	0.10	0.10
17-Jul-2015		0.10	0.10	0.11	0.10	0.10	0.12	0.11	0.11	0.12
18-Jul-2015		0.11	0.11	0.10	0.11	0.09	0.11	0.11	0.10	0.10
19-Jul-2015		Sunday								
20-Jul-2015		0.12	0.10	0.10	0.11	0.09	0.11	0.10	0.10	0.09
21-Jul-2015		0.11	0.11	0.10	0.10	0.09	0.11	0.10	0.11	0.10
22-Jul-2015		0.10	0.11	0.11	0.10	0.10	0.10	0.11	0.10	0.09
23-Jul-2015		0.11	0.10	0.11	0.11	0.10	0.11	0.11	0.10	0.09
24-Jul-2015		0.10	0.11	0.10	0.10	0.09	0.11	0.10	0.10	0.10
25-Jul-2015		0.10	0.11	0.10	0.10	0.08	0.11	0.10	0.10	0.09
26-Jul-2015		Sunday								
27-Jul-2015		0.10	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.09
28-Jul-2015		0.09	0.10	0.11	0.10	0.09	0.10	0.11	0.10	0.10
29-Jul-2015		0.10	0.13	0.12	0.12	0.10	0.14	0.11	0.10	0.10
30-Jul-2015		0.10	0.11	0.11	0.10	0.10	0.11	0.10	0.11	0.09
31-Jul-2015		0.11	0.10	0.10	0.11	0.09	0.10	0.11	0.10	0.10

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Aug-2015 to 31-Aug-2015

POINT		VM8-1	VM11-1#	VM11-2	VM12-1#	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3 #
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
1-Aug-2015		0.10	0.11	0.11	0.10	0.08	0.11	0.11	0.11	0.11
2-Aug-2015		Sunday								
3-Aug-2015		0.10	0.11	0.10	0.10	0.09	0.11	0.10	0.11	0.10
4-Aug-2015		0.11	0.10	0.11	0.11	0.10	0.10	0.11	0.10	0.10
5-Aug-2015		0.11	0.11	0.11	0.10	0.10	0.11	0.10	0.11	0.10
6-Aug-2015		0.11	0.10	0.10	0.10	0.09	0.11	0.10	0.10	0.08
7-Aug-2015		0.10	0.10	0.11	0.10	0.10	0.10	0.10	0.10	0.10
8-Aug-2015		0.12	0.10	0.11	0.11	0.09	0.11	0.10	0.09	0.09
9-Aug-2015		Sunday								
10-Aug-2015		0.10	0.10	0.11	0.11	0.10	0.10	0.10	0.10	0.08
11-Aug-2015		0.10	0.10	0.11	0.10	0.10	0.10	0.11	0.10	0.10
12-Aug-2015		0.08	0.11	0.11	0.10	0.10	0.11	0.10	0.09	0.08
13-Aug-2015		0.10	0.10	0.11	0.11	0.11	0.11	0.10	0.10	0.08
14-Aug-2015		0.10	0.11	0.10	0.11	0.11	0.10	0.11	0.09	0.09
15-Aug-2015		0.09	0.10	0.11	0.10	0.10	0.11	0.11	0.09	0.08
16-Aug-2015		Sunday								
17-Aug-2015		0.11	0.11	0.10	0.11	0.11	0.10	0.10	0.10	0.07
18-Aug-2015		0.10	0.11	0.10	0.10	0.11	0.11	0.09	0.09	0.08
19-Aug-2015		0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.10	0.07
20-Aug-2015		0.10	0.10	0.11	0.10	0.11	0.10	0.10	0.09	0.07
21-Aug-2015		0.10	0.10	0.10	0.11	0.11	0.10	0.10	0.11	0.07
22-Aug-2015		0.10	0.11	0.11	0.10	0.11	0.11	0.11	0.10	0.08
23-Aug-2015		Sunday								
24-Aug-2015		0.10	0.10	0.10	0.10	0.10	0.11	0.10	0.10	0.10
25-Aug-2015		0.10	0.11	0.10	0.11	0.10	0.11	0.09	0.10	0.08
26-Aug-2015		0.10	0.11	0.10	0.10	0.10	0.10	0.11	0.11	0.08
27-Aug-2015		0.10	0.11	0.11	0.10	0.10	0.11	0.10	0.11	0.10
28-Aug-2015		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
29-Aug-2015		0.10	0.10	0.10	0.10	0.11	0.10	0.11	0.11	0.11
30-Aug-2015		Sunday								
31-Aug-2015		0.11	0.10	0.11	0.11	0.10	0.11	0.11	0.09	0.08

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Sep-2015 to 30-Sep-2015

POINT		VM8-1	VM11-1#	VM11-2	VM12-1#	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3 #
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (Initial)		0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
1-Sep-2015		0.11	0.11	0.10	0.10	0.10	0.11	0.09	0.10	0.08
2-Sep-2015		0.11	0.11	0.11	0.10	0.11	0.11	0.10	0.11	0.11
3-Sep-2015		Holiday								
4-Sep-2015		0.10	0.10	0.12	0.11	0.10	0.11	0.12	0.11	0.11
5-Sep-2015		0.12	0.10	0.11	0.10	0.10	0.10	0.11	0.10	0.10
6-Sep-2015		Sunday								
7-Sep-2015		0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.10
8-Sep-2015		0.10	0.10	0.11	0.10	0.10	0.10	0.11	0.10	0.09
9-Sep-2015		0.10	0.11	0.12	0.10	0.11	0.11	0.11	0.11	0.10
10-Sep-2015		0.11	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.10
11-Sep-2015		0.10	0.11	0.10	0.11	0.11	0.10	0.10	0.10	0.11
12-Sep-2015		0.11	0.11	0.10	0.10	0.10	0.10	0.11	0.10	0.10
13-Sep-2015		Sunday								
14-Sep-2015		0.10	0.10	0.11	0.10	0.10	0.11	0.10	0.11	0.11
15-Sep-2015		0.10	0.11	0.10	0.10	0.11	0.11	0.11	0.10	0.11
16-Sep-2015		0.11	0.10	0.11	0.11	0.10	0.11	0.11	0.10	0.11
17-Sep-2015		0.11	0.10	0.11	0.10	0.10	0.12	0.10	0.11	0.10
18-Sep-2015		0.10	0.11	0.10	0.11	0.11	0.10	0.11	0.10	0.11
19-Sep-2015		0.10	0.11	0.11	0.10	0.11	0.10	0.12	0.10	0.11
20-Sep-2015		Sunday								
21-Sep-2015		0.10	0.10	0.11	0.10	0.10	0.12	0.11	0.11	0.10
22-Sep-2015		0.09	0.11	0.11	0.10	0.09	0.10	0.11	0.11	0.10
23-Sep-2015		0.10	0.11	0.11	0.11	0.08	0.10	0.11	0.11	0.11
24-Sep-2015		0.10	0.10	0.12	0.10	0.10	0.14	0.10	0.11	0.10
25-Sep-2015		0.10	0.10	0.11	0.10	0.10	0.14	0.11	0.11	0.11
26-Sep-2015		0.10	0.10	0.11	0.10	0.10	0.16	0.10	0.11	0.10
27-Sep-2015		Sunday								
28-Sep-2015		Holiday								
29-Sep-2015		0.10	0.10	0.11	0.10	0.08	0.11	0.10	0.12	0.11
30-Sep-2015		0.10	0.11	0.11	0.10	0.11	0.10	0.11	0.12	0.11

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



No.	Description	Date	Approved
A	BO SUBMISSION (50)	12/11	JS
B	BO SUBMISSION (01)	03/12	JS
C	BO SUBMISSION (17)	03/12	JS
D	BO SUBMISSION REV BATCH 1	03/12	JS
E	FOR INFORMATION (50)	03/12	JS
F	BO SUBMISSION (51)	05/12	JS

Note: This plan has been prepared on a standard block basis under the standard processing system as permitted by the P&AP A/M/18. The dates of the individual design, technical proposal and/or approved technical proposal concerned as identified under section 4(7)(b) and the presence of such signature of the Building Ordinance are of particular relevance in this regard.

Plan Approved
 NG Kin-ning
 Chief Structural Engineer
 for BUILDING AUTHORITY
 13 JUL 2012



BD SUBMISSION

Drawing Status 製圖狀況
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 - Read this drawing in conjunction with the specifications and all other related drawings.
 - Notify the relevant consultants immediately of any discrepancy found herein.

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

Client 業主: 寶馬會文娛有限公司 The Jockey Club CFS Limited

Design Consultant: HERZOG & DEMEUREON

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

Executive Architect / AP: ARUP

Structural Engineer / RSE: E & M Engineer

Project 項目: CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT

Drawing Title 圖名: MONITORING LAYOUT PLAN

Scale 比例: 1:3000A1
 Drawn 繪圖: K.C.L.S.
 Checked 校核: AL
 Drawing No. 圖號: 00-OAP209674-G-001
 Revision 修訂: E

Signature: [Handwritten Signature]

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



恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Nov-2014 to 30-Nov-2014

POINT		VM14-4	VM15-2	VM51-1						
DATE	PD/(m)	mm/s	mm/s	mm/s						
03-Dec-2012 (Initial)		0.14	0.21	0.3						
1-Nov-2014		0.31	0.18	0.16						
2-Nov-2014		Sunday								
3-Nov-2014		0.15	0.11	0.13						
4-Nov-2014		0.17	0.14	0.20						
5-Nov-2014		0.30	0.16	0.16						
6-Nov-2014		0.25	0.12	0.18						
7-Nov-2014		0.20	0.11	0.16						
8-Nov-2014		0.16	0.18	0.33						
9-Nov-2014		Sunday								
10-Nov-2014		0.20	0.13	0.19						
11-Nov-2014		0.16	0.14	0.17						
12-Nov-2014		0.14	0.21	0.19						
13-Nov-2014		0.13	0.20	0.17						
14-Nov-2014		0.14	0.19	0.14						
15-Nov-2014		0.19	0.15	0.20						
16-Nov-2014		Sunday								
17-Nov-2014		0.17	0.16	0.17						
18-Nov-2014		0.20	0.15	0.15						
19-Nov-2014		0.17	0.19	0.17						
20-Nov-2014		0.20	0.13	0.18						
21-Nov-2014		0.19	0.16	0.20						
22-Nov-2014		0.20	0.15	0.15						
23-Nov-2014		Sunday								
24-Nov-2014		0.24	0.18	0.16						
25-Nov-2014		0.15	0.21	0.17						
26-Nov-2014		0.15	0.15	0.19						
27-Nov-2014		0.13	0.19	0.11						
28-Nov-2014		0.16	0.14	0.17						
29-Nov-2014		0.13	0.14	0.13						
30-Nov-2014		Sunday								

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



恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Dec-2014 to 31-Dec-2014

POINT		VM14-4	VM15-2	VM51-1					
DATE	PD/(m)	mm/s	mm/s	mm/s					
03-Dec-2012	(Initial)	0.140	0.210	0.300					
1-Dec-2014		0.161	0.133	0.125					
2-Dec-2014		0.139	0.121	0.165					
3-Dec-2014		0.116	0.166	0.147					
4-Dec-2014		0.131	0.15	0.311					
5-Dec-2014		0.157	0.204	0.135					
6-Dec-2014		0.112	0.135	0.172					
7-Dec-2014	Sunday								
8-Dec-2014		0.137	0.103	0.149					
9-Dec-2014		0.119	0.138	0.125					
10-Dec-2014		0.125	0.162	0.173					
11-Dec-2014		0.125	0.153	0.114					
12-Dec-2014		0.167	0.155	0.132					
13-Dec-2014		0.115	0.193	0.121					
14-Dec-2014	Sunday								
15-Dec-2014		0.141	0.15	0.143					
16-Dec-2014		0.125	0.114	0.129					
17-Dec-2014		0.121	0.134	0.111					
18-Dec-2014		0.155	0.193	0.166					
19-Dec-2014		0.139	0.174	0.129					
20-Dec-2014		0.113	0.127	0.182					
21-Dec-2014	Sunday								
22-Dec-2014		0.147	0.163	0.175					
23-Dec-2014		0.123	0.128	0.124					
24-Dec-2014		0.162	0.138	0.134					
25-Dec-2014	Holiday								
26-Dec-2014	Holiday								
27-Dec-2014		0.116	0.165	0.162					
28-Dec-2014	Sunday								
29-Dec-2014		0.131	0.12	0.114					
30-Dec-2014		0.165	0.112	0.166					
31-Dec-2014		0.12	0.135	0.117					

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



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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jan-2015 to 31-Jan-2015

POINT		VM14-4	VM15-2	VM51-1						
DATE	PD/(m)	mm/s	mm/s	mm/s						
03-Dec-2012 (Initial)		0.14	0.21	0.3						
1-Jan-2015					Public Holiday					
2-Jan-2015		0.15	0.11	0.12						
3-Jan-2015		0.12	0.17	0.15						
4-Jan-2015					Sunday					
5-Jan-2015		0.13	0.19	0.17						
6-Jan-2015		0.17	0.14	0.14						
7-Jan-2015		0.11	0.17	0.15						
8-Jan-2015		0.16	0.16	0.15						
9-Jan-2015		0.12	0.14	0.13						
10-Jan-2015		0.15	0.14	0.12						
11-Jan-2015					Sunday					
12-Jan-2015		0.13	0.13	0.12						
13-Jan-2015		0.11	0.16	0.14						
14-Jan-2015		0.12	0.13	0.17						
15-Jan-2015		0.18	0.17	0.13						
16-Jan-2015		0.16	0.12	0.11						
17-Jan-2015		0.15	0.12	0.14						
18-Jan-2015					Sunday					
19-Jan-2015		0.13	0.14	0.14						
20-Jan-2015		0.13	0.17	0.16						
21-Jan-2015		0.15	0.12	0.11						
22-Jan-2015		0.12	0.15	0.15						
23-Jan-2015		0.13	0.13	0.14						
24-Jan-2015		0.13	0.17	0.18						
25-Jan-2015					Sunday					
26-Jan-2015		0.14	0.13	0.15						
27-Jan-2015		0.14	0.12	0.12						
28-Jan-2015		0.11	0.15	0.12						
29-Jan-2015		0.13	0.13	0.13						
30-Jan-2015		0.12	0.11	0.19						
31-Jan-2015		0.11	0.11	0.15						

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



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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Feb-2015 to 28-Feb-2015

POINT		VM14-4	VM15-2	VM51-1					
DATE	PD/(m)	mm/s	mm/s	mm/s					
03-Dec-2012	(Initial)	0.14	0.21	0.3					
1-Feb-2015					Sunday				
2-Feb-2015		0.10	0.12	0.11					
3-Feb-2015		0.11	0.11	0.14					
4-Feb-2015		0.11	0.12	0.13					
5-Feb-2015		0.11	0.11	0.12					
6-Feb-2015		0.10	0.12	0.11					
7-Feb-2015		0.11	0.13	0.16					
8-Feb-2015					Sunday				
9-Feb-2015		0.12	0.13	0.13					
10-Feb-2015		0.10	0.11	0.11					
11-Feb-2015		0.11	0.11	0.17					
12-Feb-2015		0.11	0.13	0.15					
13-Feb-2015		0.11	0.11	0.15					
14-Feb-2015		0.10	0.12	0.10					
15-Feb-2015					Sunday				
16-Feb-2015		0.11	0.11	0.11					
17-Feb-2015		0.10	0.11	0.15					
18-Feb-2015					Site Close				
19-Feb-2015					Public Holiday				
20-Feb-2015					Public Holiday				
21-Feb-2015					Public Holiday				
22-Feb-2015					Sunday				
23-Feb-2015					Site Close				
24-Feb-2015					Site Close				
25-Feb-2015		0.09	0.12	0.12					
26-Feb-2015		0.11	0.14	0.13					
27-Feb-2015		0.10	0.11	0.11					
28-Feb-2015		0.11	0.12	0.16					

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



恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Mar-2015 to 31-Mar-2015

POINT		VM14-4	VM15-2	VM51-1						
DATE	PD(m)	mm/s	mm/s	mm/s						
03-Dec-2012 (Initial)		0.14	0.21	0.3						
1-Mar-2015					Sunday					
2-Mar-2015		0.11	0.11	0.13						
3-Mar-2015		0.11	0.12	0.17						
4-Mar-2015		0.10	0.12	0.13						
5-Mar-2015		0.10	0.11	0.12						
6-Mar-2015		0.10	0.11	0.13						
7-Mar-2015		0.11	0.11	0.19						
8-Mar-2015					Sunday					
9-Mar-2015		0.11	0.12	0.11						
10-Mar-2015		0.10	0.11	0.15						
11-Mar-2015		0.09	0.11	0.11						
12-Mar-2015		0.10	0.13	0.11						
13-Mar-2015		0.10	0.12	0.12						
14-Mar-2015		0.10	0.11	0.16						
15-Mar-2015					Sunday					
16-Mar-2015		0.11	0.13	0.14						
17-Mar-2015		0.10	0.12	0.14						
18-Mar-2015		0.11	0.12	0.11						
19-Mar-2015		0.10	0.14	0.11						
20-Mar-2015		0.11	0.12	0.10						
21-Mar-2015		0.11	0.11	0.11						
22-Mar-2015					Sunday					
23-Mar-2015		0.11	0.13	0.16						
24-Mar-2015		0.10	0.11	0.11						
25-Mar-2015		0.11	0.11	0.13						
26-Mar-2015		0.10	0.12	0.11						
27-Mar-2015		0.10	0.12	0.11						
28-Mar-2015		0.12	0.11	0.14						
29-Mar-2015					Sunday					
30-Mar-2015		0.10	0.11	0.14						
31-Mar-2015		0.11	0.17	0.11						

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



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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Apr-2015 to 30-Apr-2015

POINT		VM14-4	VM15-2	VM51-1						
DATE	PD/(m)	mm/s	mm/s	mm/s						
03-Dec-2012	(Initial)	0.14	0.21	0.3						
1-Apr-2015		0.11	0.12	0.12						
2-Apr-2015		0.10	0.11	0.17						
3-Apr-2015		Public Holiday								
4-Apr-2015		Public Holiday								
5-Apr-2015		Sunday								
6-Apr-2015		Public Holiday								
7-Apr-2015		Public Holiday								
8-Apr-2015		0.10	0.11	0.10						
9-Apr-2015		0.11	0.12	0.11						
10-Apr-2015		0.11	0.11	0.12						
11-Apr-2015		0.10	0.12	0.11						
12-Apr-2015		Sunday								
13-Apr-2015		0.11	0.12	0.11						
14-Apr-2015		0.10	0.13	0.11						
15-Apr-2015		0.10	0.11	0.12						
16-Apr-2015		0.11	0.12	0.11						
17-Apr-2015		0.10	0.11	0.11						
18-Apr-2015		0.12	0.15	0.11						
19-Apr-2015		Sunday								
20-Apr-2015		0.10	0.11	0.10						
21-Apr-2015		0.09	0.10	0.12						
22-Apr-2015		0.11	0.12	0.10						
23-Apr-2015		0.10	0.11	0.11						
24-Apr-2015		0.10	0.11	0.11						
25-Apr-2015		0.10	0.11	0.11						
26-Apr-2015		Sunday								
27-Apr-2015		0.10	0.12	0.10						
28-Apr-2015		0.11	0.11	0.11						
29-Apr-2015		0.10	0.11	0.11						
30-Apr-2015		0.11	0.11	0.10						

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



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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-May-2015 to 31-May-2015

POINT		VM14-4	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-2015					Public Holiday				
2-May-2015		0.10	0.12	0.11					
3-May-2015					Sunday				
4-May-2015		0.11	0.11	0.11					
5-May-2015		0.10	0.11	0.11					
6-May-2015		0.11	0.11	0.11					
7-May-2015		0.10	0.11	0.11					
8-May-2015		0.10	0.11	0.11					
9-May-2015		0.11	0.10	0.11					
10-May-2015					Sunday				
11-May-2015		0.10	0.11	0.11					
12-May-2015		0.10	0.12	0.11					
13-May-2015		0.11	0.12	0.11					
14-May-2015		0.11	0.13	0.10					
15-May-2015		0.11	0.12	0.11					
16-May-2015		0.11	0.12	0.11					
17-May-2015					Sunday				
18-May-2015		0.11	0.11	0.11					
19-May-2015		0.10	0.11	0.11					
20-May-2015		0.10	0.12	0.10					
21-May-2015		0.11	0.11	0.11					
22-May-2015		0.12	0.11	0.14					
23-May-2015		0.10	0.11	0.11					
24-May-2015					Sunday				
25-May-2015					Public Holiday				
26-May-2015		0.11	0.13	0.11					
27-May-2015		0.11	0.11	0.11					
28-May-2015		0.10	0.11	0.14					
29-May-2015		0.10	0.12	0.12					
30-May-2015		0.11	0.11	0.11					
31-May-2015					Sunday				

