

香港九龍尖沙咀海港城 九倉電訊中心十三樓 13/F Wharf T&T Centre Harbour City Tsim Sha Tsui Kowloon Hong Kong

**電話 Tel (852) 2972 1000** 傳真 Fax (852) 2890 6343

info.hk@atkinsglobal.com

Your ref. 5140819/18.30/OC045/KC/RL

Date: 19 January 2018

By Post and e-mail (Alfred.She@lcwjv.com)

Leighton – Chun Wo Joint Venture 39/F Sun Hung Kai Centre 30 Harbour Road Hong Kong

Attn: Mr. Alfred She

Dear Mr. She,

Contract No. HY/2014/05 Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities Certification of Monthly EM&A Report No. 22

Atkins China Limited certifies, in the capacity of Environmental Team Leader, that the Monthly EM&A Report No. 22 for December 2017 (Revision 4) conforms the requirements provided in Condition 5.4 of the Environmental Permit No. EP-353/2009/K.

Yours faithfully, for and on behalf of Atkins China Limited

Keith Chau Environmental Team Leader

CC.

- 1. AECOM Mr. Malcolm Sage (By Fax.: 3468 2076)
- 2. IEC/ENPO Mr. Raymond Dai & Mr. Y.H. Hui (By Fax.: 3465 2899)



Ref.: HYDHZMBEEM00\_0\_6194L.18

19 January 2018

By Fax (3468 2076) and By Post

AECOM Asia Co. Ltd. The PRE's Office 5 Ying Hei Road, Tung Chung, Lantau Hong Kong

Attention: Mr. Malcolm Sage

Dear Sir,

Re: Agreement No. CE 48/2011 (EP) Environmental Project Office for the HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities, and Tuen Mun-Chek Lap Kok Link – Investigation

Contract No. HY/2014/05 – HZMB HKBCF – Remaining Ancillary Buildings and Facilities Monthly Environmental Monitoring & Audit Report for December 2017

Reference is made to the Environmental Team's submission of Monthly Environmental Monitoring & Audit Report for December 2017 (Rev. 4) certified by the ET Leader (ET's ref.: "5140819/18.30/OC045/KC/RL" dated 19 January 2018) and provided to us via e-mail on 19 January 2018.

We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 5.4 of the Environmental Permit No. EP-353/2009/K.

The ET Leader is reminded that it is the ET's responsibility to ensure the report be timely submitted to the Director of Environmental Protection and the reported information be true, valid and correct as per Conditions 5.4 and 5.5 of EP-353/2009/K respectively.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully, For and on behalf of Ramboll Hong Kong Limited

Konjut

Raymond Dai Independent Environmental Checker

c.c.	HyD	Mr. Vico Cheung	(By Fax: 3188 6614)
	HyD	Mr. Ken Woo	(By Fax: 3188 6614)
	Atkins	Mr. Keith Chau	(By Fax: 2890 6343)
	LCWJV	Mr. Iain Hubert	(By Fax: 3621 0180)

Internal: DY, YH, TM, HW, WC, ENPO Site

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## Contract No. HY/2014/05

Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities

# Monthly EM&A Report No. 22 (Covering the Period from 1 December 2017 to 31 December 2017)

19 January 2018

**Revision 4** 

Main Contractor



Leighton - Chun Wo Joint Venture **Environmental Team** 





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#### Executive Summary

This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2014/05 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HZMB HKBCF) – Remaining Ancillary Buildings and Facilities (includes the construction works of Contract No. HY/2013/06 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System and Contract No. HY/2014/04 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System and Contract No. HY/2014/04 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Gantry Type X-ray Vehicle Inspection System within Contract No. HY/2014/05 works area) (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). Contract No. HY/2014/05 was awarded to Leighton – Chun Wo Joint Venture (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited and Contract No. HY/2014/04 was awarded to Rapiscan Systems Pte Ltd within Contract No. HY/2014/05 works area) (hereafter referred to as "the Contractor") and Atkins China Limited was appointed as the Environmental Team (ET) by the Contractor.

Contract No. HY/2014/05 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area) is part of HZMB HKBCF Project which is a "Designated Project" under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap 499) and Environmental Impact Assessment (EIA) Report (Register No. AEIAR-145/2009) was prepared for the Project. The current Environmental Permit (EP) No. EP-353/2009/K for HKBCF was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. The construction works of the Contract No. HY/2014/05 commenced on 29 February 2016 while the construction works of the Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area commenced on 3 January 2017 and 13 February 2017 respectively.

Atkins China Limited has been appointed by the Contractor to implement the Environmental Monitoring & Audit (EM&A) programme for the Contract in accordance with the Updated EM&A Manual for HKBCF (Version 1.0) and will be providing environmental team services to the Contract.

This is the twenty-second monthly EM&A Report for the Contract No. HY/2014/05 which summarizes findings of the EM&A works during the reporting period from 1 to 31 December 2017 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area).

#### **Environmental Monitoring and Audit Progress**

The monthly EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that air quality and noise monitoring works for the Contract are covered by Contract No. HY/2013/01 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HZMB HKBCF) – Passenger Clearance Building and Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF. The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7 and noise monitoring at NMS2 and NMS3B as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. HY/2013/01 and HY/2011/03. However, this is subject to ENPO's final decision on which ET should carry out the monitoring work at these stations.

The dates of site inspection for the Contract No. HY/2014/05 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area) during the reporting period are listed below:

Environmental Site Inspection:

4, 13, 18 and 27 December 2017

#### **Breaches of Action and Limit Levels**

Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03. No Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 by the Environmental Team of Contract No. HY/2013/01 during the reporting period.

There was one AL exceedance of 24-hr TSP at ASM3B was recorded on 23 December 2017 by the Environmental Team of Contract No. HY/2013/01 during the reporting period, after investigation, the exceedance was not related to the Contract. Details of the exceedance shall be referred to the monthly EM&A report prepared by Contract No. HY/2013/01. The IR was provided in **Appendix J.** 





There was no Action and Limit Level exceedance for noise recorded at NMS2 and NMS3B by the Environmental Team of Contract No. HY/2013/01 during the reporting period.

#### Complaint Log

There was no complaint received in relation to the environmental impact during the reporting period.

#### **Notifications of Summons and Successful Prosecutions**

There were no notifications of summons or prosecutions received during this reporting period.

#### **Reporting Change**

There was no reporting change during the reporting period.



#### Future Key Issues

The future key issues to be undertaken in the upcoming month include:

For Contract No. HY/2014/05

- Architectural Builder's Work and Finishes (ABWF) & Mechanical, Electrical and Plumbing works (MEP) - Internal work of Buildings 022, 023, 025, 032, 044, 045, 050H1, 050H2, 050A1, 050A2, 053 and 058
- Architectural Builder's Work and Finishes (ABWF) External work of Buildings 021, 022, 023, 025, 032, 044, 045, 050H1, 050H2, 050A1, 050A2, 053, 058 and 059
- ABWF works (roof) of Buildings 021, 023, 025, 032, 044, 050H1, 050H2, 050A1, 050A2, 053 and 058
- Utilities and Drainage installation of Buildings 023, 032, 045, 050H1, 050H2 and 050A1 and 050A2
- Landscape works: roof greening of Buildings 023, 025, 032, 044 and 045

#### For Contract No. HY/2013/06 within Contract No. HY/2014/05 works area

• Building 025 and 032 - Conduit Installation & Cabling

### For Contract No. HY/2014/04 within Contract No. HY/2014/05 works area

- Building 053 Installation of field devices
- Building 054 Installation of field devices
- Building 058 Radiation Testing
- Building 059 Radiation Testing





#### Introduction

#### 1.1 Basic Project Information

- 1.1.1 This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2014/05 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HZMB HKBCF) – Remaining Ancillary Buildings and Facilities (includes the construction works of Contract No. HY/2013/06 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System and Contract No. HY/2014/04 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Gantry Type X-ray Vehicle Inspection System within Contract No. HY/2014/05 works area) (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). Contract No. HY/2014/05 was awarded to Leighton – Chun Wo Joint Venture (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited and Contract No. HY/2014/04 was awarded to Rapiscan Systems Pte Ltd within Contract No. HY/2014/05 works area) (hereafter referred to as "the Contract No. HY/2014/05 works area) (hereafter referred to as "the Contractor") and Atkins China Limited was appointed as the Environmental Team (ET) by the Contractor.
- 1.1.2 Contract No. HY/2014/05 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area) is part of HZMB HKBCF which is a "Designated Project" under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap 499). An Environmental Impact Assessment (EIA) Report (Register No. AEIAR-145/2009) was prepared for the Project. The current Environmental Permit (EP) No. EP-353/2009/K for HKBCF was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. The construction works of the Contract No. HY/2014/05 commenced on 29 February 2016 while the construction works of the Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area commenced on 3 January 2017 and 13 February 2017 respectively. The works areas of the Contract are shown in **Appendix A**.
- 1.1.3 The proposed works under this Contract comprise the following:

#### For Contract No. HY/2014/05

- (i) Construction of the following ancillary buildings and facilities including architectural and builder works, structural steel canopy, reinforced concrete frames, foundations, curtain wall facade, building services and electrical and mechanical works:
  - Public Toilets at Vehicle Clearance Plaza (VCP);
  - Customs and Excise Department (C&ED) Dangerous Good Store (Building 021);
  - Customs Detective Dog Base Building (Building 022);
  - C&ED Outbound Cargo Examination Building and Examination Platform (Building 023);
  - Inbound Private Car Annexure (Building 025);
  - Outbound Private Car Annexure (Building 032);
  - E&M maintenance Building (Building 044);
  - Highways Depot & Administration Building (Building 045);
  - Outbound X-ray Building (Building 053);
  - Outbound X-ray Scan Tunnel (Building 058); and
  - Inbound X-ray Scan Tunnel (Building 059).
- (ii) Construction of civil provisions, cable containment and power supply for the following systems:
  - Automatic Vehicle Clearance Support System (AVCSS) installed by Contract No. HY/2013/06; and





•

- Gantry Type X-ray Vehicle Inspection System installed by Contract No. HY/2014/04.
- (iii) Supply and installation of Mobile X-ray Vehicle Inspection System and other standalone equipment;
- (iv) Construction of minor civil engineering works at the periphery of buildings;
- (v) Construction of minor Landscape hardworks and softworks; and
- (vi) Other works which are shown on Drawings or specified in the Specification or which may be ordered in accordance with the Contract.

For Contract No. HY/2013/06 within Contract No. HY/2014/05 works area

- (i) The Automatic Vehicle Clearance Support System amid to increasing traffic flow for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities;
- (ii) Responsible for designs and develops a set of tailor-made computer monitoring and control systems to for daily security operation; and
- (iii) The Clearance Workstations at 72 vehicle clearance kiosks, Customs and Excise's inbound and outbound traffic control centers as well as a Vehicle Tracking System.

#### For Contract No. HY/2014/04 within Contract No. HY/2014/05 works area

- (i) The Gantry Type X-ray Vehicle Inspection System (GXRVIS) aims to provide an integrated, innovative, efficient and effective vehicle inspection system at the inbound and outbound boundary control points of Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) for supporting the operations of Customs & Excise Department (C&ED);
- (ii) Design, supply, deliver to HKBCF, installation, test and commissioning and maintenance of two sets of Gantry Type X-ray Vehicle Inspection System and all related components necessary for the complete operation of the system; and
- (iii) Design, supply, install, test, commission and maintain of the Radioactive Threat Detection Systems integrated into the Gantry Type X-ray Vehicle Inspection Systems.
- 1.1.4 This is the twenty-second Monthly EM&A Report for the Contract No. HY/2014/05 which summarizes the findings of the EM&A programme during the reporting period from 1 to 31 December 2017. (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area).

#### 1.2 **Project Organisation**

1.2.1 The project organization structure and lines of communication with respect to the on-site environmental management structure is shown in **Appendix B**. The key personnel contact names and numbers are summarized in **Table 1-1**.

Party	Position	Name	Telephone	Fax	
For Contract No. HY/2014	For Contract No. HY/2014/05				
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Registered Architect	Malcolm Sage	3958 7330	3468 2076	
Environmental Project Office / Independent Environmental Checker	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899	

 Table 1-1
 Contact Information of Key Personnel





Party	Position	Name	Telephone	Fax	
(Ramboll Environ Hong Kong Limited)	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899	
Contractor	Site Agent	Albert Chan	3973 0514	3621 0180	
(Leighton – Chun Wo Joint Venture)	Environmental Officer	Alfred She	39730484	3621 0180	
Environmental Team (Atkins China Limited)	Environmental Team Leader	Keith Chau	2972 1721	2890 6343	
24 hours complaint hotline			3958 7300		
For Contract No. HY/2013	8/06 within Contract N	No. HY/2014/05 wo	<u>rks area</u>		
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Registered Architect	Malcolm Sage	3958 7330	3468 2076	
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899	
Kong Limited)	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899	
Contractor	Site Agent	Mr. Eric Yim	2565 3355	3162 5217	
(ATAL Technologies Limited)	Environmental Officer	Mr. W. Li	2565 3137	3162 5217	
Environmental Team (Atkins China Limited)	Environmental Team Leader	Keith Chau	2972 1721	2890 6343	
24 hours complaint hotline			6509 0375		
For Contract No. HY/2014	1/04 within Contract N	No. HY/2014/05 wo	rks area		
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Registered Architect	Malcolm Sage	3958 7330	3468 2076	
Environmental Project Office / Independent Environmental Checker	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899	
(Ramboll Environ Hong Kong Limited)	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899	
Contractor	Site Agent	Ringo Yau	9833 1402	2707 0816	
(Rapiscan Systems Pte Ltd)	Environmental Officer	Clarie Tsang	6371 1362		
Environmental Team (Atkins China Limited)	Environmental Team Leader	Keith Chau	2972 1721	2890 6343	





Party	Position	Name	Telephone	Fax
24 hours complaint hotline			9833 1420	

#### 1.3 **Construction Programme**

- 1.3.1 A copy of the Contractor's construction programme is provided in **Appendix C**.
- 1.4 Construction Works Undertaken During the Reporting Period
- 1.4.1 A summary of the construction activities undertaken during this reporting period is shown below: <u>For Contract No. HY/2014/05</u>
  - ABWF & MEP works (Internal) of Buildings 022, 023, 025, 032, 044, 045, 050H1, 050H2, 050A1, 050A2, 053 and 058
  - Utilities and Drainage installation of Buildings 023, 025, 032, 045, 050H1, 050H2 and 050A1
  - ABWF & MEP works (External) of Buildings 021, 022, 023, 025, 032, 044, 045, 050H1, 050H2, 050A1, 050A2, 053 and 058
  - Construction of Planter Box and Ramp of Building 023
  - Landscape works: roof greening of Buildings 025, 032 and 044

#### For Contract No. HY/2013/06 within Contract No. HY/2014/05 works area

 As confirmed by Contractor, construction works for Contract No. HY/2013/06 were not conducted within Contract No. HY/2014/05 works area in December 2017.

#### For Contract No. HY/2014/04 within Contract No. HY/2014/05 works area

- Installation of software at Buildings 053 and 054
- Radiation Testing at Buildings 058 and 059





### 2 Air Quality Monitoring

#### 2.1 Monitoring Locations

- 2.1.1 The air quality monitoring works for the Contract are covered by Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road Section between Scenic Hill and HKBCF and Contract No. HY/2013/01 HZMB HKBCF Passenger Clearance Building.
- 2.1.2 The ET of the Contract or another ET of the HZMB project is required to conduct air quality monitoring at AMS6 and AMS7 as part of EM&A programme if these air quality monitoring stations are no longer covered under Contract Nos. HY/2011/03 and HY/2013/01. **Figure 2.1** shows the locations of the air monitoring stations.

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Table 2-1	Construction	<b>Dust Monitoring</b>	Locations

ID	Location Description
AMS 6 <sup>(1)</sup>	Dragonair/CNAC (Group) Building
AMS 7 <sup>(1)</sup>	Hong Kong SkyCity Marriott Hotel

Remark:

(1) The ET of this Contract should conduct impact air quality monitoring at the AMS listed in the table as part of EM&A programme according to the latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.

#### 2.2 Monitoring Requirements

- 2.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology, monitoring schedule, meteorological information are detailed in the monthly EM&A Reports prepared for Contract Nos. HY/2011/03 and HY/2013/01.
- 2.2.2 The Action and Limit Levels for 1-hr TSP and 24-hr TSP are provided in **Table 2-2** and **Table 2-3**, respectively.

#### Table 2-2 Action and Limit Levels for 1-hr TSP

Monitoring Station	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m³
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	360	500
AMS 7 - Hong Kong SkyCity Marriott Hotel	370	500

 Table 2-3
 Action and Limit Levels for 24-hr TSP

Monitoring Station	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m³
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	173	260
AMS 7 - Hong Kong SkyCity Marriott Hotel	183	260

- 2.2.3 The event and action plan is provided in **Appendix D**.
- 2.2.4 If exceedance(s) at these station(s) is/are recorded by the ET of the Contract or referred by the other ET under the HZMB project to the Contract, the ET of the Contract will carry out an investigation and findings will be reported in the monthly EM&A Report.





#### 2.3 Monitoring Results

- 2.3.1 The monitoring results for AMS6 and AMS7 are reported in the monthly EM&A Reports prepared for Contract Nos. HY/2011/03 and HY/2013/01, respectively.
- 2.3.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A Report prepared by Contract No. HY/2011/03. No Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 by the Environmental Team of Contract No. HY/2013/01 during the reporting period.
- 2.3.3 There was one AL exceedance of 24-hr TSP at ASM3B was recorded on 23 December 2017 by the Environmental Team of Contract No. HY/2013/01 during the reporting period, after investigation, the exceedance was not related to the Contract. Details of the exceedance shall be referred to the monthly EM&A report prepared by Contract No. HY/2013/01The IR was provided in **Appendix J.**





#### 3 Noise Monitoring

#### 3.1 Monitoring Locations

3.1.1 The noise monitoring works for the Contract are covered by Contract No. HY/2013/01 HZMB HKBCF – Passenger Clearance Building. The ET of the Contract or another ET of the HZMB project is required to conduct impact noise monitoring at NMS2 and NMS3B as part of EM&A programme if these noise monitoring stations are no longer covered under Contract No. HY/2013/01. **Figure 3.1** shows the locations of noise monitoring stations.

Table 3-1	Construction	Noise	Monitoring	Locations
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ID	Location Description
NMS2 <sup>(1)</sup>	Seaview Crescent
NMS3B <sup>(1)(2)</sup>	Site Boundary of Site Office Area at Works Area WA2

Remarks:

- (1) The ET of this Contract should conduct impact noise monitoring at the NMS listed in the table as part of EM&A programme according to the latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.
- (2) The Action and Limit Levels for schools will be applied for this alternative monitoring location.

#### 3.2 Monitoring Requirements

- 3.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology and monitoring schedule are detailed in the monthly EM&A Reports prepared for Contract No. HY/2013/01.
- 3.2.2 The Action and Limit Levels for construction noise are defined in **Table 3-2**.

#### Table 3-2 Action and Limit Level for Construction Noise

Parameter	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received	75 dB(A)*

Notes:

If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

\* Limit level is 70 dB(A) for schools and 65 dB(A) during school examination period.

- 3.2.3 The event and action plan is provided in **Appendix D**.
- 3.2.4 If exceedance(s) at these station(s) is/are recorded by the ET of the Contract or referred by the other ET under the HZMB project to the Contract, the ET of the Contract will carry out an investigation and findings will be reported in the monthly EM&A Report.

#### 3.3 Monitoring Results

3.3.1 The monitoring results for NMS2 and NMS3B are reported in the monthly EM&A Reports prepared for Contract No. HY/2013/01. No noise exceedances were recorded at stations NMS2 and NMS3B by the ET of Contract No. HY/2013/01 during the reporting period.





#### Environmental Site Inspection and Audit

#### 4.1 Site Inspection

- 4.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Contract No. HY/2014/05 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area). During the reporting period, site inspections were carried out on 4, 13, 18 and 27 December 2017.
- 4.1.2 Particular observations for Contract No. HY/2014/05 and Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area during the site inspections and corrective actions undertaken by the Contractor are described in **Tables 4-1, 4-2 and 4-3**.

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
27 November 2017	<ol> <li>A stock of more than 20 bags of cement was not covered properly at Building 045.</li> <li>No drip tray was provided for chemical containers outside Building 023.</li> </ol>	<ol> <li>The stock of dusty materials at Building Building 045 was removed.</li> <li>The chemical containers at Building 023 were removed.</li> </ol>	4 December 2017
4 December 2017	<ol> <li>No drip tray and chemical label were provided for a chemical container at Building 023.</li> </ol>	<ol> <li>Chemical container was removed at Building 023.</li> </ol>	13 December 2017
13 December 2017	1. NRMM label missing for the excavator was observed and the colour of a NRMM label for a crane was faded near Building 044.	<ol> <li>NRMM label was provided for the excavator and the crane was removed from the site near Building 044.</li> </ol>	18 December 2017
18 December 2017	No particular environmental issue was recorded during the site inspection.	Nil	N/A
27 December 2017	<ol> <li>Concrete breaking was observed without water spraying at Building 022.</li> </ol>	<ol> <li>The Contractor was reminded to provide water spraying for dusty operation.</li> </ol>	Follow-up action undertaken by the Contractor will be inspected during the site inspection to be undertaken in January 2018.

 Table 4-1
 Summary of Environmental Site Inspections for Contract No. HY/2014/05





#### Table 4-2 Summary of Environmental Site Inspections for Contract No. HY/2013/06 within Contract No. HY/2014/05 works area

13 December 2017       No particular environmen was recorded during inspection.         18 December 2017       No particular environmen was recorded during inspection.         18 December 2017       No particular environmen was recorded during inspection.	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
4 December 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
13 December 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
18 December 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
27 December 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.

# Table 4-3 Summary of Environmental Site Inspections for Contract No. HY/2014/04 within Contract No. HY/2014/05 works area

13 December 2017       No particular environme was recorded during inspection.         13 December 2017       No particular environme was recorded during inspection.         18 December 2017       No particular environme	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
4 December 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
13 December 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
18 December 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
27 December 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.

4.1.3 Particular observations (Landscape works) for Contract No. HY/2014/05 during the site inspections and corrective actions undertaken by the Contractor are described in **Tables 4-4**. The landscape work of green roof for Contract No. HY/2014/05 was commenced on 11 December 2017. The implementation of mitigation measures for landscape and visual resources recommended in the EIA Report were monitored during the reporting period. Landscape and visual mitigation measures in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor.





# Table 4-4Summary of Environmental Site Inspections (Landscape works) for Contract No.<br/>HY/2014/05 works area

was     recorded     during       inspection.     was     recorded       27 December 2017     No particular environm       was     recorded     during	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
13 December 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
27 December 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.

4.1.4 The Contractor has rectified most of the observations as identified during environmental site inspections during this reporting month. Follow-up actions for outstanding observations will be inspected in January 2018.

#### 4.2 Advice on the Solid and Liquid Waste Management Status

- 4.2.1 The Contractor of Contract No. HY/2014/05 registered as a chemical waste producer. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 4.2.2 The Contractor of Contract No. HY/2014/05 was reminded that chemical waste should be properly treated and stored temporarily in designated chemical waste storage areas on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.
- 4.2.3 The monthly summary of waste flow table for Contract No. HY/2014/05 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area) are detailed in **Appendix E**.

#### 4.3 Environmental Licenses and Permits

- 4.3.1 The valid environmental licenses and permits for Contract No. HY/2014/05 during the reporting period (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area) are summarized in **Appendix F**.
- 4.3.2 The Contractors of Contract No. HY/2013/06 and Contract No. HY/2014/04 were advised to register as a chemical waste producer when chemical waste will be expected to generate for the foreseeable future from the operations (For Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation).
- 4.4 Implementation Status of Environmental Mitigation Measures
- 4.4.1 In response to the site audit findings, the Contractors carried out corrective actions.
- 4.4.2 The Contractor conducts watering on all exposed soil within the Contract site and associated works areas 8 times per day when construction activities are being undertaken.
- 4.4.3 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix G**. Most of the necessary mitigation measures were implemented properly.
- 4.5 Summary of Exceedance of the Environmental Quality Performance Limit
- 4.5.1 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03. No Action



and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 by the Environmental Team of Contract No. HY/2013/01 during the reporting period.

- 4.5.2 There was one AL exceedance of 24-hr TSP at ASM3B was recorded on 23 December 2017 by the Environmental Team of Contract No. HY/2013/01 during the reporting period, after investigation, the exceedance was not related to the Contract. Details of the exceedance shall be referred to the monthly EM&A report prepared by Contract No. HY/2013/01. The IR was provided in **Appendix J.**
- 4.5.3 There was no Action and Limit Level exceedance for noise recorded at NMS2 and NMS3B by the Environmental Team of Contract No. HY/2013/01 during the reporting period.
- 4.6 Summary of Complaints, Notification of Summons and Successful Prosecution
- 4.6.1 There was no complaint received in relation to the environmental impact during the reporting period.
- 4.6.2 Statistics on environmental complaints, notifications of summons and successful prosecutions are summarized in **Appendix H**.