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



恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jun-2015 to 30-Jun-2015

POINT		VM14-4	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-2015		0.11	0.11	0.15						
2-Jun-2015		0.11	0.11	0.12						
3-Jun-2015		0.11	0.12	0.10						
4-Jun-2015		0.10	0.11	0.11						
5-Jun-2015		0.11	0.10	0.10						
6-Jun-2015		0.11	0.13	0.11						
7-Jun-2015	Sunday									
8-Jun-2015		0.10	0.10	0.11						
9-Jun-2015		0.11	0.11	0.12						
10-Jun-2015		0.11	0.11	0.12						
11-Jun-2015		0.10	0.12	0.12						
12-Jun-2015		0.11	0.11	0.11						
13-Jun-2015		0.11	0.11	0.11						
14-Jun-2015	Sunday									
15-Jun-2015		0.11	0.11	0.12						
16-Jun-2015		0.10	0.11	0.11						
17-Jun-2015		0.10	0.11	0.11						
18-Jun-2015		0.11	0.12	0.11						
19-Jun-2015		0.10	0.11	0.11						
20-Jun-2015	Public Holiday									
21-Jun-2015	Sunday									
22-Jun-2015		0.11	0.10	0.11						
23-Jun-2015		0.10	0.11	0.10						
24-Jun-2015		0.11	0.11	0.11						
25-Jun-2015		0.10	0.11	0.11						
26-Jun-2015		0.11	0.11	0.10						
27-Jun-2015		0.11	0.10	0.11						
28-Jun-2015	Sunday									
29-Jun-2015		0.10	0.12	0.11						
30-Jun-2015		0.11	0.11	0.10						

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



恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jul-2015 to 31-Jul-2015

POINT		VM14-4	VM15-2	VM51-1						
DATE	PD/(m)	mm/s	mm/s	mm/s						
03-Dec-2012 (Initial)		0.14	0.21	0.3						
1-Jul-2015		Public Holiday								
2-Jul-2015		0.11	0.11	0.11						
3-Jul-2015		0.11	0.11	0.12						
4-Jul-2015		0.10	0.11	0.11						
5-Jul-2015		Sunday								
6-Jul-2015		0.10	0.11	0.10						
7-Jul-2015		0.11	0.11	0.11						
8-Jul-2015		0.10	0.11	0.11						
9-Jul-2015		0.10	0.11	0.11						
10-Jul-2015		0.11	0.11	0.10						
11-Jul-2015		0.10	0.11	0.12						
12-Jul-2015		Sunday								
13-Jul-2015		0.11	0.11	0.10						
14-Jul-2015		0.11	0.13	0.11						
15-Jul-2015		0.10	0.11	0.11						
16-Jul-2015		0.11	0.11	0.11						
17-Jul-2015		0.11	0.11	0.11						
18-Jul-2015		0.11	0.11	0.10						
19-Jul-2015		Sunday								
20-Jul-2015		0.11	0.11	0.11						
21-Jul-2015		0.11	0.11	0.11						
22-Jul-2015		0.11	0.10	0.10						
23-Jul-2015		0.11	0.11	0.11						
24-Jul-2015		0.11	0.10	0.10						
25-Jul-2015		0.11	0.11	0.11						
26-Jul-2015		Sunday								
27-Jul-2015		0.11	0.11	0.11						
28-Jul-2015		0.10	0.11	0.10						
29-Jul-2015		0.10	0.12	0.10						
30-Jul-2015		0.10	0.11	0.11						
31-Jul-2015		0.11	0.10	0.11						

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



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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Aug-2015 to 31-Aug-2015

POINT		VM14-4	VM15-2	VM51-1						
DATE	PD(m)	mm/s	mm/s	mm/s						
03-Dec-2012	(Initial)	0.14	0.21	0.3						
1-Aug-2015		0.10	0.11	0.10						
2-Aug-2015		Sunday								
3-Aug-2015		0.10	0.11	0.11						
4-Aug-2015		0.11	0.11	0.10						
5-Aug-2015		0.11	0.10	0.11						
6-Aug-2015		0.11	0.11	0.11						
7-Aug-2015		0.11	0.11	0.10						
8-Aug-2015		0.10	0.11	0.11						
9-Aug-2015		Sunday								
10-Aug-2015		0.11	0.11	0.10						
11-Aug-2015		0.11	0.11	0.12						
12-Aug-2015		0.10	0.10	0.10						
13-Aug-2015		0.10	0.11	0.11						
14-Aug-2015		0.10	0.11	0.10						
15-Aug-2015		0.11	0.10	0.11						
16-Aug-2015		Sunday								
17-Aug-2015		0.11	0.11	0.10						
18-Aug-2015		0.11	0.10	0.11						
19-Aug-2015		0.10	0.11	0.10						
20-Aug-2015		0.11	0.11	0.11						
21-Aug-2015		0.11	0.10	0.11						
22-Aug-2015		0.11	0.11	0.10						
23-Aug-2015		Sunday								
24-Aug-2015		0.10	0.10	0.11						
25-Aug-2015		0.11	0.11	0.10						
26-Aug-2015		0.11	0.10	0.11						
27-Aug-2015		0.10	0.11	0.10						
28-Aug-2015		0.10	0.10	0.11						
29-Aug-2015		0.11	0.10	0.12						
30-Aug-2015		Sunday								
31-Aug-2015		0.11	0.11	0.10						

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



恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Sep-2015 to 30-Sep-2015

POINT		VM14-4	VM15-2	VM51-1						
DATE	PD/(m)	mm/s	mm/s	mm/s						
03-Dec-2012 (Initial)		0.14	0.21	0.3						
1-Sep-2015		0.107	0.109	0.105						
2-Sep-2015		0.103	0.102	0.107						
3-Sep-2015		Holiday								
4-Sep-2015		0.109	0.101	0.102						
5-Sep-2015		0.104	0.105	0.107						
6-Sep-2015		Sunday								
7-Sep-2015		0.103	0.107	0.104						
8-Sep-2015		0.110	0.101	0.107						
9-Sep-2015		0.105	0.105	0.109						
10-Sep-2015		0.119	0.104	0.102						
11-Sep-2015		0.102	0.107	0.107						
12-Sep-2015		0.101	0.105	0.103						
13-Sep-2015		Sunday								
14-Sep-2015		0.107	0.101	0.106						
15-Sep-2015		0.109	0.103	0.101						
16-Sep-2015		0.101	0.109	0.105						
17-Sep-2015		0.105	0.100	0.107						
18-Sep-2015		0.102	0.108	0.101						
19-Sep-2015		0.106	0.101	0.103						
20-Sep-2015		Sunday								
21-Sep-2015		0.101	0.109	0.102						
22-Sep-2015		0.109	0.102	0.104						
23-Sep-2015		0.103	0.102	0.102						
24-Sep-2015		0.105	0.105	0.100						
25-Sep-2015		0.111	0.107	0.102						
26-Sep-2015		0.106	0.101	0.107						
27-Sep-2015		Sunday								
28-Sep-2015		Holiday								
29-Sep-2015		0.105	0.106	0.102						
30-Sep-2015		0.101	0.105	0.107						

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



恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Oct-2015 to 31-Oct-2015

POINT		VM14-4	VM15-2	VM51-1						
DATE	PD/(m)	mm/s	mm/s	mm/s						
03-Dec-2012	(Initial)	0.14	0.21	0.3						
1-Oct-2015					Holiday					
2-Oct-2015		0.102	0.109	0.105						
3-Oct-2015		0.109	0.103	0.101						
4-Oct-2015					Sunday					
5-Oct-2015		0.103	0.107	0.109						
6-Oct-2015		0.105	0.110	0.102						
7-Oct-2015		0.103	0.115	0.102						
8-Oct-2015		0.112	0.107	0.105						
9-Oct-2015		0.105	0.102	0.101						
10-Oct-2015		0.103	0.105	0.101						
11-Oct-2015					Sunday					
12-Oct-2015		0.109	0.102	0.105						
13-Oct-2015		0.105	0.103	0.101						
14-Oct-2015		0.102	0.108	0.107						
15-Oct-2015		0.103	0.105	0.101						
16-Oct-2015		0.100	0.105	0.107						
17-Oct-2015		0.107	0.102	0.109						
18-Oct-2015					Sunday					
19-Oct-2015		0.102	0.108	0.110						
20-Oct-2015		0.105	0.111	0.111						
21-Oct-2015					Holiday					
22-Oct-2015		0.103	0.105	0.101						
23-Oct-2015		0.110	0.100	0.103						
24-Oct-2015		0.106	0.102	0.105						
25-Oct-2015					Sunday					
26-Oct-2015		/	/	/						
27-Oct-2015		/	/	/						
28-Oct-2015		/	/	/						
29-Oct-2015		/	/	/						
30-Oct-2015		/	/	/						
31-Oct-2015		/	/	/						

Annex L

Records of Vibration
Monitoring for Other
Construction Works

Structural Alteration and Additions at Block 14



U.O. Ref. No. 基字編號/圖號
22/2007/11 (BL, R51, 14B18) (C4) (S)
P.S.D. Ref. No. 圖則編號/圖號

No.	Description 說明	Date 日期	Approval 審批
-	BD SUBMISSION (50)	12/11	JS
A	BD SUBMISSION (01)	03/12	JS
B	BD SUBMISSION (17)	03/12	JS
C	BD SUBMISSION RW BATCH 1	03/12	JS
D	FOR INFORMATION (50)	03/12	JS
E	BD SUBMISSION (51)	05/12	JS
F	BD SUBMISSION (04)	05/12	JS
G	BD SUBMISSION (03)	05/12	JS
H	BD SUBMISSION (14)	05/12	JS

Note: This plan has been processed on a computerized system as per the standard processing system as prescribed in PWD/AR/125. The owner of the subject building, registered structural engineer and registered professional engineer consent to specified section 4(7)(a) and the provision of section 14(2)(b) of the Buildings Ordinance as of practice reference in this regard.

Plan Approved
 NG-Kin-shing
 Chief Structural Engineer
 for BUILDING AUTHORITY
 - 9 AUG 2012



BD SUBMISSION
 Drawing Status 製圖狀況

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- 請在現場核對及查核所有尺寸。
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Client 業主
 黃海豐工程師有限公司
 The Jockey Club CPD Limited

Design Consultant
HERZOG & DEMEUREN

Conservation Architect
 香港古物及古蹟辦事處

Executive Architect / AP
ROCCO

Structural Engineer / RSE
ARUP

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

Drawing Title 圖名
MONITORING LAYOUT PLAN

Scale 比例
 1:300BA1
 Drawing No. 圖號
 00-OAP209674-G-001
 Checked 校核
 K.C. Lo
 H

SWAN KIN 蘇
 Chief Structural Engineer
 REGISTERED STRUCTURAL ENGINEER
 Code No. 00-OAP209674-G-001-001

LEGEND

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Nov-2014 to 30-Nov-2014

POINT		VM14-1#	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-Nov-2014		0.14	0.14	0.17	0.31					
2-Nov-2014		Sunday								
3-Nov-2014		0.20	0.13	0.56	0.15					
4-Nov-2014		0.17	0.11	0.18	0.17					
5-Nov-2014		0.10	0.18	0.25	0.30					
6-Nov-2014		0.13	0.15	0.22	0.25					
7-Nov-2014		0.16	0.14	0.31	0.20					
8-Nov-2014		0.13	0.19	0.17	0.16					
9-Nov-2014		Sunday								
10-Nov-2014		0.19	0.13	0.14	0.20					
11-Nov-2014		0.16	0.15	0.16	0.19					
12-Nov-2014		0.15	0.12	0.16	0.14					
13-Nov-2014		0.14	0.19	0.16	0.13					
14-Nov-2014		0.14	0.20	0.18	0.14					
15-Nov-2014		0.17	0.16	0.19	0.19					
16-Nov-2014		Sunday								
17-Nov-2014		0.19	0.12	0.18	0.17					
18-Nov-2014		0.12	0.13	0.15	0.20					
19-Nov-2014		0.12	0.11	0.20	0.21					
20-Nov-2014		0.11	0.14	0.18	0.20					
21-Nov-2014		0.10	0.19	0.16	0.19					
22-Nov-2014		0.12	0.18	0.18	0.20					
23-Nov-2014		Sunday								
24-Nov-2014		0.12	0.13	0.20	0.24					
25-Nov-2014		0.20	0.12	0.13	0.15					
26-Nov-2014		0.13	0.16	0.15	0.15					
27-Nov-2014		0.12	0.19	0.16	0.13					
28-Nov-2014		0.14	0.18	0.17	0.16					
29-Nov-2014		0.17	0.12	0.17	0.13					
30-Nov-2014		Sunday								

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Dec-2014 to 31-Dec-2014

POINT		VM14-1#	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-Dec-2014		0.154	0.115	0.132	0.161					
2-Dec-2014		0.198	0.151	0.182	0.139					
3-Dec-2014		0.113	0.104	0.192	0.116					
4-Dec-2014		0.103	0.112	0.147	0.131					
5-Dec-2014		0.107	0.114	0.136	0.157					
6-Dec-2014		0.130	0.153	0.146	0.112					
7-Dec-2014	Sunday									
8-Dec-2014		0.107	0.133	0.126	0.137					
9-Dec-2014		0.129	0.105	0.134	0.119					
10-Dec-2014		0.107	0.135	0.151	0.125					
11-Dec-2014		0.104	0.122	0.125	0.125					
12-Dec-2014		0.132	0.112	0.118	0.167					
13-Dec-2014		0.113	0.104	0.182	0.115					
14-Dec-2014	Sunday									
15-Dec-2014		0.103	0.153	0.114	0.141					
16-Dec-2014		0.114	0.123	0.119	0.125					
17-Dec-2014		0.122	0.132	0.149	0.155					
18-Dec-2014		0.144	0.152	0.119	0.139					
19-Dec-2014		0.147	0.122	0.119	0.139					
20-Dec-2014		0.103	0.149	0.192	0.113					
21-Dec-2014	Sunday									
22-Dec-2014		0.123	0.125	0.171	0.147					
23-Dec-2014		0.102	0.112	0.126	0.123					
24-Dec-2014		0.119	0.127	0.131	0.162					
25-Dec-2014	Holiday									
26-Dec-2014	Holiday									
27-Dec-2014		0.102	0.121	0.116	0.116					
28-Dec-2014	Sunday									
29-Dec-2014		0.112	0.160	0.116	0.131					
30-Dec-2014		0.120	0.186	0.152	0.165					
31-Dec-2014		0.089	0.132	0.123	0.120					

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jan-2015 to 31-Jan-2015

POINT		VM14-1#	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-Jan-2015		Public Holiday								
2-Jan-2015		0.10	0.11	0.15	0.15					
3-Jan-2015		0.11	0.14	0.17	0.12					
4-Jan-2015		Sunday								
5-Jan-2015		0.10	0.13	0.13	0.13					
6-Jan-2015		0.09	0.16	0.11	0.17					
7-Jan-2015		0.12	0.16	0.13	0.11					
8-Jan-2015		0.14	0.13	0.11	0.16					
9-Jan-2015		0.12	0.11	0.13	0.12					
10-Jan-2015		0.14	0.16	0.14	0.15					
11-Jan-2015		Sunday								
12-Jan-2015		0.11	0.13	0.13	0.13					
13-Jan-2015		0.12	0.13	0.14	0.11					
14-Jan-2015		0.10	0.11	0.12	0.12					
15-Jan-2015		0.10	0.12	0.15	0.18					
16-Jan-2015		0.09	0.14	0.15	0.16					
17-Jan-2015		0.10	0.12	0.18	0.15					
18-Jan-2015		Sunday								
19-Jan-2015		0.13	0.12	0.17	0.13					
20-Jan-2015		0.10	0.15	0.20	0.13					
21-Jan-2015		0.09	0.12	0.12	0.15					
22-Jan-2015		0.11	0.14	0.16	0.12					
23-Jan-2015		0.12	0.14	0.14	0.13					
24-Jan-2015		0.09	0.12	0.15	0.14					
25-Jan-2015		Sunday								
26-Jan-2015		0.11	0.13	0.14	0.14					
27-Jan-2015		0.09	0.11	0.12	0.14					
28-Jan-2015		0.11	0.13	0.20	0.11					
29-Jan-2015		0.12	0.19	0.11	0.13					
30-Jan-2015		0.09	0.13	0.11	0.12					
31-Jan-2015		0.08	0.13	0.16	0.11					

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Feb-2015 to 28-Feb-2015

POINT		VM14-1#	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-Feb-2015		Sunday								
2-Feb-2015		0.10	0.11	0.13	0.10					
3-Feb-2015		0.12	0.12	0.13	0.11					
4-Feb-2015		0.10	0.12	0.14	0.11					
5-Feb-2015		0.13	0.11	0.12	0.12					
6-Feb-2015		0.11	0.10	0.11	0.10					
7-Feb-2015		0.11	0.12	0.13	0.11					
8-Feb-2015		Sunday								
9-Feb-2015		0.10	0.12	0.12	0.12					
10-Feb-2015		0.12	0.11	0.12	0.10					
11-Feb-2015		0.11	0.11	0.16	0.11					
12-Feb-2015		0.10	0.13	0.11	0.11					
13-Feb-2015		0.09	0.11	0.13	0.11					
14-Feb-2015		0.12	0.11	0.14	0.10					
15-Feb-2015		Sunday								
16-Feb-2015		0.10	0.12	0.15	0.11					
17-Feb-2015		0.09	0.11	0.11	0.10					
18-Feb-2015		Site Close								
19-Feb-2015		Public Holiday								
20-Feb-2015		Public Holiday								
21-Feb-2015		Public Holiday								
22-Feb-2015		Sunday								
23-Feb-2015		Site Close								
24-Feb-2015		Site Close								
25-Feb-2015		0.08	0.12	0.12	0.09					
26-Feb-2015		0.09	0.17	0.15	0.11					
27-Feb-2015		0.10	0.13	0.11	0.10					
28-Feb-2015		0.08	0.11	0.13	0.11					

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Mar-2015 to 31-Mar-2015

POINT		VM14-1#	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-Mar-2015		Sunday								
2-Mar-2015		0.08	0.14	0.15	0.11					
3-Mar-2015		0.09	0.13	0.11	0.11					
4-Mar-2015		0.10	0.11	0.16	0.10					
5-Mar-2015		0.08	0.11	0.13	0.10					
6-Mar-2015		0.10	0.15	0.11	0.10					
7-Mar-2015		0.09	0.12	0.13	0.11					
8-Mar-2015		Sunday								
9-Mar-2015		0.09	0.17	0.12	0.11					
10-Mar-2015		0.10	0.12	0.11	0.10					
11-Mar-2015		0.08	0.11	0.12	0.09					
12-Mar-2015		0.09	0.11	0.11	0.10					
13-Mar-2015		0.12	0.15	0.11	0.10					
14-Mar-2015		0.11	0.12	0.14	0.10					
15-Mar-2015		Sunday								
16-Mar-2015		0.11	0.12	0.12	0.11					
17-Mar-2015		0.09	0.13	0.15	0.10					
18-Mar-2015		0.11	0.12	0.11	0.11					
19-Mar-2015		0.10	0.11	0.10	0.10					
20-Mar-2015		0.10	0.13	0.10	0.11					
21-Mar-2015		0.08	0.16	0.11	0.11					
22-Mar-2015		Sunday								
23-Mar-2015		0.11	0.11	0.11	0.11					
24-Mar-2015		0.09	0.10	0.11	0.10					
25-Mar-2015		0.08	0.11	0.10	0.11					
26-Mar-2015		0.10	0.13	0.15	0.10					
27-Mar-2015		0.10	0.14	0.13	0.10					
28-Mar-2015		0.08	0.11	0.12	0.12					
29-Mar-2015		Sunday								
30-Mar-2015		0.08	0.11	0.16	0.10					
31-Mar-2015		0.10	0.12	0.12	0.11					

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Apr-2015 to 30-Apr-2015

POINT		VM14-1#	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-Apr-2015		0.13	0.11	0.11	0.11					
2-Apr-2015		0.08	0.10	0.11	0.10					
3-Apr-2015		Public Holiday								
4-Apr-2015		Public Holiday								
5-Apr-2015		Sunday								
6-Apr-2015		Public Holiday								
7-Apr-2015		Public Holiday								
8-Apr-2015		0.09	0.13	0.12	0.10					
9-Apr-2015		0.08	0.11	0.12	0.11					
10-Apr-2015		0.10	0.12	0.10	0.11					
11-Apr-2015		0.08	0.13	0.10	0.10					
12-Apr-2015		Sunday								
13-Apr-2015		0.09	0.12	0.11	0.11					
14-Apr-2015		0.12	0.11	0.11	0.10					
15-Apr-2015		0.13	0.11	0.16	0.10					
16-Apr-2015		0.11	0.11	0.12	0.11					
17-Apr-2015		0.13	0.11	0.10	0.10					
18-Apr-2015		0.11	0.15	0.13	0.12					
19-Apr-2015		Sunday								
20-Apr-2015		0.11	0.11	0.12	0.10					
21-Apr-2015		0.10	0.13	0.15	0.09					
22-Apr-2015		0.11	0.11	0.10	0.11					
23-Apr-2015		0.08	0.10	0.14	0.10					
24-Apr-2015		0.10	0.11	0.11	0.10					
25-Apr-2015		0.11	0.11	0.10	0.10					
26-Apr-2015		Sunday								
27-Apr-2015		0.11	0.10	0.11	0.10					
28-Apr-2015		0.11	0.10	0.12	0.11					
29-Apr-2015		0.10	0.11	0.10	0.10					
30-Apr-2015		0.09	0.11	0.11	0.11					

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-May-2015 to 31-May-2015

POINT		VM14-1#	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-May-2015		Public Holiday								
2-May-2015		0.11	0.10	0.10	0.10					
3-May-2015		Sunday								
4-May-2015		0.09	0.11	0.11	0.11					
5-May-2015		0.11	0.10	0.10	0.10					
6-May-2015		0.11	0.12	0.11	0.10					
7-May-2015		0.10	0.11	0.10	0.10					
8-May-2015		0.10	0.11	0.13	0.10					
9-May-2015		0.11	0.10	0.11	0.11					
10-May-2015		Sunday								
11-May-2015		0.10	0.11	0.10	0.10					
12-May-2015		0.10	0.12	0.13	0.10					
13-May-2015		0.11	0.12	0.16	0.11					
14-May-2015		0.10	0.13	0.17	0.11					
15-May-2015		0.11	0.12	0.13	0.11					
16-May-2015		0.10	0.11	0.13	0.11					
17-May-2015		Sunday								
18-May-2015		0.11	0.12	0.16	0.11					
19-May-2015		0.10	0.13	0.12	0.10					
20-May-2015		0.09	0.10	0.15	0.10					
21-May-2015		0.09	0.11	0.16	0.11					
22-May-2015		0.08	0.11	0.16	0.10					
23-May-2015		0.11	0.11	0.12	0.10					
24-May-2015		Sunday								
25-May-2015		Public Holiday								
26-May-2015		0.10	0.12	0.14	0.11					
27-May-2015		0.08	0.11	0.12	0.11					
28-May-2015		0.10	0.11	0.10	0.10					
29-May-2015		0.10	0.12	0.12	0.10					
30-May-2015		0.10	0.14	0.11	0.11					
31-May-2015		Sunday								

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jun-2015 to 30-Jun-2015

POINT		VM14-1#	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-Jun-2015		0.10	0.10	0.13	0.11					
2-Jun-2015		0.09	0.11	0.12	0.11					
3-Jun-2015		0.10	0.13	0.15	0.11					
4-Jun-2015		0.09	0.12	0.13	0.10					
5-Jun-2015		0.11	0.11	0.12	0.11					
6-Jun-2015		0.11	0.13	0.10	0.11					
7-Jun-2015	Sunday									
8-Jun-2015		0.11	0.11	0.10	0.10					
9-Jun-2015		0.10	0.11	0.13	0.11					
10-Jun-2015		0.11	0.11	0.11	0.11					
11-Jun-2015		0.11	0.11	0.12	0.10					
12-Jun-2015		0.09	0.10	0.10	0.11					
13-Jun-2015		0.10	0.11	0.10	0.11					
14-Jun-2015	Sunday									
15-Jun-2015		0.10	0.10	0.10	0.11					
16-Jun-2015		0.09	0.12	0.11	0.10					
17-Jun-2015		0.10	0.11	0.13	0.10					
18-Jun-2015		0.10	0.11	0.11	0.11					
19-Jun-2015		0.09	0.11	0.12	0.10					
20-Jun-2015	Public Holiday									
21-Jun-2015	Sunday									
22-Jun-2015		0.09	0.11	0.11	0.11					
23-Jun-2015		0.09	0.11	0.10	0.10					
24-Jun-2015		0.10	0.10	0.11	0.11					
25-Jun-2015		0.08	0.12	0.11	0.10					
26-Jun-2015		0.08	0.11	0.11	0.11					
27-Jun-2015		0.09	0.11	0.11	0.11					
28-Jun-2015	Sunday									
29-Jun-2015		0.08	0.10	0.11	0.10					
30-Jun-2015		0.08	0.11	0.10	0.11					

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Jul-2015 to 31-Jul-2015

POINT		VM14-1#	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-2015		Public Holiday								
2-Jul-2015		0.10	0.11	0.11	0.11					
3-Jul-2015		0.09	0.10	0.11	0.12					
4-Jul-2015		0.09	0.11	0.11	0.10					
5-Jul-2015		Sunday								
6-Jul-2015		0.08	0.11	0.12	0.10					
7-Jul-2015		0.10	0.11	0.11	0.11					
8-Jul-2015		0.09	0.10	0.11	0.10					
9-Jul-2015		0.10	0.11	0.10	0.11					
10-Jul-2015		0.10	0.11	0.11	0.11					
11-Jul-2015		0.08	0.11	0.11	0.10					
12-Jul-2015		Sunday								
13-Jul-2015		0.10	0.11	0.12	0.11					
14-Jul-2015		0.08	0.12	0.10	0.11					
15-Jul-2015		0.09	0.11	0.11	0.10					
16-Jul-2015		0.10	0.11	0.10	0.11					
17-Jul-2015		0.07	0.12	0.12	0.11					
18-Jul-2015		0.09	0.10	0.11	0.11					
19-Jul-2015		Sunday								
20-Jul-2015		0.10	0.11	0.11	0.11					
21-Jul-2015		0.10	0.12	0.11	0.11					
22-Jul-2015		0.10	0.11	0.10	0.11					
23-Jul-2015		0.09	0.11	0.10	0.11					
24-Jul-2015		0.09	0.10	0.11	0.11					
25-Jul-2015		0.08	0.11	0.11	0.11					
26-Jul-2015		Sunday								
27-Jul-2015		0.09	0.11	0.10	0.11					
28-Jul-2015		0.10	0.11	0.10	0.10					
29-Jul-2015		0.10	0.11	0.14	0.10					
30-Jul-2015		0.09	0.11	0.11	0.10					
31-Jul-2015		0.10	0.11	0.10	0.11					

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Aug-2015 to 31-Aug-2015

POINT		VM14-1#	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-Aug-2015		0.09	0.11	0.11	0.10					
2-Aug-2015		Sunday								
3-Aug-2015		0.10	0.11	0.11	0.10					
4-Aug-2015		0.09	0.11	0.10	0.11					
5-Aug-2015		0.10	0.12	0.11	0.11					
6-Aug-2015		0.09	0.10	0.11	0.11					
7-Aug-2015		0.09	0.11	0.10	0.11					
8-Aug-2015		0.07	0.11	0.11	0.10					
9-Aug-2015		Sunday								
10-Aug-2015		0.10	0.11	0.10	0.11					
11-Aug-2015		0.09	0.10	0.10	0.11					
12-Aug-2015		0.09	0.11	0.11	0.10					
13-Aug-2015		0.09	0.11	0.11	0.10					
14-Aug-2015		0.09	0.10	0.10	0.10					
15-Aug-2015		0.10	0.11	0.11	0.11					
16-Aug-2015		Sunday								
17-Aug-2015		0.10	0.11	0.10	0.11					
18-Aug-2015		0.09	0.10	0.11	0.11					
19-Aug-2015		0.10	0.11	0.11	0.10					
20-Aug-2015		0.10	0.11	0.10	0.11					
21-Aug-2015		0.10	0.11	0.10	0.11					
22-Aug-2015		0.10	0.11	0.11	0.11					
23-Aug-2015		Sunday								
24-Aug-2015		0.10	0.11	0.11	0.10					
25-Aug-2015		0.10	0.10	0.11	0.10					
26-Aug-2015		0.09	0.11	0.10	0.11					
27-Aug-2015		0.10	0.10	0.11	0.10					
28-Aug-2015		0.10	0.11	0.10	0.10					
29-Aug-2015		0.10	0.11	0.10	0.11					
30-Aug-2015		Sunday								
31-Aug-2015		0.10	0.11	0.11	0.11					

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Sep-2015 to 30-Sep-2015

POINT		VM14-1#	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-Sep-2015		0.10	0.11	0.11	0.11					
2-Sep-2015		0.10	0.10	0.11	0.10					
3-Sep-2015		Holiday								
4-Sep-2015		0.09	0.10	0.11	0.11					
5-Sep-2015		0.10	0.11	0.10	0.10					
6-Sep-2015		Sunday								
7-Sep-2015		0.10	0.11	0.11	0.10					
8-Sep-2015		0.10	0.10	0.10	0.11					
9-Sep-2015		0.11	0.11	0.11	0.11					
10-Sep-2015		0.10	0.10	0.11	0.12					
11-Sep-2015		0.11	0.11	0.10	0.10					
12-Sep-2015		0.10	0.11	0.10	0.10					
13-Sep-2015		Sunday								
14-Sep-2015		0.11	0.10	0.11	0.11					
15-Sep-2015		0.10	0.10	0.11	0.11					
16-Sep-2015		0.10	0.11	0.11	0.10					
17-Sep-2015		0.10	0.11	0.12	0.11					
18-Sep-2015		0.10	0.11	0.10	0.10					
19-Sep-2015		0.10	0.11	0.10	0.11					
20-Sep-2015		Sunday								
21-Sep-2015		0.10	0.10	0.12	0.10					
22-Sep-2015		0.09	0.10	0.10	0.11					
23-Sep-2015		0.09	0.10	0.10	0.10					
24-Sep-2015		0.10	0.10	0.14	0.11					
25-Sep-2015		0.11	0.10	0.14	0.11					
26-Sep-2015		0.09	0.10	0.16	0.11					
27-Sep-2015		Sunday								
28-Sep-2015		Holiday								
29-Sep-2015		0.09	0.11	0.11	0.11					
30-Sep-2015		0.09	0.11	0.10	0.10					

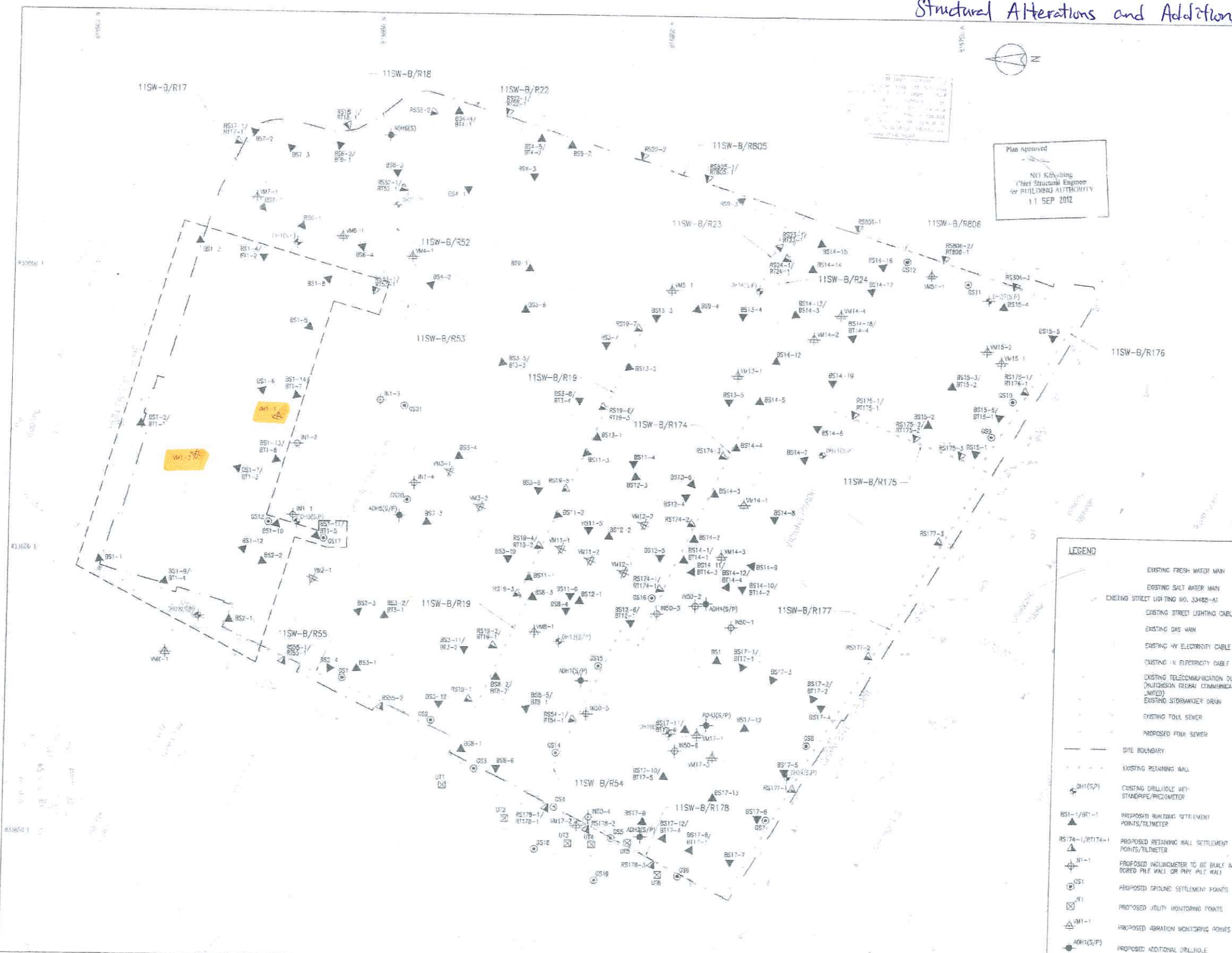
Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s
# Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Oct-2015 to 31-Oct-2015

POINT		VM14-1#	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-Oct-2015		Holiday								
2-Oct-2015		0.105	0.101	0.105	0.102					
3-Oct-2015		0.100	0.103	0.101	0.109					
4-Oct-2015		Sunday								
5-Oct-2015		0.102	0.102	0.105	0.103					
6-Oct-2015		0.106	0.106	0.102	0.105					
7-Oct-2015		0.103	0.103	0.105	0.103					
8-Oct-2015		0.098	0.098	0.099	0.112					
9-Oct-2015		0.098	0.098	0.102	0.105					
10-Oct-2015		0.092	0.092	0.106	0.103					
11-Oct-2015		Sunday								
12-Oct-2015		0.093	0.104	0.104	0.109					
13-Oct-2015		0.098	0.105	0.105	0.105					
14-Oct-2015		0.087	0.103	0.105	0.102					
15-Oct-2015		0.102	0.108	0.104	0.103					
16-Oct-2015		0.094	0.104	0.102	0.100					
17-Oct-2015		0.085	0.104	0.107	0.107					
18-Oct-2015		Sunday								
19-Oct-2015		0.080	0.101	0.098	0.102					
20-Oct-2015		0.091	0.104	0.111	0.105					
21-Oct-2015		Holiday								
22-Oct-2015		0.092	0.109	0.102	0.103					
23-Oct-2015		0.106	0.107	0.109	0.110					
24-Oct-2015		0.105	0.106	0.106	0.106					
25-Oct-2015		Sunday								
26-Oct-2015		/	/	/	/					
27-Oct-2015		/	/	/	/					
28-Oct-2015		/	/	/	/					
29-Oct-2015		/	/	/	/					
30-Oct-2015		/	/	/	/					
31-Oct-2015		/	/	/	/					

Structural Alterations and Additions at Block 1



Plan Approved
 NGI Consulting
 Chief Structural Engineer
 for BUILDING AUTHORITY
 11 SEP 2012

No.	Description	Date	Appr. By
B	ED SUBMISSION (S0)	12/11	JS
A	RD SUBMISSION (01)	03/12	JS
H	RD SUBMISSION (1/)	03/12	JS
C	RD SUBMISSION IN BATCH 1	03/12	JS
D	FOR INFORMATION (S0)	05/12	JS
E	RD SUBMISSION (S1)	05/12	JS
F	RD SUBMISSION (S4)	05/12	JS
G	RD SUBMISSION (C3)	05/12	JS
H	ED SUBMISSION (14)	05/12	JS
J	RD SUBMISSION IN BATCH 2	05/12	JS
K	RD SUBMISSION (S607)	07/12	JS
L	RD SUBMISSION (01)(H0)	07/12	JS



BD SUBMISSION
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 如發現任何不符之處，請立即通知有關當局。

- LEGEND**
- EXISTING FRESH WATER MAIN
 - EXISTING SALT WATER MAIN
 - EXISTING STREET LIGHTING NO. 33485-4A1
 - EXISTING STREET LIGHTING CABLE
 - EXISTING GAS MAIN
 - EXISTING HV ELECTRICITY CABLE
 - EXISTING LV ELECTRICITY CABLE
 - EXISTING TELECOMMUNICATION DUCT (HIGH/LOW VOLTAGE COMMUNICATIONS JUMPS)
 - EXISTING STORMWATER DRAIN
 - EXISTING FOUL SEWER
 - PROPOSED FOUL SEWER
 - SITE BOUNDARY
 - EXISTING RETAINING WALL
 - EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER
 - PROPOSED BUILDING SETTLEMENT POINTS/TILMETER
 - PROPOSED RETAINING WALL SETTLEMENT POINTS/TILMETER
 - PROPOSED INCLINOMETER TO BE INSTALLED IN BORED PILE WALL OR PIPE PILE WALL
 - PROPOSED GROUND SETTLEMENT POINTS
 - PROPOSED QUALITY MONITORING POINTS
 - PROPOSED VIBRATION MONITORING POINTS
 - PROPOSED ADDITIONAL DRILLHOLE

Client 業主
 香港警務處
 Design Consultant
HERZOG & DEMEUREN
 Conservation Architect
 Executive Architect AP
ROCCO
 Structural Engineer RSE
ARUP
 Project 項目
**CENTRAL POLICE STATION
 CONSERVATION AND REVITALISATION
 PROJECT**
 Drawing 圖號
MONITORING LAYOUT PLAN
 Date 日期
 11/09/11
 Drawn 繪圖
 K.C.L. LI
 Checked 校核
 AL
 Drawing No. 圖號
 00-0AP209674-G-C01 L

Structural Additions and Alterations at Block 11



Note: This plan has been processed on a computer which uses the computerized processing system as specified in Part 14.19. The user of the software must register the user name and password as specified in the user manual and the program must be used in accordance with the license agreement of the software. The user must ensure that the software is used in accordance with the license agreement.