5 Future Key Issues

#### 5.1 Construction Programme for the Coming Months

5.1.1 As informed by the Contractor, the major construction activities for January 2018 are summarized in **Table 5-1**.

#### Table 5-1 Construction Activities for January 2018

Site Area	Description of Activities
For Contract No. HY/2014/05	
Buildings 022, 023, 025, 032, 044, 045, 050H1, 050H2, 050A1, 050A2, 053 and 058	ABWF & MEP works (Internal)
Buildings 021, 022, 023, 025, 032, 044, 045, 050H1, 050H2, 050A1, 050A2, 053, 058 and 059	ABWF works (External)
Buildings 021, 023, 025, 032, 044, 050H1, 050H2, 050A1, 050A2, 053 and 059	ABWF works (roof)
Buildings 023, 032, 045, 050H1, 050H2, 050A1 and 050A2	Utilities and Drainage Installation
Buildings 023, 025, 032, 044 and 045	Landscape works: roof greening
For Contract No. HY/2013/06 within Contract N	lo. HY/2014/05 works area
Buildings 025 and 032	Conduit Installation & Cabling
For Contract No. HY/2014/04 within Contract N	lo. HY/2014/05 works area
Buildings 053 and 054	Installation of field devices
Buildings 058 and 059	Radiation testing

#### 5.2 Environmental Site Inspection Schedule for the Coming Month

5.2.1 The tentative schedule for weekly site inspections for January 2018 is provided in **Appendix I**.





#### 6 Conclusions

#### 6.1 Conclusions

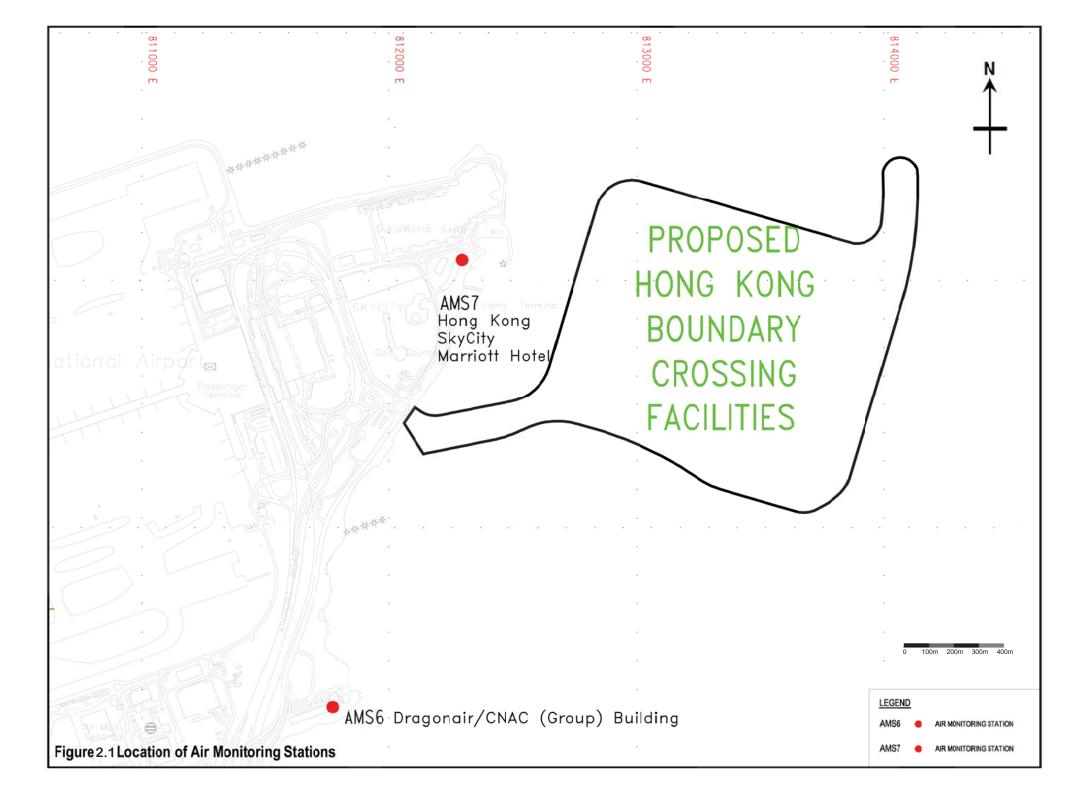
- 6.1.1 The construction works of the Contract No. HY/2014/05 commenced on 29 February 2016. while the construction works of the Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area commenced on 3 January 2017 and 13 February 2017 respectively. The twenty-second Monthly EM&A Report for Contract No. HY/2014/05 summarizes findings of the EM&A works during the reporting period from 1 to 31 December 2017 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area).
- 6.1.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A Report prepared by Contract No. HY/2011/03. No Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 by the Environmental Team of Contract No. HY/2013/01 during the reporting period.
- 6.1.3 There was one AL exceedance of 24-hr TSP at ASM3B was recorded on 23 December 2017 by the Environmental Team of Contract No. HY/2013/01 during the reporting period, after investigation, the exceedance was not related to the Contract. Details of the exceedance shall be referred to the monthly EM&A report prepared by Contract No. HY/2013/01. The IR was provided in **Appendix J.**
- 6.1.4 There was no Action and Limit Level exceedance for noise recorded at NMS2 and NMS3B by the Environmental Team of Contract No. HY/2013/01 during the reporting period.
- 6.1.5 Environmental site inspections were carried out on 4, 13, 18 and 27 December 2017 for the Contract No. HY/2014/05 (includes the construction works of Contract No. HY/2013/06 and Contract No. HY/2014/04 within Contract No. HY/2014/05 works area). Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspection.
- 6.1.6 There was no complaint received in relation to the environmental impact during the reporting period.
- 6.1.7 No notification of summons and successful prosecution was received during the reporting period.

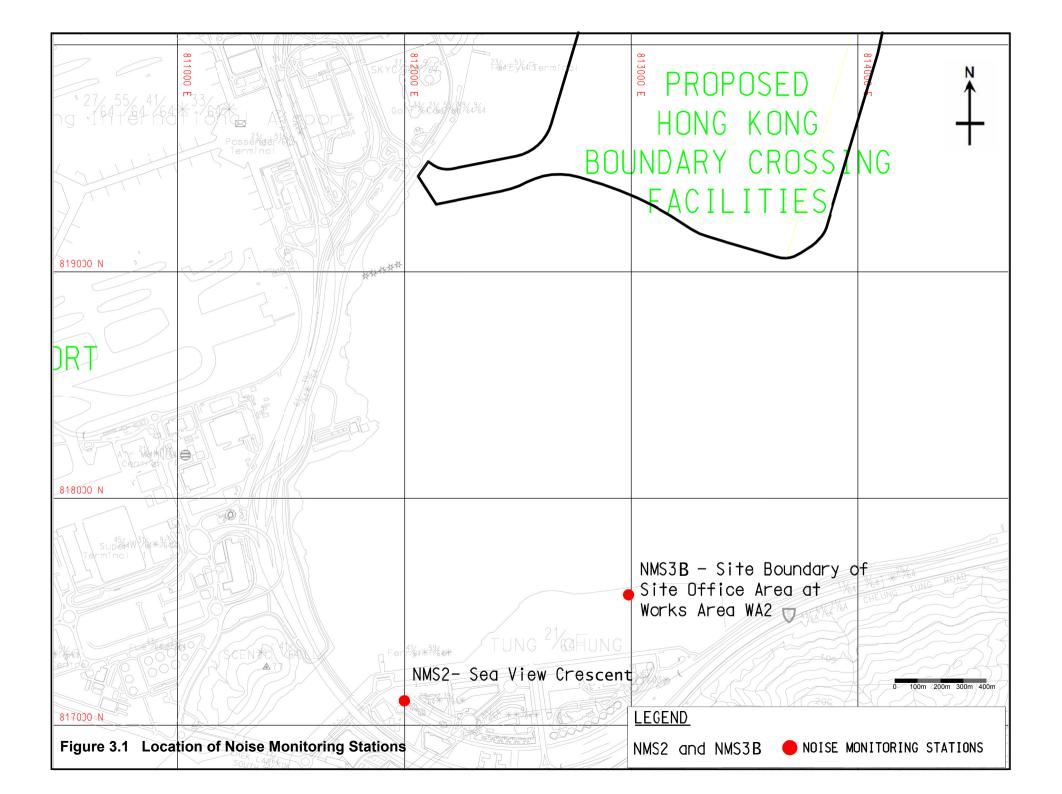




# **FIGURES**





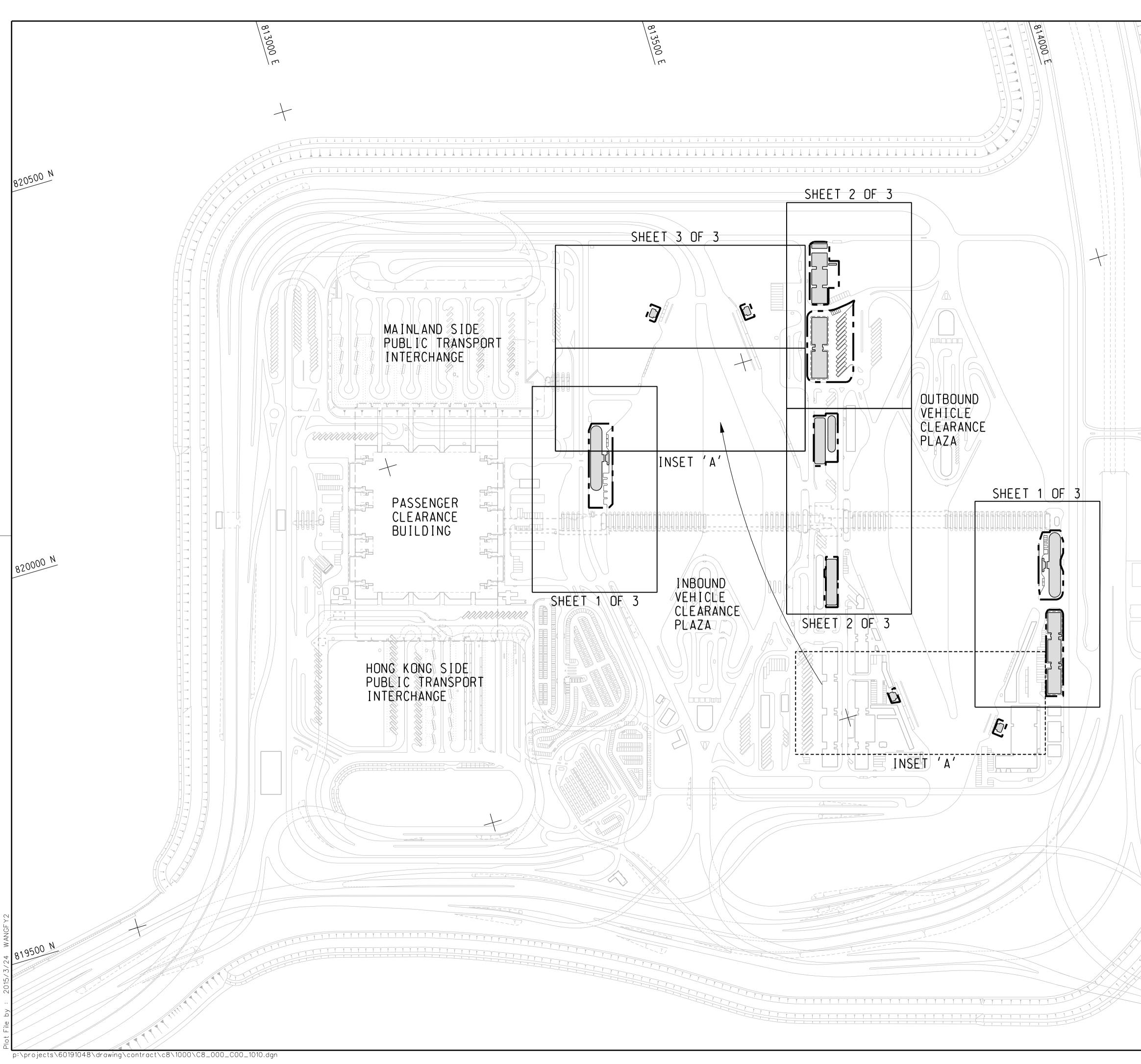




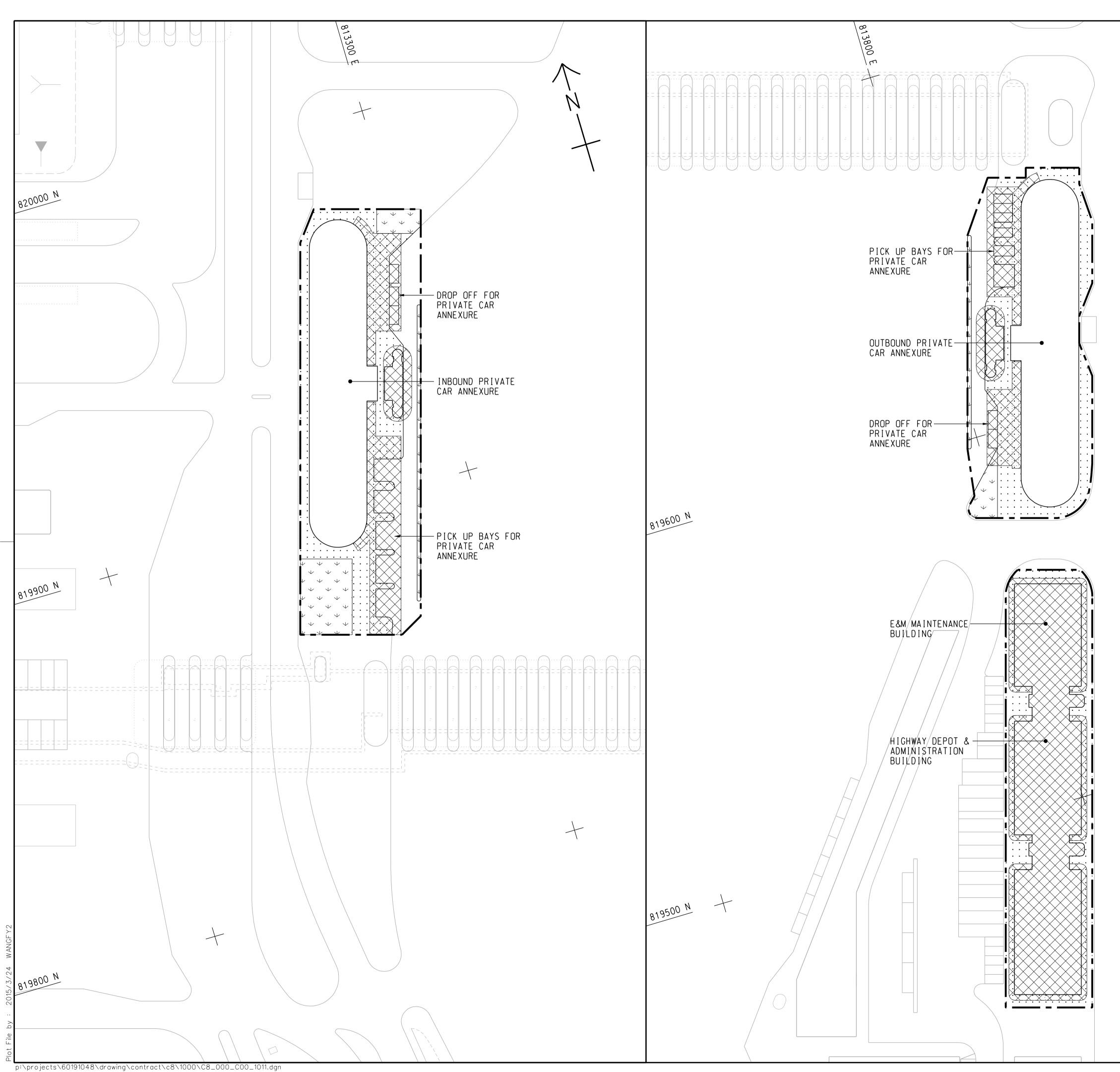


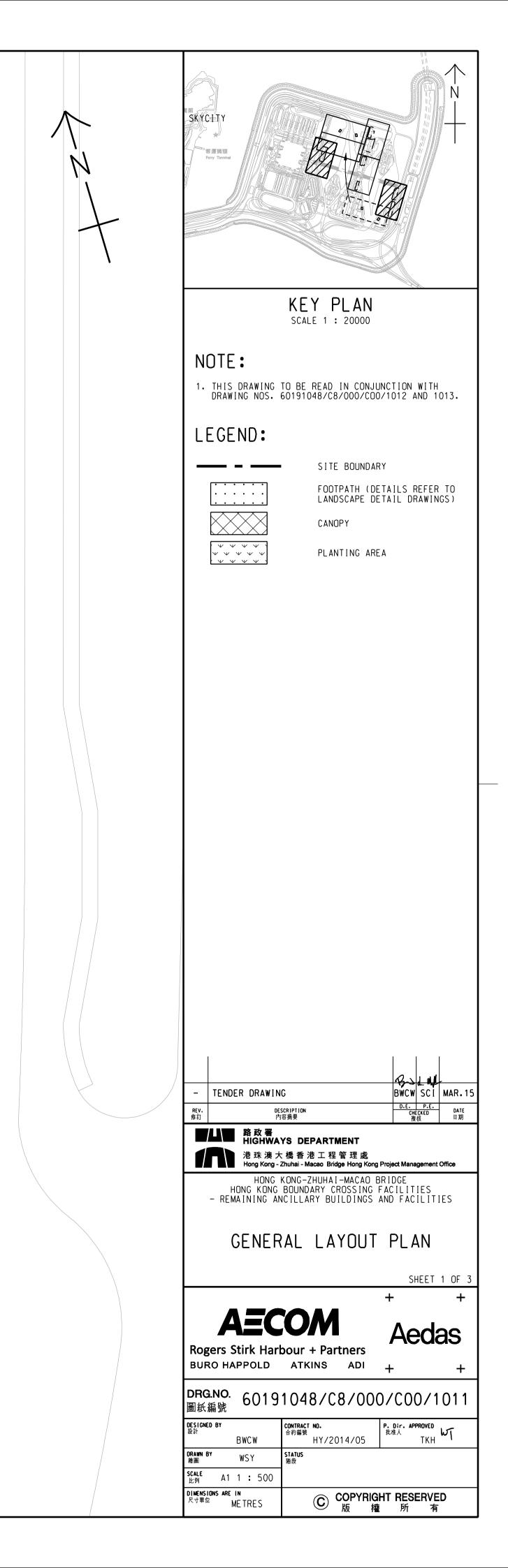
Location of Works Areas

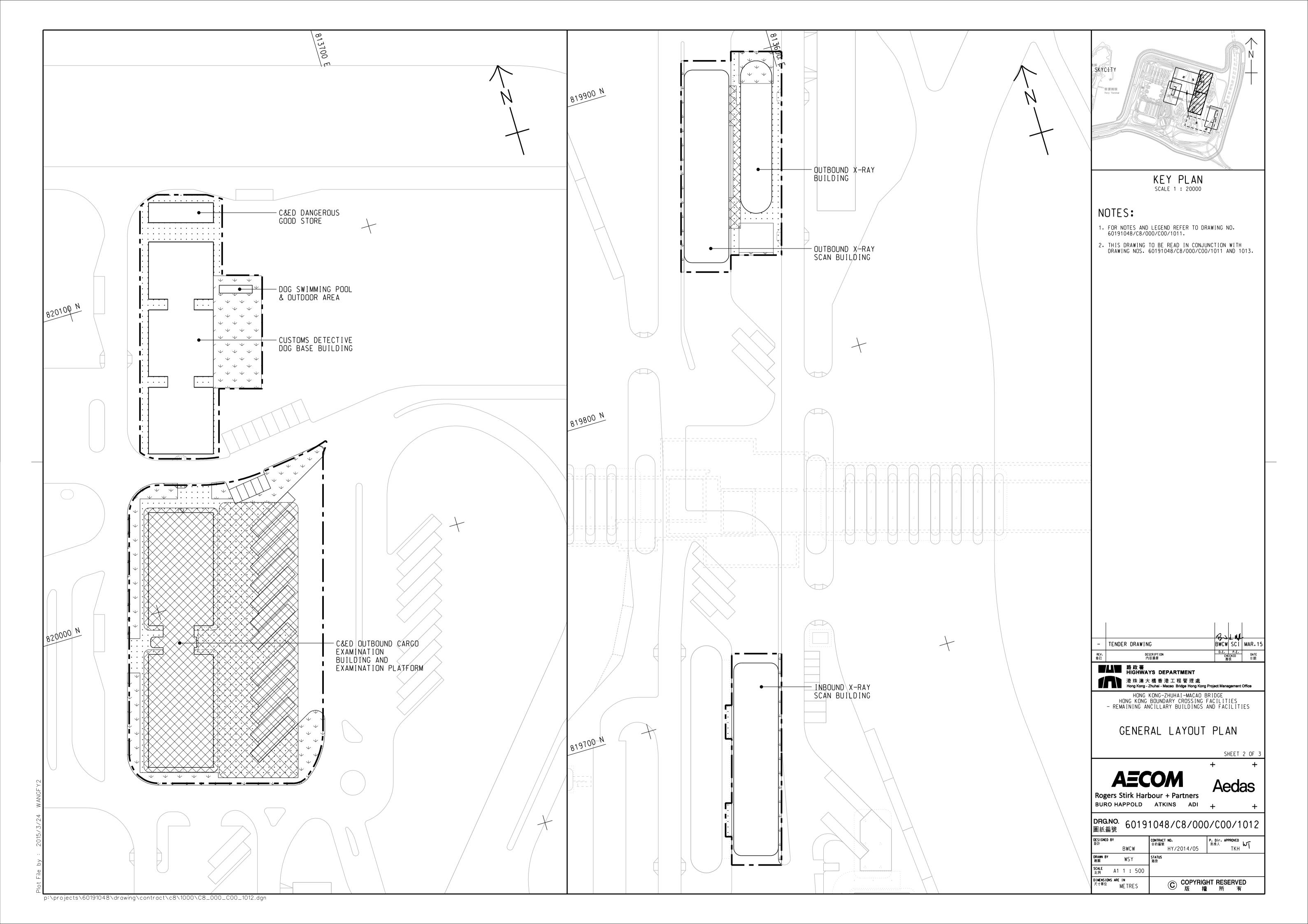


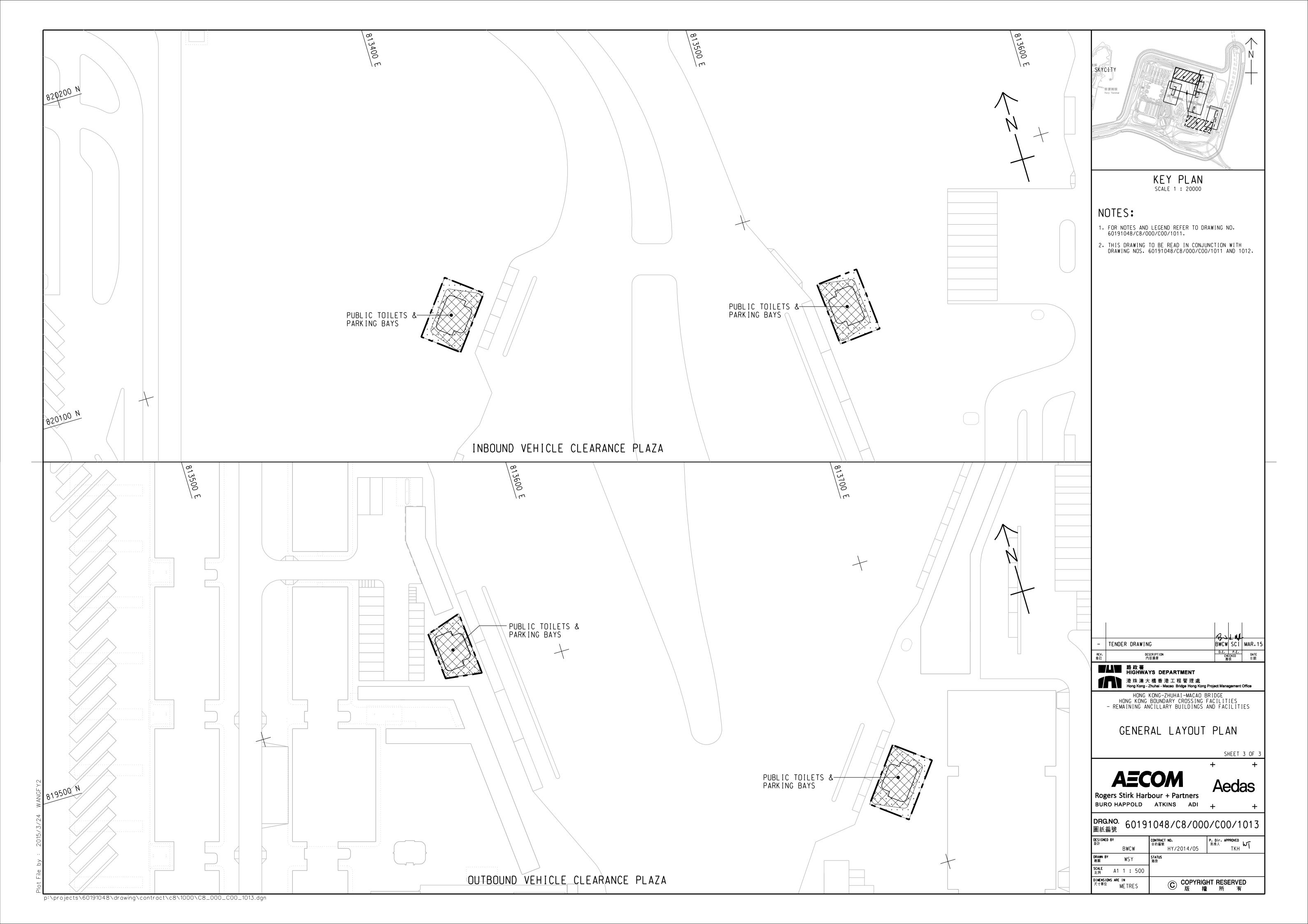


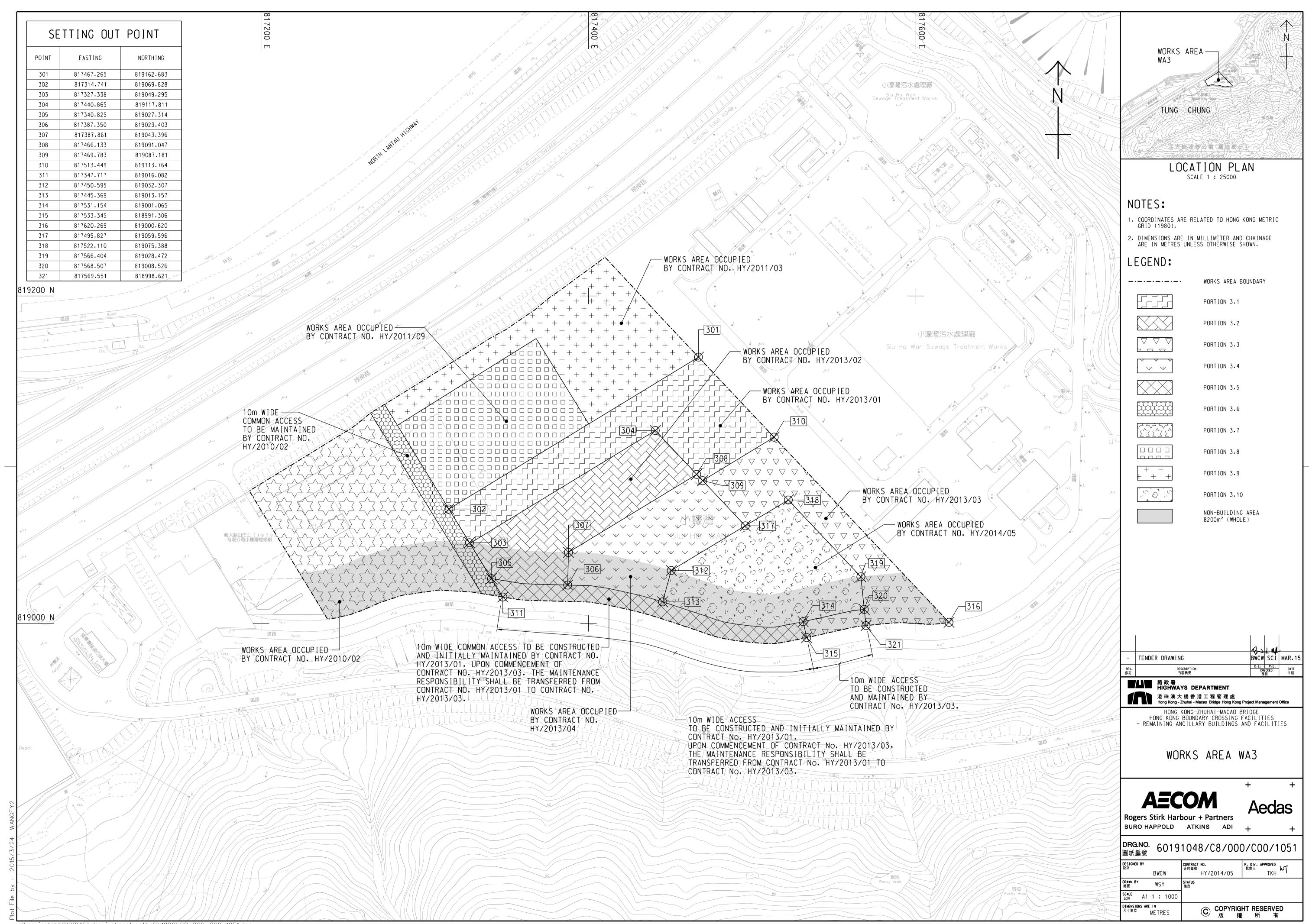
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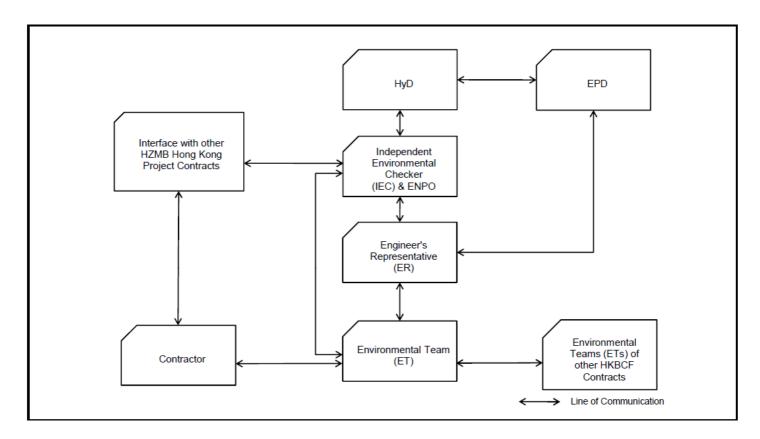