Revision/Submission 校核/編號

No. 編號	Description 說明	Date 日期	Approved 審批
-	BD SUBMISSION (50)	12/11	JS
A	BD SUBMISSION (01)	03/12	JS
B	BD SUBMISSION (17)	03/12	JS
C	BD SUBMISSION RW BATCH 1	03/12	JS
D	FOR INFORMATION (50)	03/12	JS
E	BD SUBMISSION (51)	05/12	JS
F	BD SUBMISSION (04)	05/12	JS
G	BD SUBMISSION (14)	05/12	JS
H	BD SUBMISSION (14)	05/12	JS
J	BD SUBMISSION RW BATCH 2	05/12	JS
K	BD SUBMISSION (06&07)	07/12	JS
L	BD SUBMISSION (01)	07/12	JS
M	BD SUBMISSION (11)	07/12	JS

Plan Approved
CHIONG Kam-yung Jacky
 Chief Structural Engineer
 for BUILDING AUTHORITY
 - 3 OCT 2012



BD SUBMISSION
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LEGEND

	EXISTING FRESH WATER MAIN
	EXISTING SALT WATER MAIN
	EXISTING STREET LIGHTING NC. 33488-A1
	EXISTING STREET LIGHTING CABLE
	EXISTING GAS MAIN
	EXISTING HV ELECTRICITY CABLE
	EXISTING LV ELECTRICITY CABLE
	EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
	EXISTING STORMWATER DRAIN
	EXISTING FOUL SEWER
	PROPOSED FOUL SEWER
	SITE BOUNDARY
	EXISTING RETAINING WALL
	EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER
	PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER
	PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER
	PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE WALL OR PIPE PILE WALL
	PROPOSED GROUND SETTLEMENT POINTS
	PROPOSED UTILITY MONITORING POINTS
	PROPOSED VIBRATION MONITORING POINTS
	PROPOSED ADDITIONAL DRILLHOLE

Client 業主

 The Jersey Club CP Limited

Design Consultant
HERZOG & DEMEURON

Conservation Architect

Executive Architect / AP
ROCCO

Structural Engineer / RSE
ARUP E & M Engineer

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

Drawing Table 圖名
MONITORING LAYOUT PLAN

Scale 比例
 1:300 @ A1

Drawn 繪圖
 K.C. Lai

Checked 校對
 AL

Drawing No. 圖號
 00-OAP209674-G-001

Revision 校核
 M

Cost file 00-OAP209674-G-001.dwg



Vibration Monitoring Record (November)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 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-Nov-14	0.154	0.128	0.156	0.148	0.182	0.137	0.204	0.187	0.122	0.182	0.103	0.198	0.156	0.126	0.158	0.181
02-Nov-14	Holiday															
03-Nov-14	0.263	0.106	0.298	0.154	0.131	0.199	0.189	0.265	0.198	0.156	0.106	0.320	0.146	0.138	0.129	0.110
04-Nov-14	0.346	0.158	0.179	0.193	0.125	0.124	0.168	0.191	0.127	0.187	0.132	0.160	0.136	0.142	0.198	0.135
05-Nov-14	0.191	0.131	0.206	0.167	0.102	0.096	0.181	0.129	0.156	0.193	0.154	0.201	0.159	0.165	0.163	0.156
06-Nov-14	0.168	0.108	0.174	0.348	0.179	0.131	0.122	0.176	0.121	0.172	0.109	0.182	0.149	0.207	0.175	0.122
07-Nov-14	0.106	0.185	0.156	0.187	0.123	0.165	0.198	0.132	0.155	0.184	0.132	0.206	0.143	0.137	0.163	0.105
08-Nov-14	0.398	0.134	0.189	0.204	0.156	0.118	0.203	0.174	0.132	0.165	0.123	0.186	0.161	0.158	0.334	0.180
09-Nov-14	Sunday															
10-Nov-14	0.098	0.102	0.314	0.195	0.142	0.192	0.172	0.195	0.168	0.135	0.139	0.126	0.149	0.192	0.189	0.126
11-Nov-14	0.156	0.147	0.114	0.286	0.189	0.198	0.113	0.125	0.126	0.199	0.165	0.193	0.204	0.164	0.171	0.139
12-Nov-14	0.192	0.120	0.111	0.168	0.175	0.163	0.159	0.198	0.135	0.188	0.189	0.318	0.125	0.159	0.192	0.206
13-Nov-14	0.146	0.127	0.177	0.178	0.166	0.145	0.116	0.184	0.102	0.155	0.166	0.245	0.119	0.167	0.177	0.203
14-Nov-14	0.114	0.122	0.156	0.169	0.147	0.188	0.120	0.168	0.128	0.127	0.170	0.201	0.123	0.135	0.153	0.188
15-Nov-14	0.196	0.159	0.114	0.196	0.162	0.126	0.189	0.149	0.152	0.198	0.185	0.125	0.174	0.109	0.198	0.153
16-Nov-14	Sunday															
17-Nov-14	0.165	0.113	0.159	0.209	0.151	0.192	0.142	0.193	0.121	0.147	0.158	0.181	0.132	0.138	0.174	0.162
18-Nov-14	0.192	0.102	0.143	0.122	0.149	0.138	0.156	0.114	0.108	0.169	0.114	0.141	0.123	0.161	0.149	0.146
19-Nov-14	0.101	0.114	0.138	0.173	0.138	0.103	0.118	0.128	0.119	0.141	0.125	0.196	0.112	0.204	0.117	0.188
20-Nov-14	0.191	0.152	0.173	0.129	0.130	0.189	0.193	0.152	0.107	0.157	0.132	0.158	0.103	0.182	0.181	0.129
21-Nov-14	0.088	0.078	0.145	0.099	0.109	0.176	0.140	0.119	0.091	0.128	0.155	0.206	0.116	0.148	0.112	0.163
22-Nov-14	0.195	0.102	0.165	0.198	0.126	0.194	0.135	0.143	0.137	0.168	0.106	0.187	0.123	0.182	0.145	0.154
23-Nov-14	Sunday															
24-Nov-14	0.126	0.114	0.183	0.145	0.192	0.126	0.195	0.204	0.136	0.198	0.152	0.145	0.177	0.199	0.155	0.183
25-Nov-14	0.491	0.101	0.151	0.189	0.125	0.149	0.128	0.165	0.161	0.169	0.132	0.181	0.121	0.125	0.169	0.206
26-Nov-14	0.119	0.132	0.112	0.156	0.132	0.135	0.152	0.179	0.149	0.112	0.158	0.132	0.154	0.103	0.193	0.148
27-Nov-14	0.156	0.105	0.168	0.192	0.122	0.195	0.169	0.132	0.102	0.198	0.114	0.189	0.156	0.155	0.114	0.193
28-Nov-14	0.178	0.136	0.122	0.142	0.117	0.183	0.091	0.188	0.095	0.152	0.103	0.136	0.102	0.191	0.174	0.144
29-Nov-14	0.162	0.103	0.195	0.241	0.165	0.191	0.163	0.165	0.121	0.132	0.211	0.125	0.133	0.198	0.132	0.136
30-Nov-14	Sunday															



Vibration Monitoring Record (December)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 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-Dec-14	0.165	0.132	0.198	0.351	0.196	0.135	0.198	0.165	0.102	0.147	0.132	0.198	0.121	0.112	0.125	0.133
02-Dec-14	0.189	0.103	0.151	0.258	0.161	0.123	0.155	0.131	0.109	0.132	0.111	0.198	0.132	0.198	0.165	0.121
03-Dec-14	0.165	0.128	0.196	0.143	0.185	0.192	0.182	0.157	0.128	0.113	0.103	0.151	0.120	0.164	0.147	0.166
04-Dec-14	0.113	0.123	0.165	0.198	0.118	0.175	0.137	0.172	0.105	0.180	0.123	0.164	0.154	0.155	0.311	0.150
05-Dec-14	0.198	0.114	0.127	0.231	0.105	0.152	0.174	0.140	0.158	0.122	0.168	0.121	0.198	0.133	0.135	0.204
06-Dec-14	0.117	0.165	0.125	0.173	0.151	0.133	0.198	0.115	0.102	0.193	0.147	0.122	0.103	0.247	0.172	0.135
07-Dec-14	Sunday															
08-Dec-14	0.135	0.156	0.114	0.198	0.113	0.098	0.114	0.153	0.237	0.152	0.106	0.135	0.133	0.168	0.149	0.103
09-Dec-14	0.168	0.132	0.166	0.143	0.120	0.152	0.173	0.140	0.114	0.115	0.103	0.172	0.114	0.139	0.125	0.138
10-Dec-14	0.176	0.104	0.137	0.122	0.161	0.107	0.155	0.138	0.102	0.114	0.132	0.152	0.103	0.175	0.173	0.162
11-Dec-14	0.143	0.111	0.195	0.173	0.124	0.139	0.170	0.162	0.119	0.216	0.138	0.115	0.108	0.158	0.114	0.153
12-Dec-14	0.147	0.102	0.165	0.165	0.114	0.150	0.213	0.126	0.105	0.130	0.105	0.168	0.111	0.119	0.132	0.155
13-Dec-14	0.113	0.097	0.130	0.148	0.109	0.113	0.176	0.193	0.101	0.166	0.115	0.172	0.132	0.235	0.120	0.193
14-Dec-14	Sunday															
15-Dec-14	0.198	0.112	0.175	0.169	0.124	0.162	0.202	0.135	0.117	0.136	0.104	0.120	0.183	0.159	0.143	0.150
16-Dec-14	0.136	0.105	0.113	0.152	0.108	0.114	0.175	0.162	0.133	0.136	0.112	0.103	0.154	0.176	0.129	0.114
17-Dec-14	0.155	0.114	0.136	0.159	0.112	0.143	0.219	0.146	0.105	0.114	0.165	0.112	0.130	0.184	0.111	0.134
18-Dec-14	0.119	0.103	0.154	0.135	0.114	0.174	0.205	0.114	0.109	0.114	0.133	0.182	0.145	0.231	0.166	0.193
19-Dec-14	0.125	0.117	0.140	0.144	0.132	0.167	0.198	0.122	0.120	0.121	0.127	0.162	0.149	0.218	0.177	0.174
20-Dec-14	0.110	0.163	0.189	0.183	0.112	0.113	0.167	0.209	0.101	0.196	0.154	0.152	0.114	0.176	0.182	0.127
21-Dec-14	Sunday															
22-Dec-14	0.143	0.182	0.122	0.149	0.112	0.162	0.193	0.114	0.113	0.111	0.165	0.132	0.103	0.125	0.175	0.163
23-Dec-14	0.114	0.162	0.103	0.138	0.108	0.105	0.136	0.105	0.096	0.116	0.162	0.106	0.153	0.120	0.124	0.128
24-Dec-14	0.102	0.122	0.122	0.129	0.170	0.117	0.108	0.115	0.113	0.126	0.113	0.102	0.149	0.131	0.119	0.138
25-Dec-14	Holiday															
26-Dec-14	Holiday															
27-Dec-14	0.114	0.136	0.135	0.132	0.102	0.113	0.165	0.153	0.099	0.146	0.108	0.171	0.155	0.112	0.162	0.165
28-Dec-14	Sunday															
29-Dec-14	0.132	0.145	0.159	0.119	0.105	0.166	0.114	0.139	0.150	0.118	0.103	0.136	0.158	0.185	0.114	0.120
30-Dec-14	0.125	0.114	0.132	0.192	0.119	0.128	0.162	0.105	0.135	0.165	0.121	0.103	0.165	0.132	0.166	0.112
31-Dec-14	0.113	0.106	0.145	0.153	0.110	0.156	0.123	0.137	0.112	0.123	0.125	0.136	0.114	0.146	0.117	0.135



Vibration Monitoring Record (Jan 15)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 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-Jan-15	Public Holiday															
02-Jan-15	0.106	0.109	0.133	0.147	0.115	0.139	0.172	0.163	0.163	0.128	0.112	0.104	0.134	0.105	0.116	0.107
03-Jan-15	0.114	0.165	0.144	0.125	0.152	0.121	0.116	0.109	0.108	0.142	0.115	0.123	0.165	0.151	0.149	0.173
04-Jan-15	Sunday															
05-Jan-15	0.153	0.114	0.135	0.158	0.120	0.106	0.114	0.108	0.114	0.114	0.102	0.122	0.117	0.139	0.173	0.191
06-Jan-15	0.114	0.104	0.139	0.112	0.182	0.112	0.173	0.142	0.108	0.146	0.169	0.105	0.115	0.172	0.138	0.138
07-Jan-15	0.161	0.115	0.122	0.169	0.122	0.109	0.125	0.139	0.127	0.122	0.188	0.103	0.167	0.124	0.151	0.169
08-Jan-15	0.144	0.120	0.117	0.127	0.130	0.125	0.117	0.177	0.131	0.162	0.152	0.098	0.141	0.174	0.114	0.158
09-Jan-15	0.121	0.135	0.107	0.110	0.142	0.112	0.114	0.135	0.101	0.122	0.118	0.136	0.129	0.120	0.126	0.144
10-Jan-15	0.111	0.127	0.118	0.162	0.152	0.122	0.144	0.148	0.107	0.151	0.129	0.124	0.177	0.118	0.121	0.139
11-Jan-15	Sunday															
12-Jan-15	0.114	0.156	0.138	0.114	0.136	0.113	0.158	0.174	0.128	0.141	0.138	0.103	0.156	0.153	0.117	0.125
13-Jan-15	0.168	0.115	0.122	0.183	0.120	0.102	0.119	0.143	0.141	0.114	0.158	0.112	0.143	0.125	0.135	0.162
14-Jan-15	0.121	0.120	0.106	0.142	0.128	0.119	0.143	0.132	0.105	0.128	0.167	0.104	0.114	0.133	0.173	0.130
15-Jan-15	0.116	0.103	0.110	0.171	0.114	0.151	0.138	0.120	0.109	0.175	0.125	0.106	0.129	0.110	0.128	0.173
16-Jan-15	0.150	0.107	0.112	0.193	0.100	0.175	0.165	0.113	0.102	0.114	0.128	0.103	0.104	0.116	0.109	0.124
17-Jan-15	0.113	0.108	0.140	0.141	0.128	0.139	0.147	0.128	0.110	0.128	0.117	0.093	0.112	0.151	0.143	0.115
18-Jan-15	Sunday															
19-Jan-15	0.148	0.101	0.192	0.156	0.114	0.162	0.133	0.115	0.106	0.143	0.114	0.108	0.101	0.123	0.135	0.141
20-Jan-15	0.131	0.105	0.115	0.172	0.120	0.145	0.114	0.106	0.094	0.126	0.155	0.102	0.112	0.115	0.162	0.165
21-Jan-15	0.117	0.100	0.114	0.156	0.119	0.128	0.125	0.123	0.109	0.105	0.119	0.108	0.122	0.114	0.113	0.120
22-Jan-15	0.163	0.114	0.132	0.128	0.101	0.151	0.113	0.109	0.105	0.114	0.119	0.102	0.145	0.120	0.149	0.152
23-Jan-15	0.101	0.112	0.108	0.114	0.122	0.121	0.128	0.106	0.111	0.126	0.104	0.113	0.139	0.127	0.112	0.132
24-Jan-15	0.161	0.108	0.121	0.169	0.135	0.109	0.115	0.108	0.102	0.109	0.114	0.106	0.158	0.117	0.175	0.165
25-Jan-15	Sunday															
26-Jan-15	0.145	0.103	0.132	0.183	0.118	0.165	0.165	0.114	0.089	0.182	0.131	0.105	0.115	0.115	0.147	0.131
27-Jan-15	0.121	0.107	0.108	0.150	0.121	0.141	0.109	0.101	0.105	0.150	0.103	0.109	0.114	0.108	0.120	0.115
28-Jan-15	0.136	0.219	0.188	0.194	0.103	0.105	0.136	0.149	0.105	0.173	0.116	0.113	0.179	0.120	0.124	0.150
29-Jan-15	0.136	0.105	0.113	0.152	0.108	0.117	0.108	0.198	0.110	0.136	0.104	0.120	0.183	0.158	0.134	0.131
30-Jan-15	0.149	0.109	0.098	0.167	0.125	0.197	0.176	0.162	0.096	0.162	0.152	0.098	0.141	0.119	0.189	0.109
31-Jan-15	0.159	0.103	0.151	0.158	0.161	0.093	0.194	0.146	0.113	0.155	0.166	0.145	0.119	0.109	0.145	0.111



Vibration Monitoring Record (February)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 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-Feb-15	Sunday															
02-Feb-15	0.108	0.121	0.120	0.169	0.114	0.110	0.121	0.103	0.195	0.130	0.115	0.102	0.110	0.235	0.105	0.123
03-Feb-15	0.116	0.102	0.108	0.125	0.104	0.161	0.113	0.109	0.121	0.105	0.118	0.113	0.108	0.142	0.141	0.105
04-Feb-15	0.128	0.105	0.112	0.151	0.109	0.105	0.110	0.104	0.109	0.137	0.108	0.111	0.102	0.115	0.129	0.118
05-Feb-15	0.104	0.105	0.117	0.130	0.110	0.126	0.122	0.115	0.102	0.112	0.105	0.103	0.138	0.111	0.117	0.109
06-Feb-15	0.117	0.112	0.109	0.118	0.103	0.112	0.135	0.108	0.111	0.106	0.122	0.120	0.104	0.127	0.112	0.118
07-Feb-15	0.115	0.103	0.118	0.165	0.141	0.109	0.124	0.105	0.105	0.103	0.105	0.108	0.104	0.122	0.163	0.125
08-Feb-15	Sunday															
09-Feb-15	0.137	0.105	0.115	0.133	0.109	0.107	0.106	0.110	0.119	0.109	0.141	0.123	0.108	0.110	0.128	0.130
10-Feb-15	0.112	0.109	0.152	0.117	0.103	0.102	0.154	0.103	0.102	0.150	0.105	0.108	0.101	0.120	0.113	0.112
11-Feb-15	0.125	0.110	0.103	0.145	0.111	0.123	0.115	0.135	0.108	0.123	0.103	0.122	0.113	0.102	0.168	0.110
12-Feb-15	0.103	0.096	0.110	0.128	0.105	0.115	0.132	0.109	0.120	0.117	0.105	0.103	0.101	0.105	0.150	0.128
13-Feb-15	0.137	0.102	0.122	0.129	0.114	0.120	0.116	0.114	0.113	0.131	0.114	0.111	0.107	0.107	0.144	0.108
14-Feb-15	0.122	0.118	0.105	0.100	0.103	0.119	0.124	0.123	0.136	0.125	0.123	0.122	0.101	0.102	0.125	0.119
15-Feb-15	Sunday															
16-Feb-15	0.120	0.114	0.108	0.115	0.108	0.103	0.134	0.107	0.105	0.112	0.152	0.128	0.104	0.113	0.106	0.113
17-Feb-15	0.172	0.101	0.102	0.138	0.095	0.112	0.106	0.110	0.100	0.118	0.102	0.127	0.101	0.104	0.154	0.110
18-Feb-15	Site Close															
19-Feb-15	Public Holiday															
20-Feb-15	Public Holiday															
21-Feb-15	Public Holiday															
22-Feb-15	Sunday															
23-Feb-15	Site Close															
24-Feb-15	Site Close															
25-Feb-15	0.153	0.086	0.098	0.107	0.082	0.105	0.110	0.102	0.095	0.121	0.108	0.117	0.098	0.119	0.121	0.119
26-Feb-15	0.116	0.104	0.084	0.151	0.103	0.101	0.107	0.110	0.107	0.107	0.128	0.114	0.101	0.102	0.127	0.137
27-Feb-15	0.120	0.118	0.100	0.126	0.110	0.105	0.106	0.102	0.113	0.103	0.096	0.116	0.105	0.104	0.106	0.112
28-Feb-15	0.106	0.092	0.103	0.112	0.096	0.131	0.110	0.108	0.118	0.103	0.089	0.103	0.156	0.127	0.155	0.115



Vibration Monitoring Record (Mar 2015)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 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-Mar-15	Sunday															
02-Mar-15	0.116	0.095	0.107	0.158	0.099	0.107	0.118	0.103	0.104	0.117	0.108	0.105	0.083	0.138	0.132	0.109
03-Mar-15	0.160	0.097	0.108	0.117	0.104	0.132	0.103	0.109	0.107	0.106	0.089	0.108	0.100	0.114	0.174	0.123
04-Mar-15	0.111	0.105	0.102	0.141	0.103	0.105	0.109	0.104	0.119	0.102	0.119	0.128	0.105	0.151	0.134	0.115
05-Mar-15	0.135	0.100	0.108	0.133	0.112	0.109	0.103	0.115	0.135	0.141	0.103	0.108	0.102	0.117	0.121	0.107
06-Mar-15	0.109	0.096	0.114	0.120	0.101	0.105	0.113	0.108	0.157	0.113	0.108	0.102	0.104	0.110	0.132	0.111
07-Mar-15	0.130	0.105	0.108	0.114	0.108	0.132	0.101	0.105	0.124	0.104	0.087	0.103	0.092	0.106	0.187	0.107
08-Mar-15	Sunday															
09-Mar-15	0.110	0.103	0.162	0.109	0.097	0.103	0.110	0.110	0.117	0.106	0.103	0.108	0.100	0.108	0.106	0.118
10-Mar-15	0.134	0.105	0.103	0.151	0.103	0.112	0.103	0.103	0.122	0.103	0.108	0.118	0.100	0.113	0.153	0.107
11-Mar-15	0.105	0.100	0.103	0.111	0.109	0.109	0.130	0.135	0.110	0.114	0.106	0.105	0.093	0.108	0.114	0.111
12-Mar-15	0.114	0.095	0.108	0.145	0.101	0.096	0.107	0.109	0.107	0.103	0.093	0.153	0.086	0.105	0.107	0.125
13-Mar-15	0.129	0.103	0.115	0.126	0.103	0.099	0.109	0.114	0.103	0.108	0.103	0.108	0.100	0.102	0.122	0.116
14-Mar-15	0.107	0.085	0.102	0.138	0.105	0.084	0.110	0.123	0.110	0.102	0.086	0.103	0.075	0.104	0.164	0.109
15-Mar-15	Sunday															
16-Mar-15	0.111	0.106	0.104	0.102	0.113	0.109	0.102	0.107	0.121	0.089	0.099	0.120	0.105	0.098	0.131	0.128
17-Mar-15	0.176	0.098	0.102	0.154	0.109	0.105	0.115	0.110	0.133	0.101	0.086	0.132	0.101	0.125	0.135	0.119
18-Mar-15	0.125	0.102	0.105	0.116	0.095	0.183	0.131	0.107	0.112	0.108	0.100	0.104	0.096	0.118	0.112	0.115
19-Mar-15	0.132	0.109	0.101	0.121	0.109	0.127	0.110	0.110	0.139	0.105	0.082	0.103	0.079	0.122	0.108	0.142
20-Mar-15	0.158	0.087	0.133	0.140	0.105	0.116	0.102	0.107	0.118	0.110	0.092	0.118	0.096	0.130	0.103	0.123
21-Mar-15	0.132	0.106	0.114	0.116	0.101	0.167	0.105	0.110	0.124	0.123	0.101	0.103	0.082	0.119	0.110	0.107
22-Mar-15	Sunday															
23-Mar-15	0.124	0.109	0.123	0.124	0.110	0.115	0.108	0.107	0.113	0.150	0.107	0.106	0.086	0.108	0.156	0.128
24-Mar-15	0.129	0.094	0.112	0.156	0.104	0.135	0.165	0.110	0.166	0.121	0.105	0.115	0.156	0.105	0.109	0.113
25-Mar-15	0.116	0.104	0.108	0.121	0.108	0.106	0.128	0.102	0.111	0.105	0.132	0.152	0.083	0.162	0.125	0.109
26-Mar-15	0.138	0.111	0.108	0.119	0.101	0.157	0.113	0.110	0.119	0.106	0.093	0.103	0.077	0.109	0.112	0.116
27-Mar-15	0.125	0.106	0.101	0.133	0.108	0.112	0.161	0.102	0.107	0.104	0.109	0.096	0.083	0.105	0.109	0.118
28-Mar-15	0.117	0.103	0.109	0.117	0.097	0.101	0.105	0.108	0.132	0.100	0.082	0.108	0.097	0.110	0.141	0.109
29-Mar-15	Sunday															
30-Mar-15	0.165	0.118	0.102	0.169	0.118	0.119	0.118	0.108	0.110	0.123	0.108	0.116	0.103	0.102	0.135	0.110
31-Mar-15	0.117	0.102	0.108	0.135	0.104	0.103	0.106	0.108	0.115	0.103	0.092	0.108	0.073	0.106	0.109	0.165