# **APPENDIX B**

Project Organization for Environmental Works











**Construction Programme** 



/ ID	Activity Name		er 2017		Decembe	er 2017				January 2018	3	
	Adivity Name		19	26 03	10	17	24	31	07	14	21	28
8 - 3 Month R	olling Programme, Statused	01 January 2018										
ROGRAMME												
	spection Schedule Summary										• ·	
ENERAL/PRE												
ESIGN AND E	NGINEERING											
ROCUREMEN	IT, MANUFACTURING & DELIV	'ERIES										
ONSTRUCTIO	DN .											
Building 021 - C&I	ED Dangerous Goods Store											
Raft												
Structure												
ABWF/E&M												
Internal Finishes												
Degree 1 Degree 2												
RAB-21-0410	021 - Power On							•				
Degree 3												
RAB-21-0345	KD4C - Projected achievement of Stage	4C of the Works						•				
RAB-KD4C10	021 - End Users and MoM handover ins	pection						•				
Roof Finishes												
RAB-21-0270	021 - Install Railing 50m											
External Finishes	;											
Facade RAB-21-0320	021 - Snagging and Remedials (External	)										
At Grade		)										
RAB-21-380	021 - Prepare Sub Grade											
RAB-21-390	021 - Lay Granular Sub-Base											
RAB-21-360	021 - Concrete Block Paving											
Utilities and Draina	-											
Testing & Commis	ssioning											
Statutory Submiss	sions & Approvals (Day 670 Completion)											
Dangerous Good												
RAB-21-0350	021 - DG Licence Iprocessing & Inspect	on										
RAB-21-0360	021 - Issue DG Licence							•				
Fire Servives Dep RAB-FSD-300	021 - FS Inspection Period											
RAB-FSD-310	021 - Fire Certificate Obtained (Form 17	2) Handover				,,, <del>,,,</del> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•				
Engineer (AECON												
RAB-21-2190	021 - Submit As-Built Drawings to the En	gineer						•				
RAB-21-2200	021 - Engineer Inspection Period											
RAB-21-2210	021 - Engineer Issue Occupation Permit											
RAB-KD154	KD4 - Projected completion of Section IV	of the Works (670 days) Building 0										
Building 022 - Cus	stoms Detective Dog Base Building											
Excavation												
Raft Foundations												
Structure												
Walls & Columns Roof Slab												
North Structure												
Cure and Strip												
Middle Structure												
	/el of Effort Actual Work	Critical Remaining								Date		R

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	February 2	018			March 2	2018
4	11	18	2	5	04	11
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ne, 01	Jan-18 Up	odate				

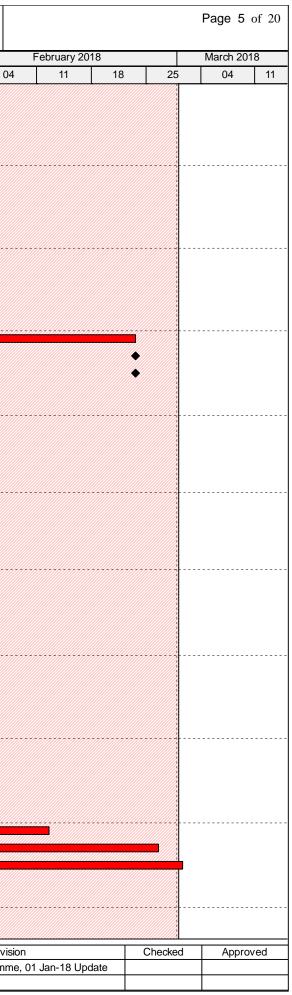
ID	Activity Name	er 2017		December 2017			Janua	ary 2018		
	,	19	26 03	10 17	24	31	07	14	21	28
Cure and Strip								L	L	
South Structure										
Cure and Strip										
ABWF/E&M										
Internal Finishes										
Degree 1										
Degree 2										
RAB-22-0910	022 - Power On					•				
Degree 3										
RAB-22-0865	022- Ceiling Frame & Board Panel		+	***/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/						
RAB-22-8395	022 - Wall Tiling & Painting									
RAB-22-8275	022 - MEP Final Fix									
RAB-22-8365	022 - Floor Finish Other Than Early Handovr Rooms									
RAB-22-8265	022 - Door Panel & Ironmongery									
RAB-22-8295	022 - Snagging and Remedials (Bldg. Internal)									
RAB-22-0870	022 - MEP Balance of Works									
RAB-22-0980	022 - End Users and MOM Handover Inspection							•		
RAB-22-0950	022 - ABWF and MEP works to Degree 3 (KD5C)							•		
External Finishes								•		
Facade										
RAB-22-0470	022 - External Painting, Tiling & Cladding									
RAB-22-0710	Snag Listing - Bldg. External & External Works						1			
At Grade										
RAB-22-2100	022 - Prepare Sub Grade									
RAB-22-2120	022 - Lay Granular Sub-Base			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
RAB-22-2140	022 - Concrete Block Paving									
RAB-22-2170	022 - Landscaping for Outdoor Excise Lawn									
Roof Finishes - N										
RAB-22-0720	022 - Make good external surfaces									
Specialist Installati	ons									
Window Wall										
Dog Swimming Po										
RAB-22-0600	022 - Tiling to Dog Swimming Pool									
RAB-22-0490	022 - Backfill to ground level at Dog Swimming Pool									
RAB-22-0640	022 - Plumbing and filtration systems									
RAB-22-0630	022 - Metalworks and Railings									
RAB-22-0700	022 - Snagging and Remedials - Dog Pool									
Utilities and Drainag										
Testing & Commiss							<u></u>	<u></u>		
RAB-TC22-1000	022 - T&C (HVAC, FS, P&D, OTHERS)									
	ons & Approvals (Day 670 Completion)									
BEEO							_			
RAB-BEE-120	022 - Registered Energy Assessor Inspection & Certification						•			
RAB-BEE-130	022 - Submit REA Certification to EDMS						•			<u></u>
RAB-BEE-140	022 - EDMS Issue of Cert of Compliance Registration (COCR)									
Water Supplies Dep	Dartment (WSD)									
Commencement										
Completion										
RAB-WSD-804	022 - Submit WWO 46 Pt. IV									
RAB-WSD-254	022 - WSD's Processing/Inspection/Meter Connection									
RAB-WSD-264	022 - Permanent Water ON/WSD Issue WWO 46 Part V Cert & W	vater Cor								- 🕈 🕌

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F	ebruary 201	8			March 2	2018
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LEIGHTON 輕量 守賀			tract No. HY/2014/05 - Remaining Ancillary Building and Facilities										Page 3					
tivity ID	Activity Name	er 2017		Dece	mber 2017			Ja	nuary 2018				February 2	2018		March 20		
		19	26	03 10	17	24	31	07	14	21	28	04	11	18	25	04		
Fire Servives Depa																		
Fire Services Water																		
RAB-FSD-330	022 - FS Inspection Period, FS														//////////////////////////////////////			
RAB-FSD-590	022 - Issuance of FS 172, FS CertIficate of Compliance, FS								•									
Engineer (AECOM)																		
RAB-22-2220	022 - Submit Building 022 As Built Drawings to Engineer						•											
RAB-22-2230	022 - Engineer Inspection Period																	
RAB-22-2240	022 - Engineer Issue Occupation Permit																	
RAB-KD144	KD5 - Projected completion of Section V of the Works (670																	
	D Outbound Cargo Examination Building and Examin	ation Platforn																
Excavation																		
Raft Foundations -	Inspection Platform																	
Structure																		
Ground Floor																		
Planters																		
RAB-23-6230	023 - Construct South Planter Box and Ramp																	
	and Columns to +12.85mPD																	
First Floor																		
Cure and Strip																		
Supporting Walls a	and Columns to +17.1mPD																	
Roof																		
Cure and Strip															//////////////////////////////////////			
	and Columns to +19.1mPD																	
Lift Doghouse																		
Cure and Strip ABWF/E&M																		
Internal Finishes																		
Ground Floor																		
Degree 1																		
Degree 2																		
RAB-23-5610	023 - Frame for Wall Panel & Cladding + Louver, G/F																	
Degree 3																		
RAB-23-5930	023 - Wall Finish - Paint & Tile, G/F		1															
RAB-23-6220	023 - Floor Finish Other Than Carpet, G/F																	
RAB-23-5760	023 - Ceiling Frame, G/F																	
RAB-23-6380	023 - MEP Final Fix, G/F																	
RAB-23-5660	023 - Door Frame/Panel & Ironmongery, G/F																	
RAB-23-6410	023 - Ceiling Plaster Board, G/F		τ <i>ξ/////////////////////////////////</i>			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												
RAB-23-6180	023 - Floor Carpet Finish, G/F								I									
RAB-23-6190	023 - Access to End Users, KD3C' - C3, C6 & C7									•								
First Floor	÷																	
Degree 1																		
Degree 2																		
RAB-23-8085	023 - Frame for Wall Panel & Cladding + Louver, 1/F		Y////////															
Degree 3																		
RAB-23-8175	023 - Wall Finish - Paint & Tile, 1/F																	
RAB-23-8105	023 - Ceiling Frame, 1/F		i <i>k////////////////////////////////</i>				<b>_</b>											
RAB-23-8205	023 - Floor Finish Other Than Carpet, 1/F		Y////////															
RAB-23-8145	023 - Glazing, 1/F																	
RAB-23-8155	023 - Door Panel/Ironmongery & Glass Baluster, 1/F																	
RAB-23-8185	023 - Ceiling Plaster Board, 1/F		······································															
	el of Effort Actual Work Critical Re	maining 3-Mon				e, 01 Jan			Date			Revisior			Checked	Арр		

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ity ID	Activity Name	er 2017 December 2017	January 2018	February 2018 March 2018
	023 - Floor Carpet Finish, 1/F	19 26 03 10 17 24 3	1 07 14 21 28	04 11 18 25 04
RAB-23-8195				
RAB-23-8265	023 - MEP Balance of Works			
RAB-23-2290	023 - Snag Listing & Remedial Works - Building Internal			¥
RAB-23-8225	023 - Handover Rooms Ready to End Users***, KD3C Target to Achieve		•	
RAB-23-5970	023 - ABWF and MEP works to Degree 3 (KD3E)		◆	
RAB-23-6040	023 - End Users and MOM Handover Inspection		•	
RAB-23-8255	023 - ABWF and MEP works to Degree 3 - Remaining Area- 1/F		◆	
Roof Level Dog Ho				
RAB-23-6280	023 - ABWF and MEP works to Degree 2 R/F			
RAB-23-6340	023 - ABWF and MEP works to Degree 3 R/F			
External Finishes				
Facade				
RAB-23-5650	023 - External Painting		—	
At Grade				
RAB-23-5740	023 - Prepare Sub Grade			
RAB-23-5820	023 - Laying Geo Textile			
RAB-23-5910	023 - Lay Granular Sub-Base			
RAB-23-5940	023 - Laying Course			
RAB-23-6050	023 - Concrete Block Paving			
RAB-23-6160	023 - Make good external surfaces			
Curtain Wall				
East				
RAB-23-6810	023 - Install Primary Steelwork for Curtain Wall (Bracket Support) - E			
RAB-23-6820	023 - Install Secondary Steelwork for Curtain Wall (Mullion, etc) - E			
RAB-23-6830	023 - Glazing to Window Wall - E			
West				
RAB-23-6840	023 - Install Primary Steelwork for Window Wall (Bracket Support) - W			
RAB-23-6850	023 - Install Secondary Steelwork for Window Wall (Mullion, etc) - W			
RAB-23-6860	023 - Glazing to Window Wall - W			
Roof Finishes				
RAB-23-5920	023 - Install Railing			
Green Roof				
Specialist Installat	ions			
PV Installation				
RAB-23-6360	023 - Cable containment and grid cable wiring			
RAB-23-6390	023 - Sub-array junction box installation & Connection			
RAB-23-6400	023 - DC cable wiring from PV panel to EL room			
Steel Canopy				
RAB-23-6290	023 - Install Metal Cladding Panels			
RAB-23-6310	023 - Install Misc Metalworks			
Utilities and Draina				
RAB-23-7975	023 - Construct Permanent Drainage, Manholes & Draw Pits		······	
RAB-23-7985	023 - Utilities and Common Telecom Ducting			
Testing & Commiss				
RAB-TC23-1000	023 - T&C (HVAC, FS, P&D, OTHERS)		1	
RAB-TC23-1015	023 - PV Self-test with Engineer			
RAB-TC23-1020	023 - PV On-Grid inspection with CLP			Y/////////////////////////////////////
	ons & Approvals (Day 610 Completion)			
BEEO				
RAB-BEE-150	023 - Registered Energy Assessor Inspection & Certification			
RAB-BEE-160	023 - Submit REA Certification to EDMS			
			<b>_</b>	
Remaining Leve	el of Effort Actual Work Critical Remaining	3-Month Rolling Programme Update, 01 Jan. 20	19 Date R	evision Checked Approv

' ID	Activity Name	er 2017			December 201	7		Januar	v 2018		
		19	26	03	- T T	7 24	31		14 2	1	28
RAB-BEE-170	023 - EDMS Issue of Cert of Compliance Registration (COCR)										
EMSD - Building 0	23 Lift Inspection										
RAB-FSD-190	023 - EMSD Lift Inspection					I					
RAB-FSD-106	023 - EMSD Lift Certificate Issued - Building 023		1				•				
Water Supplies De	partment (WSD)		1								
Commencement			1								
Completion			1								
RAB-WSD-774	023 - Submit WWO 46 Pt. IV for Building 023					•					
RAB-WSD-107	023 - WSD Inspection/Meter Connection		1								
RAB-WSD-109	023 - Permanent Water ON/WSD Issue WWO 46 Part V - Water C	ertificate					////			4	•
Fire Servives Depa			1								
RAB-FSD-110	023 - FS Inspection Period For Building 023		1								
RAB-FSD-290	023 - Issuance of FS 172, FS Certificate of Compliance		1					•	,		
Engineer (AECOM			1								
RAB-23-2250	023 - Submit Building 023 As Built Drawings to Engineer						///	•			
RAB-23-2260	023 - Engineer Inspection Period										
RAB-23-2270	023 - Engineer Issue Occupation Permit		1								
RAB-KD134	KD3 - Projected completion of Section III of the Works (610 days)		1								
3uilding 025 - Inbo	und Private Car Annexure		1								
Excavation			+								
Raft Foundations			1								
Structure			1								
Walls & Columns Roof Slab			1								
Cure and Strip											
ABWF/E&M INTERN											
INTERNAL FINISH			1								
Degree 1			1								
Degree 2											
Degree 3											
RAB-25-7620	025 - Ceiling Panel										
RAB-25-7580	025 - Floor Painting										
RAB-25-7590	025 - Floor Carpet		1								
RAB-25-7550	025 - MEP Balance of Works										
RAB-25-7370	025 - Snagging and Remedials		1								
RAB-25-7375	KD6C - Projected achievement of Stage 6C of the Works						•	•			
RAB-KD6C10	025 - End Users and MoM handover inspection							•			
RAB-25-7630	025 - Early Handover Rooms Ready to End Users***, Target to Ach	eve KDI	1					•			
<b>External Finishes</b>											
Facade			1								
RAB-25-0580	025 - Make good external surfaces		+								
At Grade			1								
RAB-25-6400	025 - Prepare Sub Grade		1								
RAB-25-6390	025 - Laying Geo Textile		1								1
RAB-25-6410	025 - Lay Granular Sub-Base		1								
RAB-25-6420	025 - Laying Course							I			
RAB-25-6380	025 - Concrete Block Paving		1						-		
RAB-25-0600	025 - Snagging and Remedials										
Roof Finishes			1								
RAB-25-0550	025 - Install Railing (222m)		1								
Green Roof					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						•••••
			1								
Specialist Installat	tions		1				////X				



LEIGHTON 程 初										
ity ID	Activity Name	er 2017		December 2017		January 2		February 2018		March 2018
RAB-25-620	025 - Construct Health Department Screening Station x 1	19	26 03	10 17	24 31	07 14	21	28 04 11	18 25	04
RAB-25-610	025 - Construct Immigration Counters x 3									
Glazed Canopy										
RAB-25-0520	025 - Install Glazed Panels				//////////////////////////////////////				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
IMMD Kiosk										
RAB-25-0380	025 - Internal ABWF and MEP of IMMD Kiosk									
RAB-25-0350	025 - External Finishes to IMMD Kiosk									
RAB-25-0430	025 - Erect Kiosk Canopy @ +10.17mPD									
Utilities and Drainag					<i></i>				//////////////////////////////////////	
RAB-25-7250	025 - Construct Permanent Drainage, Manholes & Draw Pits									
RAB-25-7270	025 - Install Flushing Water Mains									
RAB-25-7280	025 - Install Fresh Water Mains									
RAB-25-7290	025 - Install FS Water Main									
Testing & Commissi			· <sup>1</sup>							
	01110 025 - T&C (HVAC, FS, P&D, OTHERS)									
	ons & Approvals (Day 670 Completion)									
BEEO										
RAB-BEE-180	025 - Registered Energy Assessor Inspection & Certification									
RAB-BEE-190	025 - Submit REA Certification to EDMS				//////////////////////////////////////	•			///////////////////////////////////////	,
RAB-BEE-200	025 - EDMS Issue of Cert of Compliance Registration (COCR)					•				
Water Supplies Dep										
Commencement										
Completion										
RAB-WSD-744	025 - Submit WWO 46 Pt. IV								( <i>11111111111111111</i> )	
RAB-WSD-374	025 - WSD Inspection/Meter Connection									
RAB-WSD-384	025 - WSD Issue Water Certificate WWO 46 Part V									
Fire Servives Depar								•		
Fire Service Water (										
RAB-FSD-360	025 - FS Inspection Period, FS									
RAB-FSD-894	025 - Issuance of Fform 172, FS Certificate of Compliance					•				
Engineer (AECOM)										
RAB-25-7220	025 - Submit Building 025 As Built Drawings to Engineer					•				
RAB-25-7230	025 - Engineer Inspection Period									
	bund Private Car Annexure		· <del> </del>		<i></i>					
Excavation										
Raft Foundations										
Structure										
Walls & Columns										
Roof Slab										
Cure and Strip										
ABWF/E&M										
Internal Finishes										
Degree 1					//////////////////////////////////////					
Degree 2										
RAB-32-0660	032 - Power On									
Degree 3						_				
RAB-32-0830	032 - Wall Painting									
RAB-32-0745	032 - Raised Floor		i	<u> </u>	//////////////////////////////////////				//////////////////////////////////////	
RAB-32-0870	032 - Ceiling Panel									
RAB-32-0860	032 - Floor Painting & Remaining Floor Tiling									
RAB-32-0590	032 - MEP Final Fix									
RAB-32-0800	032 - Door Panel & Ironmongery		V/////////////////////////////////////							
Domoining Law						<b>D</b> a	te	Revision	Checked	Approv
Remaining Level	of Effort Actual Work Critical Remaining	3-Month	Polling Dro	gramme Update, (	11 Ion 201	x <u> </u>	8 3-Month Rol			+

ty ID	Activity Name	er 2017			Decer	nber 2017					January	/ 2018		
ly ID			26 0	3	10	17		24	31	07		14	21	28
RAB-32-0790	032 - Glazing													
RAB-32-0850	032 - Early Handover Rooms Ready to End Users***								•					
RAB-32-0680	32 - Snagging and Remedials	_												
RAB-32-0740	032 - MEP Balance of Work	_									_			
RAB-32-0670	032 - End Users and MoM handover inspection	-									,	•		
RAB-KD7C10	KD7C - Projected achievement of Stage 7C of the Works	-										•		
Roof Finishes	, , , , , , , , , , , , , , , , , , ,													
RAB-32-0540	032 - Install Cat Ladders and Roof Hatch													
RAB-32-0550	032 - Install Railing	-												
Green Roof														
External Finishes														
Facade														
RAB-32-0580	032 - Make good external surfaces													
At Grade														
RAB-32-6460	032 - Prepare Sub Grade													
RAB-32-6450	032 - Laying Geo Textile	-												<b>—</b>
RAB-32-6470	032 - Lay Granular Sub-Base													
RAB-32-6480	032 - Laying Course	-												
RAB-32-6440	032 - Concrete Block Paving	-												
RAB-32-0600	032 - Snagging and Remedials (KD7)	-												
Specialist Installat														
RAB-32-630	032 - Construct Immigration Counters x 3					*****	*/*/*/*/*/*/*	<u>hahahahaha</u>						
RAB-32-640	032 - Construct Health Department Screening Station X 1	-												
IMMD Kiosk														
RAB-32-0380	032 - Internal ABWF and MEP of IMMD Kiosk													
RAB-32-0350	032 - External Finishes to IMMD Kiosk	-												
RAB-32-0430	032 - Erect Kiosk Canopy @ +10.17mPD													
Glazed Canopy										-				
RAB-32-0520	032 - Install Glazed Panels	-												
Utilities and Draina														
RAB-32-7310	032 - Install Flushing Water Mains													
RAB-32-7320	032 - Install Fresh Water Mains			*/*/*/*/*/*/*/		*****		*****						
RAB-32-7330	032 - Install FS Water Main													
Testing & Commiss														
RAB-TC32-1000	032 - T&C (HVAC, FS, P&D, OTHERS)													
Statutory Submissi	ons & Approvals (Day 670 Completion)													
BEEO														
RAB-BEE-210	032 - Registered Energy Assessor Inspection & Certification	=												
RAB-BEE-220	032 - Submit REA Certification to EDMS	-												
RAB-BEE-230	032 - EDMS Issue of Cert of Compliance Registration (COCR)	-												
Water Supplies De	partment (WSD)													
Commencement														
Completion														
RAB-WSD-714	032 - Submit WWO 46 Pt. IV										•			
RAB-WSD-354	032 - WSD Issue WWO 46 Part V - Completion Cert of Plumbing & Water (										•			
RAB-WSD-344	032 - WSD Inspection/Meter Connection	_												
Fire Servives Depa	rtment (HVAC)													
Fire Water Service														
RAB-FSD-390	032 - FS Inspection Period, FS													
RAB-FSD-400	032 - Issuance of Form 172, FS Cert. of Compliance.													
Engineer (AECOM)														
		<b></b>												X////
Remaining Leve	el of Effort Actual Work Critical Remaining	3-Month										Date		



Building 044 - E&M Maintenance Building           Raft           Raft           Structure           Walls & Columns           Ground to First Floor           First Floor           Cure and Strip           First Floor to Second Floor           Second Floor to Roof           Roof Level           Cure and Strip           ABWF/E&M           Ground Floor           Degree 1           Degree 2           RAB-44-9175         044 - MEP 2nd Fix           RAB-44-9285         044 - Wall Finish, F           RAB-44-9285         044 - Ceiling Paint           RAB-44-9285         044 - Ceiling Panel           RAB-44-9385	ime	er 2017														
Building 044 - E&M Maintenance Build Excavation Raft Structure Walls & Columns Ground to First Floor First Floor Cure and Strip First Floor to Second Floor Second Floor to Roof Roof Level Cure and Strip Second Floor to Roof Roof Level Cure and Strip ABWF/E&M Ground Floor Degree 1 Degree 2 RAB-44-9175 044 - MEP 2nd Fix RAB-44-9255 044 - Ceiling Paint RAB-44-9255 044 - Ceiling Painel RAB-44-9255 044 - Ceiling Painel RAB-44-9355 044 - Ceiling Painel RAB-44-9355 044 - Ceiling Painel RAB-44-9355 044 - Ceiling Paint RAB-44-9355 044 - Ceiling Paint RAB-44-9355 044 - Ceiling Paint RAB-44-9355 044 - MEP 2nd Fix RAB-44-9355 044 - Ceiling Paint RAB-44-9355 044 - MEP 2nd Fix RAB-44-9355 044 - Ceiling Paint RAB-44-9355 044 - Ceiling Paint RAB-44-93		er 2017			December 20	17		Jar	nuary 2018			Februar	ry 2018		March 201	
Building 044 - E&M Maintenance Build         Excavation         Raft         Structure         Walls & Columns         Ground to First Floor         First Floor         Cure and Strip         First Floor to Second Floor         Second Floor to Roof         Roof Level         Cure and Strip         ABWF/E&M         Ground Floor         Degree 1         Degree 2         RAB-44-9175       044 - MEP 2nd Fix         RAB-44-9255       044 - Ocaling Paint         RAB-44-9255       044 - Wall Finish, F         RAB-44-9255       044 - Ceiling Paint         RAB-44-9355       044 - Ceiling Paint         RAB-44-9355 </td <td></td> <td>19</td> <td>26</td> <td>03</td> <td>10</td> <td>17 24</td> <td>31</td> <td>07</td> <td>14</td> <td>21</td> <td>28 04</td> <td>4 11</td> <td>18</td> <td>25</td> <td>04</td>		19	26	03	10	17 24	31	07	14	21	28 04	4 11	18	25	04	
ExcavationRaftStructureWalls & ColumnsGround to First FloorFirst FloorCure and StripSecond Floor to RoofRoof LevelCure and StripABWF/E&MGround FloorDegree 1Degree 2RAB-44-9175044 - MEP 2nd FixRAB-44-9285044 - Oceiling PaintRAB-44-9285044 - Wall Finish, FRAB-44-9285044 - Ceiling PaintRAB-44-9285044 - Ceiling PaintRAB-44-9285044 - Ceiling PaintRAB-44-9285044 - Ceiling PaintRAB-44-9285044 - Ceiling PaintRAB-44-9255044 - Ceiling PaintRAB-44-9255044 - Ceiling PaintRAB-44-9255044 - Ceiling PaintRAB-44-9255044 - Ceiling PaintRAB-44-9355044 - Ceiling PaintRAB-44-9355044 - Ceiling PaintRAB-44-9355044 - MEP Pinal FixRAB-44-9255044 - Ceiling PaintRAB-44-9355044 - Ceiling PaintRAB-44-9255044 - Ceiling PaintRAB-44-9365044 - Ceiling PaintRAB-44-9365044 - Ceiling PaintRAB-44-9365044 - Ceiling Paint<	mit Building 032 As Built Drawings to Engineer						•									
Raft           Structure           Walls & Columns           Ground to First Floor           First Floor           Cure and Strip           First Floor to Second Floor           Second Floor to Roof           Roof Level           Cure and Strip           Second Floor to Roof           Roof Level           Cure and Strip           ABWF/E&M           Ground Floor           Degree 1           Degree 2           RAB-44-9175         044 - MEP 2nd Fix           RAB-44-9285         044 - Wall Finish, F           RAB-44-9285         044 - Wall Finish, F           RAB-44-9285         044 - Ceiling Paint           RAB-44-9385         044 - Ceiling Paint           RAB-44-9385         044 - Ceiling Paint	ce Building															
StructureWalls & ColumnsGround to First FloorFirst Floor to Second FloorSecond Floor to Second FloorSecond Floor to RoofRoof LevelCure and StripABWF/E&MGround FloorDegree 1Degree 2RAB-44-9175044 - MEP 2nd FixRAB-44-9760044 - Wall Finish, FRAB-44-9285044 - Wall Finish, FRAB-44-9285044 - Ceiling PaintRAB-44-9285044 - Ceiling PaintRAB-44-9395044 - Ceiling PaintRAB-44-9355044 - Ceiling PaintRAB-44-9355044 - MEP Paint FixRAB-44-9355044 - MEP Paint FixRAB-44-9355044 - MEP Paint FixRAB-44-9355044 - MEP Paint FixRAB-44-9355044 - MEP Final FixRAB-44-9355044 - Ceiling PaintRAB-44-9355044 - Ceili																
Walls & ColumnsGround to First FloorFirst Floor to Second FloorSecond Floor to RoofRoof LevelCure and StripSecond Floor to RoofRoof LevelCure and StripABWF/E&MGround FloorDegree 1Degree 2RAB-44-9175044 - MEP 2nd FixRAB-44-0760044 - Door & WindDegree 3RAB-44-9255044 - Wall Finish, FRAB-44-9255044 - Ceiling PaintRAB-44-9255044 - Ceiling PaintRAB-44-9255044 - Ceiling PanelRAB-44-9255044 - Ceiling PanelRAB-44-9255044 - Ceiling PanelRAB-44-9255044 - Ceiling PanelRAB-44-9355044 - Ceiling PlasteRAB-44-9355044 - Ceiling PlasteFirst FloorDoor Panel &Degree 1Joor Panel &Degree 2Image: Color Co																
Ground to First Floor         First Floor to Second Floor         Second Floor         Second Floor to Roof         Roof Level         Cure and Strip         ABWF/E&M         Ground Floor         ABWF/E&M         Ground Floor         Degree 1         Degree 2         RAB-44-9175       044 - MEP 2nd Fix         RAB-44-9285       044 - MEP 2nd Fix         RAB-44-9285       044 - Ceiling Paint         RAB-44-9285 <th c<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>///</td><td></td><td></td><td></td><td></td><td></td><td></td><td>//////////////////////////////////////</td><td></td></th>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>///</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>//////////////////////////////////////</td> <td></td>							///							//////////////////////////////////////	
First FloorGure and StripSecond Floor to Second FloorCure and StripABWF/E&MGround FloorDegree 1Degree 2RAB-44-9175044 - MEP 2nd FixRAB-44-9175044 - MEP 2nd FixRAB-44-9175044 - MEP 2nd FixRAB-44-9175044 - MEP 2nd FixRAB-44-9285044 - Wall Finish, FRAB-44-9285044 - Ceiling PaintRAB-44-9285044 - Ceiling PaintRAB-44-9265044 - Ceiling PaintRAB-44-9265044 - Ceiling PaintRAB-44-9265044 - Ceiling PaintRAB-44-9255044 - Ceiling PaintRAB-44-9255044 - Ceiling PaintRAB-44-9255044 - Ceiling PaintRAB-44-9255044 - Ceiling PlasteFirst FloorDegree 1Degree 2RAB-44-9365044 - MEP 2nd FixRAB-44-9365044 - MEP Final FixRAB-44-9365044 - MEP Final Fi																
Cure and Strip           First Floor to Second Floor           Second Floor to Roof           Cure and Strip           Second Floor to Roof           Roof Level           Cure and Strip           ABWF/E&M           Ground Floor           Degree 1           Degree 2           RAB-44-9175         044 - MEP 2nd Fix           RAB-44-9285         044 - Oor & Wind           Degree 3         Part Strip           RAB-44-9255         044 - Ceiling Paint           RAB-44-9255         044 - Ceiling Panel           RAB-44-9355         044																
First Floor to Second Floor         Second Floor to Roof         Roof Level         Cure and Strip         ABWF/E&M         Ground Floor         Degree 1         Degree 2         RAB-44-9175       044 - MEP 2nd Fix         RAB-44-9175         044 - MEP 2nd Fix         RAB-44-9285       044 - Wall Finish, F         RAB-44-9285       044 - Ceiling Paint         RAB-44-9285       044 - MEP Final Fiz         RAB-44-9285       044 - Ceiling Paint         RAB-44-9285       044 - Ceiling Paint         RAB-44-9285       044 - Ceiling Paint         RAB-44-9285       044 - Ceiling Panel         RAB-44-9285       044 - Ceiling Panel         RAB-44-9275       044 - Ceiling Panel         RAB-44-9285       044 - Ceiling Panel         RAB-44-9295       044 - Ceiling Panel         RAB-44-9295       044 - Ceiling Panel         RAB-44-9365       044 - Ceiling Panel         RAB-44-9355       044 - Ceiling Pane																
Second Floor           Cure and Strip           Second Floor to Roof           Roof Level           Cure and Strip           ABWF/E&M           Ground Floor           Degree 1           Degree 2           RAB-44-9175         044 - MEP 2nd Fix           RAB-44-9285         044 - Wall Finish, F           RAB-44-9285         044 - Ceiling Paint           RAB-44-9285         044 - Ceiling Paint           RAB-44-9255         044 - Ceiling Paint           RAB-44-9255         044 - Ceiling Paint           RAB-44-9255         044 - Ceiling Panel           RAB-44-9255         044 - Ceiling Plaste           RAB-44-9255         044 - Ceiling Plaste           RAB-44-9255         044 - Ceiling Plaste           RAB-44-9255         044 - MEP 2nd Fix           RAB-44-9355         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix																
Cure and Strip           Second Floor to Roof           Roof Level           Cure and Strip           ABWF/E&M           Ground Floor           Degree 1           Degree 2           RAB-44-9175         044 - MEP 2nd Fix           RAB-44-9285         044 - Wall Finish, F           RAB-44-9285         044 - Wall Finish, F           RAB-44-9285         044 - Ceiling Paint           RAB-44-9285         044 - Ceiling Paint           RAB-44-9255         044 - Ceiling Paint           RAB-44-9255         044 - Ceiling Panel           RAB-44-9265         044 - Ceiling Panel           RAB-44-9235         044 - Ceiling Panel           RAB-44-9235         044 - Ceiling Panel           RAB-44-9245         044 - Ceiling Panel           RAB-44-9245         044 - Ceiling Plaste           RAB-44-9245         044 - Ceiling Plaste           RAB-44-9245         044 - Ceiling Plaste           First Floor         Degree 1           Degree 1         Deor & Wind           Degree 2         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP final F																
Second Floor to Roof           Roof Level           Cure and Strip           ABWF/E&M           Ground Floor           Degree 1           Degree 2           RAB-44-9175         044 - MEP 2nd Fix           RAB-44-0760         044 - Door & Wind           Degree 3           RAB-44-9285         044 - Wall Finish, F           RAB-44-9255         044 - Ceiling Paint           RAB-44-9255         044 - Ceiling Paint           RAB-44-9255         044 - Ceiling Panel           RAB-44-9255         044 - Ceiling Plaste           First Floor         Degree 1           Degree 2         Degree 2           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix </td <td></td>																
Roof Level           Cure and Strip           ABWF/E&M           Ground Floor           Degree 1           Degree 2           RAB-44-9175         044 - MEP 2nd Fix           RAB-44-0760         044 - Door & Wind           Degree 3         044 - Wall Finish, F           RAB-44-9285         044 - Ceiling Paint           RAB-44-9285         044 - Ceiling Paint           RAB-44-9255         044 - Ceiling Panel           RAB-44-9235         044 - Ceiling Panel           RAB-44-9235         044 - Ceiling Panel           RAB-44-9245         044 - Ceiling Panel           RAB-44-9255         044 - Ceiling Panel           RAB-44-9255         044 - Door Panel &           RAB-44-9355         044 - Ceiling Plaste           First Floor         Degree 1           Degree 2         Door & Wind           Degree 3         Q44 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP Final Fix																
Cure and Strip           ABWF/E&M           Ground Floor           Degree 1           Degree 2           RAB-44-9175         044 - MEP 2nd Fix           RAB-44-0760         044 - Door & Wind           Degree 3         044 - Wall Finish, F           RAB-44-9285         044 - Ceiling Paint           RAB-44-9285         044 - Ceiling Panel           RAB-44-9235         044 - Ceiling Panel           RAB-44-9245         044 - Ceiling Panel           RAB-44-9255         044 - Door Panel &           RAB-44-9255         044 - Ceiling Plaste           RAB-44-9355         044 - Ceiling Plaste           First Floor         Degree 1           Degree 2         Door & Wind           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP																
ABWF/E&M           Ground Floor           Degree 1           Degree 2           RAB-44-9175         044 - MEP 2nd Fix           RAB-44-0760         044 - Door & Wind           Degree 3         044 - Wall Finish, F           RAB-44-9285         044 - Ceiling Paint           RAB-44-9255         044 - Ceiling Panel           RAB-44-9255         044 - Ceiling Panel           RAB-44-9255         044 - Ceiling Panel           RAB-44-9255         044 - Ceiling Plaste           RAB-44-9255         044 - Door Panel &           RAB-44-9355         044 - Ceiling Plaste           First Floor         Degree 1           Degree 2         Door & Wind           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP final Fit           RAB-44-9365         044 - Ceiling Paint           RA																
Ground Floor           Degree 1           Degree 2           RAB-44-9175         044 - MEP 2nd Fix           RAB-44-0760         044 - Door & Wind           Degree 3         044 - Ocal Wall Finish, F           RAB-44-9255         044 - Ceiling Paint           RAB-44-9255         044 - Ceiling Panel           RAB-44-9255         044 - Door Panel &           RAB-44-9355         044 - Ceiling Plaste           RAB-44-9355         044 - Ceiling Plaste           First Floor         Degree 1           Degree 2         Parel 1           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP final Fix           RAB-44-9365         044 - Ceiling Pan												94747474747474747474747 	47477777777777777777777777777777777777			
Degree 1           Degree 2           RAB-44-9175         044 - MEP 2nd Fix           RAB-44-0760         044 - Door & Wind           Degree 3         044 - Wall Finish, F           RAB-44-9285         044 - Ceiling Paint           RAB-44-9255         044 - Ceiling Panel           RAB-44-9255         044 - Ceiling Plaste           RAB-44-9355         044 - Ceiling Plaste           RAB-44-9355         044 - Ceiling Plaste           First Floor         Degree 1           Degree 2         Panel           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - Ceiling Panel           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365																
Degree 2           RAB-44-9175         044 - MEP 2nd Fix           RAB-44-0760         044 - Door & Wind           Degree 3            RAB-44-9285         044 - Wall Finish, F           RAB-44-9285         044 - Ceiling Paint           RAB-44-9285         044 - MEP Final Fit           RAB-44-9265         044 - Ceiling Panel           RAB-44-9265         044 - Ceiling Panel           RAB-44-9275         044 - Ceiling Panel           RAB-44-9355         044 - Ceiling Plaster           RAB-44-9355         044 - Ceiling Plaster           First Floor            Degree 1            Degree 2            RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - Ceiling Panel           RAB-44-9365 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																
RAB-44-9175       044 - MEP 2nd Fix         RAB-44-0760       044 - Door & Wind         Degree 3       RAB-44-9285       044 - Wall Finish, F         RAB-44-9285       044 - Ceiling Paint       RAB-44-9185         RAB-44-9185       044 - MEP Final Fit         RAB-44-9265       044 - Ceiling Panel         RAB-44-9275       044 - Ceiling Panel         RAB-44-9275       044 - Ceiling Panel         RAB-44-9275       044 - Ceiling Panel         RAB-44-9245       044 - Ceiling Panel         RAB-44-9245       044 - Ceiling Panel         RAB-44-9345       044 - Ceiling Panel         RAB-44-9345       044 - Ceiling Panel         RAB-44-9345       044 - Ceiling Plaster         RAB-44-9355       044 - Floor Panel &         RAB-44-9355       044 - Ceiling Plaster         First Floor       Degree 1         Degree 2       Panel &         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Ceiling Panel         RAB-44-9365       044 - Ceiling Panel         RAB-44-9365       044 - Ceiling Panel         RAB-44-9385       044 - Ceiling Panel																
Degree 3           RAB-44-9285         044 - Wall Finish, F           RAB-44-9255         044 - Ceiling Paint           RAB-44-9185         044 - MEP Final Fit           RAB-44-9265         044 - Ceiling Panel           RAB-44-9235         044 - Ceiling Panel           RAB-44-9245         044 - Ceiling Panel           RAB-44-9245         044 - Ceiling Panel           RAB-44-9245         044 - Ceiling Plastet           RAB-44-9295         044 - Ceiling Plastet           RAB-44-9395         044 - Ceiling Plastet           First Floor         Degree 1           Degree 2         Degree 3           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - Ceiling Paint           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9365         044 - Ceiling Paint           RAB-44-9365         044 - Ceiling Paint           RAB-44-9365         044 - Ceiling Paint <td>² 2nd Fix - G/F</td> <td></td>	² 2nd Fix - G/F															
RAB-44-9285       044 - Wall Finish, F         RAB-44-9255       044 - Ceiling Paint         RAB-44-9185       044 - MEP Final Fit         RAB-44-9265       044 - Floor Tille Fin         RAB-44-9265       044 - Ceiling Panel         RAB-44-9275       044 - Ceiling Panel         RAB-44-9245       044 - Ceiling Plaster         RAB-44-9355       044 - Door Panel &         RAB-44-9355       044 - Ceiling Plaster         First Floor       Degree 1         Degree 2       Degree 2         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Door & Wind         Degree 3       Degree 3         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Ceiling Paint         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Ceiling Paint         RAB-44-9365       044 - Ceil	r & Windor Frame + Louver - G/F			T	<u>~~~~~~~~~~~~~~~~~~~~~~</u>	******										
RAB-44-9285       044 - Wall Finish, F         RAB-44-9255       044 - Ceiling Paint         RAB-44-9185       044 - MEP Final Fit         RAB-44-9265       044 - Floor Tille Fin         RAB-44-9265       044 - Ceiling Panel         RAB-44-9275       044 - Ceiling Panel         RAB-44-9245       044 - Ceiling Plaste         RAB-44-9255       044 - Door Panel &         RAB-44-9355       044 - Ceiling Plaste         First Floor       Degree 1         Degree 2       Degree 2         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Door & Wind         Degree 3       Degree 3         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Ceiling Paint         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Ceiling Paint         RAB-44-9365       044 - Ceilin																
RAB-44-9255       044 - Ceiling Paint         RAB-44-9185       044 - MEP Final Final Final Final Final Rab         RAB-44-9265       044 - Floor Tilie Final Final Final Rab         RAB-44-9265       044 - Ceiling Panel         RAB-44-9275       044 - Ceiling Plaster         RAB-44-9355       044 - Door Panel A         RAB-44-9355       044 - Ceiling Plaster         First Floor       Degree 1         Degree 2       Panel A         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Door & Wind         Degree 3       Panel A         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Ceiling Paint         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Ceiling Paint         RAB-44-9365       044 - Ceiling Paint         RAB-44-9385       044 - Ceiling Paint         RAB-44-9385       044 - Ceiling Panel         RAB-44-9385       044 - Ceiling Panel	l Finish, Paint & Tile - G/F															
RAB-44-9185       044 - MEP Final Fit         RAB-44-9265       044 - Floor Tilie Fir         RAB-44-9235       044 - Ceiling Panel         RAB-44-9235       044 - Ceiling Panel         RAB-44-9245       044 - Ceiling Panel         RAB-44-9245       044 - Ceiling Panel         RAB-44-9245       044 - Ceiling Plaster         RAB-44-9245       044 - Ceiling Plaster         RAB-44-9355       044 - Floor Panel &         RAB-44-9355       044 - Ceiling Plaster         First Floor       Degree 1         Degree 2       Panel &         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Door & Wind         Degree 3       Panel &         RAB-44-9355       044 - Wall Finish, F         RAB-44-9365       044 - Ceiling Panel &         RAB-44-9365       044 - Ceiling Panel &         RAB-44-9365       044 - Ceiling Panel &         RAB-44-9375       044 - MEP Final Fit         RAB-44-9385       044 - Ceiling Panel &         RAB-44-938																
RAB-44-9265       044 - Floor Tilie Fin         RAB-44-9235       044 - Ceiling Panel         RAB-44-9275       044 - Ceiling Panel         RAB-44-9275       044 - Ceiling Panel         RAB-44-9275       044 - Ceiling Panel         RAB-44-9245       044 - Ceiling Plaste         RAB-44-9295       044 - Ceiling Plaste         RAB-44-9295       044 - Door Panel &         RAB-44-9355       044 - Ceiling Plaste         First Floor       Degree 1         Degree 2       044 - MEP 2nd Fix         RAB-44-9365       044 - Door & Wind         Degree 3       044 - Ceiling Plaste         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Door & Wind         Degree 3       044 - Ceiling Plaste         RAB-44-9365       044 - Ceiling Plaste         RAB-44-9365       044 - Ceiling Plaste         RAB-44-9365       044 - MEP Inish, F         RAB-44-9375       044 - Floor Tile Fin         RAB-44-9385       044 - Ceiling Plant         RAB-44-938	-															
RAB-44-9235       044 - Ceiling Panel         RAB-44-9275       044 - Glazing - G/F         RAB-44-9345       044 - Ceiling Panel         RAB-44-9245       044 - Ceiling Plaste         RAB-44-9295       044 - Door Panel &         RAB-44-9355       044 - Floor Paint F         RAB-44-9395       044 - Ceiling Plaste         RAB-44-9395       044 - Ceiling Plaste         First Floor       Degree 1         Degree 2       Degree 2         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Door & Wind         Degree 3       Degree 3         RAB-44-9365       044 - Ceiling Paint         RAB-44-9365       044 - Floor Tile Fin         RAB-44-9365       044 - Floor Tile Fin         RAB-44-9375       044 - MEP Final Fit         RAB-44-9385       044 - Ceiling Panel         RAB-44-9305       04					+++++++++++++++++++++++++++++++++++++++		/////							<i></i>		
RAB-44-9275       044 - Glazing - G/F         RAB-44-9345       044 - Ceiling Panel         RAB-44-9245       044 - Ceiling Plaster         RAB-44-9295       044 - Door Panel A         RAB-44-9355       044 - Floor Paint F         RAB-44-9395       044 - Ceiling Plaster         RAB-44-9395       044 - Ceiling Plaster         First Floor       044 - Ceiling Plaster         Degree 1       044 - Ceiling Plaster         Degree 2       044 - MEP 2nd Fix         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Door & Wind         Degree 3       044 - Ceiling Paint         RAB-44-9365       044 - Ceiling Paint         RAB-44-9565       044 - Floor Tile Fin         RAB-44-9375       044 - MEP Final Fit         RAB-44-9385       044 - Ceiling Panel         RAB-44-9695       044 - Ceiling Plaster																
RAB-44-9345       044 - Ceiling Panel         RAB-44-9245       044 - Ceiling Plaste         RAB-44-9295       044 - Door Panel &         RAB-44-9355       044 - Floor Panel &         RAB-44-9395       044 - Ceiling Plaste         RAB-44-9395       044 - Ceiling Plaste         First Floor       044 - Ceiling Plaste         Degree 1       044 - Ceiling Plaste         Degree 2       044 - MEP 2nd Fix         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9455       044 - Door & Wind         Degree 3       044 - Ceiling Paint         RAB-44-9465       044 - Ceiling Paint         RAB-44-9565       044 - Floor Tile Fin         RAB-44-9375       044 - MEP Final Fix         RAB-44-9385       044 - Ceiling Panel         RAB-44-9695       044 - Ceiling Plaste	-															
RAB-44-9245       044 - Ceiling Plaster         RAB-44-9295       044 - Door Panel &         RAB-44-9355       044 - Floor Paint F         RAB-44-9395       044 - Ceiling Plaster         First Floor       044 - Ceiling Plaster         Degree 1       044 - MEP 2nd Fix         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9455       044 - Door & Wind         Degree 3       044 - Ceiling Plaster         RAB-44-9455       044 - Ceiling Paint         RAB-44-9465       044 - Ceiling Paint         RAB-44-9565       044 - Floor Tile Fin         RAB-44-9375       044 - MEP Final Fin         RAB-44-9385       044 - Ceiling Panel         RAB-44-9505       044 - Door Panel &         RAB-44-9695       044 - Ceiling Plaster																
RAB-44-9295       044 - Door Panel &         RAB-44-9355       044 - Floor Paint F         RAB-44-9395       044 - Ceiling Plaster         First Floor       0         Degree 1       0         Degree 2       044 - MEP 2nd Fix         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Door & Wind         Degree 3       044 - Ceiling Paint         RAB-44-9465       044 - Ceiling Paint         RAB-44-9565       044 - Floor Tile Fin         RAB-44-9375       044 - MEP Final Fit         RAB-44-9385       044 - Ceiling Panel         RAB-44-9485       044 - Ceiling Panel         RAB-44-9385       044 - Ceiling Panel         RAB-44-9485       044 - Ceiling Panel         RAB-44-9695       044 - Ceiling Panel																
RAB-44-9355       044 - Floor Paint F         RAB-44-9395       044 - Ceiling Plaster         First Floor       Degree 1         Degree 2       Particle         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9365       044 - Door & Wind         Degree 3       Particle         RAB-44-9465       044 - Ceiling Paint         RAB-44-9565       044 - Floor Tile Fin         RAB-44-9565       044 - MEP Final Fit         RAB-44-9385       044 - Ceiling Panel         RAB-44-9385       044 - Ceiling Panel         RAB-44-9505       044 - Door Panel &         RAB-44-9695       044 - Ceiling Plaster														///////////////////////////////////////		
RAB-44-9395       044 - Ceiling Plaster         First Floor         Degree 1         Degree 2         RAB-44-9365       044 - MEP 2nd Fix         RAB-44-9455       044 - Door & Wind         Degree 3         RAB-44-9555       044 - Wall Finish, F         RAB-44-9565       044 - Ceiling Paint         RAB-44-9565       044 - Ceiling Paint         RAB-44-9375       044 - MEP Final Finish, F         RAB-44-9385       044 - Ceiling Panel         RAB-44-9385       044 - Ceiling Panel         RAB-44-9385       044 - Ceiling Panel         RAB-44-9655       044 - Door Panel &         RAB-44-9655       044 - Ceiling Palet         RAB-44-9655       044 - Ceiling Palet         RAB-44-9695       044 - Ceiling Plaster	or Panel & Ironmongery - G/F															
First Floor           Degree 1           Degree 2           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9455         044 - Door & Wind           Degree 3         044 - Wall Finish, F           RAB-44-9455         044 - Ceiling Paint           RAB-44-9565         044 - Ceiling Paint           RAB-44-9375         044 - KeP Final Finish, F           RAB-44-9375         044 - Ceiling Paint           RAB-44-9385         044 - Ceiling Panel           RAB-44-9385         044 - Ceiling Panel           RAB-44-9485         044 - Ceiling Panel           RAB-44-9505         044 - Ceiling Panel           RAB-44-9695         044 - Ceiling Panel	r Paint Finish - G/F															
Degree 1           Degree 2           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9455         044 - Door & Wind           Degree 3         044 - Wall Finish, F           RAB-44-9465         044 - Ceiling Paint           RAB-44-9565         044 - Floor Tile Fin           RAB-44-9375         044 - MEP Final Fit           RAB-44-9385         044 - Ceiling Panel           RAB-44-9695         044 - Ceiling Panel	ng Plaster Board															
Degree 2           RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9455         044 - Door & Wind           Degree 3            RAB-44-9555         044 - Wall Finish, F           RAB-44-9565         044 - Ceiling Paint           RAB-44-9565         044 - Floor Tile Fin           RAB-44-9565         044 - Ceiling Paint           RAB-44-9375         044 - MEP Final Fit           RAB-44-9385         044 - Ceiling Panel           RAB-44-9385         044 - Glazing - 1/F           RAB-44-9505         044 - Door Panel &           RAB-44-9695         044 - Ceiling Plaster																
RAB-44-9365         044 - MEP 2nd Fix           RAB-44-9455         044 - Door & Wind           Degree 3																
RAB-44-9455         044 - Door & Wind           Degree 3																
Degree 3           RAB-44-9555         044 - Wall Finish, F           RAB-44-9465         044 - Ceiling Paint           RAB-44-9565         044 - Floor Tile Fin           RAB-44-9375         044 - MEP Final Fin           RAB-44-9385         044 - Ceiling Panel           RAB-44-9385         044 - Ceiling Panel           RAB-44-9385         044 - Glazing - 1/F           RAB-44-9505         044 - Door Panel &           RAB-44-9695         044 - Ceiling Plaster	' 2nd Fix - 1/F															
RAB-44-9555       044 - Wall Finish, F         RAB-44-9465       044 - Ceiling Paint         RAB-44-9565       044 - Floor Tile Fin         RAB-44-9375       044 - MEP Final Fit         RAB-44-9385       044 - Ceiling Panel         RAB-44-9485       044 - Glazing - 1/F         RAB-44-9505       044 - Door Panel &         RAB-44-9695       044 - Ceiling Plaster	r & Windor Frame + Louver - 1/F							l								
RAB-44-9465       044 - Ceiling Paint         RAB-44-9565       044 - Floor Tile Fin         RAB-44-9375       044 - MEP Final Fit         RAB-44-9385       044 - Ceiling Panel         RAB-44-9485       044 - Glazing - 1/F         RAB-44-9505       044 - Door Panel &         RAB-44-9695       044 - Ceiling Plaster																
RAB-44-9565         044 - Floor Tile Fin           RAB-44-9375         044 - MEP Final Fin           RAB-44-9385         044 - Ceiling Panel           RAB-44-9485         044 - Glazing - 1/F           RAB-44-9505         044 - Door Panel &           RAB-44-9695         044 - Ceiling Plaster	l Finish, Paint & Tile - 1/F															
RAB-44-9375         044 - MEP Final Fit           RAB-44-9385         044 - Ceiling Panel           RAB-44-9485         044 - Glazing - 1/F           RAB-44-9505         044 - Door Panel &           RAB-44-9695         044 - Ceiling Plaster	ing Paint Finish - 1/F															
RAB-44-9375         044 - MEP Final Fit           RAB-44-9385         044 - Ceiling Panel           RAB-44-9485         044 - Glazing - 1/F           RAB-44-9505         044 - Door Panel &           RAB-44-9695         044 - Ceiling Plaster	r Tile Finish - 1/F															
RAB-44-9385         044 - Ceiling Panel           RAB-44-9485         044 - Glazing - 1/F           RAB-44-9505         044 - Door Panel &           RAB-44-9695         044 - Ceiling Plaster																
RAB-44-9485         044 - Glazing - 1/F           RAB-44-9505         044 - Door Panel &           RAB-44-9695         044 - Ceiling Plaster																
RAB-44-9505         044 - Door Panel &           RAB-44-9695         044 - Ceiling Plaster																
RAB-44-9695 044 - Ceiling Plaste	or Panel & Ironmongery - 1/F															
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RAB-44-9705 044 - Ceiling Plaste																
RAB-44-9475 044 - Floor Paint F	r Paint Finish - 1/F						///									
Second Floor																
Degree 1												<u>/////////////////////////////////////</u>	<u>/////////////////////////////////////</u>			
Remaining Level of Effort	Actual Work Critical Remainin	ng 🤉 🖪	lonth De	lling Pro	arammo I In	date, 01 Jai	n 2010	L	Date		Revis Iling Programn		·	Checked	Appro	