Vibration Monitoring Record (Apr 15)

Point Date	Block 1		Block 2	Block 3		Block 4	Block 6 & 7			Block 9	Block 11		Block 12		Block 13	Block 15	
	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	
	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-Apr-15	0.110	0.085	0.131	0.119	0.102	0.102	0.121	0.105	0.107	0.115	0.098	0.118	0.082	0.124	0.118	0.123	
02-Apr-15	0.142	0.094	0.110	0.115	0.105	0.109	0.105	0.103	0.103	0.110	0.102	0.105	0.097	0.108	0.165	0.107	
03-Apr-15	Public Holiday																
04-Apr-15	Public Holiday																
05-Apr-15	Sunday																
06-Apr-15	Public Holiday																
07-Apr-15	Public Holiday																
08-Apr-15	0.119	0.105	0.104	0.120	0.104	0.110	0.102	0.105	0.108	0.110	0.103	0.105	0.083	0.127	0.103	0.105	
09-Apr-15	0.132	0.083	0.110	0.103	0.100	0.133	0.105	0.109	0.111	0.106	0.101	0.108	0.086	0.165	0.105	0.117	
10-Apr-15	0.126	0.102	0.102	0.116	0.103	0.112	0.105	0.113	0.106	0.102	0.089	0.113	0.084	0.110	0.121	0.109	
11-Apr-15	0.105	0.086	0.109	0.112	0.097	0.109	0.110	0.102	0.102	0.105	0.084	0.104	0.092	0.105	0.106	0.115	
12-Apr-15	Sunday																
13-Apr-15	0.103	0.100	0.104	0.101	0.099	0.111	0.102	0.114	0.111	0.108	0.104	0.107	0.110	0.102	0.115	0.120	
14-Apr-15	0.132	0.103	0.103	0.112	0.100	0.106	0.103	0.107	0.107	0.101	0.110	0.128	0.100	0.115	0.106	0.128	
15-Apr-15	0.119	0.095	0.109	0.152	0.105	0.103	0.108	0.105	0.103	0.120	0.101	0.109	0.102	0.108	0.115	0.106	
16-Apr-15	0.110	0.102	0.105	0.133	0.101	0.101	0.103	0.114	0.101	0.107	0.087	0.108	0.103	0.105	0.106	0.117	
17-Apr-15	0.105	0.092	0.125	0.114	0.108	0.125	0.105	0.104	0.105	0.106	0.102	0.109	0.082	0.109	0.106	0.110	
18-Apr-15	0.100	0.095	0.104	0.118	0.102	0.103	0.107	0.103	0.099	0.101	0.086	0.106	0.076	0.105	0.108	0.152	
19-Apr-15	Sunday																
20-Apr-15	0.109	0.100	0.103	0.141	0.105	0.106	0.102	0.115	0.101	0.141	0.100	0.108	0.100	0.116	0.103	0.114	
21-Apr-15	0.115	0.103	0.108	0.132	0.111	0.112	0.109	0.110	0.105	0.107	0.097	0.102	0.110	0.104	0.115	0.103	
22-Apr-15	0.104	0.087	0.101	0.117	0.106	0.109	0.103	0.132	0.105	0.100	0.101	0.102	0.089	0.112	0.103	0.119	
23-Apr-15	0.123	0.101	0.105	0.121	0.113	0.101	0.105	0.101	0.101	0.102	0.108	0.108	0.082	0.102	0.108	0.106	
24-Apr-15	0.115	0.096	0.111	0.115	0.102	0.105	0.119	0.105	0.103	0.103	0.087	0.116	0.097	0.108	0.105	0.108	
25-Apr-15	0.109	0.087	0.106	0.115	0.103	0.102	0.103	0.161	0.097	0.108	0.101	0.126	0.082	0.110	0.110	0.114	
26-Apr-15	Sunday																
27-Apr-15	0.105	0.102	0.110	0.129	0.100	0.106	0.109	0.105	0.100	0.109	0.082	0.107	0.100	0.103	0.102	0.120	
28-Apr-15	0.103	0.105	0.102	0.121	0.106	0.100	0.103	0.117	0.102	0.102	0.089	0.100	0.082	0.111	0.106	0.109	
29-Apr-15	0.103	0.109	0.108	0.112	0.103	0.101	0.105	0.102	0.106	0.102	0.100	0.110	0.097	0.104	0.110	0.107	
30-Apr-15	0.108	0.100	0.108	0.116	0.102	0.105	0.112	0.106	0.110	0.105	0.109	0.102	0.086	0.103	0.101	0.112	



Vibration Monitoring Record (May)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 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-15	Public Holiday															
02-May-15	0.106	0.089	0.097	0.113	0.105	0.101	0.105	0.110	0.100	0.106	0.083	0.102	0.084	0.105	0.105	0.124
03-May-15	Sunday															
04-May-15	0.113	0.108	0.114	0.141	0.128	0.106	0.102	0.104	0.102	0.101	0.085	0.105	0.082	0.109	0.112	0.111
05-May-15	0.105	0.104	0.102	0.128	0.102	0.103	0.109	0.128	0.105	0.106	0.098	0.101	0.076	0.104	0.108	0.113
06-May-15	0.120	0.101	0.096	0.114	0.102	0.101	0.103	0.115	0.103	0.120	0.101	0.102	0.097	0.102	0.106	0.107
07-May-15	0.103	0.105	0.100	0.162	0.105	0.105	0.108	0.104	0.109	0.106	0.101	0.109	0.099	0.105	0.109	0.105
08-May-15	0.109	0.087	0.103	0.134	0.105	0.101	0.101	0.113	0.101	0.108	0.099	0.103	0.079	0.114	0.105	0.110
09-May-15	0.103	0.096	0.101	0.112	0.103	0.095	0.119	0.106	0.105	0.105	0.092	0.108	0.102	0.106	0.110	0.103
10-May-15	Sunday															
11-May-15	0.109	0.113	0.102	0.115	0.102	0.108	0.106	0.110	0.102	0.106	0.085	0.114	0.094	0.121	0.106	0.109
12-May-15	0.105	0.102	0.110	0.120	0.105	0.115	0.118	0.105	0.108	0.123	0.105	0.103	0.100	0.117	0.105	0.116
13-May-15	0.111	0.108	0.102	0.110	0.109	0.102	0.102	0.105	0.102	0.105	0.102	0.109	0.101	0.106	0.112	0.124
14-May-15	0.107	0.103	0.101	0.118	0.103	0.103	0.113	0.117	0.105	0.125	0.108	0.102	0.084	0.129	0.103	0.128
15-May-15	0.103	0.108	0.116	0.107	0.100	0.109	0.160	0.108	0.103	0.103	0.108	0.104	0.093	0.118	0.105	0.116
16-May-15	0.109	0.102	0.102	0.165	0.110	0.105	0.115	0.109	0.111	0.105	0.103	0.108	0.100	0.115	0.110	0.120
17-May-15	Sunday															
18-May-15	0.105	0.117	0.105	0.118	0.102	0.111	0.109	0.105	0.105	0.102	0.110	0.108	0.105	0.107	0.111	0.109
19-May-15	0.109	0.105	0.101	0.115	0.106	0.105	0.103	0.111	0.102	0.106	0.105	0.103	0.095	0.109	0.105	0.108
20-May-15	0.113	0.107	0.119	0.110	0.103	0.103	0.121	0.103	0.103	0.100	0.103	0.109	0.097	0.105	0.101	0.115
21-May-15	0.101	0.112	0.108	0.114	0.102	0.105	0.106	0.102	0.103	0.102	0.119	0.128	0.105	0.114	0.105	0.106
22-May-15	0.116	0.104	0.114	0.151	0.103	0.105	0.115	0.109	0.109	0.103	0.092	0.108	0.073	0.134	0.135	0.114
23-May-15	0.098	0.110	0.111	0.139	0.102	0.108	0.116	0.135	0.101	0.103	0.122	0.108	0.093	0.119	0.106	0.109
24-May-15	Sunday															
25-May-15	Public Holiday															
26-May-15	0.112	0.135	0.109	0.135	0.109	0.109	0.115	0.105	0.105	0.102	0.116	0.103	0.085	0.111	0.106	0.128
27-May-15	0.104	0.107	0.101	0.117	0.106	0.110	0.105	0.118	0.102	0.102	0.109	0.103	0.104	0.106	0.111	0.106
28-May-15	0.105	0.116	0.109	0.112	0.107	0.109	0.108	0.108	0.103	0.106	0.108	0.102	0.094	0.115	0.135	0.114
29-May-15	0.098	0.115	0.107	0.106	0.102	0.102	0.109	0.112	0.107	0.099	0.114	0.106	0.097	0.113	0.108	0.120
30-May-15	0.125	0.122	0.105	0.123	0.095	0.101	0.105	0.103	0.103	0.103	0.108	0.116	0.097	0.108	0.106	0.108
31-May-15	Sunday															



Vibration Monitoring Record (June 2015)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 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-15	0.119	0.105	0.109	0.152	0.105	0.108	0.106	0.108	0.103	0.141	0.103	0.108	0.102	0.105	0.154	0.113
02-Jun-15	0.106	0.113	0.110	0.120	0.104	0.107	0.118	0.105	0.109	0.114	0.115	0.102	0.092	0.106	0.122	0.110
03-Jun-15	0.101	0.113	0.159	0.133	0.102	0.102	0.104	0.108	0.105	0.107	0.108	0.105	0.083	0.111	0.103	0.118
04-Jun-15	0.108	0.121	0.112	0.119	0.104	0.098	0.114	0.110	0.105	0.101	0.103	0.108	0.102	0.103	0.109	0.107
05-Jun-15	0.101	0.113	0.112	0.105	0.107	0.105	0.106	0.106	0.103	0.110	0.105	0.105	0.103	0.119	0.104	0.103
06-Jun-15	0.108	0.106	0.165	0.113	0.120	0.103	0.108	0.110	0.109	0.105	0.132	0.092	0.083	0.122	0.106	0.132
07-Jun-15	Sunday															
08-Jun-15	0.110	0.105	0.113	0.119	0.102	0.105	0.109	0.116	0.101	0.110	0.092	0.108	0.096	0.119	0.112	0.103
09-Jun-15	0.106	0.099	0.105	0.112	0.096	0.106	0.108	0.105	0.106	0.101	0.106	0.102	0.105	0.110	0.115	0.105
10-Jun-15	0.103	0.111	0.106	0.108	0.100	0.103	0.113	0.132	0.105	0.119	0.103	0.105	0.100	0.105	0.119	0.110
11-Jun-15	0.105	0.114	0.108	0.118	0.115	0.113	0.102	0.111	0.108	0.120	0.114	0.101	0.106	0.117	0.121	0.119
12-Jun-15	0.109	0.106	0.105	0.120	0.101	0.103	0.121	0.105	0.100	0.106	0.102	0.105	0.088	0.105	0.111	0.105
13-Jun-15	0.105	0.102	0.101	0.129	0.105	0.102	0.105	0.109	0.093	0.117	0.108	0.105	0.083	0.113	0.108	0.110
14-Jun-15	Sunday															
15-Jun-15	0.104	0.107	0.105	0.113	0.105	0.110	0.103	0.104	0.100	0.110	0.105	0.108	0.095	0.107	0.115	0.107
16-Jun-15	0.107	0.105	0.112	0.118	0.105	0.096	0.104	0.106	0.103	0.103	0.105	0.105	0.098	0.122	0.107	0.105
17-Jun-15	0.105	0.108	0.106	0.121	0.106	0.103	0.108	0.112	0.105	0.110	0.109	0.105	0.105	0.118	0.113	0.110
18-Jun-15	0.109	0.105	0.109	0.115	0.109	0.100	0.103	0.105	0.101	0.132	0.104	0.103	0.090	0.113	0.109	0.119
19-Jun-15	0.103	0.102	0.130	0.107	0.101	0.091	0.111	0.103	0.103	0.102	0.107	0.102	0.092	0.105	0.106	0.105
20-Jun-15	Public Holiday															
21-Jun-15	Sunday															
22-Jun-15	0.102	0.110	0.108	0.113	0.105	0.093	0.103	0.101	0.107	0.111	0.108	0.103	0.100	0.103	0.110	0.103
23-Jun-15	0.105	0.101	0.103	0.105	0.097	0.090	0.107	0.105	0.109	0.103	0.111	0.104	0.086	0.111	0.104	0.110
24-Jun-15	0.103	0.109	0.109	0.117	0.103	0.100	0.105	0.109	0.103	0.109	0.104	0.114	0.092	0.118	0.113	0.105
25-Jun-15	0.109	0.103	0.102	0.128	0.108	0.096	0.103	0.101	0.105	0.105	0.101	0.109	0.101	0.110	0.108	0.110
26-Jun-15	0.101	0.100	0.098	0.111	0.102	0.093	0.107	0.097	0.100	0.103	0.109	0.107	0.092	0.106	0.103	0.106
27-Jun-15	0.103	0.103	0.109	0.107	0.100	0.084	0.102	0.105	0.105	0.104	0.087	0.108	0.095	0.120	0.105	0.103
28-Jun-15	Sunday															
29-Jun-15	0.105	0.100	0.103	0.151	0.107	0.091	0.106	0.103	0.101	0.103	0.109	0.107	0.093	0.109	0.109	0.115
30-Jun-15	0.107	0.103	0.108	0.120	0.104	0.103	0.103	0.101	0.107	0.101	0.103	0.115	0.100	0.102	0.103	0.111



Vibration Monitoring Record (July)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 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-15	Public Holiday															
02-Jul-15	0.101	0.109	0.103	0.117	0.105	0.101	0.103	0.105	0.103	0.109	0.102	0.101	0.092	0.115	0.107	0.106
03-Jul-15	0.103	0.102	0.102	0.112	0.104	0.090	0.101	0.103	0.101	0.101	0.112	0.109	0.100	0.110	0.120	0.105
04-Jul-15	0.103	0.105	0.107	0.119	0.103	0.083	0.105	0.100	0.100	0.103	0.107	0.106	0.101	0.105	0.105	0.113
05-Jul-15	Sunday															
06-Jul-15	0.105	0.104	0.097	0.105	0.100	0.095	0.101	0.107	0.100	0.103	0.108	0.103	0.092	0.108	0.103	0.109
07-Jul-15	0.101	0.109	0.103	0.110	0.102	0.100	0.103	0.109	0.107	0.103	0.109	0.101	0.092	0.105	0.107	0.105
08-Jul-15	0.106	0.102	0.108	0.123	0.102	0.103	0.106	0.105	0.103	0.108	0.104	0.109	0.098	0.109	0.105	0.108
09-Jul-15	0.102	0.109	0.100	0.113	0.106	0.100	0.102	0.103	0.108	0.109	0.103	0.107	0.101	0.101	0.109	0.113
10-Jul-15	0.108	0.108	0.101	0.108	0.103	0.108	0.100	0.098	0.105	0.105	0.109	0.105	0.092	0.107	0.101	0.109
11-Jul-15	0.103	0.105	0.106	0.117	0.105	0.110	0.101	0.083	0.101	0.109	0.107	0.115	0.100	0.105	0.115	0.108
12-Jul-15	Sunday															
13-Jul-15	0.094	0.103	0.112	0.105	0.112	0.095	0.109	0.099	0.110	0.111	0.109	0.099	0.106	0.112	0.102	0.111
14-Jul-15	0.105	0.109	0.101	0.118	0.102	0.086	0.105	0.107	0.103	0.106	0.098	0.101	0.076	0.106	0.109	0.129
15-Jul-15	0.106	0.105	0.109	0.110	0.105	0.091	0.103	0.105	0.105	0.106	0.103	0.108	0.100	0.104	0.106	0.108
16-Jul-15	0.101	0.103	0.105	0.107	0.101	0.103	0.106	0.105	0.100	0.109	0.102	0.105	0.100	0.106	0.109	0.105
17-Jul-15	0.097	0.095	0.103	0.101	0.105	0.097	0.102	0.101	0.109	0.101	0.107	0.101	0.097	0.103	0.103	0.112
18-Jul-15	0.102	0.109	0.103	0.122	0.106	0.084	0.109	0.103	0.101	0.109	0.101	0.108	0.089	0.107	0.102	0.109
19-Jul-15	Sunday															
20-Jul-15	0.105	0.106	0.100	0.119	0.100	0.096	0.105	0.101	0.103	0.103	0.100	0.108	0.091	0.101	0.106	0.105
21-Jul-15	0.112	0.107	0.105	0.137	0.102	0.100	0.109	0.103	0.096	0.107	0.102	0.103	0.092	0.112	0.105	0.109
22-Jul-15	0.109	0.103	0.108	0.151	0.107	0.103	0.107	0.105	0.105	0.108	0.109	0.101	0.095	0.109	0.103	0.103
23-Jul-15	0.104	0.108	0.105	0.123	0.109	0.101	0.103	0.105	0.108	0.102	0.105	0.106	0.097	0.115	0.112	0.108
24-Jul-15	0.103	0.102	0.112	0.108	0.105	0.105	0.105	0.101	0.100	0.107	0.101	0.102	0.087	0.112	0.104	0.103
25-Jul-15	0.101	0.105	0.103	0.115	0.105	0.099	0.102	0.107	0.106	0.109	0.101	0.102	0.075	0.107	0.106	0.108
26-Jul-15	Sunday															
27-Jul-15	0.109	0.103	0.108	0.110	0.109	0.102	0.101	0.105	0.095	0.109	0.102	0.101	0.097	0.102	0.109	0.105
28-Jul-15	0.103	0.108	0.102	0.109	0.104	0.103	0.100	0.103	0.102	0.102	0.107	0.100	0.092	0.100	0.103	0.109
29-Jul-15	0.122	0.118	0.105	0.100	0.103	0.119	0.124	0.110	0.106	0.125	0.123	0.122	0.101	0.102	0.125	0.119
30-Jul-15	0.107	0.102	0.106	0.152	0.102	0.105	0.106	0.103	0.108	0.109	0.105	0.102	0.103	0.095	0.107	0.107
31-Jul-15	0.102	0.109	0.101	0.109	0.106	0.103	0.106	0.105	0.103	0.103	0.100	0.105	0.089	0.100	0.109	0.103