Degree 2           RAB-44-9575         04           RAB-44-9665         04           RAB-44-9605         04           RAB-44-9605         04           RAB-44-9605         04           RAB-44-9605         04           RAB-44-9605         04           RAB-44-9605         04           RAB-44-9635         04           RAB-44-9595         04           RAB-44-9585         04           RAB-44-9585         04           RAB-44-9685         04           RAB-44-9715         04           RAB-44-9725         04           RAB-44-9735         04	Activity Name 044 - MEP 2nd Fix - 2/F 044 - Door & Windor Frame + Louver - 2/F 044 - Power On - 2/F (D8B - Projected achievement of Stage 8B of the Works - 2/F 044 - Ceiling Paint Finish - 2/F 044 - Ceiling Paint Finish - 2/F 044 - MEP Final Fix - 2/F 044 - Glazing - 2/F 044 - Glazing - 2/F 044 - Door Panel & Ironmongery - 2/F 044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Plaster Board 044 - Ceiling Plaster Board 044 - MEP Final Frame - 2/F 044 - Ceiling Plaster Board 044 - MEP Balance of Works	er 2017	03 10	mber 2017		January 2018 7 14 •	21 2		February 2018	18 25	March 2018
RAB-44-9575       04         RAB-44-9665       04         RAB-44-9665       04         RAB-44-9605       04         RAB-44-0610       Ki         Degree 3       04         RAB-44-9635       04         RAB-44-9595       04         RAB-44-9585       04         RAB-44-9675       04         RAB-44-9685       04         RAB-44-9685       04         RAB-44-9715       04         RAB-44-9725       04         RAB-44-9735       04	044 - Door & Windor Frame + Louver - 2/F 044 - Power On - 2/F KD8B - Projected achievement of Stage 8B of the Works - 2/F 044 - Ceiling Paint Finish - 2/F 044 - Wall Finish, Paint & Tile - 2/F 044 - MEP Final Fix - 2/F 044 - Glazing - 2/F 044 - Glazing - 2/F 044 - Door Panel & Ironmongery - 2/F 044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Plaster Board										
RAB-44-9575       04         RAB-44-9665       04         RAB-44-9665       04         RAB-44-9605       04         RAB-44-0610       Ki         Degree 3       04         RAB-44-9635       04         RAB-44-9595       04         RAB-44-9585       04         RAB-44-9675       04         RAB-44-9685       04         RAB-44-9685       04         RAB-44-9715       04         RAB-44-9725       04         RAB-44-9735       04	044 - Door & Windor Frame + Louver - 2/F 044 - Power On - 2/F KD8B - Projected achievement of Stage 8B of the Works - 2/F 044 - Ceiling Paint Finish - 2/F 044 - Wall Finish, Paint & Tile - 2/F 044 - MEP Final Fix - 2/F 044 - Glazing - 2/F 044 - Glazing - 2/F 044 - Door Panel & Ironmongery - 2/F 044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Plaster Board										
RAB-44-9605       04         RAB-44-0610       K         Degree 3       04         RAB-44-9635       04         RAB-44-9595       04         RAB-44-9585       04         RAB-44-9675       04         RAB-44-9685       04         RAB-44-9725       04         RAB-44-9735       04	044 - Power On - 2/F KD8B - Projected achievement of Stage 8B of the Works - 2/F 044 - Ceiling Paint Finish - 2/F 044 - Wall Finish, Paint & Tile - 2/F 044 - MEP Final Fix - 2/F 044 - Glazing - 2/F 044 - Glazing - 2/F 044 - Floor Tile Finish & Floor Finish to Early handover Rooms - 2/F 044 - Door Panel & Ironmongery - 2/F 044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Plaster Board					• •					
RAB-44-0610         K           Degree 3         C           RAB-44-9635         04           RAB-44-9595         04           RAB-44-9585         04           RAB-44-9675         04           RAB-44-9685         04           RAB-44-9685         04           RAB-44-9685         04           RAB-44-9685         04           RAB-44-9715         04           RAB-44-9725         04           RAB-44-9645         04           RAB-44-9735         04	<ul> <li>KD8B - Projected achievement of Stage 8B of the Works - 2/F</li> <li>A44 - Ceiling Paint Finish - 2/F</li> <li>A44 - Wall Finish, Paint &amp; Tile - 2/F</li> <li>A44 - MEP Final Fix - 2/F</li> <li>A44 - Glazing - 2/F</li> <li>A44 - Floor Tile Finish &amp; Floor Finish to Early handover Rooms - 2/F</li> <li>A44 - Ceiling Plaster Board Frame - 2/F</li> <li>A44 - Ceiling Plaster Board</li> <li>A44 - Ceiling Plaster Board</li> </ul>					• •					
Degree 3           RAB-44-9635         04           RAB-44-9595         04           RAB-44-9585         04           RAB-44-9685         04           RAB-44-9685         04           RAB-44-9685         04           RAB-44-9685         04           RAB-44-9685         04           RAB-44-9685         04           RAB-44-9715         04           RAB-44-9725         04           RAB-44-9645         04           RAB-44-9735         04	044 - Ceiling Paint Finish - 2/F 044 - Wall Finish, Paint & Tile - 2/F 044 - MEP Final Fix - 2/F 044 - Glazing - 2/F 044 - Glazing - 2/F 044 - Door Panel & Ironmongery - 2/F 044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Plaster Board					◆   					
RAB-44-9635         04           RAB-44-9595         04           RAB-44-9585         04           RAB-44-9675         04           RAB-44-9685         04           RAB-44-9685         04           RAB-44-9685         04           RAB-44-9715         04           RAB-44-9725         04           RAB-44-9725         04           RAB-44-9645         04	044 - Wall Finish, Paint & Tile - 2/F 044 - MEP Final Fix - 2/F 044 - Glazing - 2/F 044 - Floor Tile Finish & Floor Finish to Early handover Rooms - 2/F 044 - Door Panel & Ironmongery - 2/F 044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Panel Frame - 2/F 044 - Ceiling Plaster Board										
RAB-44-9595       04         RAB-44-9585       04         RAB-44-9675       04         RAB-44-9685       04         RAB-44-9685       04         RAB-44-9715       04         RAB-44-9725       04         RAB-44-9645       04         RAB-44-9735       04	044 - Wall Finish, Paint & Tile - 2/F 044 - MEP Final Fix - 2/F 044 - Glazing - 2/F 044 - Floor Tile Finish & Floor Finish to Early handover Rooms - 2/F 044 - Door Panel & Ironmongery - 2/F 044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Panel Frame - 2/F 044 - Ceiling Plaster Board										
RAB-44-9585         04           RAB-44-9675         04           RAB-44-9675         04           RAB-44-9715         04           RAB-44-9715         04           RAB-44-9725         04           RAB-44-9645         04           RAB-44-9735         04	044 - MEP Final Fix - 2/F 044 - Glazing - 2/F 044 - Floor Tile Finish & Floor Finish to Early handover Rooms - 2/F 044 - Door Panel & Ironmongery - 2/F 044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Panel Frame - 2/F 044 - Ceiling Plaster Board							-			
RAB-44-9675 04 RAB-44-9685 04 RAB-44-9715 04 RAB-44-9725 04 RAB-44-9645 04 RAB-44-9735 04	044 - Glazing - 2/F 044 - Floor Tile Finish & Floor Finish to Early handover Rooms - 2/F 044 - Door Panel & Ironmongery - 2/F 044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Plaster Board 044 - Ceiling Plaster Board										
RAB-44-9685         04           RAB-44-9715         04           RAB-44-9725         04           RAB-44-9645         04           RAB-44-9645         04	044 - Floor Tile Finish & Floor Finish to Early handover Rooms - 2/F 044 - Door Panel & Ironmongery - 2/F 044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Panel Frame - 2/F 044 - Ceiling Plaster Board	-									
RAB-44-9715         04           RAB-44-9725         04           RAB-44-9645         04           RAB-44-9645         04           RAB-44-9735         04	044 - Door Panel & Ironmongery - 2/F 044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Panel Frame - 2/F 044 - Ceiling Plaster Board										
RAB-44-9725 04 RAB-44-9645 04 RAB-44-9735 04	044 - Ceiling Plaster Board Frame - 2/F 044 - Ceiling Panel Frame - 2/F 044 - Ceiling Plaster Board										
RAB-44-9645 04 RAB-44-9735 04	044 - Ceiling Panel Frame - 2/F 044 - Ceiling Plaster Board										
RAB-44-9735 04	044 - Ceiling Plaster Board				۱ · · · · · · · · · · · · · · · · · · ·			-			
	-										
		_									
	)44 - Ceiling Panel - 2/F										
	044 - Snagging and Remedials										
	044 - Shagging and Kernediais 044 - Floor Finish Other Than Early Handover at 1/F							-			
	044 - End Users and MoM handover inspection	_									
	KD8C - Projected achievement of Stage 8C of the Works, 044	_									
Roof Finishes											
	044 - Install Cat Ladder and Roof Hatch										
	044 - Install Railing			///////////////////////////////////////							
Green Roof											
RAB-44-0400 04	044 - Install Green Roof Irrigation Systems										
RAB-44-0500 04	044 - Complete Green Roofing Works										
External Finishes											
Facade		_									
	044 - Install External Louvers /Windows/Doors					<b></b>					
	044 - Make good external surfaces										
At Grade RAB-44-6520 04	MA Dranara Sub Crada	_									
	)44 - Prepare Sub Grade )44 - Laying Geo Textile										
	)44 - Laying Geo Texile )44 - Lay Granular Sub-Base										
	)44 - Laying Course										
	144 - Concrete Block Paving	-					_				
	044 - Snagging and Remedials	-									
Specialist Installations					/////	,					,
Curtain Wall											
East											
	044 - Install Primary Steelwork for Window Wall - East										
	044 - Install Secondary Steelwork for Window Wall - East										
RAB-44-6900 04	044 - Glazing to Window Wall - East										
West											
	044 - Install Primary Steelwork for Window Wall - West										
	044 - Install Secondary Steelwork for Window Wall - West	_									
	044 - Glazing to Window Wall - West								la l		
Utilities and Drainage	ing										
Testing & CommissioniRAB-TC44-100004	)44 - T&C (HVAC, FS, P&D, OTHERS)	-									
Remaining Level of I				ne Update, 01 Ja		Date		Revisio	<u></u>	Checked	Appro

LEIGHTON 祝 中田		Contract No. HY	/2014/05 - Remaining Ancillary Buil	ung and i aci	iities		Page 10 c
ity ID	Activity Name	er 2017	December 2017		January 2018	February 2018	March 2018
		19	26 03 10 17 24	31 07	14 21	28 04 11 18	25 04
Statutory Submissi	ons & Approvals						
BEEO	044 Deviatored Ferrers Accesses last estimation			<u> </u>			
RAB-BEE-240 RAB-BEE-250	044 - Registered Energy Assessor Inspection & Certification           044 - Submit REA Certification to EDMS						
RAB-BEE-250					•		
	044 - EDMS Issue of Cert of Compliance Registration (COCR)						
EMSD - Building 0 RAB-FSD-220	044 - EMSD Lift Inspection						
RAB-FSD-114	044 - EMSD Lift Certificate Issued - Building 044						//////////////////////////////////////
Water Supplies De							
Commencement							
Completion							
RAB-WSD-684	044 - Submit WWO 46 Pt. IV					$\bullet$	
RAB-WSD-314	044 WSD Inspection/Meter Connection						///////
Fire Servives Depa							
RAB-FSD-1040	044 - Submit Form 501 to FSD, HVAC				•		
Fire Water Service	s (FS)						
RAB-FSD-128	044 - Submit Form 501, FS				•		
RAB-FSD-126	044 - Submit Form 314 to FSD, FS				•		
RAB-FSD-118	044 FS Inspection Period , FS						
RAB-FSD-148	044 - Issuance of Form 172					$\bullet$	
Engineer (AECOM							
RAB-44-7280	044 - Submit Building 044 As Built Drawings to Engineer			•			
Building 045 - High	ways Depot & Administration Building						
Raft Foundation							
Diesel Fuel Chamb	per la						
Structure G/F to R/							
G/F to 1/F Walls &	Columns			/////			
1/F Slab							
Cure and Strip	Calumna						
1/F to 2/F Walls & 2/F Slab							
Cure and Strip							
2/f to R/F Walls &	Columns						
Roof Level Slab							
Cure and Strip							
ABWF/E&M							
Ground Floor, Soι	ith - G/F						
Degree 1, G/F							
Degree 2, G/F RAB-45-9895	045 Deer 8 Winder Frame & Lewiser C/F						
	045 - Door & Windor Frame + Louver - G/F						
RAB-45-9905	045 - Access for C3 to Install Equipment			-			
Degree 3, G/F RAB-45-9935	045 - Wall Finish, Paint & Tile - G/F						
RAB-45-9935 RAB-45-9915	045 - Floor Finish (Paint & Tile) - G/F						
RAB-45-10035	045 - Ceiling Plaster Board Frame & Ceiling Panel Frame - G/F				-		
RAB-45-9815	045 - MEP Final Fix - G/F						
RAB-45-9815 RAB-45-9925	045 - Glazing - G/F						
RAB-45-9925 RAB-45-9945	045 - Door Panel & Ironmongery - G/F						
RAB-45-9945 RAB-45-10055							
	045 - Ceiling Plaster Board & Ceiling Panel- G/F						
First Floor, 1/F Degree 1, 1/F							
Degree 1, 1/F							
2, 1/1			X////////////////////////////////				///////
Devenie in 1					Date	Revision Ct	hecked Approv
Remaining Leve	el of Effort Actual Work Critical Remaining Effort Central Remaining Work Chinish Constraint	3-Month	h Rolling Programme Update, 01 Ja	an. 2018		colling Programme, 01 Jan-18 Update	

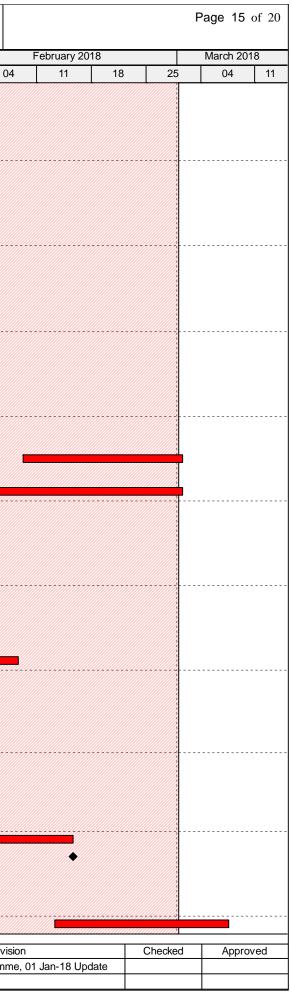
LEIGHTON 檀 将	C C	ontract No. HY/2014/05 - Remaining Ancillary Building and Facilities	Page 11 of
/ity ID	Activity Name	er 2017 December 2017 January 2018	February 2018 March 2018
DAD 45 10015	045 - MEP 2nd Fix - 1/F	<u>19</u> <u>26</u> <u>03</u> <u>10</u> <u>17</u> <u>24</u> <u>31</u> <u>07</u> <u>14</u> <u>21</u>	28 04 11 18 25 04
RAB-45-10015			
RAB-45-10105	045 - Door & Windor Frame + Louver - 1/F		
Degree 3, 1/F RAB-45-10145	045 - Wall Finish, Paint & Tile - 1/F		
RAB-45-10145	045 - Wair Finish, Paint & Tile - 1/F 045 - Floor Finish (Paint & Tile) - 1/F		
RAB-45-10205	045 - Ceiling Plaster Board Frame Ceiling Panel Frame- 1/F		
RAB-45-10025	045 - MEP Final Fix - 1/F		
RAB-45-10155	045 - Door Panel & Ironmongery - 1/F		
RAB-45-10285	045 - Glazing - 1/F		
RAB-45-10245	045 - Ceiling Plaster Board & Ceiling Panel - 1/F		
RAB-45-10275	045 - Handover to End users***		
Second Floor, 2/F			
Degree 1, 2/F			
Degree 2, 2/F RAB-45-10225	045 - MEP 2nd Fix - 2/F		
	045 - MEP 2nd Fix - 2/F 045 - Door & Windor Frame + Louver - 2/F		
RAB-45-10315			
RAB-45-10295	045 - Access for C3 Equip. Installation, 2/F***		
RAB-45-0950	KD8B - Projected achievement of Stage 8B of the Works - 2/F, 045		
RAB-45-10255	045 - Power On - 2/F		
Degree 3, 2/F			
RAB-45-10355	045 - Wall Finish, Paint & Tile - 2/F		
RAB-45-10235	045 - MEP Final Fix - 2/F		
RAB-45-10345	045 - Glazing - 2/F		
RAB-45-10335	045 - Floor Finish (Paint & Tile) - 2/F		
RAB-45-10365	045 - Door Panel & Ironmongery - 2/F		
RAB-45-10375	045 - Ceiling Plaster Board Frame & Ceiling Panel Frame - 2/F		
RAB-45-10385	045 - Ceiling Plaster Board & Ceiling Panel - 2/F		
RAB-45-0980	045 - Snagging and Remedials - 2/F		
RAB-45-10305	045 - MEP Balance of Works		Valanda and an
RAB-45-10265	045 - End Users and MoM handover inspection	$\bullet$	
RAB-45-0970	KD8C - Projected achievement of Stage 8C of the Works - 2/F, 045	•	
External Finishes			
Bldg. External Finis	shes		
Facade			
RAB-45-0620	045 - Install External Louvers /Windows/Doors		
RAB-45-0760	045 - Make good external surfaces		
At Grade			
RAB-45-6580	045 - Prepare Sub Grade		
RAB-45-6570	045 - Laying Geo Textile		
RAB-45-6590	045 - Lay Granular Sub-Base		
RAB-45-6600	045 - Laying Course		
RAB-45-6560	045 - Concrete Block Paving		
RAB-45-6620	045 - Snag Listing, External		
Roof Finishes -			
RAB-45-0910	045 - Install Roof Tiles		
RAB-45-0930	045 - Install Cat Ladder and Roof Hatch		
RAB-45-0920	045 - Install Railing		
Green Roof - Noth			
RAB-45-0680	045 - Install green Roof Irrigation Systems		
RAB-45-0740	045 - Complete Green Roofing Works		
Specialist Installatio	ns		
Remaining Level	I of Effort Actual Work Critical Remaining	3-Month Rolling Programme Update, 01 Jan. 2018	Revision Checked Approv
		3-Month Rolling Programme Opdate, 01 Jan. 2016 01-Jan-18 3-Month	Rolling Programme, 01 Jan-18 Update

LEIGHTON 祝 中田	Cont	ract No. H	Y/2014	/05 - Re	maining	Ancilla	ry Build	ing and	d Facil	ities								Page	e 12 of
vity ID	Activity Name	er 2017			Decemb	er 2017				January 20	018			Fe	ebruary 201	18		Mar	ch 2018
		19	26	03	10	17	24	31	07	14	21	1 2	8	04	11	18	25	(	04
Window Wall																			
East RAB-45-6960	045 - Install Primary Steelwork for Window Wall								•										
RAB-45-6970	045 - Install Secondary Steelwork for Window Wall								•										
RAB-45-6980	045 - Glazing to Window Wall							<b>//</b>											
West																			
RAB-45-6990	045 - Install Primary Steelwork for Window Wall																		
RAB-45-7000	045 - Install Secondary Steelwork for Window Wall																		
RAB-45-7010	045 - Glazing to Window Wall																		
Utilities and Draina													-						
RAB-45-7945	045 - Utilitites and Common Telecom Ducting					N													
RAB-45-7955	045 - Install Flushing Water Mains																		
RAB-45-7965	045 - Install Fresh Water Mains																		
RAB-45-7975	045 - Install FS Water Main																		
Testing & Commiss																			
RAB-TC45-1020	045 - T&C (HVAC, FS, P&D, OTHERS)																		
	ons & Approvals (Day 670 Completion)																		
BEEO	045 Designational Frances Accesses lange entities & Contification																		
RAB-BEE-270	045 - Registered Energy Assessor Inspection & Certification																		
RAB-BEE-280 RAB-BEE-290	045 - Submit REA Certification to EDMS								•										
	045 - EDMS Issue of Cert of Compliance Registration (COCR)																		
EMSD - Building 04 RAB-FSD-250	045 - EMSD Lift Inspection																		
RAB-FSD-130	045 - EMSD Lift Certificate Issued - Building 045								<b>_</b> •										
Fuel Tank - DG Lic	-												-						
RAB-FSD-680	045 - FSD Issue License							•											
Generator Set - EP	D Permit																		
Water Supplies De	partment (WSD)																		
Commencement													_						
Completion																			
RAB-WSD-654	045 - Submit WWO 46 Pt. IV							•			_								
RAB-WSD-284	045 - WSD's Processing/Inspection/Meter Connection										•								
RAB-WSD-294	045 - WSD Issue WWO 046 Part V, Plumbing Instl'n Cert & Connect Water																		
RAB-FSD-1000	045 - Submit Form 501														,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
FSD																			
RAB-FSD-630	045 - Submit Form 501 - FS											٠							
RAB-FSD-830	045 - Submit Form 314 - FS											•							
RAB-FSD-450	045 - FS Inspection Period - FS											·							
Engineer (AECOM)																			
RAB-45-7310	045 - Submit Building 045 As Built Drawings to Engineer											•							
Building 050 - Publi	c Toilets Type 2																		
Public Toilet (Portic	n H1)																		
Excavation								<b>//</b>					-						
Raft																			
Structure																			
ABWF/E&M Internal Finishes																			
Degree 1																			
RAB-50-1170	050 H1 - MEP 1st Fix														44777777777777777777777777777777777777	14144444 //////////////////////////////			
RAB-KD9A40	050 H1 - Access for C3 Cabling Works																		
RAB-KD9A10	KD9A - Projected achievement of Stage 9A of the Works								•										
Remaining Leve	el of Effort Actual Work Critical Remaining	2_M~*	th Pal	ing Pro	aramme	Indate	01 log	2010		Dat				vision			Checked		Approv
	Effort Empiring Work Arise Finish Constraint	3-1VIOP		my Pro	gramme	; update	≠, oʻi Jan	I. ∠UIŎ		01-Jan-1	8 3-1	Anth Polli	na Program	ome 01.	Jan-18 Upd	tato			

LEIGHTON 祝田中田	Con	tract No. HY/2014/05 - Remaining A	nemary building and F	acilities		Page 13 o
r ID	Activity Name	er 2017 December 2	2017	January 2018	February 2018	March 201
		19 26 03 10	17 24 31	07 14 21	28 04 11 18	25 04
Degree 2						
RAB-50-1270	050 H1 - MEP 2nd Fix					////.
RAB-50-1360	050 H1 - Louver / Door Frame					
RAB-50-1380	050 H1 - Access for C3 Equip. Installation			•		
RAB-KD9B10	KD9B - Projected achievement of Stage 9B of the Works			•		
RAB-50-1300	050 H1 - Power On			•		
Degree 3 RAB-50-1370	050 H1 - Floor Finish		<u></u>			//////////////////////////////////////
RAB-50-1390	050 H1 - Door panel & Ironmongery					
RAB-50-1350	050 H1 - Wall Finish				_	
RAB-50-1310	050 H1 - Ceiling Frame & Ceiling Board					
RAB-50-1280	050 H1 - MEP Final Fix		///////////////////////////////////////	· · · · · · · · · · · · · · · · · · ·		/////
RAB-50-1290	050 H1 - Snagging and Remedials					
RAB-KD9C10	KD9C - Projected achievement of Stage 9C of the Works				•	
RAB-50-7460	050 H1 - End Users and MoM handover inspection				<b>V</b>	
Specialist installat						
RAB-50-1240	050 H1 - Installation of Sanitaryware and Fixtures		///////////////////////////////////////			
Roof Finishes	050 LIA Install Cat Ladday and Deaf Assass Listah					
RAB-50-1210	050 H1 - Install Cat Ladder and Roof Access Hatch					
RAB-50-1200	050 H1 - Install Railing - 49m		<b></b> _			
RAB-50-4470	050 H1 - Installation of Aluminium Canopy					
RAB-50-4320	050 H1 - Install Aluminium Cladding		//////////////////////////////////////	·····		////
RAB-50-1100	050 H1 - Install Skylights (8No)					
External Finishes						
	050 H1 - Install External Louvers /Windows/Doors					
RAB-50-1260	050 H1 - Make good external surfaces					
Utilities and Drainag			//////////////////////////////////////			
RAB-50-8035 RAB-50-8045	050 H1 - Install Flushing Water Mains					
	050 H1 - Install Fresh Water Mains					
Testing & Commiss	050 H1 - T&C (HVAC, FS, P&D, OTHERS)					
	ons & Approvals (Day 670 Completion)				-	
Water Supplies Dep						////»
Commencement						
Completion						
	050 H1 - Submit WWO 46 Pt. IV			•		
RAB-WSD-464	050 H1 - WSD Inspection/Meter Connection for Building 050					
	050 H1 - WSD Issue WWO 046 Part V, Cert Plumbing Instl'n Compl & Conr					·····
Fire Servives Depar						
	050 H1 - Submit Form 314			•		
RAB-FSD-1090	050 H1 - Submit Form 501			•		
RAB-FSD-1130	050 H1 - FS Inspection					
	050 H1 - Issuance of Form 172	<i>\\//////////////////////////////</i>				•
Engineer (AECOM)						
RAB-50-7340	050 H1 - Submit Building 050 H1 As Built Drawings to Engineer			•		
Public Toilet (Portion						
Excavation						
Raft						
Structure						
ABWF/E&M						
Internal Finishes						
	1			Data	Povision Ota	alcod Array
Remaining Level	of Effort Actual Work Critical Remaining	3-Month Rolling Programme U	Indata 01 Jan 2010	Date	Revision Che	cked Approv

LEIGHTON 校園 中面	Cont	ract No. HY/2014/05 - Remaining	J Ancillary Buildi	ing and Facilities				Page 14 o
<sup>y</sup> ID	Activity Name	er 2017 Decemb	per 2017	Janua	ry 2018	February 2018		March 2018
		19 26 03 10	17 24	31 07	14 21	28 04 11 18	3 25	04
Degree 1					· · · · · · · · · · · · · · · · · · ·			
	050 H2 - MEP 1st Fix							
	050 H2 - Access for C3 Cabling Works		$(\bullet)$					
RAB-KD10A10	050 H2 - Projected achievement of Stage 10A of the Works			•				
Degree 2								
	050 H2 - MEP 2nd Fix							
	050 H2 - Louver / Door Frame							
	050 H2 - Access for C3 Equip. Installation			•				
RAB-KD10B10	050 H2 - Projected achievement of Stage 10B of the Works			•				
RAB-50-2300	050 H2 - Power On			•				
Degree 3								
	050 H2 - Floor Finish							
	050 H2 - Door panel & Ironmongery							
	050 H2 - Wall Finish							
RAB-50-2340	050 H2 - Ceiling Frame & Ceiling Board							
RAB-50-2280	050 H2 - MEP Final Fix							
RAB-50-2290	050 H2 - Snagging and Remedials							
RAB-KD10C10	050 H2 - Projected achievement of Stage 10C of the Works					•		
RAB-50-7470	050 H2 - End Users and MoM handover inspection					•		
Specialist installat	tion							
RAB-50-2240	050 H2 - Installation of Sanitaryware and Fixtures							
Roof Finishes								
RAB-50-2210	050 H2 - Install Cat Ladder and Roof Access Hatch							
RAB-50-2100	050 H2 - Install Skylights (8No)							
RAB-50-2200	050 H2 - Install Railing - 49m							
RAB-50-2230	050 H2 - Installation of Aluminium Canopy							
RAB-50-4360	050 H2 - Install Aluminium Cladding							
External Finishes								
RAB-50-2120	050 H2 - Install External Louvers /Windows/Doors							
RAB-50-2260	050 H2 - Make good external surfaces				I			
Utilities and Drainag								
RAB-50-7915	050 H2 - Install Flushing Water Mains							
RAB-50-7925	050 H2 - Install Fresh Water Mains							
Testing & Commissi								
RAB-TC50-1010	050 H2 - T&C (HVAC, FS, P&D, OTHERS)					1		
	ons & Approvals (Day 670 Completion)							
Water Supplies Dep	partment (WSD)							
Commencement								
Completion					•			
	050 H2 - Submit WWO 46 Pt. IV							
	050 H2 - WSD Inspection/Meter Connection for Building 050						//////////////////////////////////////	
	050 H2 - SD Issue WWO 046 Part V, Cert Plumbing Instl'n Compl & Conner							
Fire Servives Depar								
	050 H2 - Submit Form 314			▼				
	050 H2 - Submit Form 501				•	▼ {////////////////////////////////////		
	050 H2 - FS Inspection							
Engineer (AECOM)								
	050 H2 - Submit Building 050 H1 As Built Drawings to Engineer				•	•		
Public Toilet (Portion								
Excavation								
Raft		X/////////////////////////////////////				X/////////////////////////////////////		
Remaining Level	of Effort Actual Work Critical Remaining	3-Month Rolling Programme	alladata 01 lar	2019	Date	Revision	Checked	Approv
		3-WORTH KOIIING Programme	e uppare. Ul Jan	. /// 10	an-18 3-Month Rol	lling Programme, 01 Jan-18 Update		

y ID	Activity Name	er 2017	26 03	December 2017	24	31	January 20 07 14	21	1 ,	28
Structure						01				
ABWF/E&M										
Internal Finishes										
Degree 1										
RAB-50-3310	050 A1 - Plastering/Rendering & Undercoat				*******	<u></u>	<u></u>			
RAB-50-3170	050 A1 - MEP 1st Fix									
RAB-50-3320	050 A1 - Screeding									
RAB-50-3330	050 A1 - Access for C3 for Cabling Works									
RAB-KD11A10	KD11A - Projected achievement of Stage 11A of the Works						<b>♦</b>			
Degree 2		·····				<u></u>				🕌
RAB-50-3270	050 A1 - MEP 2nd Fix									
RAB-50-3360	050 A1 - Louver / Door Frame									
RAB-50-3390	050 A1 - Access for C3 for Equip. Installation						•	•		
RAB-KD11B10	KD11B - Projected achievement of Stage 11B of the Works							•		
RAB-50-3300	050 A1 - Power On							•		
Degree 3										
RAB-50-3350	050 A1 - Wall Finish									
RAB-50-3370	050 A1 - Floor Finish									
RAB-50-3380	050 A1 - Door panel & Ironmongery								<b>_</b>	
RAB-50-3340	050 A1 - Ceiling Frame									
RAB-50-3280	050 A1 - MEP Final Fix									
RAB-KD11C10	KD11C - Projected achievement of Stage 11C of the Works									
RAB-50-3290	050 A1 - Snagging and Remedials									
Specialist installa										
RAB-50-3240	050 A1 - Installation of Sanitaryware and Fixtures									
Roof Finishes										
RAB-50-3210	050 A1 - Install Cat Ladder and Roof Access Hatch		://////////////////////////////////////							
RAB-50-3200	050 A1 - Install Railing - 49m									
RAB-50-3230	050 A1 - Installation of Aluminium Canopy									
RAB-50-4370	050 A1 - Install Aluminium Cladding									
RAB-50-3100	050 A1 - Install Skylights (8No)									
External Finishes										
RAB-50-3120	050 A1 - IInstall External Louvers /Windows/Doors									
RAB-50-3190	050 A1 - External Tiling									
RAB-50-3260	050 A1 - Make good external surfaces									
Utilities and Draina										
RAB-50-7955	050 A1 - Install Flushing Water Mains									
RAB-50-7965	050 A1 - Install Fresh Water Mains									
Testing & Commiss										
RAB-TC50-1020	050 A1 - T&C (HVAC, FS, P&D, OTHERS)									
	ons & Approvals (Day 670 Completion)									
Water Supplies De	partment (WSD)									
Commencement										
Completion										
RAB-WSD-394	050 A1 - Submit WWO 46 Pt. IV									
RAB-WSD-404	050 A1 - WSD Inspection/Meter Connection									
RAB-WSD-414	050 A1 - WSD Issue WWO 046 Part V, Plumbing Instl'n Compl	I & Water Col								
Fire Servives Depa									•	
RAB-FSD-1050 RAB-FSD-1060	050 A1 - Submit Form 314								•	
	050 A1 - Submit Form 501				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				•	🕌
		1	V/////////////////////////////////////							- W//
RAB-FSD-1000	050 A1 - FS Inspection									



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ID	Activity Name	er 201	7			Dece	mber 2017				January	2018				Februar	y 2018			March 20
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Engineer (Aecom)																				
	050 A1 - Submit Building 050 A1 As Built Drawings to Engineer																			
Public Toilet (Portion	<u>n</u> A2)																			
Excavation Raft									<i></i>											
Structure																				
ABWF/E&M																				
Internal Finishes																				
Degree 1																				
RAB-50-4170	050 A2 - MEP 1st Fix																			
RAB-50-4410	050 A2 - Access for C3 Cabling Works																			
RAB-KD12A10	KD12A - Projected achievement of Stage 12A of the Works									•										
Degree 2																				
RAB-50-4270	050 A2 - MEP 2nd Fix																			
RAB-50-4440	050 A2 - Louver / Door Frame																			
RAB-50-4480	050 A2 - Access for C3 Equip. Installation										•									
RAB-KD12B10	KD12B - Projected achievement of Stage 12B of the Works										•									
RAB-50-4300	050 A2 - Power On											•								
Degree 3	•																			
RAB-50-4430	050 A2 - Wall Finish																			
RAB-50-4450	050 A2 - Floor Finish																			
RAB-50-4460	050 A2 - Door panel & Ironmongery																			
RAB-50-4390	050 A2 - Ceiling Frame																			
RAB-50-4280	050 A2 - MEP Final Fix																			
RAB-50-4290	050 A2 - Snagging and Remedials														*/7/7/7/7/7/7/7/7/7/					
RAB-KD12C10	KD12C - Projected achievement of Stage 12C of the Works																			
RAB-50-7490	050 A2 - End Users and MoM handover inspection														$\bullet$					
Specialist installa	tion																			
RAB-50-4240	050 A2 - Installation of Sanitaryware and Fixtures																			
Roof Finishes	•																			
RAB-50-4180	050 A2 - Install Roof Tiles - 140m <sup>2</sup>			1																
RAB-50-4210	050 A2 - Install Cat Ladder and Roof Access Hatch										I									
RAB-50-4200	050 A2 - Install Railing - 49m										I									
RAB-50-4230	050 A2 - Installation of Aluminium Canopy																			
RAB-50-4380	050 A2 - Install Aluminium Cladding																			
RAB-50-4100	050 A2 - Install Skylights (8No)																			
External Finishes																				
RAB-50-4190	050 A2 - External Tiling																			
RAB-50-4120	050 A2 - Install External Louvers /Windows/Doors																			
RAB-50-4260	050 A2 - Make good external surfaces																			
Utilities and Draina	ge																			
RAB-50-7995	050 A2 - Install Flushing Water Mains																			
RAB-50-8005	050 A2 - Install Fresh Water Mains																			
Testing & Commiss																				
RAB-TC50-1030	050 A2 - T&C (HVAC, FS, P&D, OTHERS)			+																
	ons & Approvals (Day 670 Completion)																			
Water Supplies De	partment (WSD)																			
Commencement																				
Completion									//////////////////////////////////////										//////////////////////////////////////	
	050 A2 - Submit WWO 46 Pt. IV																			
RAB-WSD-134	050 A2 - WSD Inspection/Meter Connection for Building 050														///////////////////////////////////////					
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	of Effort Actual Work Critical Remaining	1						ate, 01 Ja				Date	1		Revisi	an		I Che	cked	Appro

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Interline (SS- cuberyork / SS- Statements)						
Conversion       Sector       Sector         Street Normal       Sector       Sector       Sector         Street Normal       Sector       Sector       Sector       Sector         Street Normal       Sector       Sec	•			11 As Built Drawings to Engineer	050 A2 - Submit Building 050 H1	RAB-50-7430
Barbon         Event Nois         Event Nois         Event Nois         Event Nois           Event Nois         Event Nois         Event Nois         Event Nois         Event Nois           Third Floor Loos         Event Nois         Event Nois         Event Nois         Event Nois           Third Floor Loos         Event Nois         Event Nois         Event Nois         Event Nois           The Tool Loos         Event Nois         Event Nois         Event Nois         Event Nois           The Tool Loos         Event Nois         Event Nois         Event Nois         Event Nois           Sobia         Event Nois         Event Nois         Event Nois         Event Nois         Event Nois           Sobia         Event Nois					ound X-Ray Building	Building 053 - Outbo
Bit construit         Bit construit           The Field Refer Level         Image: Source of the field source of the fi						Excavation
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Cure and Strip         Image: Cure and Strip           State state         Image: Cure and Strip           Degres 2- Cof         Image: Cure and Strip						
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Current Strip         AWV2AW           Ground Floor         AVV2AW           Orgenet 1-07         Base 2-07           Degree 2-07         Degree 2-07           R48-55-2050         Dis - Cells (Desree 2-07           R48-55-2070         Dis - Cells (Desree 2-07           Degree 1-07         Degree 2-07           R48-53-050         Dis - Degree 2-07 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
AdV/rEAM Organit Floor Dogres 1- Of Dogres 2- Of Dogres 2						Slabs
Ground Floor       Degree 1-ofF         Degree 2-ofF       Degree 3-ofF         RAD-S3-1005       055 - Floor Parking & Timg, G/F         RAD-S3-1015       053 - Door Parel & Iconnorgery, G/F         First Floor       Degree 2-ifF         Degree 2-ifF       Degree 2-ifF         RAb 52-000       635 - Forderd Allower of Use 10; 1/F         Rub 53-7055       635 - Lwyre 10 and wrates         Rub 53-7055       635 - Lwyre 10 and wrates						Cure and Strip
Degree 1- OF						
Degree 2 · OF						
Degree 3: Off         For Parking & Ting, OFF         Image: Control of Section Parket & Index, OFF           RAbs:S3:0010         063 - Four Parket & Index, OFF         Image: Control of Section Parket & Index, OFF           RAbs:S3:0010         063 - Door Parket & Index, OFF         Image: Control of Section Parket & Index, OFF           Parket S3:0010         063 - Door Parket & Index, OFF         Image: Control of Section Parket & Index, OFF           Degree 1: 1/F         Image: Control of Section Parket & Index, Inf         Image: Control of Section Parket & Index, OFF           Parket S3:0010         053 - Foor Parket & Index, Inf         Image: Control of Section Parket & Index, OFF           RAbs:S3:005         053 - Foor Parket & Inf         Image: Control of Section Parket & Index, OFF           RAbs:S3:005         053 - Foor Parket & Inf         Image: Control of Section Parket & Inf           RAbs:S3:005         053 - Foor Parket & Inf         Image: Control of Section Parket & Inf           RAbs:S3:005         053 - Hourg Barnet & Inf         Image: Control of Section Parket & Inf           RAbs:S3:005         053 - Hourg Bood deternal Parket         Image: Control of Section Parket & Inf           RAbs:S3:005         053 - Laying Good deternal Parket         Image: Control of Section Parket & Inf           RAbs:S3:005         053 - Index Bood deternal Parket         Image: Control of Section Parket & Inf <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
RA8-63-8205       063 - Floor Painting A Tilling, 0/F       Add Sa - Floor Painting A Tilling, 0/F         RA8-53-7015       053 - Color Painting A Tilling, 0/F       Add Sa - Floor Painting A Tilling, 1/F         Degree 1 - 1/F       Degree 1 - 1/F       Add Sa - Floor Painting A Tilling, 1/F         RA8-53-7015       053 - Floor Painting A Tilling, 1/F       Add Sa - Floor Painting A Tilling, 1/F         RA8-53-7015       053 - Floor Painting A Tilling, 1/F       Add Sa - Floor Painting A Tilling, 1/F         RA8-53-7015       053 - Floor Painting A Tilling, 1/F       Add Sa - Floor Painting A Tilling, 1/F         RA8-53-7015       053 - Floor Painting A Tilling, 1/F       Add Sa - Floor Painting A Tilling, 1/F         RA8-53-7015       053 - Floor Painting A Tilling, 1/F       Add Sa - Floor Painting A Tilling, 1/F         RA8-53-7015       053 - Projectal Arbitrowment of Stage 10: 1/F       Add Sa - Projectal Arbitrowment of Stage 10: 1/F         External Floor Dog 00       053 - Instell Random       Add Table         RA8-53-7055       053 - Leynera Stake Grade       Add Table Table						
RAB-53-916       63 - Caling Plaster Bourd, G/F         RAB-53-910       663 - Door Panel & Inormongery, G/F         Degree 1 - 1/F       Degree 2 - 1/F         Degree 2 - 1/F       Degree 3 - 1/F         Degree 3 - 1/F       Degree 3 - 1/F         RAB-53-8195       663 - Hoor Panel & Inormongery, G/F         RAB-53-8195       663 - Hoor Panelak, 1/F         RAB-53-8195       663 - Morphigh and Remediak, 1/F         RAB-53-8195       663 - Projected Achievement of Stage 1C, 1/F         External Finishes       External Facility         External Finishes       Face 3 - Projected Achievement of Stage 1C, 1/F         External Finishes       Face 3 - Projected Achievement of Stage 1C, 1/F         External Finishes       Face 3 - Projected Achievement of Stage 1C, 1/F         External Finishes       Face 3 - Projected Achievement of Stage 1C, 1/F         External Finishes       Face 3 - Projected Achievement of Stage 1C, 1/F         External Finishes       Face 3 - Projected Achievement of Stage 1C, 1/F         RAB-53-650       653 - Long/G contes         RAB-53-7655       653				· //	052 Elses Deisting & Tiling O/E	
RA8-33-0710       053 - Door Panel & transmogery, G/F         First Floor         Degree 2 - 1/F         Degree 2 - 1/F         RA8-53-5215       053 - Floor Painting & Tilling, 1/F         RA8-53-8125       053 - Nor Painting & Tilling, 1/F         RA8-53-8125       053 - Norpicetal Adviewment of Stage 1C, 1/F         External Fracede			• • • • • • • • • • • • • • • • • • • •			
First Floor       Degree 1: 1/F         Degree 2: 1/F       Degree 3: 1/F         RAB-53:4515       053 - Nico Painting & Time, 1/F         External Finishes           RAB-53:4515       053 - Nico Painting & Time, 1/F         RAB-53:0610       053 - Nate good ternal surfaces         A U Grade           RAB-53:7615       053 - Incyare Stub Grade         RAB-53:765       053 - Laying Course         RAB-53:765       053 - Laying Course         RAB-53:765       053 - Laying Course         RAB-53:765       053 - Incyare Stub Grade         RAB-53:765       053 - Incyare Stub Gra						
Degree 1 - I/F       Image: Imag				ry, G/F	053 - Door Panel & Ironmongery,	
Degree 2 - VF						
Degree 3 - 1/F         RAB-63-8215       053 - NEP Balance of Works         RAB-53-815       053 - MEP Balance of Works         RAB-53-8125       053 - Snagging and Remedials, 1/F         RAB-53-8125       053 - Projected Achievement of Stage 1C, 1/F         External Fracede       Image: Control Biology         RAB-53-7615       053 - Make good external surfaces         At Grade       Image: Control Biology         RAB-53-7616       053 - Projected Achievement of Stage 1C, 1/F         RAB-53-7616       053 - Make good external surfaces         At Grade       Image: Control Biology         RAB-53-7626       053 - Laying Geo Textile         RAB-53-7626       053 - Laying Geo Textile         RAB-53-7626       053 - Laying Course         RAB-53-7626       053 - Install Raling - 105m         Spacialist Installations       Image: Control Biology         Glaad Canopy       Image: Control Biology         RAB-53-765       Actual Work         Critical Remaining.       Image: Chicked Minge: Control Biology         Rabe-53-765       053 - Install Raling - 105m         Spacalid						
RAB-53-2615       053 - Floor Paining & Tiling, 1/F         RAB-53-8195       053 - MEP Balance of Works         RAB-53-8195       053 - Rueghing and Remedials, 1/F         RAB-53-8105       053 - Projected Achievement of Stage 1C, 1/F         External Finishes       •         RAB-53-8050       053 - External Painting         RAB-53-8060       053 - External Painting         RAB-53-807       053 - External Painting         RAB-53-8060       053 - External Painting         RAB-53-7015       053 - Projare Sub Grade         RAB-53-7815       053 - Projare Sub Grade         RAB-53-7815       053 - Laying Course         RAB-53-7855       053 - Laying Course         RAB-53-7856       053 - Laying Course         RAB-53-7857       053 - Issal Railing - 105m         Spacelaist Installations       •         Glazd Canopy       •         Cated Canopy       •         Pate       Revision						
RAB-53-8195       053 - MEP Balance of Works         RAB-53-8125       053 - Snaging and Remedials, 1/F         RAB-53-8005       053 - Projected Achievement of Stage 1C, 1/F         External Finishes <ul> <li>RAB-53-8000</li> <li>053 - External Painting</li> <li>RAB-53-8000</li> <li>053 - Make good external surfaces</li> <li>At Grade</li> <li>RAB-53-7015</li> <li>053 - Laying Geo Textile</li> <li>RAB-53-7015</li> <li>053 - Laying Geo Textile</li> <li>RAB-53-7625</li> <li>053 - Laying Geo Textile</li> <li>RAB-53-7635</li> <li>053 - Laying Geo Textile</li> <li>RAB-53-7705</li> <li>053 - Laying Geo Textile</li> <li>RAB-53-7705</li> <li>053 - Laying Geo Textile</li> <li>RAB-53-7625</li> <li>053 - Laying Geo Textile</li> <li>RAB-53-7705</li> <li>053 - Laying Geo Textile</li> <li>RAB-53-7695</li> <li>053 - Iaying Geo Textile</li> <li>RAB-53-7695</li> <li>053 -</li></ul>				/F	053 - Floor Painting & Tiling 1/F	
RAB-S3-8125 053 - Snagging and Remedials, 1/F   RAB-S3-8055 053 - Projected Achievement of Stage 1C, 1/F   External Finishes   External Painting   RAB-S3-0640 053 - External Painting   RAB-S3-0640 053 - Make good external surfaces   At Grade   RAB-S3-7615 053 - Propare Sub Grade   RAB-S3-7625 053 - Laying Geo Textile   RAB-S3-7625 053 - Laying Geo Textile   RAB-S3-7635 053 - Laying Course   RAB-S3-7635 053 - Instal Railing - 105m   Spacialist Installations   Glazzet Canopy				·		
RAB-53-8095 053 - Projected Achievement of Stage 10, 1/F   External Finishes   External Facade   RAB-53-0600   053 - External Painting   RAB-53-0610   053 - Make good external surfaces   At Grade   RAB-53-7615   053 - Laying Geo Textile   RAB-53-7625   053 - Laying Course   RAB-53-7635   053 - Concrete Block Paving   RAB-53-7635   053 - Snag Listing   RAB-53-7635   053 - Install Railing - 105m   Spacialist Installations   Glazed Canopy     Deate   Revision     Critical Remaining				> 1/F		
External Finishes         External Facade         RAB-53-0500       053 - External Painting         RAB-53-0640       053 - Make good external surfaces         At Grade         RAB-53-7615       053 - Prepare Sub Grade         RAB-53-7625       053 - Laying Geo Textile         RAB-53-7635       053 - Laying Geo Textile         RAB-53-7635       053 - Laying Course         RAB-53-7635       053 - Snag Listing         Roof Finishes       Image: Control of the stall Railing - 105m         Spacialist Install Railing - 105m       Salacet Canopy         Glazed Canopy       Critical Remaining         Revision       Critical Remaining						
External Facade       Image: Critical Remaining						
RAB-53-0500       053 - External Painting         RAB-53-0540       053 - Make good external surfaces         At Grade						
RAB-53-0640 053 - Make good external surfaces   At Grade   RAB-53-7615 053 - Prepare Sub Grade   RAB-53-7625 053 - Laying Geo Textile   RAB-53-7625 053 - Laying Course   RAB-53-7655 053 - Laying Course   RAB-53-7655 053 - Concrete Block Paving   RAB-53-7705 053 - Snag Listing   RAB-53-7050 053 - Install Railing - 105m   Spacialist Install Railing - 105m   Glazed Canopy     Date   Revision					053 - External Painting	
At Grade         RAB-53-7615       053 - Prepare Sub Grade         RAB-53-7615       053 - Laying Geo Textile         RAB-53-7625       053 - Laying Course         RAB-53-7655       053 - Laying Course         RAB-53-7655       053 - Concrete Block Paving         RAB-53-7655       053 - Concrete Block Paving         RAB-53-7705       053 - Snag Listing         RAB-53-7050       053 - Install Railing - 105m         Spacialist Install Railing - 105m         Glazed Canopy       Date         Remaining Level of Effort       Actual Work       Critical Remaining				aces	-	
RAB-53-7615       053 - Prepare Sub Grade         RAB-53-7615       053 - Laying Geo Textile         RAB-53-7625       053 - Lay Granular Sub-Base         RAB-53-7635       053 - Laying Course         RAB-53-7635       053 - Laying Course         RAB-53-7695       053 - Concrete Block Paving         RAB-53-7705       053 - Snag Listing         RAB-53-0530       053 - Install Railing - 105m         Spacialist Installations         Glazed Canopy					geed external outdoor	
RAB-53-7885       053 - Laying Geo Textile         RAB-53-7625       053 - Lay Granular Sub-Base         RAB-53-7635       053 - Laying Course         RAB-53-7635       053 - Concrete Block Paving         RAB-53-7695       053 - Concrete Block Paving         RAB-53-7705       053 - Snag Listing         RAB-53-7050       053 - Install Railing - 105m         Spacialist Installations       Spacialist Installations         Glazed Canopy       Date         Remaining Level of Effort       Actual Work         Critical Remaining       2. Month Bolling Brogramme Lingate 01 Jan 2018		<sup>1</sup> ////////////////////////////////////			053 - Prepare Sub Grade	
RAB-53-7625       053 - Lay Granular Sub-Base         RAB-53-7635       053 - Laying Course         RAB-53-7695       053 - Concrete Block Paving         RAB-53-7705       053 - Snag Listing         RAB-53-7050       053 - Install Railing - 105m         Spacialist Installations					-	
RAB-53-7635       053 - Laying Course         RAB-53-7695       053 - Concrete Block Paving         RAB-53-7705       053 - Snag Listing         RAB-53-7705       053 - Snag Listing         RAB-53-7050       053 - Install Railing - 105m         Spacialist Installations       Clazed Canopy         Date       Revision         Clazed Canopy       Date         Remaining Level of Effort       Actual Work						
RAB-53-7695       053 - Concrete Block Paving         RAB-53-7705       053 - Snag Listing         RAB-53-7705       053 - Snag Listing         RAB-53-0530       053 - Install Railing - 105m         Spacialist Installations       Image: Critical Remaining         Glazed Canopy       Date         Remaining Leyel of Effort       Actual Work         Critical Remaining       3-Month Polling Programme Lipdate 01 Jap 2018						
RAB-53-7705       053 - Snag Listing         Roof Finishes       Image: Constant Railing - 105m         RAB-53-0530       053 - Install Railing - 105m         Spacialist Installations       Image: Constant Railing - 105m         Glazed Canopy       Image: Critical Remaining         Remaining Level of Effort       Actual Work         Critical Remaining       3-Month Polling Programme Lipdate 01 Jap 2018						
Roof Finishes       RAB-53-0530       053 - Install Railing - 105m         Spacialist Installations       Image: Concept C		9/////////////////////////////////////				
RAB-53-0530       053 - Install Railing - 105m         Spacialist Installations					000 - Onay Listing	
Spacialist Installations         Glazed Canopy         Remaining Level of Effort       Actual Work       Critical Remaining         3-Month Polling Programme Lindate 01 Jan 2018       Date       Revision       Checked					053 - Install Railing - 105m	
Glazed Canopy  Glazed Canopy  Critical Remaining						
Remaining Level of Effort     Actual Work     Critical Remaining     Critical Remaining     Critical Remaining     Critical Remaining     Checked						
			X/////////			
Actual Level of Effort Effort Actual Level of Effort Actual Le	Jan. 2018 01-Jan-18 3-Month Rolling Programme, 01 Jan-18 Update	ling Programme Update, 01 Jan. 20	3-Month Rolling			

LEIGHTON 信号页	695	Contract N	0. HY/20 <sup>7</sup>	14/05 - Re	emaining	Ancillar	y Bullal	ng and	Faciliti	es							Page 18	8 (
/ ID	Activity Name	er 2017			Decemb	er 2017			Ja	nuary 2018				February 20	18		March 2	201
		1	9 26	03	10	17	24	31	07	14	21	28	04	11	18	25	04	
RAB-53-0620	053 - Construct high level Canopy at +9.95mPD																	
Utilities and Drainag																		
Testing & Commissi RAB-TC53-1050	oning 053 - T&C, Lift																	
	ons & Approvals (Day 470 Completion)																	
BEEO	ans & Approvals (Day 470 Completion)						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
RAB-BEE-420	053 - Registered Energy Assessor Inspection & Certificati	ion																
RAB-BEE-430	053 - Submit REA Certification to EDMS								•									
RAB-BEE-440	053 - EDMS Issue of Cert of Compliance Registration (C	OCR)																
EMSD - Building 05		,																
RAB-FSD-160	053 - EMSD Lift Inspection																	
RAB-FSD-090	053 - EMSD Lift Certificate Issued (Fire Lift)								•									
Water Supplies Dep	partment (WSD)																	
Commencement																		
Completion				-														
RAB-WSD-100	053 - Submit WWO 46 Pt. IV																	
RAB-WSD-102	053 - WSD's Processing/Inspection/Meter Connection																	
RAB-WSD-104	053 - WSD Issue WWO 046 Part V, Plumbing Compl. Ce	ert & Water Conne									•							
VAC																		
FSD				-												//////////////////////////////////////		
RAB-FSD-430	053 - Issue Form 172, FS Compliance Cert.							•										
Engineer (AECOM) RAB-53-7460	053 - Submit Building 053 As Built Drawings to Engineer																	
								-										
RAB-53-7470	053 - Engineer Inspection Period																	
RAB-53-7480	053 - Engineer Issue Occupation Permit																	
RAB-53-KD1	KD1 - Projected Completion of Section I of the Works (47	o days) Building of																
Excavation	ound X-Ray Scan Tunnel																	
Raft																		
Structure																		
Walls				- •														
South																		
North																		
Roof Slabs																		
Cure and Strip				- • • • • • • • • • • • • • • • • • • •														
ABWF/E&M Internal Finishes																		
Degree 1																		
Degree 2																		
Degree 3																		_
RAB-58-0700	058 - Floor Finish (Epoxy Paint)																	-
RAB-58-0660	058 - Snagging and Remedials, Bldg. Internal																	
RAB-58-7520	058 - End Users and MoM handover inspection							•										
Roof Finishes																		
RAB-58-0540	058 - Install Railing - 152m															//////////////////////////////////////		
External Finishes																		
Facade	050 Esternel Deisting																	
RAB-58-0470	058 - External Painting																	
At Grade RAB-58-6760	058 - Prepare Sub Grado																	
	058 - Prepare Sub Grade															//////////////////////////////////////		
RAB-58-6750	058 - Laying Geo Textile																	
RAB-58-6770	058 - Lay Granular Sub-Base																	_
									I	Date			Revision			Checked	٨٥٥	<u>_</u>
Remaining Level	l of Effort Actual Work Critical	Remaining 3-	Month D	olling Pro	arommo	Indata	01 lan	2010		Dale			REVISION			CHECKEU	Аррг	יזק