Vibration Monitoring Record (August)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 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-Aug-15	0.106	0.100	0.109	0.135	0.110	0.105	0.101	0.101	0.100	0.109	0.102	0.103	0.082	0.108	0.102	0.105
02-Aug-15	Sunday															
03-Aug-15	0.109	0.102	0.105	0.107	0.100	0.093	0.109	0.102	0.102	0.108	0.102	0.102	0.086	0.105	0.105	0.109
04-Aug-15	0.105	0.109	0.103	0.112	0.102	0.086	0.100	0.107	0.103	0.102	0.108	0.105	0.095	0.105	0.102	0.105
05-Aug-15	0.101	0.097	0.100	0.108	0.103	0.099	0.102	0.098	0.107	0.111	0.110	0.099	0.098	0.098	0.111	0.102
06-Aug-15	0.103	0.113	0.106	0.101	0.108	0.112	0.105	0.102	0.100	0.101	0.097	0.104	0.094	0.102	0.106	0.105
07-Aug-15	0.105	0.101	0.107	0.119	0.102	0.100	0.109	0.105	0.094	0.104	0.108	0.102	0.100	0.114	0.104	0.107
08-Aug-15	0.102	0.109	0.106	0.105	0.105	0.105	0.105	0.103	0.092	0.103	0.107	0.105	0.092	0.101	0.107	0.110
09-Aug-15	Sunday															
10-Aug-15	0.101	0.109	0.102	0.142	0.102	0.103	0.101	0.102	0.100	0.103	0.106	0.108	0.097	0.102	0.103	0.105
11-Aug-15	0.105	0.102	0.107	0.118	0.105	0.101	0.105	0.105	0.103	0.103	0.109	0.102	0.098	0.117	0.115	0.106
12-Aug-15	0.103	0.109	0.104	0.112	0.102	0.092	0.110	0.107	0.105	0.109	0.105	0.100	0.102	0.109	0.104	0.103
13-Aug-15	0.101	0.105	0.102	0.109	0.104	0.099	0.104	0.102	0.100	0.100	0.105	0.106	0.107	0.103	0.107	0.105
14-Aug-15	0.105	0.107	0.103	0.127	0.103	0.083	0.109	0.105	0.095	0.107	0.102	0.107	0.109	0.107	0.103	0.109
15-Aug-15	0.105	0.105	0.107	0.129	0.101	0.092	0.105	0.102	0.103	0.103	0.106	0.102	0.100	0.109	0.106	0.102
16-Aug-15	Sunday															
17-Aug-15	0.106	0.109	0.107	0.113	0.105	0.081	0.109	0.101	0.102	0.105	0.100	0.107	0.105	0.105	0.104	0.107
18-Aug-15	0.109	0.105	0.101	0.105	0.101	0.087	0.105	0.103	0.105	0.107	0.098	0.103	0.105	0.107	0.105	0.103
19-Aug-15	0.103	0.107	0.105	0.110	0.107	0.095	0.112	0.105	0.107	0.105	0.104	0.106	0.100	0.102	0.103	0.105
20-Aug-15	0.101	0.109	0.102	0.115	0.112	0.088	0.104	0.100	0.101	0.100	0.107	0.102	0.105	0.105	0.105	0.109
21-Aug-15	0.101	0.106	0.107	0.109	0.105	0.086	0.107	0.102	0.103	0.101	0.103	0.107	0.106	0.107	0.109	0.103
22-Aug-15	0.103	0.105	0.101	0.110	0.109	0.092	0.111	0.102	0.105	0.105	0.108	0.101	0.105	0.104	0.102	0.105
23-Aug-15	Sunday															
24-Aug-15	0.113	0.108	0.097	0.110	0.099	0.099	0.113	0.106	0.111	0.102	0.097	0.096	0.097	0.099	0.107	0.101
25-Aug-15	0.105	0.102	0.106	0.113	0.106	0.086	0.102	0.105	0.107	0.108	0.102	0.107	0.102	0.101	0.101	0.105
26-Aug-15	0.108	0.105	0.101	0.109	0.105	0.089	0.105	0.100	0.102	0.108	0.103	0.100	0.098	0.105	0.105	0.103
27-Aug-15	0.099	0.091	0.111	0.112	0.107	0.090	0.102	0.099	0.105	0.108	0.105	0.102	0.104	0.113	0.104	0.111
28-Aug-15	0.115	0.095	0.102	0.116	0.101	0.104	0.103	0.097	0.110	0.101	0.104	0.104	0.101	0.098	0.099	0.101
29-Aug-15	0.102	0.106	0.098	0.104	0.103	0.108	0.101	0.099	0.114	0.102	0.095	0.102	0.108	0.099	0.102	0.104
30-Aug-15	Sunday															
31-Aug-15	0.109	0.101	0.102	0.112	0.104	0.103	0.109	0.105	0.105	0.102	0.108	0.105	0.097	0.107	0.102	0.105



Vibration Monitoring Record (September)

	Block 1		Block 2	Block 3		Block 4	Block 6 & 7		Block 9	Block 11		Block 12		Block 13	Block 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-Sep-15	0.101	0.105	0.106	0.109	0.115	0.097	0.101	0.097	0.097	0.107	0.102	0.103	0.099	0.104	0.105	0.109
02-Sep-15	0.105	0.096	0.103	0.107	0.106	0.085	0.112	0.099	0.103	0.107	0.109	0.102	0.112	0.112	0.107	0.102
03-Sep-15	Holiday															
04-Sep-15	0.102	0.100	0.107	0.108	0.110	0.092	0.105	0.107	0.095	0.104	0.117	0.106	0.102	0.102	0.102	0.101
05-Sep-15	0.107	0.102	0.105	0.115	0.104	0.086	0.107	0.101	0.101	0.100	0.109	0.102	0.103	0.105	0.107	0.105
06-Sep-15	Sunday															
07-Sep-15	0.109	0.105	0.107	0.117	0.105	0.097	0.105	0.102	0.106	0.107	0.103	0.105	0.100	0.100	0.104	0.107
08-Sep-15	0.102	0.107	0.102	0.128	0.109	0.092	0.101	0.107	0.103	0.101	0.112	0.103	0.103	0.105	0.107	0.101
09-Sep-15	0.106	0.102	0.108	0.106	0.105	0.105	0.107	0.102	0.107	0.106	0.119	0.103	0.107	0.109	0.109	0.105
10-Sep-15	0.100	0.106	0.105	0.115	0.103	0.095	0.109	0.105	0.101	0.102	0.112	0.106	0.105	0.102	0.102	0.104
11-Sep-15	0.107	0.102	0.100	0.109	0.104	0.103	0.103	0.097	0.096	0.109	0.101	0.105	0.107	0.104	0.107	0.107
12-Sep-15	0.103	0.109	0.102	0.123	0.105	0.100	0.107	0.102	0.112	0.109	0.102	0.101	0.098	0.109	0.103	0.105
13-Sep-15	Sunday															
14-Sep-15	0.103	0.107	0.105	0.108	0.100	0.096	0.106	0.106	0.109	0.102	0.105	0.102	0.101	0.102	0.106	0.101
15-Sep-15	0.109	0.103	0.101	0.107	0.103	0.105	0.105	0.101	0.103	0.108	0.102	0.103	0.106	0.129	0.101	0.103
16-Sep-15	0.105	0.101	0.106	0.110	0.103	0.103	0.102	0.100	0.105	0.100	0.109	0.109	0.099	0.112	0.105	0.109
17-Sep-15	0.103	0.100	0.109	0.107	0.108	0.099	0.105	0.102	0.101	0.102	0.107	0.103	0.104	0.105	0.107	0.100
18-Sep-15	0.109	0.102	0.105	0.109	0.102	0.107	0.102	0.105	0.103	0.107	0.102	0.105	0.105	0.105	0.101	0.108
19-Sep-15	0.101	0.105	0.102	0.105	0.109	0.095	0.105	0.100	0.100	0.106	0.108	0.101	0.106	0.101	0.103	0.101
20-Sep-15	Sunday															
21-Sep-15	0.106	0.108	0.101	0.114	0.102	0.103	0.102	0.105	0.109	0.101	0.106	0.102	0.101	0.104	0.102	0.109
22-Sep-15	0.102	0.105	0.104	0.108	0.105	0.097	0.107	0.103	0.103	0.112	0.107	0.102	0.092	0.105	0.104	0.102
23-Sep-15	0.109	0.102	0.110	0.105	0.107	0.088	0.105	0.101	0.101	0.105	0.107	0.105	0.084	0.109	0.102	0.102
24-Sep-15	0.101	0.107	0.102	0.109	0.103	0.107	0.102	0.107	0.103	0.102	0.119	0.103	0.100	0.116	0.100	0.105
25-Sep-15	0.103	0.100	0.105	0.109	0.107	0.103	0.105	0.102	0.105	0.103	0.109	0.102	0.102	0.125	0.102	0.107
26-Sep-15	0.101	0.106	0.107	0.115	0.106	0.092	0.102	0.109	0.100	0.103	0.107	0.103	0.097	0.137	0.107	0.101
27-Sep-15	Sunday															
28-Sep-15	Holiday															
29-Sep-15	0.109	0.102	0.102	0.107	0.103	0.076	0.103	0.100	0.102	0.100	0.105	0.100	0.082	0.104	0.102	0.106
30-Sep-15	0.103	0.105	0.102	0.112	0.100	0.091	0.105	0.103	0.105	0.107	0.105	0.102	0.109	0.102	0.107	0.105



Point	Block 1		Block 11	
	VM1-1	VM1-2	VM11-1	VM11-2
Date	mm/s	mm/s	mm/s	mm/s
01-Oct-15	Holiday			
02-Oct-15	0.094	0.103	0.101	0.107
03-Oct-15	0.099	0.100	0.102	0.108
04-Oct-15	Sunday			
05-Oct-15	0.107	0.105	0.103	0.102
06-Oct-15	0.100	0.101	0.103	0.116
07-Oct-15	0.103	0.107	0.100	0.107
08-Oct-15	0.095	0.096	0.092	0.103
09-Oct-15	0.103	0.109	0.109	0.102
10-Oct-15	0.100	0.105	0.107	0.102
11-Oct-15	Sunday			
12-Oct-15	0.105	0.106	0.109	0.105
13-Oct-15	0.101	0.107	0.105	0.107
14-Oct-15	0.103	0.100	0.104	0.121
15-Oct-15	0.098	0.103	0.104	0.108
16-Oct-15	0.102	0.095	0.103	0.104
17-Oct-15	0.105	0.102	0.104	0.102
18-Oct-15	Sunday			
19-Oct-15	0.096	0.101	0.101	0.106
20-Oct-15	0.104	0.106	0.096	0.101
21-Oct-15	Holiday			
22-Oct-15	0.107	0.102	0.109	0.122
23-Oct-15	0.102	0.105	0.109	0.105
24-Oct-15	0.096	0.100	0.109	0.105
25-Oct-15	Holiday			
26-Oct-15	/	/	0.101	0.104
27-Oct-15	/	/	0.107	0.102
28-Oct-15	/	/	0.103	0.109
29-Oct-15	/	/	0.103	0.107
30-Oct-15	/	/	0.108	0.105
31-Oct-15	/	/	0.102	0.104

Annex M

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

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

Date of Audit	Comments / Remarks
3-7, 10-14, 17-21 and 24-27 November 2014	<ul style="list-style-type: none"> • It was observed that the historic painted sign and facing brickwork had been damaged by concrete pouring down from the first floor window; • It was observed that the painted sign to Block 4 south elevation had been sprayed with red paint. The painted sign should be protected; • It was observed that the existing infill brickwork to Block 4 windows and doors were not supported after the removal of the window and door frames; and • Cigarette ends were observed on first floor of Block 2. The Contractor was reminded to remove the cigarette ends and that smoking is not allowed in buildings.
1-5, 8-12, 15-20 and 29-31 December 2014	<ul style="list-style-type: none"> • It was observed that the brick infills to Block 1 light well timber louvre locations were not carried out in accordance with the contract documents; • It was observed that some new openings in Block 3 did not have adequate end bearing supporting for lintels; • Debris and cigarette ends were found in Block 9. The Contractor was reminded to remove the cigarette ends and that smoking is not allowed in buildings; and • It was observed that the Block 8 west scaffold was built by fixing into the existing facing brickwork wall, causing damage to the historic fabric.
2, 5-9, 12-16, 19-23 and 26-30 January 2015	<ul style="list-style-type: none"> • Improvement is required for the window putty application, metal work brackets, bolts, protection and grouting workmanship in general; • It was observed that the works package contractor was painting the interior brickwork in Block 1 when instructed not to do so; • It was observed that the ceiling was being decorated without rectifying all the repair defects; • It was observed that the finish of tiling was very irregular and did not comply with the specifications; • It was observed that the sunken slabs to Block 9 first floor were filled with water; • It was observed that the surface finish to new handrail of Block 1 did not comply with contract documents; and • The new base plate fixings to Block 1 Staircase 02 new balustrades were observed to be using a different type of bolt which did not comply with contract document.
2-6, 9-13, 16-19 and 23-27 February 2015	<ul style="list-style-type: none"> • Lack of protection was observed for the painted sign in Block 4; • It was observed that the mirrors installed in toilets of Block 1 lower ground floor did not conform with the specification; • It was observed that the worker was repairing render immediately adjacent to un-cleaned granite. However, it was reminded that the granite should be cleaned prior to undertaking render repairs;

Date of Audit	Comments / Remarks
	<ul style="list-style-type: none"> • It was observed that a window louvre in Block 1 was installed smaller than the opening size; and • It was observed that the painted sign “D Hall” to Block 14 was missing.
2-6, 9-13, 16-20, 23-27 and 30-31 March 2015	<ul style="list-style-type: none"> • Workmanship issues regarding the installation to metal doors and louvres were observed in Block 1; and • Numerous workers have been observed smoking in Block 2. The Contractor was notified and all workers should be reminded that smoking is not permitted within buildings.
1-2, 8-10, 13-17, 20-24, 27-30 April 2015	<ul style="list-style-type: none"> • It was observed that Block 11 and Block 13 were lack of weather protection; • Lack of protection to existing tiled fireplace hearths in Block 3 was observed; • It was observed that the installation of sprinkler pipe to the ceilings was not in accordance with the approved drawings; • Workers have been observed smoking in Block 9. The Contractor was notified and all workers should be reminded that smoking is not permitted within buildings; • The brick voussairs to Block 2 south elevation were damaged during window installation; and • Large quantities of materials were observed being stored on the rooftop of Block 17 that could damage the screed.
4-8, 11-15, 19-21 May 2015	<ul style="list-style-type: none"> • Fire services installation was observed incorrect at 2/F Block 14; • Waterproofing was not yet applied to Block 13 flat roof for protection from heavy rain; • Cigarette butts were observed at Block 3. The Contractor was notified and all workers should be reminded that smoking is not permitted within buildings; and • Water ingress within the courtroom of Block 9 was observed due to lack of waterproofing on the flat roofs.
1-5, 8-12, 15-19, 22-25, and 29-30 June 2015	<ul style="list-style-type: none"> • It was observed that the external E&M openings to the revetment wall at Block 8 were not formed in accordance with Contractor’s method statement; • It was observed that workmanship needs to be improved for the new metal and glass doors installation at Block 1; • Cigarette butts were observed at Block 9. The Contractor was notified and all workers should be reminded that smoking is not permitted within buildings; and • One structural grid beam was not installed in accordance with the approved shop drawings at first floor of Block 3.
1-3, 6-10, 13-17, 20-24, 27-31 July 2015	<ul style="list-style-type: none"> • Facing brickwork at Block 8 was observed damaged due to housekeeping issues; • Lack of protection was observed to the timber window and door at Block 9;

Date of Audit	Comments / Remarks
	<ul style="list-style-type: none"> • Improvement of workmanship is required for internal wall repairs on second floor of Block 14; • It was observed that the timber casements were installed incorrectly to louvre windows at Block 3; • Two vent pipes at Block 15 were observed not installed in accordance with the contract documents; and • Gutter at Block 6 was observed not installed in accordance with the contract documents.
4-6, 11, 12, 14, 17, 20, 24-28 and 31 August 2015	<ul style="list-style-type: none"> • Towngas pipes at Block 9 were observed not installed in accordance with the materials submission; • Chiller water pipe at Block 3 was observed not installed in accordance with the materials submission; and • Numerous defects of timber shutter at Block 3 were observed.
1-4, 7-11, 14-18, 21-25, 28-30 September 2015	<ul style="list-style-type: none"> • All shutter stays were observed rusted at Block 3; • Paint spills were observed on third floor façade of Block 3 due to lack of protection when decorating shutters; • Three historic rainwater hoppers from Block 3 were observed missing; • The catwalk at Block 3 was observed not installed in accordance with the approved drawings.
1-2, 6-9, 12-16, 19-23, 26-28 October 2015	<ul style="list-style-type: none"> • A worker was observed smoking at Block 15; • Lack of protection was observed to the installed timber doors at Block 3 first floor west wing; • A worker was observed smoking at Block 3.

This Site Memorandum confirms a variation of the Works following oral instructions, an inspection of site operations or the issuance of new or revised documents for construction. Unless stated otherwise, it shall be treated as an Instruction to carry out works as authorised by Architects Instruction F-620 dated 12 March 2014. Where applicable, it includes provision for distribution to all relevant members of the client/design/construction team and the Antiquities and Monuments Office.

**Site Memorandum
No. 459**

Date: 4 December 2014

To: Gammon Construction Limited For the attention of: Cliff Leung

Subject: Non-compliance, damage to existing facing brickwork and historic painted signs to Blocks 04, 11 and 15

A.I. no: **Not Applicable**

NON-COMPLIANCE WITH CONTRACT DOCUMENTS

- a) On 1st August 2014 it was observed that the recasting of the concrete roof slab to Block 11 had been carried out by the works package contractor without adequate protection to the brickwork façade and historic painted sign. Damage to heritage fabric has been caused. The Management Contractor was notified by Purcell.

- b) During our inspection of Building 15 facades with GCL on 28th October 2014, it was observed that no protection had been provided to the existing painted sign 'E Hall' on the west elevation. It was observed that a works package contractor had spilt concrete down the face of the west façade whilst transporting concrete through the window to re-cast the floors. This has caused damage to the brickwork and painted sign and is likely to ultimately cause the loss of the historic painted sign.

(Continue over leaf)

Heritage Impact: YES, built/archaeological heritage will be affected (please specify):
Damage has been caused to CDE's.

Proposed Mitigation Measures: YES (please specify):
Instruct Contractor to comply with Contract Documents. Assess extent of damages and propose proposals for rectification.

Justification: N/A

Variation: N	RLB Cost estimate: HKD Initials: Date:	JCCPS approved/rejected Initials: Date:
Cost implication: N		

Copies to:

√	Employer	JCCPS	√	Structural Eng	Arup		
√	Quantity Surveyor	RLB	√	Services Eng	JRP	√	Environmental Management ERM
√	Contract Administrator	RDA	√	Design Consultant	HdM	√	Antiquities & Monuments Office AMO
√	Resident Architect	RDA				√	For Purcell

Continuation Page

- c) During our joint survey inspection to Building 04 south elevation on 11th November 2014, it was observed that the CDE- painted sign has no protection. Moreover, the works package contractor has damaged the painted sign with their red paint. Loss of the painted sign is likely in order to clean off the red paint.

The Management Contractor and Works Package Contractors are required to:

1. Review and revise the work practices of the works package contractors.
2. Supervise the work operations to ensure compliance with the Contract Documents.
3. Advise how monitoring procedures are being carried out by the Management Contractor.
4. Assess the extent of any damage and submit proposals to rectify the damage at no cost to the contract.

For information

Schedule of Character Defining Elements

11.003	Painted signs		High	Protect in situ	Not applicable	N/A
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128

June 2013 Draft 11
 Purcell Miller Tritton LLP

04.014	Painted signs		High	Protect in situ	Not applicable	N/A
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C40/103* PROTECTION

- Surfaces not designated for cleaning;
 - Prevent damage including marking and staining.
- Openings;
 - Prevent ingress of water, cleaning agents and detritus.
 - Seek instructions prior to sealing vents and grilles.
- Temporary mechanical fastenings;
 - In masonry: Located in joints;
 - In other surfaces: Seek instructions.
- **Additional protection: Painted signs.**



Block 11 South Elevation west return, photo was taken on 01/08/2014.



Block 15 West Elevation, photo was taken on 03/11/2014.



Block 04 South Elevation, photo was taken on 11/11/2014.

Block Specific Protection Schedule for Block 04 & 11 & 15. Prepared by the Management Contractor.

Item K. Painted signs. All floors. Protect in situ. To be covered / protected with plastic sheet at the construction works stage. Item M of the General Protection Schedule refers.

Item M of the General Protection. Prepared by the Management Contractor.**Painted Signs**

1. The general condition of the painted signs shall be checked for defects and recorded in the condition survey report.
2. The painted signs shall be protected by covering with transparent plastic sheet fixed by light duty type adhesive tape.
3. The protection works shall be checked by the "site agent responsible for the building".

Monitoring Proposal for all Historic Buildings at all stages. Prepared by the Management Contractor.

2.2.1.4 The Management Contractor, and all Works Contractors appointed by them, shall adequately protect all parts of the historical buildings and site features against the risk of damage throughout the duration of the works. The overall management of the protection works is the responsibility of the Management Contractor, specific protection works for identified work trade(s) or area(s) shall be carried out by the respective Works Contractors. A description of the scope of protection and the method of installing, maintaining and removing it shall be a condition of appointment of each Works Contractor.