LEIGHTON 程 續		Itract No. H	11/201	4/03 - 10	emaining Ancillary B	anam	g and r acintics					Г	Page 19 of
ity ID	Activity Name	er 2017			December 2017		Januar	y 2018			February 2018		March 2018
		19	26	03	10 17 2	4	31 07	14	21	28 04	11 18	25	04
RAB-58-6780	058 - Laying Course												
RAB-58-6740	058 - Concrete Block Paving										V		
RAB-58-6800	058 - Snagging and Remedials												
Glazed Canopy													
RAB-58-0600	058 - Construct high level canopy at +13.231mPD												
Utilities and Drainage	e												
Testing & Commission	oning												
Statutory Submissio	ns & Approvals (Day 470 Completion)												
VAC (FSD)													
RAB-FSD-104	058 - Fire Certificate Obtained (Form 172) Handover For Building 058						<b>♦</b>						
Engineer (AECOM)													
RAB-58-7490	058 - Submit Building 058 As Built Drawings to Engineer						◆						
RAB-58-7500	058 - Engineer Inspection Period												
RAB-58-7510	058 - Engineer Issue Occupation Permit	1											
RAB-KD34	KD1 - Projected Completion of Section I of the Works (470 days) Building 05	_								¥/////////////////////////////////////			
Building 059 - Inbour	nd X-Ray Scan Tunnel												
Excavation													
Raft Foundations													
Structure											,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Walls													
West													
East													
Roof Slabs													
Cure and Strip													
ABWF/E&M													
Internal Finishes		_											
Degree 1		_											
Degree 2												//////////////////////////////////////	
Degree 3							•						
	059 - End Users and MoM handover inspection						•						
Roof Finishes													
External Finishes													
Facade RAB-59-0480	059 - External Painting										*****	//////////////////////////////////////	
		-											
	059 - Make good external surfaces	_											
At Grade RAB-59-6700	050 Duran O. I. Orada	_											
	059 - Prepare Sub Grade	_											
	059 - Laying Geo Textile										yanan ana ana ana ana ana ana ana ana an	//////////////////////////////////////	
	059 - Lay Granular Sub-Base	_											
	059 - Laying Course	_											
	059 - Concrete Block Paving												
RAB-59-0670	059 - Snagging and Remedials												
Glazed Canopy													
RAB-59-0610	059 - Construct high level glazed canopy at +13.406mPD North			······									
Utilities and Drainage													
Testing & Commission													
	ns & Approvals (Day 470 Completion)												
VAC												//////////////////////////////////////	
Fire Services Depart	tment (FSD)												
Commencement		_											
Completion													
	or FS Inspection (C8 Requirement)						•						
RAB-FSD-750	059 - Fire Certificate Obtained (Form 172) Handover For Building 059						•				<u> </u>		
Remaining Level	of Effort Actual Work Critical Remaining	2 M.e.	ath D-		ogramme Update, 01	lan	2019	Date		Revision		Checked	Approv
		5-17101	UTU KC	minin Pr				an-18			1 Jan-18 Update		

LEIGHTON 短 +页	Cor	ntract No.	HY/201	4/05 - Re	maining	Ancilla	ry Buildi	ing and	Facilit	ies							Page 20	) of
ity ID	Activity Name	er 2017			Decemb	er 2017			J	anuary 201	8			February 20	)18		March 20	:018
		19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	04	
Bldg. 059 for FS I	Inspection (Due to C3 Work Interface)		<b>_</b> ;								_							_
RAB-FSD-490	059 - Fire Certificate Obtained (Form 172) Handover For Building 059							•										
Engineer (AECOM)																		
RAB-59-7520	059 - Submit Building 059 As Built Drawings to Engineer							•										
Bldg. 059 Ready fo	or Engineer Inspection (C8 Requirement)																	
RAB-59-7570	059 - Engineer Inspection Period																	
RAB-59-7580	059 - Engineer Issue Occupation Permit										•							
RAB-59-7590	KD2 - Projected Completion of Section II of the Works (470 days) Building 0										•							
Bldg. 059 Ready fo	or Engineer Inspection (Due to C3 Work Interface)																	
RAB-59-7530	059 - Engineer Inspection Period																	
RAB-59-7540	059 - Engineer Issue Occupation Permit										۲							
RAB-KD24	KD2 - Projected Completion of Section II of the Works (470 days) Building 0										•							

Remaining Level of Effort Actual Work Critical Remaining	3-Month Rolling Programme Update, 01 Jan. 2018	Date	Revision	Checked	Approved
Actual Loyal of Effort Pamaining Work Sinich Constraint	5-Month Rolling Programme Opuale, 01 Jan. 2010	01-Jan-18	3-Month Rolling Programme, 01 Jan-18 Update		

Contract No.: HY/2	013/06		Detail Work Programme									
Activity ID	Activity Name			2	015				2016	;		
				Q2	Q3	Q4	Q1	C	22 (	Q3	Q4	Q1
📄 Hong Kong	-Zhuhai_Macao Bridge Hong Kong Boundary Cros	sing F										
📑 Key Dates												
Interface A												
	acility Inspection			li i i								
JS1200	Pre Site and Facility Inspection by Contractor at Location 4 - Deg2								!!			
JS1210	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Dec	g2										
JS1620	Pre Site and Facility Inspection by Contractor at Location 14 - Deg2											
	Joint Site and Facility Inspection with Interface Contractor at Location 14 - De	eyz										
JS1760	Pre Site and Facility Inspection by Contractor at Location 18 - Deg1											
JS1770	Joint Site and Facility Inspection with Interface Contractor at Location 18 - De	egi		<u> </u>								
JS1780 JS1790	Pre Site and Facility Inspection by Contractor at Location 18 - Deg2											
	Joint Site and Facility Inspection with Interface Contractor at Location 18 - De	egz										
🚽 Access Da				li i i								
AD1000	Location 1(PCB (001) Basement)-Deg1 (270d)											
AD1010	Location 1(PCB (001) Basement)-Deg2 (380d)								!!			
a AD1020	Location 1(PCB (001) ELV Room (Grid Line E3))-Deg1 (270d)			li i i								
AD1030	Location 1(PCB (001) ELV Room (Grid Line E3))-Deg2 (380d)											
AD1040	Location 2(PCB (001) First Floor Main Server Room)-Deg1 (330d)											
AD1050	Location 2(PCB (001) First Floor Main Server Room)-Deg2 (380d)											
AD1060	Location 2(PCB (001) First Floor Main Server Room) - For Server Installatio											
AD1070	Location 2(PCB (001) Ground Floor ELV Room (Grid Line E3)) - Deg1 (330											
AD1080	Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid L											
AD1090	Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid L											
AD1130	Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)-Deg2 (500	-										
AD1150	Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,	128,129,14				-1			!!			
AD1170	Location 3a(Inbd Cargo Exam Bldg (037) ROCARS Room)-Deg2 (480d)											
AD1190	Location 3a(Inbd Cargo Exam Bldg (037) Main Server Room)-Deg2 (480d)											
AD1200	Location 3a(Inbd Cargo Exam Bldg (037) Main Server Room) - For Server in	nstallation -										
AD1220	Location 4(Outbd Cargo Exam Bldg (023))-Deg2 (680d)			li i i								
AD1240	Location 4a(Outbd Cargo Exam Bldg (023))-Deg2 (630d)								!!			
AD1270	Location 6(Common Utility Enclosure & Staff Subway)-Deg1 (400d)											
AD1290	Location 7(Common Utility Enclosure & Staff Subway)-Deg1 (270d)											
AD1300	Location 8(Inbd Private Car Annex (025))-Deg1 (430d)			li i i								
AD1310	Location 8(Inbd Private Car Annex (025))-Deg2 (580d)											
AD1320	Location 8(Inbd Private Car Annex (025) Canopy)-Deg1 (430d)			<u> </u>								
AD1330	Location 8(Inbd Private Car Annex (025) Canopy)-Deg2 (580d) Location 9(Outbd Private Car Annex (032))-Deg1 (520d)											
AD1340	Location 9(Outbd Private Car Annex (032))-Deg1 (520d) Location 9(Outbd Private Car Annex (032))-Deg2 (660d)											
AD1350	Location 9(Outbd Private Car Annex (032))-Deg2 (6000) Location 9(Outbd Private Car Annex (032) Canopy)-Deg1 (520d)											
AD1360	Location 9(Outbd Private Car Annex (032) Canopy)-Deg1 (5200) Location 9(Outbd Private Car Annex (032) Canopy)-Deg2 (660d)											
									ii			
AD1501	Location 12(Inbd Private Car Kiosks(027))-Deg1 (400d) Phase 2											
AD1510	Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d) Phase 1											
AD1511	Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d) Phase 2 Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg1 (400d) Phase 2											
AD1521	Location 12(Indu Private Car Riosks(027) Carlopy)-Deg1 (4000) Priase 2			<u>      </u>	: :	<u> </u>						
Programme No.: HZ	MB-DWP Actual Level of Effort	summary	Hong Kong-Zhubai-Macao Bridge									
Data Date: 14-Aug-1		, <u> </u>	Hong Kong-Zhuhai-Macao Bridge									1
Sum Dute. 17-11ug-1	Actual Work		Hong Kong Boundary Crossing									
	Remaining Work		Facilities - Automatic Vehicle									5
	Critical Remaining Work		Clearance Support System (AVCSS)									
	♦ A Baseline Milestone											
	♦ ♦ Milestone											

Date	Revision	Checked	Approved
Nov-16	Rev.: 0	WC	LC
Mar-17	Rev.: 1.0a	WC	LC
lay-17	Rev.: 1.0b	WC	LC

Contract No.: HY/2		Detail Work Programme						,					-	e 2 of 8
Activity ID	Activity Name		2015			2016				)17		2018		2019
- AD1520	Lagation 12/(Intel Driveto Car Kiegle(027) Canapy) Dog2 (490d) Dhase 1		Q2 (	23 Q4	Q1	Q2	Q3 Q4	1 Q1		Q3 Q4			Q4 Q1	Q2 Q3
AD1530	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg2 (480d) Phase 1 Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg2 (480d) Phase 2		1-1-1-1-1						• • • • •			te Car Kiosk	* - * - *	
AD1531	Location 12(Inbd GV Kiosks (028))-Deg1 (400d) Phase 1									1 <b>Y</b> 1 1 1 1		Private Car K		
AD1540	Location 12(Inbd GV Kiosks (028))-Deg1 (400d) Phase 1								: : : <b>*</b>			iosks (028))-		
AD1541	Location 12(Inbd GV Kiosks (028))-Deg1 (400d) Filase 2 Location 12(Inbd GV Kiosks (028))-Deg2 (480d) Phase 1											Kiosks (028		1 1 1 1 1
AD 1550	Location 12(Inbd GV Kiosks (020))-Deg2 (480d) Phase 2											Kiosks (028)		
AD1560	Location 12(Inbd GV Kiosks (020))-Deg2 (400d) Hidse 2 Location 12(Inbd GV Kiosks (028) Canopy)-Deg1 (400d) Phase 1		4 - 4 - 4 - 4 - 4									V Kiosks (02		
AD 1560	Location 12(Inbd GV Kiosks (020) Canopy)-Deg1 (400d) Phase 2								1 I I <b>X</b>	<u>.</u>		iosks (028) (		
AD1570	Location 12(Inbd GV Kiosks (020) Canopy)-Deg2 (480d) Phase 1									• : : : : :		Kiosks (028) Kiosks (028)		
AD1571	Location 12(Inbd GV Kiosks (028) Canopy)-Deg2 (480d) Phase 2									'' <b>_</b> ''''''''''''''''''''''''''''''''''		V Kiosks (028)		
AD1580	Location 12(Outbd GV Kiosks (029))-Deg1 (400d) Phase 1									1 <b>*</b> 1 1 1 1 1				
AD1581	Location 12(Outbd GV Kiosks (029))-Deg1 (400d) Phase 2		<u> </u>									Kiosks (029	3 - 4 - 4 - 4 - 4 - 4 - 4 - 4	
AD1590	Location 12(Outbd GV Klosks (029))-Deg1 (400d) Phase 1											V Kiosks (02		
AD 1550	Location 12(Outbd GV Kiosks (029))-Deg2 (480d) Phase 2									1 🔺 1 1 1 1		V Kiosks (029		
AD1600	Location 12(Outbd GV Klosks (029))-Deg2 (4000) Phase 2 Location 12(Outbd GV Klosks (029) Canopy)-Deg1 (400d) Phase 1								•	. 🗙		I GV Kiosks (	1 1 1 1 1 1 1	1.0.1.1.1.1
AD1600	Location 12(Outbd GV Klosks (029) Canopy)-Deg1 (400d) Phase 1								<b>Y</b>			Kiosks (029 V Kiosks (02		1 1 1 1 1
AD1601	Location 12(Outbd GV Klosks (029) Canopy)-Deg7 (4000) Phase 2 Location 12(Outbd GV Klosks (029) Canopy)-Deg2 (480d) Phase 1		1 - 1 - 2 - 2 - 2				    			×		V Kiosks (02 V Kiosks (029	1 - 1 - 1 - 1 - 1 - 2 - 2 - 1	
AD1610	Location 12(Outbd GV Klosks (029) Canopy)-Deg2 (480d) Phase 2								<pre></pre>		I I I	l GV Kiosks (uz:		
AD1620	Location 13(Outbd Private Car Kiosks (030))-Deg1 (480d) Phase 1											rivate Car Ki		
AD1620	Location 13(Outbd Private Car Kiosks (030))-Deg2 (550d) Phase 1									1		rivate Car K		
AD1640	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg1 (480d) Phase 1									<b>X</b> i i i i i		rivate Car Ki	1 1 1 1 1 1 1	1 1 1 1 1
AD1650	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg2 (550d) Phase 1									·		rivate Car K	* - 4 - 42 4 - 42 4	
AD1660	Location 14(Future-Outbd/Inbd Private Car Kiosks)-Deg1 (610d)									<b>Y</b> 1 1 1 1 1				1.1.1.1.1.1.1.1
AD1670	Location 14(Future-Outbd/Inbd Private Car Kiosks)-Deg2 (680d)											utbd/Inbd Pr -Outbd/Inbd		
AD1700	Location 16(Outbd Traffic Control Kiosk (101))-Deg1 (400d)									••••••		fic Control K		1 1 1 1 1
AD1710	Location 16(Outbd Traffic Control Kiosk (101))-Deg2 (480d)									1 1 🔺 1 1 1		od Traffic Co		
AD1740	Location 18(Outbd Private Car Exam Bldg(024))-Deg1 (-)		4 - 4 - 4 - 4 - 4									rivate Car E	1 - J - J	
AD1750	Location 18(Outbd Private Car Exam Bldg(024))-Deg2 (670d)									<b>1</b>		rivate Car E		
AD1780	(by C03) Underground Ducting (UUD1.1) between CUE and Inbd Cargo Exam Bldg (0									Y : : : : :		Ducting (Ul		
AD1790	(by C03) (UUD1.2) between Inbd Cargo Exam Bldg South (037[S]) and DOH Cargo C								: : : X			tween Inbd (		
AD1800	(by C03) (UUD2) between Inbd Cargo Exam Bldg North (037[N]) and Inbd Vehicle Clea								i i i 👗			veen Inbd Ca		1 I I I I
AD1810	(by C03) (UUD9.1) btw Inbd Cargo Exam Bldg S.(037[S]) & Inbd PC Exam Bldg(033) {								!-!-¥-			v Inbd Cargo	****	-!
AD1820	(by C03) (UUD9.3) between Inbd Private Car Exam Bldg (033) and Inbd Vehicle Cleara								1 I I X			tween Inbd F		
AD1830	(by C03) (UUD9.2) between Inbd Private Car Exam Bldg (033) and Inbd Vehicle Cleara								: : : <b>x</b>			tween Inbd I		
AD1840	(by C03) Underground Ducting (UUD3.1) between CUE to Outbd Cargo Exam Bldg (0.								1 I I <b>Y</b>	1. 1. 1. 1. 1. 1		I Ducting (UI		
AD1850	(by C03) (UUD3.2) btw Outbd Car Exam Bldg (023) and Outbd PC Exam Bldg (024) a								i i i 🗙	1 <b>1</b> 1 1 1 1		v Outbd Car		
AD1860	(byC03) (UUD4.1) between Outbd Private Car Exam Bldg (024) and Outbd Vehicle Cle		4 - 4 - 3 - 3 - 3									ween Outbd		
AD1870	(byC03) (UUD5) between Outbd Car Exam Bldg South (023[S]) and Outbd Vehicle Cle						· · · · ·		<b>X</b> .			een Outbd C		1 I I I I
AD1880	(by C03) Underground Ducting (UUD8) between CUE and Outbd PCA (032)								: : : <b>x</b>			I Ducting (Ul		-
AD1910	(by C03) Inbound Vehicle Clearance Plaza								· · · ¥			cle Clearanc		
AD1920	(by C03) Outbound Vehicle Clearance Plaza								i i i Y			hicle Clearar		
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Mobilization											,			
📲 WA4 Site E	Erection & Servicing													
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Programme No.: HZI		<sup>ary</sup> Hong Kong-Zhuhai-Macao Bridge						-	14-Nov-			WC	LC	proved
Data Date: 14-Aug-1	5 Primary Baseline	Hong Kong Boundary Crossing							14-100v- 10-Mar-		.: 0 :: 1.0a	WC		
	Actual Work	Facilities - Automatic Vehicle						-	5-May-1		.: 1.0b	wc	LC	
	Remaining Work	Clearance Support System (AVCSS)						ŀ	,			•		
	Critical Remaining Work													
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	♦ ♦ Milestone													

Contract No.: HY		Detail Work Programme	0045		-	040				004	7	-		00	10		-	e 3 of
Activity ID	Activity Name		2015 Q2 Q	3 Q4	Q1	 2016 Q3	3 Q	4 0	21 0	2017 22 (		24	Q1	20 Q2		Q4	Q1	019 Q2
📑 Detailed	Design Specification		~~			 							~.	~		~.	~.	
	tion Design and Management																	
	Manufacture Mock-up items					 												
	Aanufacture prototypes																	
	e Design, Coding and Testing																	
Coding	e System Inetgration																	
	e & Software Simulation Tests					 												
	ment - Phase 1 / Section I																	
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💾 Supply/M	Nanufacture Equipment																	
n Delivery	and Bench Acceptance Test for Phase 1/ Section I																	
nstallati	on - Phase 1 / Section I										• 01	-Sep-	17, Ins	stallati	on - Ph	nase 1	/ Secti	on l
Location	n 1(PCB (001) Basement)									-	22-Jun-	17, L	cation	ו 1(PC	B (001	) Base	ement)	
🔲 EM192	20 L1(001)B/F - Cable Laying and termination at Location 1 and Location 2									<b>–</b> i	1(001)	)B/F -	Cable	Layir	g and t	ermina	ation at	t Loca
	1 (PCB (001) ELV Room (Grid Line E3))		 			 				المالية المالية	22+Jun-	-1-1-	للالتقال	المانيان ا		.i.i.i.	الالتان المالية الم	
	L1(001)ELV Rm - Cable Laying and termination at Location 1 and Location 2										1(001) 22+Jun+		Rm - C		aying a	and ter	minati	on at
	2 (PCB (001) Ground Floor ELV Room (Grid Line E3))										: : : :	1.1	1 1 1	1 1 1		1 1 1		1.1
	L2(001)ELV Rm - Cable Laying and termination at Location 1 and Location 2 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD5))										L2(001) ▼ 18-	)ELV I Aug+1	≺m - C 7. Loc	able	_aying a 2(PCB	and ter (001)	rminati Groun	on at d Floc
= E0Cation											_2(001)		1 1 1	1 1 1	1 1 1	1 1 1		1.1
EM110			+ - + - + - +			 				이 아이는 말을 가야.	L2(001		이는 것 수 있는?					( (
EM112											L2(0							
🔲 EM114	L2(001)Heath Ctrl Rm - Intercom and PA system tuning										L2(	00́1)́⊢	leath C	Ctrl R	n - Inte	rcom a	and PA	syste
Location	n 2(PCB (001) First Floor Main Server Room)										₹ 21-	Aug-1	7, Loc	ation	2(PCB	(001)	First F	loor N
EM100	00 L2(001)Main Server Rm - Cable Laying and termination at Location 1 and Location 2										2(001)		2 - 2 - 2 - 1	and a set of the set o		- 1 - 3 - 33	· · · · · · · ·	
EM102											L2(00							
EM104											L2(¢							
EM106											□ L2(	001)N	/laih Se	erver	Rm - A	/CSS	Netwo	rk and
	n 3(Inbd Cargo Exam Bidg (037) MDF Room) n 3(Inbd Cargo Exam Bidg (037) ELV Room)																	
	13(Inbd Cargo Exam Bidg (037) Inspector Offices 128,129,130,131,128,129,14					 					▼ 07-A	\ug-1	7, Loca	ation 3	(Inbd C	Cargo	Examil	Bidg (
EM202											L3(037	)Inspe	c Offic	es- (	able I a	avina a	and ter	minat
EM204											L3(03							
🔲 📻 EM206	60 L3(037)Inspec Offices - AVCSS SURCON WS and 55" LCD Installation										L3(0						- 1 1 1	
EM208	30 L3(037)Inspec Offices - VTS WS Installation										L3(0	37¦)Iท่ร	pec O	ffices	VTSV	VS Ins	stallatio	n
EM210											L3(0	)37)İn	spec C	Offices	- SUR	CON	and WS	3 Tuni
	1 3(Inbd Cargo Exam Bidg (037) Platform Control Room)										▼ 07-A		1.1.1.	1 1 1	111	1.1.1		
EM116											L3(037							
EM118										1 1	L3(03 L3(0		1 1 1					
EM123						 				1				V				
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Data Date: 14-Aug	Actual Work	Hong Kong Boundary Crossing								lar-17		ev.: 1		W			LC	
	Remaining Work	Facilities - Automatic Vehicle							5-Ma	y-17	R	ev.: 1	0b	W	2		LC	
	Critical Remaining Work	Clearance Support System (AVCSS)																
	♦ Baseline Milestone																	
	♦ Milestone																	

ID	Activity Name		2015		2016		2017	2018	2
			Q2 Q3	Q4 Q1	Q2 Q3 (	24 Q1	Q2 Q3 Q	4 Q1 Q2 Q3	Q4 Q1
Location 3	3a(Inbd Cargo Exam Bidg (037) ROCARS Room)						07-A	ug-17, Location 3a(Inb	od Cargo Exan
EM1240	L3a(037) ROCARS Rm - Cable Laying and termination in Location 3 and Location	n 3a					L3a(037	) ROCARS Rm - Cab	ole Laying and
🔲 EM1260	L3a(037) ROCARS Rm - Cable Splicing and Testing and Labeling						L3a(03	7) ROCAR\$ Rm - Ca	able Splicing ar
🔲 EM1280	L3a(037) ROCARS Rm - AVCSS SYSCON and SURCON and Intercom Installat	ion						37) ROCARS Rm - A	-
EM1300	L3a(037) ROCARS Rm - VTS WS Installation				4        - 		1111 + - + - + - + -	37) ROCARS Rm - V	- + - +
EM1320	L3a(037) ROCARS Rm - VID WS Installation							37) ROCARS Rm - VI	
EM1340	L3a(037) ROCARS Rm - SURCON and SYSCON and WS Tuning							037) ROCARS Rm - S	
Location 3	3a(Inbd Cargo Exam Bldg (037) Main Server Room)							ug-17, Location 3a(Inc	
EM2120		tion 3a					L3a(03	7)Main Server Rm - Ca	able Laving an
EM2140							<u></u> + + + +	37)Main Server Rm - C	
EM2160								)37)Main Server Rm -	
EM2180							· · · <u>·</u> · · ·	)37)Main Server Rm -	
EM2200								037)Main Server Rm -	
	4(Outbd Cargo Exam Bldg (023) MDF Room)								
	4a(Outbd Cargo Exam Bidg (023) ROCARS Room)						🕶 🗸 04-A	ug-17, Location 4a(Ou	Itbd Cargo Exa
EM2240								3)ROCARS Rm - Cabl	
		0.0							1 1 1 1 - 1 1 1
EM2260								23)ROCARS Rm - AV	
								23)ROCARS Rm - VT	
EM2300								23)ROCARS Rm - \$1 Sep-17, Location 5(Co	
	5(Common Utility Enclosure & Staff Subway)								
EM2341								<ul> <li>Cable Laying betw</li> </ul>	
EM2361	L5(CUE) - Cable Laying between Location 5 and Location 7							UE) - Cable Laying be	
EM2380							L5(	CUE) - Cable Splicing Aug-17, Location 6(Co	, and Testing a
	6(Common Utility Enclosure & Staff Subway)					- + - + - 4 - 4	! <u>!!</u> ! <del> </del> - <del> </del> <del> </del> + - + -		-+-+
EM2400								E) - Cable Laying betw	
EM2420								CUE) - Cable Splicing	and Testing ar
	7(Common Utility Enclosure & Staff Subway)							Sep-17, Location 7(Co	
EM2440								UE) - Cable Laying be	
EM2460						-+-+-4-4-4	L7(	CUE) - Cable Splicing	and Testing a
	12(Inbd Private Car Kiosks,GV Kiosks (027,028,029))							Aug-17, Location 12(Ir	
	vate Car Kiosks(027) - 9 nos (Phase 1)							Aug-17, Inbd Private C	
	L12(027)(9nos P1) - Cable Splicing and Testing and Labeling						<b>□</b> L12(0:	27)(9nos P1) - Cable S	Splicing and Te
	20 L12(027)(9nos P1) - AVCSS/MOM Kiosk Equipment Installation (9 nos)							7)(9nos P1) - AVC\$S/I	
	41 L12(027)(9nos P1) - XDB installation (18 nos)				· · · · · · · · · · ·	-+-+-+-+-+	<sup>∎</sup> L12(02	7)(9nos P1) - XDB ins	stallation (18 n
🔲 EM154	42 L12(027)(9nos P1) - ODB installation (5 nos)						L12(027	7)(9nos P1) - ODB inst	stallation (5 nos
	43 L12(027)(9nos P1) - ODB installation (2 nos)						L12(02	7)(9nos P1) - ODB ins	stallation (2 no
	L12(027)(9nos P1) - ODB installation (2 nos)							27)(9nos P1) - ODB ins	
	60 L12(027)(9nos P1) - Loop installation (45 nos)				·     · <td></td> <td>📕 📕 L12/</td> <td>(027)(9nos P1) - Loop</td> <td>o installation (4</td>		📕 📕 L12/	(027)(9nos P1) - Loop	o installation (4
	ods Vehicle Kiosks(028) - 5 nos (Phase 1)							Aug-17, Inbd Goods V	
	20 L12(028)(5nos P1) - Cable Laying and termination				· · · · · · · · · ·			)(5nos P1) - Cable Lay	
	40 L12(028)(5nos P1) - Cable Splicing and Testing and Labeling							3)(5nos P1) - Cable Sr	
EM16	60 L12(028)(5nos P1) - AVCSS/MOM Kiosk Equipment Installation (5 nos)						L12(028	8)(5nos P1) - AVC\$S/I	MOM Kiosk Eq
🔲 EM168	81 L12(028)(5nos P1) - XDB installation (10 nos)						L12(02	8)(5nos P1) - XDB ins	stallation (10 nd
🔲 EM168	L12(028)(5nos P1) - ODB installation (3 nos)						<b>I</b> L12(02	8)(5nos P1) - ODB ins	stallation (3 no:
🔲 EM16	83 L12(028)(5nos P1) - ODB installation (2 nos)						L12(0	28)(5nos P1) - ODB in	nstallation (2 n