2.2.1.5 The respective Works Contractors (or tenderers before appointment) are required to comply with at least the requirements and guidelines of the protection methods as stated in this General Protection Schedule. A detail method statement and protective measures describing the protection works shall be prepared by each of the respective Works Contractors and approved by the Consultants / Management Contractor. Construction works shall not commence until the detail method statements and protective measures have been approved by the Consultants. The method statements and protective measures might be submitted to AMO via the Consultant for approval/agreement in accordance with Appendix A (2) (c) of the Environmental Permit (EP-408/2011)

2.2.2.9 The Conservation Architect and AMO will be informed immediately in case of any damage of the historic fabrics and items in the Full Inventory Lists, or any irregularities found in the monument sites in the course of construction works including the demolition and advance works. The corresponding remedial and repair proposal together with method statement will then be prepared and submitted to the Conservation Architect and AMO for prior approval before carrying out.

2.2.3.7 Continuous checking and patrolling to each of the buildings and external associated areas including the parade ground, the prison yard and access passages regularly by the responsible site agent of the Management Contractor. Protection checklist for each of the buildings is being adopted in facilitating the regular checking on the compliance of the protection works by the front line site staffs, with the template as attached in Annex IV.

2.2.3.8 No protection covering shall be removed until handover of area to client.

2.2.3.9 The protection covering shall be checked at weekly interval by the "site agent responsible for the building", and will be repaired / replaced as required.

2.2.4 Management Procedure for Protection Works.

Regular site inspection and audit for cultural heritage would be conducted throughout the construction period by the management team in order to ensure the conservation works methodologies and protective measures are properly implemented.

2.2.5 Handling Procedure of Non-Compliance Protection Works


When the Management Contractor received complaint regarding non-compliance or defective protection work from the consultant team or government authority, the complaint will be registered with particulars of the receipt date, time and details of the complaint. The Site Agent or the responsible Site Engineer will be informed and conduct a joint inspection with Works Contractor to investigate and determine the source and validity of the non-compliance.

If the non-compliance is not valid to the Works Contractor's site works, the Management Contractor will provide information with supporting information to the consultant team/ executive architect/ conservation architect/ site representatives.

If the non-compliance is found related to the Works Contractor's site works, the responsible Works Contractor will be notified and the related site works will be stopped immediately if they violates from the detail protective measures or the protection schedule.

Once the stop work order is issued, the Works Contractor is required to carry out appropriate rectification of the corresponding protection works. Construction works could be resumed after the rectification is completed and checked by the Management Contractor and Consultant site team to satisfaction. Continuous checking will be conducted to ensure the non-compliance will not re-occur after the rectification.

The Conservation Architect and AMO will be informed immediately in case of any damage to any item in the full inventory lists or any irregularities found in the monument site during the whole construction period. An incident report will be prepared and circulated to the concerned parties and subsequently to AMO, with recommended follow up actions which may include additional protection measures, precautionary measures and repair proposal, subject to the Conservation Architect and AMO comment.

<p>This Site Memorandum confirms a variation of the Works following oral instructions, an inspection of site operations or the issuance of new or revised documents for construction. Unless stated otherwise, it shall be treated as an Instruction to carry out works as authorised by Architects Instruction F-620 dated 12 March 2014. Where applicable, it includes provision for distribution to all relevant members of the client/design/construction team and the Antiquities and Monuments Office.</p>	<p style="text-align: center;">Site Memorandum No. 488</p> <p style="text-align: center;">Date: 29th January 2015</p>				
<p>To: Gammon Construction Limited For the attention of: Cliff Leung</p>					
<p>Subject: Non-compliance, Block 14, loss of historic fabric, 10 existing metal grilles on the south elevation have been tipped without approval</p>	<p>A.I. no: Not Applicable</p>				
<p>On 21st November 2014 Purcell was informed by Works Package Contractor 209 and GCL that 10 existing metal grilles on Block 14 South Elevation west wing may have been tipped.</p> <p>Following further investigations, on 11th December 2014 GCL confirmed to Purcell via email that existing metal grilles have been thrown away during the hacking off render work. (Refer to GCL email attached and GCL Non-conformance ref J3416/NSP/WP214A/015)</p> <p>GCL's photographic record survey dated 13 April 2012 records that there were 21 existing metal grilles to Block 14 South Elevation west wing. However, only 11 metal grilles have been handed to the Conservation Architect (see photo overleaf).</p> <p style="text-align: right;">(Continue over leaf)</p>					
<p>Heritage Impact: NIL / YES, built/archaeological heritage will be affected (please specify): Historic fabric has been lost.</p> <p>Proposed Mitigation Measures: NIL / YES (please specify): Instruct Contractor to comply with Contract Documents. Ensure that all measures to locate the missing metal grilles have been fully exhausted. If still cannot be located then new metal grilles are to be fabricated in same pattern using like for like materials.</p> <p>Justification: N/A</p>					
<p>Variation: N</p> <p>Cost implication: N</p>	<p>RLB Cost estimate: HKD Initials: Date:</p>	<p>JCCPS approved/rejected Initials: Date:</p>			
<p>Copies to:</p>					
√	Employer JCCPS	√	Structural Eng Arup		
√	Quantity Surveyor RLB	√	Services Eng JRP	√	Environmental Management ERM
√	Contract Administrator RDA	√	Design Consultant HdM	√	Antiquities & Monuments Office AMO
√	Resident Architect RDA			√	For Purcell 

Continuation Page

The Management Contractor and Works Package Contractors are required to:


1. Review and revise the work practices of the works package contractors and improve the hand over procedure of materials between works package contractors.
2. Supervise the work operations to ensure compliance with the Contract Documents.
3. Locate the missing metal grilles and advise the Conservation Architect accordingly so that an assessment of repairs can be confirmed.
4. If the metal grilles cannot be located advise the Conservation Architect and submit proposals to fabricate 10 new metal grilles to match the existing pattern in like for like materials at neutral cost to the contract.

For information:

- Refer to Site memo 380A dated 29.01.15 with photos records taken on August 2014;
- Refer to photographs attached taken from Management Contractor photo record survey report dated 13 April 2012 showing the metal grilles;
- Refer to attached email confirmation from GCL on 11th December 2014 about missing metal grilles during the works.



- 11 Existing Metal grilles from Block 14 South Elevation west part (handed over by GCL on 21st November 2014)

<p>This Site Memorandum confirms a variation of the Works following oral instructions, an inspection of site operations or the issuance of new or revised documents for construction. Unless stated otherwise, it shall be treated as an Instruction to carry out works as authorised by Architects Instruction F-620 dated 12 March 2014. Where applicable, it includes provision for distribution to all relevant members of the client/design/construction team and the Antiquities and Monuments Office.</p>		<p>Site Memorandum No. 519</p> <p>Date: 2 February 2015</p>	
<p>To: Gammon Construction Limited For the attention of: Cliff Leung</p>			
<p>Subject: Non-compliance: Loss of Historic Fabric, Block 9 Rain Water Pipe Fixing Holderbats</p>		<p>A.I. no: Not Applicable</p>	
<p>NON-COMPLIANCE WITH CONTRACT DOCUMENTS</p> <p>During our inspections of 30 July 2014 (ref. CPS-IR-WP202-BLK09-001-R) and 23 September 2014 (ref. CPS-IR-WP601-PD-BLK9-099) of the existing rain water goods to Block 9, we observed that the existing cast iron fixing holderbatts were missing after the removal from the building.</p> <p>On the inspection form we requested that Management Contractor / Works Package Contractor locate the missing holderbatts and report to the Conservation Architect. On January 21 2015 we received the summary table from WP212 listing the saved rainwater goods. The holderbatts are not listed on their summary table.</p> <p>On 30 January 2015 the Management Contractor confirmed that the existing holderbatts have been tipped without permission or have been lost during the hand over between Works Package contractors. Out of eleven existing rainwater pipes (approximately eighty sections) only two holderbatts have been saved.</p> <p style="text-align: right;">Continued overleaf.</p>			
<p>Heritage Impact: YES, built/archaeological heritage will be affected (please specify): Historic fabric has been lost.</p> <p>Proposed Mitigation Measures: YES (please specify): Instruct Contractor to comply with Contract Documents. Fabricate new holderbatts in same pattern using like for like materials.</p> <p>Justification: N/A</p>			
<p>Variation: N</p> <p>Cost implication: N</p>		<p>RLB Cost estimate: HKD Initials: Date:</p>	<p>JCCPS approved/rejected Initials: Date:</p>
<p>Copies to:</p>			
√	Employer JCCPS	√	Structural Eng Arup
√	Quantity Surveyor RLB	√	Services Eng JRP
√	Contract Administrator RDA	√	Design Consultant HdM
√	Resident Architect RDA		For Purcell 

Continuation Page

The Management Contractor and Works Package Contractors are required to:

1. Review and revise the work practices of the works package contractors and improve the hand over procedure of materials between works package contractors.
2. Supervise the work operations to ensure compliance with the Contract Documents.
3. Works package contractor is to submit rectification proposals to the Conservation Architect. We would suggest new holderbats are fabricated in cast iron to match the same pattern as the existing using like for like materials, all in accordance with the Specification and BS460: 2002. (Quantities are to be confirmed with the Conservation Architect prior to any fabrication).

For information:

Extract from Block 9 External Repair Schedule 09-PMT232888-SCH-350-6 issued 12 September 2012 as part of the Contract Documents.

Work Item	Location	Drawing Reference	NBS	Repair
037	North Elevation	09-PMT232888-EWR-300	R10/602	Take off, descale, repaint and reinstate rainwater pipe
099	North Elevation	09-PMT232888-EWR-300	R10/602	Take off, descale, repaint and reinstate rainwater pipe
209	South Elevation	09-PMT232888-EWR-301	R10/602	Take off, descale, repaint and reinstate rainwater pipe
225	South Elevation	09-PMT232888-EWR-301	R10/602	Take off, descale, repaint and reinstate rainwater pipe
269	West Elevation	09-PMT232888-EWR-303	R10/602	Take off, descale, repaint and reinstate rainwater pipe
294	West Elevation	09-PMT232888-EWR-303	R10/602	Take off, descale, repaint and reinstate rainwater pipe
296	West Elevation	09-PMT232888-EWR-303	R10/602	Take off, descale, repaint and reinstate rainwater pipe
298	West Elevation	09-PMT232888-EWR-303	R10/602	Take off, descale, repaint and reinstate rainwater pipe
515	Lightwell East Elevation	09-PMT232888-EWR-304	R10/602	Take off, descale, repaint and reinstate rainwater pipe
550	Lightwell West Elevation	09-PMT232888-EWR-304	R10/602	Take off, descale, repaint and reinstate rainwater pipe
568	Lightwell West Elevation	09-PMT232888-EWR-304	R10/602	Take off, descale, repaint and reinstate rainwater pipe

Specification for descaling, repainting and reinstating existing rainwater pipe issued to WP202, 212, 601 as part of the Contract Documents.

R10/602 DESCALING, DESCALE, REPAINT AND REINSTATE RAINWATER PIPE

- Carefully dismantle existing rainwater pipes, taking care not to cause damage to existing pipes, brackets or adjacent masonry. Remove pipes by unscrewing brackets, do not pull pipes from the wall.
- Inspect all pipes and joints for cracks or excessive corrosion and report any damage to the CA.
- Clean all dirt and debris from inside and outside the pipes and brackets, and brush down any flaking and corroded areas with a wire brush.
- Clean the brushed metal with turpentine.
- Treat the cleaned area with Phosphoric Acid: Muriatic Acid: Butoxyethanol - 2.5:2.5:1
- Redecorate as M60.
- Erect existing pipe sections using existing brackets supplemented with new.
- Reseal joints with cold caulking and touch up any areas of damaged paintwork.



Photo 09-Ext-229 General view of the brick wall at the staircase to Block 09 (21-11-2011)

Above, photograph taken from Management Contractor photo record survey report dated 21 November 2011 showing the fixing holderbats of RWP on Block 9 West Elevation.






Photo 09-Ext-182 General view of the metal downpipes (17-8-2011)

Above, photograph taken from Management Contractor photo record survey report dated 17 August 2011 showing the fixing holderbats of RWP on Block 9 South Elevation.



Above, photograph taken 30 September 2014 showing existing rain water goods from Block 9, only two holderbats were handed over, others assumed lost.

<p>This Site Memorandum confirms a variation of the Works following oral instructions, an inspection of site operations or the issuance of new or revised documents for construction. Unless stated otherwise, it shall be treated as an Instruction to carry out works as authorised by Architects Instruction F-620 dated 12 March 2014. Where applicable, it includes provision for distribution to all relevant members of the client/design/construction team and the Antiquities and Monuments Office.</p>	<p style="text-align: center;">Site Memorandum No. 522</p> <p style="text-align: center;">Date: 16 April 2015</p>																																	
<p>To: Gammon Construction Limited For the attention of: Cliff Leung</p>																																		
<p>Subject: Non-compliance: Block1 and 14, loss of CDE (painted signs).</p>	<p>A.I. no: Not applicable</p>																																	
<p>NON-COMPLIANCE WITH CONTRACT DOCUMENTS</p> <p>During an inspection to finishes of Block 1 Ground Floor north west balcony on 21st January 2015 it was observed that the historic signage '7' has been stripped off.</p> <p>27th February 2015, it was observed that the painted sign 'D Hall' to Block 14 South Elevation West end has been stripped off.</p> <p>All painted signs are identified as Character Defining Elements with high historical significance.</p> <p style="text-align: right;">(Continue overleaf)</p>																																		
<p>Heritage Impact: YES, built/archaeological heritage will be affected (please specify): Loss of CDE's (painted signs)</p> <p>Proposed Mitigation Measures: YES (please specify): Instruct the contractor to comply with Contract Documents. Assess the extent of damage and propose proposals for rectification.</p> <p>Justification: N/A</p>																																		
<p>Variation: N</p> <p>Cost implication: N</p>	<p>RLB Cost estimate: HKD Initials: Date:</p>	<p>JCCPS approved/rejected Initials: Date:</p>																																
<p>Copies to:</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">√</td> <td style="width: 25%;">Employer</td> <td style="width: 10%;">JCCPS</td> <td style="width: 5%; text-align: center;">√</td> <td style="width: 15%;">Structural Eng</td> <td style="width: 10%;">Arup</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td style="text-align: center;">√</td> <td>Quantity Surveyor</td> <td>RLB</td> <td style="text-align: center;">√</td> <td>Services Eng</td> <td>JRP</td> <td style="text-align: center;">√</td> <td>Environmental Management ERM</td> </tr> <tr> <td style="text-align: center;">√</td> <td>Contract Administrator</td> <td>RDA</td> <td style="text-align: center;">√</td> <td>Design Consultant</td> <td>HdM</td> <td style="text-align: center;">√</td> <td>Antiquities & Monuments Office AMO</td> </tr> <tr> <td style="text-align: center;">√</td> <td>Resident Architect</td> <td>RDA</td> <td></td> <td></td> <td></td> <td style="text-align: center;">√</td> <td>For Purcell </td> </tr> </table>	√	Employer	JCCPS	√	Structural Eng	Arup			√	Quantity Surveyor	RLB	√	Services Eng	JRP	√	Environmental Management ERM	√	Contract Administrator	RDA	√	Design Consultant	HdM	√	Antiquities & Monuments Office AMO	√	Resident Architect	RDA				√	For Purcell 
√	Employer	JCCPS	√	Structural Eng	Arup																													
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√	Contract Administrator	RDA	√	Design Consultant	HdM	√	Antiquities & Monuments Office AMO																											
√	Resident Architect	RDA				√	For Purcell 																											

Continuation Page

For information:

The Management Contractor and Works Package Contractors are required to:

1. Review and revise the work practices of the works package contractors.
2. Supervise the work operations to ensure compliance with the Contract Documents.
3. Advise how protection monitoring procedures are being carried out by the Management Contractor.
4. Assess the extent of any damage and submit proposals to rectify the damage at no cost to the contract.

Extract from the Schedule of Character Defining Elements dated June 2013. (as stated in the schedule, "each entry is accompanied by a photograph of a sample of the item described....similar examples of each item can be seen by observation")

01.023	Painted signs		High	Protect in situ	Not applicable	N/A
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June 2013 Draft 11
 Purcell Miller Tritton LLP

16

Extract from the Site Audit Report No. 036 dated 31st October 2014

Is protection of existing building adequate and effective?	5/10	No. For example; It was observed that the external painted sign to Building 14 was still without any protection after it was first reported on 30 th July 2014. 3 rd October 2014, and repeated again on 23 rd October, it was observed that there was no protection to the internal spaces on Block 14 during the demolition of the roof slab. The internal spaces at second floor level were saturated during a thunderstorm. This will likely cause damage to internal plaster and brickwork.
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Extract from the Site Audit Report No. 040 dated 28th February 2014

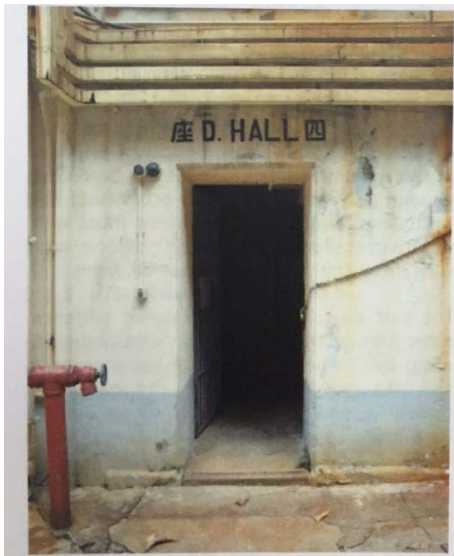
Is protection of existing building adequate and effective?	7/10	4 th February 2015, it was observed that the painted sign in Block 4 was not protected. GCL was informed and protection was installed. 27 th February 2015, it was observed that the painted sign 'D Hall' to Block 14 has now been lost. This is despite numerous reminders, including during the Site Audit Inspections. Heritage fabric has been lost.
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Before: photo was taken on 20th Jan 2011



After: Photo was taken on 21st Jan 2015



Before: Photo was taken before the construction works started. .



After: Photo was taken on 27th February 2015.

Schedule of Character Defining Elements

Central Police Station

CENTRAL POLICE STATION, HONG KONG

SCHEDULE OF CHARACTER DEFINING ELEMENTS

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

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

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

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

Schedule of Character Defining Elements

Central Police Station

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

Schedule of Character Defining Elements

Central Police Station

Addendum

Date



Item no. 10.029 edited entry
Item no. 10.030 added

18 June 2013
18 June 2013

Schedule of Character Defining Elements



Central Police Station

01 Police Headquarters

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.025	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	<p>Arrange new penetrations so that they conform with the geometry of the existing roof.</p> <p>Model the size and shape of the new ducts so that the impact on the roofscape is minimised.</p> <p>Finish the new ducts in a non-reflective material in a neutral mid-tone.</p>	High



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref	Significance	Proposal	Mitigation	Impact
01.031	Reinforced concrete canopy and sash windows		Moderate	Remove canopy and replace sash windows with new windows to match original	Make good brickwork where canopy removed, Reinstate rendered architraves around new window to match similar window facing on West wing	Moderate


Schedule of Character Defining Elements

Central Police Station

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

Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

02 Armoury

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



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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

Schedule of Character Defining Elements


Central Police Station

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

Schedule of Character Defining Elements


Central Police Station

03 Barracks Block

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



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
3.002	Panelled doors		Moderate	Replace where necessary to achieve fire resistance to comply with Code	Re-use where possible. Record design on survey drawings where item cannot be re-used.	Moderate



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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 re-planning 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



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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 non-combustible sheet linings to block opening.	Low


Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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

Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
03.016	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	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

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


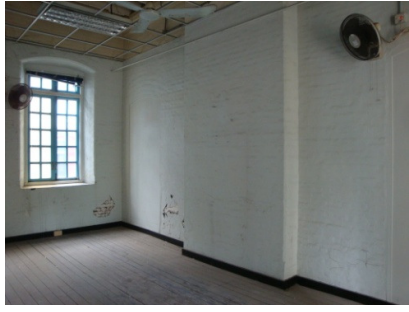
Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

04 Dormitory Block A & B

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


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.003	Plaster box cornice		Moderate	Remove in exceptional cases where eg. where adjacent new lift shafts	Cut back neatly to a square edge and ensure remaining section is secure.	Moderate


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.006	Block existing door openings		Moderate	Block opening as part of re-planning of interior	Retain existing door frame and architraves. Use framing and non-combustible sheet linings to block opening.	Moderate


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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

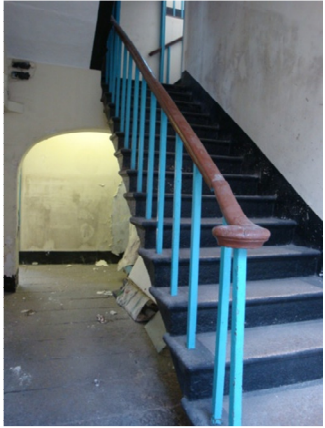
Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.013	External verandahs		High	Install new lighting, fire sprinklers, fire doors to comply with Fire Services Code, extract ducting to external walls	New fittings to be mounted in a manner that is of its time and reversible. Avoid physical intervention with existing plaster box cornices in rooms, architraves, dado rails. Position outlet grilles in external walls on centre-line of arcade arches and above structural arch	High


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.014	Painted signs		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


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.016	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	<p>Arrange new penetrations so that they conform with the geometry of the existing roof.</p> <p>Model the size and shape of the new ducts so that the impact on the roofscape is minimised.</p> <p>Finish the new ducts in a non-reflective material that is neutral in colour.</p>	High


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
04.019	Switchgear in old porch 04/G/13		Adverse	Open up porch, remove electrical switchgear and make good	Not applicable	High


Schedule of Character Defining Elements

Central Police Station

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

Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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

Schedule of Character Defining Elements



Central Police Station

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

Schedule of Character Defining Elements



Central Police Station

06 Dormitory C

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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

Schedule of Character Defining Elements



Central Police Station

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

Schedule of Character Defining Elements



Central Police Station

07 Dormitory D

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

08 Ablutions Block

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.007	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
08.008	Painted signs		High	Protect in situ	Not applicable	N/A


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
08.009	Wire mesh screens		Adverse	Remove	Not applicable	Low
08.010	Internal walls and concrete floors		Low	Remove and rebuild in new configuration to suit new use	Ensure retained facades are fully supported during construction operations. Protect retained walls against damage during demolition works. Install new walls and floors to respect fenestration; avoid	Low



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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

Schedule of Character Defining Elements

Central Police Station


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



Schedule of Character Defining Elements

09 Magistracy

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
09.002	Modern partitions		Adverse	Remove	Not applicable	N/A


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.003	Internal walls		Moderate	Remove selected internal walls where strictly necessary as part of re-planning of interiors	Walls or early or original date to be retained in part eg. By leaving a "nib" where the wall is bonded to another wall. At the point where the wall is cut away, form the cut-line on the line of a vertical joint in alternate courses. Bricks in the remaining courses to be left "as cut", and not re-bonded, as evidence of the current condition.	Moderate
09.004	Plaster box cornice		Moderate	Remove in exceptional cases eg. Where adjacent new lift shafts	Cut back neatly to a square edge and ensure remaining section is secure.	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.005	Panelled doors		Moderate	Replace where necessary to achieve fire resistance to comply with Code	Re-use where possible. Record design on survey drawings where element cannot be re-used.	Moderate



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.008	Stair balustrades		High	Balustrades to be supplemented with additional handrails and supports to mitigate non-compliance with code	New fittings to be of their time and made reversible. Physical intervention to existing stairs and balustrades to be kept to the minimum.	Moderate
09.009	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.010	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
09.011	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective material that is neutral in colour and mid-tone.	High


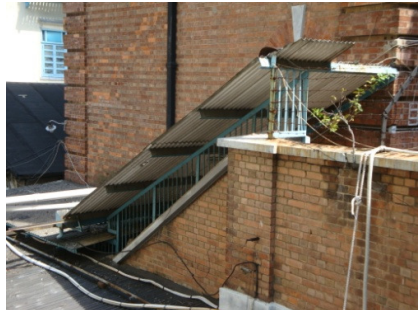
Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.012	Rainwater goods		Moderate	Replace with larger sizes/closer spacing to improve performance	Use cast iron to match original pattern Make good all redundant fixing holes	High
09.013	Metal walkways across lightwell		Adverse	Remove walkways and make good brickwork at abutments	Not applicable	High



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.014	Altered doors and windows		Adverse	Repair or renew as necessary existing frames to match original patterns	Not applicable	High
09.015	Sloping canopy over external stair on west side		Adverse	Remove canopy and supporting structure	Not applicable	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.016	Single storey secure shelter at North West corner		Low	Demolish	Make good brickwork at abutments.	Low
09.017	Iron railing adjacent south side of item 09.016 above		Moderate	Retain; including remains of bars (now removed) between existing railings and east side of Barracks Block.	Not applicable	Neutral

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.018	Public toilets in 09/LG1/17, 24		Adverse	Strip out sanitaryware, and fit-out for pottery display/service access. Form new door openings in east walls.	Retain existing door openings and metal-barred gates. Retain external granite steps and existing ground level.	Low
09.019	Cell doors		High	Re-open to provide access to Retail space	Retain existing iron gate	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.020	Meeting room at G/02-05		Moderate	Remove timber panelling from walls and sub divide to form new toilets and lift shaft	Record existing wall linings, and any earlier lining behind, on measured survey drawings.	Moderate
09.021	Lobbies within entrance hall G/12		Adverse	Remove	Not applicable	N/A



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.022	Public galleries on FF		Adverse	Strip out plant, remove partition walls and restore galleries	Not applicable	High
09.023	Chimney piece		Moderate	Retain	Not applicable	Neutral



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.024	Lanterns above entrance hall		Adverse	Remove existing lanterns and install single lantern	Not applicable	Moderate
09.025	Boarded ceilings on Second Floor		High	Repair and retain where possible	Limit extent of penetrations as far as practicable. Record on measured survey drawings where ceilings have exceptionally to be removed.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
09.026	Iron gates at top of external stair		Moderate	Retain	No applicable	Neutral
09.027	Iron balustrade adjacent terrace at First Floor east side		High	Retain; install structural glass balustrade inboard of ironwork to provide compliance with Building Codes	Avoid penetration of existing tiled pavement when fixing glass balustrade.	Low


Schedule of Character Defining Elements

10 Assistant Superintendent’s Office

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.001	Lay-in grid suspended ceiling		Adverse	Remove	Not applicable	High
10.002	Plaster box cornice		Moderate	Remove in exceptional cases eg. Where adjacent new lift shafts	Cut back neatly to a square edge and ensure remaining section is secure.	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.003	Panelled doors and linings		Moderate	Replace where necessary to achieve fire resistance to comply with Code	Re-use where possible. Record design on survey drawings where element cannot be re-used.	Moderate



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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 non-combustible 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


Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.013	Internal walls		Moderate	Remove selected internal walls where strictly necessary as part of re-planning of interiors	Walls or early or original date to be retained in part eg. By leaving a “nib” where the wall is bonded to another wall. At the point where the wall is cut away, form the cut-line on the line of a vertical joint in alternate courses. Bricks in the remaining courses to be left “as cut”, and not re-bonded, as evidence of the current condition.	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.014	Partitions on SF		Moderate	Remove partitions	Record partitions on measured drawings	Moderate
10.015	Blocked windows on south elevation of south-east wing		Adverse	Re-open window openings and reinstate window frames and glazing	Not applicable	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.016	Open-joisted ceiling on Ground Floor of south-east wing		Moderate	Underline floor to provide fire protection.	Avoid intrusive alteration. Use fire-proofing products and methods that enable existing structure and boarding to be retained.	Low
10.017	Moulded timber picture rail		Low	Repair and retain	Not applicable	Neutral



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.018	Timber roof structure above south-east wing		Moderate	Repair as necessary and retain	Avoid intrusive alteration. Retain open appearance/	Low
10.019	Timber stair		Moderate	Underline with fire-resisting lining	Repair as necessary and retain.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.020	Clay/terrazzo tile floor on Ground Floor and steps		Adverse	Adjust levels to enable level access and replace floor finish	Not applicable	Low
10.024	Granite wall on North elevation		High	Construct new external steps adjacent wall	Keep new stair clear of wall; avoid any physical connection between steps and wall.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.025	Single storey outbuilding at South East corner		Moderate	Demolish outbuilding and make good at abutments	Record outbuilding on measured drawings	Low
10.026	Blocked archway on East elevation		Adverse	Demolish infilling and re-open archway	Protect original arch and jambs against damage during demolition	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
10.027	Chimney on east elevation		Low	Retain	Not applicable	Neutral
10.028	Cantilever balconies		High	Repair as necessary and retain	Avoid intrusive interventions. Restrict access if necessary to retain existing appearance.	Neutral


Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

11 A Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.001	Form new door openings		Low	Form new opening as part of re-planning of interiors	New doors and frames to be of their time to avoid confusion about provenance	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.002	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
11.003	Painted signs		High	Protect in situ	Not applicable	N/A



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.004	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A
11.005	Concrete stairs		Low	Remove and rebuild as part of re-planning of interiors	None	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.006	Flat roof		Low	Form new rooftop extension at West end to accommodate fire escape stair	Form straight joint at abutment with building 08 Ablutions Block	Low
11.007	Security screen at roof level		Low	Remove	Record on measured survey drawings	Low


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.009	Rainwater goods		Low	Remove embedded cast iron pipework set into wall to reduce long term maintenance burden	Record on measured survey drawings. Make good cavity.	Low



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
11.011	Security screen and door at First Floor		Low	Remove	Record on measured survey drawings	Low
11.012	Door thresholds and plinth		Low	Retain; remove paint media from plinth and brickwork	Not applicable	Neutral

Schedule of Character Defining Elements



Central Police Station

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

Schedule of Character Defining Elements



Central Police Station

12 B Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.001	Flat roof		Moderate	Repair and retain	Avoid roof penetrations as far as possible	Low
12.002	Cells at GF level		High	Remove cells in selected locations to accommodate new North-South route across site	Record existing layout on measured survey drawings. Limit number of cells affected to the minimum necessary. Retain floor structure above. Retain remainder of cells at this level for interpretation	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.003	External airconditioning units and other external services		Adverse	Remove and make good brickwork	Not applicable	High
12.004	Painted signs		High	Protect in situ	Not applicable	N/A

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.005	Fixed signs		Low-High	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	N/A
12.006	Rainwater goods		Adverse	Replace with cast iron in pattern to match original and in correct locations	Not applicable	High


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.007	Corbelled brickwork at high level in cells		Low	Retain	Not applicable	Neutral
12.008	Barbed wire		Moderate	Remove	Record wire on measured drawings	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
12.009	External walls		Moderate	Form openings in North and South walls in conjunction with new North-South route across site	Cut brickwork to form openings in North and South walls; do not re-bond brickwork.	Moderate



Schedule of Character Defining Elements

13 C Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.001	External airconditioning units and other external services		Adverse	Remove	Not applicable	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.002	Door to Ladder Store		Low	Retain	Not applicable	Neutral
13.003	Security bars at window openings		Low	Retain	Not applicable	Neutral


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
13.004	Flat roof		Low	Retain	Avoid roof penetrations as far as possible.	Low
13.005	Eaves detail		Low	Retain	Not applicable	Neutral



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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

Schedule of Character Defining Elements

Central Police Station

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

Schedule of Character Defining Elements


Central Police Station

14 D Hall East Wing

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.001	West entrance at Lower Ground Floor		Moderate	Retain as public entrance at this level.	<p>Retain security gate and granite threshold.</p> <p>Adjust adjacent ground level as necessary to achieve barrier-free access.</p> <p>Pin gate back against adjacent wall in the open position if necessary.</p>	Low

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.002	Half-round headed doorway and side lights		Moderate	Retain	Remove air duct and make good masonry above arch.	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.003	Granite surround to cells (generally north side, alternating with brick surrounds – see next item)		Moderate	Retain door surround and gate wherever possible.	Pin back gate against wall. Remove paint media to expose granite material.	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.004	Brick reveals with bull-nosed arrisses and segmental arch over (generally north side, alternating with granite surrounds – see previous item)		High	Retain door surround and gate wherever possible	Pin back gate against wall	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.005	Arched opening at East end First Floor		Low	Retain as existing	Not applicable	Low
14.006	Concrete floor generally at Lower Ground Floor		Low	Excavate entire floor to install piled underpinning	Record levels on measured survey drawings. Install new floor at the same level.	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.007	Part-blocked windows at Lower Ground Floor - extent of blocking varies.		Moderate	Open up window opening to full extent.	Record existing condition on measured survey drawings. Add further detail during demolition works.	Low
14.008	External granite stair from Lower Ground to Ground Floor level		Moderate	Remove stair to make way for new stair in similar position	Review design proposals to see whether existing stair can be retained.	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.009	Ashlar pattern on external walls		Moderate	Form new openings for entrance/exit to building	<p>Set out new openings to cause minimum disruption to ashlar pattern.</p> <p>Record existing pattern on measured survey drawings.</p>	Low


Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.011	Metal security gate and screen		Low	Retain insitu	Pin gate in open position if necessary	Neutral



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.012	Half-round headed doorway and side lights at Ground Floor west end		Moderate	Retain insitu	Not applicable	Neutral
14.013	Structural steelwork bracing and temporary access stair		Adverse	Remove upon completion of underpinning	Not applicable	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.014	RC staircase at north-east corner		Low	Remove	Record on measured drawings	Low
14.015	Vinyl tile floor on suspended timber floor		Adverse	Remove vinyl tiles and restore boards if possible; alternatively, replace boards with new timber to match other boarded floors elsewhere on the site.	Not applicable	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.016	Cell walls at Ground Floor		Moderate	Retain insitu	<p>Use existing door openings wherever possible.</p> <p>Avoid further alteration to existing altered openings where feasible.</p>	Low



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.019	Granite surrounds to doorways with lintels over		Moderate	Increase width in selected locations to allow wheelchairs to pass	Record on measured survey drawings. Limit interventions as far as possible.	Low
14.020	Flat ceilings at Ground Floor		Low	Form penetrations for services installations where necessary	Avoid disruption of beams.	Low


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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

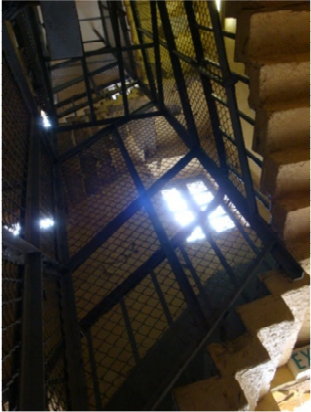
Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.024	Inset security gate and screen in First Floor cells		Low	Remove to suit new use	Remove where necessary. Record on measured drawings.	Low


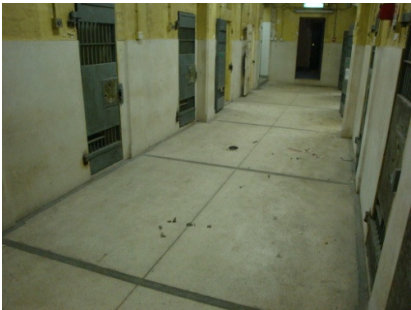
Schedule of Character Defining Elements

14 D Hall West Wing

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.030	Main stair		High	Remove wire mesh and framing	Record on measured drawings	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.031	Brick vault over central hall at Ground Floor		High	Retain insitu	Not applicable	Neutral
14.032	Terrazzo floor in central hall at Ground floor		Moderate	Remove to enable piled underpinning	Record on measured survey drawings	Moderate

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.033	Brick vaults above cells		High	Retain insitu	Avoid penetrations for services	Neutral
14.034	Cell walls (later additions)		Moderate	Remove where necessary to accommodate new cafe	Record on measured drawings	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.035	Brickwork spandrels below cell windows on south side at Ground Floor		Moderate	Remove to accommodate new cafe	Record on measured survey drawings	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.036	Cell walls flanking central hall		High	Remove to accommodate new cafe	Record on measured survey drawings. Retain selected cells for interpretation purposes.	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.037	Cell floors		Low	Remove to enable piled underpinning	Record on measured survey drawings	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.038	Partition wall across central hall at Ground Floor		Low	Remove to accommodate new cafe	Record on measured survey drawings	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.039	Granite pavement in cross-passage between East and West Wings		Moderate	Repair as necessary and retain insitu	Not applicable	Neutral
14.040	Granite threshold at doorway between cross-passage and East Wing		Moderate	Retain insitu	Not applicable	Neutral



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.041	Brick vault over cross-passage		High	Retain insitu	Avoid any services penetrations	Neutral
14.042	Granite floor in central hall at First Floor		Moderate	Retain insitu	Repair where necessary	Neutral

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.043	Cell walls flanking central hall at First Floor		High	Retain insitu	Not applicable	Neutral
14.044	Brickwork spandrels below cell windows at Second Floor		Moderate	Remove to enable new use	Record on measured drawings. Confine changes to one elevation, north or south.	Low


Schedule of Character Defining Elements

Central Police Station

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

Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.047	View ports adjacent entrance doors		Moderate	Retain insitu	Not applicable	Neutral
14.048	Services installations		Adverse	Remove	Not applicable	Moderate



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.049	Metalwork and structural steel framing on exterior (typical)		Adverse	Remove	Not applicable	High
14.050	Blind arcade, south elevation		Low	Remove infill brickwork within arched openings at ground level to enable new cafe	Record on measured survey drawings. Observe and record any evidence that brickwork infills were built at the same time as the arched openings or added later	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
14.051	Blind arcade, north elevation		Low	Retain insitu	Not applicable	Neutral
14.052	Fence wall, east end of D Hall Yard		Low	Remove to reinstate access to granite stair to Lower Ground Floor level	Record on measured drawings	Low

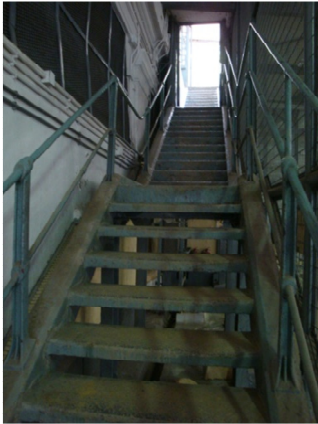
Schedule of Character Defining Elements

15 E Hall

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.001	Dividing walls at Lower Ground Floor		Moderate	Remove to enable multi-purpose use	Record on measured survey drawings	Low
15.002	Dividing walls at Lower Ground Floor		Moderate	Remove to enable multi-purpose use	Record on measured survey drawings	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.003	Staircase within Laundry Yard		Moderate	Remove to enable construction of Arbuthnot Wing	Record on measured survey drawings	Low



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.006	Raised ground level adjacent entrance		Low	Remove to enable level access	Record on measured survey drawings	Low
15.007	Access balconies and apertures		Moderate	Retain apertures	Provide temporary closure as required for operational reasons	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.008	Central staircase		High	Retain	Provide secondary staircase within cell blocks to achieve code compliance	Low



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.009	Cell walls flanking central hall		High	Retain	Pin back cell doors against walls.	Neutral


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
15.010	Services installations		Adverse	Remove	Not applicable	Moderate
15.011	Balcony balustrades		Moderate	Retain	Install wire net across aperture to avoid need to upgrade balustrade to meet Building Code requirements	Low

Schedule of Character Defining Elements


Central Police Station

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

Schedule of Character Defining Elements



Central Police Station

17 F Hall

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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		Moderate	Remove and refix/display in visitors' centre/discard	Record each sign and assess significance individually and treat accordingly	Moderate



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.014	Interview booths		High	Remove to accommodate new gallery	Rebuild in new location	Moderate
17.015	External stair to First Floor		Moderate	Upgrade balustrade to comply with Building Code	Record on measured drawings. Supplement existing balustrade elements with minimal elements if necessary.	Low


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.016	Ground Floor main entrance		Low	Retain as existing.	Keep fixed shut if not required for operational use.	Low

Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
17.021	Barbed wire		Moderate	Remove	Record on measured drawings. Make good fixing points where attached to brickwork.	Low


Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

19 Bauhinia House

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.001	Pitched roofs		High	New penetrations through roofs for ventilation ducts and other services	Arrange new penetrations so that they conform with the geometry of the existing roof. Model the size and shape of the new ducts so that the impact on the roofscape is minimised. Finish the new ducts in a non-reflective material that is neutral in colour and mid-tone.	High
19.002	Chimney		High	Repair and retain	Not applicable	Neutral


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.003	Rainwater goods and other external services		Adverse	Remove and make good wall surface. Replace defective and non-matching rainwater goods with cast iron fittings to match original.	Not applicable	Moderate


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.004	External stone wall facing		High	Carry out close inspection of painted areas to determine extent of original granite facing and remove paint media where applicable.	Not applicable	Moderate

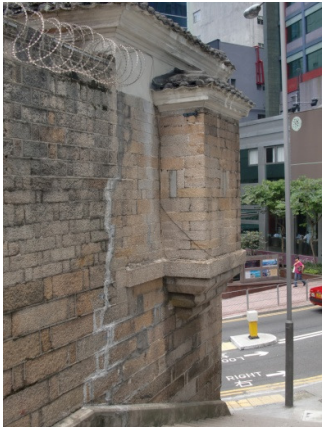
Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.005	Gun loops		High	Remove concrete infilling and make good stonework where necessary.	Not applicable	Moderate


Schedule of Character Defining Elements

Central Police Station

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


Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.007	Windows		Moderate	Remove and make good stonework as necessary	Record existing windows on measured survey drawings	Moderate



Schedule of Character Defining Elements

Central Police Station

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



Schedule of Character Defining Elements

Central Police Station

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

Schedule of Character Defining Elements

Central Police Station

Element no.	Description	Photo ref.	Significance	Proposal	Mitigation	Impact
19.011	Exposed timber roof structure		High	Repair and retain insitu	Not applicable	Neutral
19.012	Timber stair		Moderate	Remove	Record on measured surveys drawings	Low