Programme No.: HZMB-DWP Data Date: 14-Aug-15	<ul> <li>Actual Level of Effort</li> <li>Primary Baseline</li> <li>Actual Work</li> <li>Remaining Work</li> <li>Critical Remaining Work</li> <li>♦ Baseline Milestone</li> <li>♦ Milestone</li> </ul>	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Automatic Vehicle Clearance Support System (AVCSS)	14-N 10-M 5-Ma
	◆ ◆ Milestone		

Date	Revision	Checked	Approved
Nov-16	Rev.: 0	WC	LC
Mar-17	Rev.: 1.0a	WC	LC
lay-17	Rev.: 1.0b	WC	LC

Contract No.: HY/2013/06	Detail Work Programme	Page 5 of 8
Activity ID Activity Name		
	Q2	Q3 Q4 Q1 Q2 C
EM1700 L12(028)(5nos P1) - AIOP Installation (5 nos)		L12(028)(5hos P1) - AIOP Installation (5 hos)
EM1720 L12(028)(5nos P1) - Loop installation (25 nos)		L12(028)(5nos P1) - Loop installation (25 nos); ↓ 25-Aug-17, Outbd Goods Vehicle Kiosks(029) - 5
Outbd Goods Vehicle Kiosks(029) - 5 nos (Phase 1)		
EM1740 L12(029)(5nos P1) - Cable Containment in Kiosks EM1760 L12(029)(5nos P1) - Cable Laying and termination		L 12(029)(5nos P1) - Cable Containment in Kiosks L 12(029)(5nos P1) - Cable Laying and termination
EM1780 L12(029)(5nos P1) - Cable Edying and termination		L12(029)(5nos P1) - Cable Laying and termination L12(029)(5nos P1) - Cable Splicing and Testing and Test
EM1800 L12(029)(5nos P1) - AVCSS/MOM Kiosk Equipment Installation (5 nos)		<ul> <li>L12(029)(5nos P1) - Lable Splicing and resulting and</li> <li>L12(029)(5nos P1) - AVC\$S/MOM Kiosk Equipment</li> </ul>
EM1821 L12(029)(5nos P1) - XDB installation (5 nos)		■ L12(029)(3nos P1) - AVC3S/MOM/KOsk Equipment ↓ L12(029)(5nos P1) - XDB installation (5 nos)
EM1822 L12(029)(5nos P1) - ODB installation (4 nos)		L12(029)(5nos P1) - ADB installation (5 nos)
EM1823 L12(029)(5nos P1) - ODB installation (4 nos)		
EM1840 L12(029)(5nos P1) - AIOP Installation (5 nos)		L12(029)(5nds P1) - ODB Installation (1 nos) L12(029)(5nds P1) - AIOP Installation (5 nos)
Location 13(Outbd Private Car Kiosks (030)) - 9 nos (Phase 1)		v L12(029)(Snos P1) - AIOP Installation (Sinos) ↓ 29-Aug-17, Location 13(Outbd Private Car Kiosk
EM2520 L13(030)(9nos P1) - Cable Containment in Kiosks		
EM2540 L13(030)(9nos P1) - Cable Containment in Nosis		
EM2560 L13(030)(9nos P1) - Cable Edying and termination		L13(030)(9nos P1) - Cable Laying and termination L13(030)(9nos P1) - Cable Splicing and termination
EM2580 L13(030)(9nos P1) - AVCSS/MOM Kiosk Equipment Installation (9 nos)		L 13(030)(9nos P1) - Cable Splicing and resting
EM2601 L13(030)(9nos P1) - XDB installation (9 nos)		L13(030)(9nos P1) - AVESS/MOM Ribsk Equipmen L13(030)(9nos P1) - XDB installation (9 nos)
EM2602 L13(030)(9nos P1) - ODB installation (7 nos)		L13(030)(9nds P1) - XDB installation (9 nos)
Location 14(Future-Outbd/Inbd Private Car Kiosks) - 6+6 nos		■ LT3(U30)(9/10s PT) + ODB Installation (7/10s) ▼▼ 08-Jul-17, Location 14(Future-Outbd/Inbd Private Ca
EM1440 L14 - Cable Laying and termination at ELV Room in CUE		□ L14:- Cable Laying and termination at ELV Room in
Location 15(Inbd Traffic Control Kiosk (100))		
Location 16(Outbd Traffic Control Kiosk (101))		29-Aug-17, Location 16(Outbd Traffic Control Kid
EM2760 L16(101) - Cable Laying and termination		L16(101) - Cable Laying and termination
EM2780 L16(101) - Cable Splicing and Testing and Labeling		I L16(101) - Cable Splicing and Testing and Labeling
EM2800 L16(101) - AVCSS SYSCON and SURCON Installation		L16(101) - AVCSS \$YSCON and SURCON Insta
EM2820 L16(101) - VTS WS and 55" LCD Installation		L16(101) - VTS WS and 55" LCD Installation
Location 17 (Inbd Private Car Exam Bldg(033) Operational Office)		
Location 18 (Outbd Private Car Exam Bldg(024) Operational Office)		₩ 107-Jul-17, Location 18 (Outbd Private Car Exam Bld
EM2940 L18(024) - Cable Laying and termination		L18(024) - Cable Laving and termination
EM2960 L18(024) - Cable Splicing and Testing and Labeling		L18(024) - Cable Splicing and Testing and Labeling
EM2980 L18(024) - AVCSS SURCON and 55" LCD Installation		L18(024) - AVCSS SURCON and 55" LCD Installatio
EM3000 L18(024) - SURCON Tuning		L18(024) - SURCON Tuning
Location 19 (DOH Cargo Clearance Bldg(043))		10-Jul-17, Location 19 (DOH Cargo Clearance Bldg
EM1360 L19(043) - Cable Laying and termination		L19(043) - Cable Laying and termination
EM1380 L19(043) - Cable Splicing and Testing and Labeling		L19(043) - Cable Splicing and Testing and Labeling
EM1400 L19(043) - PA and Intercom Installation		L19(043) - PA and Intercom/Installation
EM1420 L19(043) - PA and Intercom Tuning		🕽 L119(043) - PA and Intercom Tuning
Inbd Vehicle Clearance Plaza - 8 nos VID, 7 nos VTS, 4 nos TLS		02-Aug-17; Inbd Vehicle Clearance Plaza - 8 nos V
EM3020 Inbound VID cabling from pillar box to VID field equipment		📮 Inbound VID cabling from pillar box to VID field equipr
EM3040 Inbound VTS cabling from pillar box to VTS field equipment		🖡 Inbound VTS cabling from pillar box to VTS field equi
EM3060 Inbound TLS cabling from pillar box to TLS field equipment		Linbound TLS cabling from pillar box to TLS field equ
EM3080 Inbound VID field equipment installation (8 VID)		Inbound VID field equipment installation (8 VID)
EM3100 Inbound VTS field equipment installation (4 RFID + 3 Cameras)		Linbound VTS field equipment installation (4 RFID +
EM3120 Inbound TLS field equipment installation (4 TLS)		Inbound TLS field equipment installation (4 TL\$)
EM3140 Inbound VID and VTS and TLS field equipment tuning		Inbound VID and VTS and TLS field equipment fur

Programme No.: HZMB-DWP Data Date: 14-Aug-15	<ul> <li>Actual Level of Effort</li> <li>Primary Baseline</li> <li>Actual Work</li> <li>Remaining Work</li> <li>Critical Remaining Work</li> <li>Baseline Milestone</li> <li>Milestone</li> </ul>	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Automatic Vehicle Clearance Support System (AVCSS)		14-N 10-N 5-Ma
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Date	Revision	Checked	Approved
Nov-16	Rev.: 0	WC	LC
Mar-17	Rev.: 1.0a	WC	LC
1ay-17	Rev.: 1.0b	WC	LC

Contract No.: HY/20		Detail Work Programme		15			00	16					17				10			ge 6 o
tivity ID	Activity Name		201	15 Q3	Q4	1 0	201 Q2	16 Q3	Q4	Q	01	20 Q2		Q4	Q1	20 <sup>-</sup> Q2	Q3	Q4		2019 Q2
Cutbd Vehi	Learance Plaza - 8 nos VID, 6 nos VTS, 4 nos TLS		GZ		G T						+		02-A							
EM3160	Outbound VID cabling from pillar box to VID field equipment												Outbour	nd VIE	) cabli	ina fro	om pilla	ar box	to VID	) field c
EM3180	Outbound VTS cabling from pillar box to VTS field equipment												Outbou	i i i	i i i		i i' i	i i i	-i i i i	- i - i - i
EM3200	Outbound TLS cabling from pillar box to TLS field equipment											- 1 - 1 - <b>1</b>	Outbo			-				
EM3220	Outbound VID field equipment installation (8 VID)					 	ll-						Outbe	+ - +		-				! ! !-
🔲 EM3240	Outbound VTS field equipment installation (3 RFID + 3 Cameras)											1	Outbo	bund V	∕TS fi∈	eld eq	uipmei	nt insta	allation	1 (3 RF
🔲 EM3260	Outbound TLS field equipment installation (4 TLS)												Outb	ound <sup>-</sup>	TLS fir	eld eq	quipme	ent inst	allation	n (4 TI
🔲 EM3280	Outbound VID and VTS and TLS field equipment tuning																		field equ	
💾 Undergrou	nd Ducting (UUD1.1) between CUE and Inbd Cargo Exam Bldg (03	7)										₩	13-Jun-	17, Un	ıdergr	ound	Ductin	ng (UU	D1.1) l	betwe
🔲 UD1000	(UUD1.1 [CUE-037]) - Cable laying and termination												(UUD1.	1 [CUI	Ė-037	]) - Ca	able la	iying a	nd term	minatic
📕 (UUD1.2) b	etween Inbd Cargo Exam Bldg South (037[S]) and DOH Cargo Cle	irance Bl											27-Jun	-17, (L	JUD1.	.2) be	etween	i Inbd (	Cargo F	Exam
UD1060	(UUD1.2 [037[S]-043]) - Cable laying and termination												(UUD1	2 [03	7[S]-0-	43]) -	Cable	laying	) and te	ermina
💾 Undergrou	nd Ducting (UUD6) between CUE and Shuttle Bus Kiosk (006) and	Inbd Priv																		
📕 (UUD9.1) b	tw IB Cargo Exam Bldg South(037[S]) & IB PC Exam Bldg(033) &	B Traffic											🔻 12-Jul	I-17, (l	JUD9	1) bti	tw IB C	Cargo E	Exam B	Bldg S
🔲 UD1040	(UUD9.1 [037[S]-033-100) - Cable laying and termination													9.1 [0:	37[S]-(	033-1	100) - (	¢aþle l	laying a	and te
	ween Inbd Cargo Exam Bldg North (037[N]) to Inbd VCP												₩ 26-Ju	ul-17, (	(UUD2	2) bet	tween	Inbd C	argo E	Exam I
😑 UD1010	(UUD2 [037[N]-IB VCP]) - Cable laying and termination													22 [03	7[N]-IF	BVCF	P]) - C	able la	iying ar	ind ter
	etween Inbd Private Car Exam Bldg (033) and Inbd Vehicle Cleara	ice Plaza											<b>W</b> 09-A		1 I I	- 11	1	111		
🔲 UD1070	(UUD9.3 [033-IB VCP[W]) - Cable laying and termination					 	411 -						🛛 (ບັບ	D9.3 [	[033-IF	BVCF	P[W])	- Cable	e laying	g and
💾 (UUD9.2) b	etween Inbd Private Car Exam Bldg (033) and Inbd Vehicle Cleara	ice Plaza											<b>T</b> 23-	-Aug-1	17, (Ul	UD9.2	2) betv	ween li	nbd Priv	ivate (
UD1020	(UUD9.2 [033-IB VCP[E]) - Cable laying and termination												U) 🛛	UD9.2	[033-	IB VC	CP[E])	- Cabl	le laying	ig and
📕 Undergrou	nd Ducting (UUD7) between PCB(001) and Inbd Coach Kiosks(010	)																		
💾 Undergrou	nd Ducting (UUD3.1) between CUE and Outbd Cargo Exam Bldg (	<mark>23)</mark>										W	14-Jun-	17, Un	idergro	ound	Ductin	ng (UU	D3.1) t	betwe
UD1030	(UUD3.1 [CUE-023]) - Cable laying and termination					 							(UUD3.	1 [CUI	E-0231	]) - Cá	able la	iying ai	nd term	minatic
💾 (UUD3.2) b	tw OB Car Exam Bldg(023) & OB PC Exam Bldg(024) & OB Traffic	Control H											7 28-Jun		111	111	1 1 1	1 1 1	1 1 1	
	(UUD3.2 [023-024-101]) - Cable laying and termination												(UUD3							
	nd Ducting (UUD8) between CUE and Outbd PCA (032)											1 L I	13-Jun-			1 1 1	1 1 1			1 1 1
	(UUD8 [CUE-032]) - Cable laying and termination								111				(UUD8	[CUĖ-	032])	- Cab	ole layir	ng and	l termin	nation
	etween Outbd PC Exam Bldg (024) and Outbd Vehicle Clearance F	laza latente de la constante d				 							▼ 13-Jul			!!!-				iii -
	(UUD4.1 [024-OB VCP]) - Cable laying and termination																			
	ween Outbd Car Exam Bldg (023[S]) and Outbd Vehicle Clearance	Plaza Plaza											27-Jun-		1111	11 11	1 1 1	1 1 1		
	(UUD5 [023[S]-OB VCP]) - Cable laying and termination												(UUD5	023[	S]-OB	VCP]	]) - Ca	ible lay	ing and	d term
📑 Initial On-S	ite Test and Commissioning / Pre-SAT (Phase 1 / Sect	ion I)																		
📇 Site Accep	tance Test (Phase 1 / Section I)																			
	sk Assessment and Audit		+-+-+-			 				-+				+ - + - + - ·				• + - + - + -		
	Period Test (Phase 1 / Section I)																			
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	n (Phase 1 /Section I)																			
	id Document (Phase 1 /Section I)																			
n Comparization	(Phase 1 /Section I)																			
🖶 Engineerin	g Support for Phase 1 / Section I																			
	ent - Phase 2 / Section II																			
	d Bench Acceptance Test for Phase 2/Section II														17.104	t     tallati				
Installation	- Phase 2 / Section II												30	-r-iug-	17, IIIS	scandti	ιοι - P	ridse 2		
Programme No.: HZM	Actual Level of Effort	summary Hong Kong Zhuhai Macao Bridge										Date	e	Rev	ision		Chec	ked	Ap	pprove
-		I TIONY KONY-ZNUNA-WACAO DNUYE									14-1	Nov-1	6 R	Rev.: 0		W			LC	
Data Date: 14-Aug-1:	Actual Work	Hong Kong Boundary Crossing										Mar-1		Rev.: 1.		W			LC	
	Remaining Work	Facilities - Automatic Vehicle									<u>5-M</u>	lay-17	<u> </u>	Rev.: 1.	.0b	W	'C		LC	
	Critical Remaining Work	Clearance Support System (AVCSS)																		
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Con	ntract No.: HY/20	13/06			Detail Work Programme													
Activity	/ ID	Activity Name				i	20	15				2016				2017		
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		nbd Private Car Annex (025)) (															30-Au	
	EM3370	L8(025) - Cable Containment in K		_													6(025) -	
	EM3380	L8(025) - Cable Laying and termin		_													_8(025)	
	EM3400	L8(025) - Cable Splicing and Testi		_													L8(02	
		Dutbd Private Car Annex (032)														1 1 1	30-Au	1 1 1
	EM3500	L9(032) - Cable Containment in K		_			 	!!-									9(032)	
	EM3520	L9(032) - Cable Laying and termir		_													L9(03	2) - C
-	Initial On-S	ite Test and Commission	ning / Pre-SAT (Phase 2 / Section II)															
-	🛓 Site Accept	ance Test (Phase 2 / Sect	tion II)															
	🖕 Operability	Period Test (Phase 2 / Se	ection II)															
		(Phase 2 / Section II)	· · · ·															
		· · · · · · · · · · · · · · · · · · ·	Section II	_														
		g Support for Phase 2 / S		_														
	<b></b>	nt for Phase2 / Section II																
-	🛓 Delivery an	d Bench Acceptance Tes	t for Phase2 / Section III															
	Installation	- Phase 2 / Section III															• 09-	Oct-1
	<b></b>	,11,12,13 (Vehicle Clearance K	Kiosks)													+++	• 09-	Oct-1
		12 Inbd Private Car Kiosks (027)				-	+ - + - +							+-+-+			09-	Oct-1
		L12(027)(12nos P2) - Cable Layir															L12(02	7)(12r
	EM4460	L12(027)(12nos P2) - Cable Splic	cing and Testing and Labeling														L12(02	10 11 1
	🔲 EM4480	L12(027)(12nos P2) - AVCSS/DO	0H/MOM Kiosk Equipment Installation (12 nos)															
		13 Outbd Private Car Kiosks (030	0) - 12 nos (Phase 2)														01-Se	
	📄 EM4560	L13(030)(12nos P2) - Cable Cont	tainment in Kiosks								111						L13(0	30)(12
	Location 1	12 Outbd Goods Vehicle Kiosks (	(029) - 3 nos (Phase 2)														31-Au	ıg-17,
	EM4880	L12(029)(3nos P2) - Cable Laying	g and termination													📮 Li	2(029)	(3nos
	🔲 EM4900	L12(029)(3nos P2) - Cable Splicin	ng and Testing and Labeling													I L	12(029)	)(3nos
	🔲 EM4920	L12(029)(3nos P2) - AVCSS/DOH	H/MOM Kosk Equipment Installation (3 nos)														L12(02	9)(3nd
	📄 EM4940	L12(029)(3nos P2) - ODB & XDB	B Installation (3 nos)													I	L12(02	29)(3n
	🔲 EM4960	L12(029)(3nos P2) - AIOP Installa	ation (3 nos)														L12(02	29)(3n
	EM4980	L12(029)(3nos P2) - Loop Installa	ation (15 nos)													l	L12(0	29)(3
	Location	11 Outbd Coach Kiosks (009) - 4	nos (Phase 2)															
		12 Inbd Goods Vehicle Kiosks (02											·				24+Aug	
		L12(028)(3nos P2) - Cable Laying		_													2(028)	
		L12(028)(3nos P2) - Cable Splicin		_													12(028)	
			H/MOM Kiosk Equipment Installation (3 nos)														12(028	
		L12(028)(3nos P2) - ODB & XDB															L12(028	
		L12(028)(3nos P2) - AIOP Installa												+-+-+			L12(02	
		L12(028)(3nos P2) - Loop Installa														- 1 I I I	L12(02	
		L12(028)(3nos P2) - Kiosk Equipn														1 1 41	L12(02	1 1 1
		, ,, ,	Vehicle Kiosks Installation Complete	_												<b>\</b>	L12(02 30-Au	28)(3n 17
		10 Shuttle Bus Kiosks (006) - 4 n L10(006)(4nos P2) - Cable Conta															L10(0	
		11 Inbd Coach Kiosks (010) - 2 nd															L10(0	06)(4r
		11 Inbd Coach Kiosks (010) - 2 nd																
			ning / Pre-SAT (Phase 2 / Section III)															
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Prog	gramme No.: HZM	B-DWP	Actual Level of Effort	ummary	Hong Kong-Zhuhai-Macao Bridge											ate	R	Revisio
-	a Date: 14-Aug-15		Primary Baseline		Hong Kong Boundary Crossing									- F	14-Nov		Rev.:	
Duit			Actual Work		Facilities - Automatic Vehicle									- H	10-Ma		_	: 1.0a
			Remaining Work											4	5-May-	17	Rev.:	: 1.0b
			Critical Remaining Work		Clearance Support System (AVCSS)													
			♦ Baseline Milestone															
			Milestone															

								Page	7 of 8	3
		201	7		20	18		20	19	
Q4	Q1	Q2	Q3 Q4	Q1	Q2	Q3	Q4	Q1		23
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			📕 L13(0	30)(12	nos P2	) - Cab	le Con	tainmen oods Vel	t in Kio	sk
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			L12(02	9)(3no	s P2) -	ODB 8	& XDB		on (3 r	
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			L12(028	(3nos l	P2) - C	able S	plicing	and Tes	ting an	
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			L12(02		())					
			L12(02	28)(3no	os P2) -	Kiosk	Equipn	nent Co	nfigura	
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			⊨ L10(0	ub)(4nd	DS P2)	- Gable	e Gonta	ainment	in Kios	ĸs

Date	Revision	Checked	Approved
Nov-16	Rev.: 0	WC	LC
Mar-17	Rev.: 1.0a	WC	LC
1ay-17	Rev.: 1.0b	WC	LC

Contract No.: HY	//2013/06	Detail Work Programme																		Pag	ge 8 (	of
ctivity ID	Activity Name		20	15		2016						20	17				20	)18			2019	3
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	lity Period Test (Phase 2 / Section III)																					
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蜡 Defect L	iability Period (DLP)																					
📑 Docume	nt Submission (Phase 2 / Section III)												1 1 1 1 1 1 1 1 1									

Programme No.: HZMB-DWP Data Date: 14-Aug-15	<ul> <li>Actual Level of Effort</li> <li>Primary Baseline</li> <li>Actual Work</li> <li>Remaining Work</li> <li>Critical Remaining Work</li> <li>Baseline Milestone</li> <li>Milestone</li> </ul>	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Automatic Vehicle Clearance Support System (AVCSS)		[ 14-Nc 10-Ma 5-May
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Date	Revision	Checked	Approved
Nov-16	Rev.: 0	WC	LC
Mar-17	Rev.: 1.0a	WC	LC
lay-17	Rev.: 1.0b	WC	LC

)	ao Bridge Gantry Type X-Ray Vehicle Inspection System	Classic Schedule Layout         18-Jan-1           2016         2017         2018
		ec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul Aug S S Oct N Dec Jan F Mar Apr M Jun Jul Aug S S Oct N Dec Jan F Mar Apr M Jun Jul Aug S S Oct N Dec Jan F Mar Apr M Jun Jul Aug S S Oct N Dec Jan F Mar Apr M Jun Jul Aug S S Oct N Dec Jan F Mar Apr M Jun Jul Aug S S Oct N Dec Jan F Mar Apr M Jun Jul Aug S S Oct N Dec Jan F Mar Apr M Jun Jul Aug S S Oct N Dec Jan F Mar Apr M Jun Jul Aug S S Oct N Dec Jan F M Jun Jul Aug S S O
(/2014/04	Hong Kong-Zhuhai-Macao Brid	
	.1 Contract No. HY/2014/04 Hong	
		▼ .19-Jun-17, HY/2014/04.1.1.1 Contract Award
_	Letter of Acceptance	Letter of Acceptance
<b>a</b> 3	Contract Signing	Contract Signing
	04.1.1.1 Milestone	✓ ✓ ✓ 16-Dec-16, HY/2014/04.1.1.1.1 Milestone
	4/04.1.1.1.1 Cost Centre B	▼ 16-Dec-16, HY/2014/04.1.1.1.1 Wilestone ▼ 16-Dec-16, HY/2014/04.1.1.1.1.1 Cost Centre:B
	MS B1 - Submission of Draft Detailed Design Do	MS B1 - Submission of Draft Detailed Design Documents,
	MS B2 - Submission of Final Detailed Design Do	AS B2 - Submission of Final Detailed Design Documents,
	MS B3 - Acceptance of Factory Acceptance Test	MS B3 - Acceptance of Factory Acceptance Tests (FAT),
	MS B4 - Complete order and delivery on Site of a	♦ MS B4 - Complete order and delivery on Site of all equipment,
	MS B5 - Acceptance of Integration Test	♦ MS B5 - Acceptance of Integration Test,
	MS B6 - Acceptance of Site Acceptance Test	MS B6 - Acceptance of Site Acceptance Test,
	MS B7 - Acceptance of Operability Test	MS B7 - Acceptance of Operability Test,
	MS B8 - Issue of Certificate of Completion for wc	MS B8 - Issue of Certificate of Completion for works under Cost Centre B,
	4/04.1.1.1.2 Cost Centre C	▼ 16-Dec-16, HY/2014/04.1.1.1.1.2 Cost Centre C
	MS C1 - Submission of Draft Detailed Design Do	➡ MS C1 - Submission of Draft Detailed Design Documents,
🔲 🔲 A11	MS C2 - Submission of Final Detailed Design Do	AS C2 - Submission of Final Detailed Design Documents,
🔲 🔲 A11	MS C3 - Acceptance of Factory Acceptance Tes	MS C3 - Acceptance of Factory Acceptance Tests (FAT),
🔲 A11	MS C4 - Complete order and delivery on Site of a	MS C4 - Complete order and delivery on Site of all equipment,
🔲 A11	MS C5 - Acceptance of Integration Test	MS C5 - Acceptance of Integration Test,
🔲 A11	MS C6 - Acceptance of Site Acceptance Test	MS C6 - Acceptance of Site Acceptance Test,
🔲 🔲 A11	MS C7 - Acceptance of Operability Test	MS C7 - Acceptance of Operability Test,
🔲 🔲 A11	MS C8 - Issue of Certificate of Completion for wo	MS C8 - Issue of Certificate of Completion for works under Cost Centre B,
HY/2014/0	04.1.1.1.3.5 Site Access	T19-Jun-17, HY/2014/04.1.1.1.1.3.5 Site Access
HY/201	4/04.1.1.1.3.5.1.3.5.1 Location 1 - Cargo Exa	▼ 19-Jun-17, HY/2014/04.1.1.1.1.3.5.1.3.5.1 Lo¢ation 1 - C
🔲 100	Inbound Cargo Exam Bldg - Degree 2 inspection	Inbound Cargo Exam Bldg - Degree 2 inspection complete, 30-Jan-17
🔲 102	Outbound Cargo Exam Bldg - Degree 1 inspection	Outbound Cargo Exam Bldg - Degree 1 inspection
🔲 103	Outbound Cargo Exam Bldg - Degree 1 inspectic	Outbound Cargo Exam Bldg - Degree 1 inspection complete, 03-Apr-
🔲 104	Outbound Cargo Exam Bldg - Degree 2 inspection	Outbound Cargo Exam Bldg - Degree 2 inspection
🔲 105	Outbound Cargo Exam Bldg - Degree 2 inspectic	Outbound Cargo Exam Bldg - Degree 2 inspection compl
97	Inbound Cargo Exam Bldg - Degree 1 inspection	Inbound Carge Exam Bldg - Degree 1 inspection
98 🥅	Inbound Cargo Exam Bldg - Degree 1 inspection	Inbound Carg <mark>)</mark> Exam Bldg - Degree 1 inspection complete, 01-Sep-16 A
i 99	Inbound Cargo Exam Bldg - Degree 2 inspection	Inbound Cargo Exam Bldg - Degree 2 inspection
	4/04.1.1.1.3.5.1.3.5.3 Location 2 - X-ray Buik	▼ 02-Jan-17, HY/2014/04.1.1.1.1.3.5.1.3.5.3 Location 2 - X-ray Building
	Inbound X-Ray Bldg - Degree 2 inspection	I Inbound X-Ray Bldg - Degree 2 inspection
	Inbound X-Ray Bldg - Degree 2 inspection comp	► Inbound X-Ray Bldg + Degree 2 inspection complete, 02-Jan-17*
	4/04.1.1.1.3.5.1.3.5.4 Location 3 - X-Ray Scar	27-Mar-17, HY/2014/04.1.1.1.1.3.5.1.3.5.4 Location 3 - X-Ray Scan
	Inbound/Outbound X-Ray Scan Tunnel - Degree	Inbound/Dutbound X-Ray Scan Tunnel - Degree 1 inspection
	Inbound/Outbound X-Ray Scan Tunnel - Degree	hbourd/Dutbound X-Ray Scan Tunnel - Degree 1 inspection complete, 19-Jan-
	Inbound/Outbound X-Ray Scan Tunnel - Degree	Inbound X-Ray Scan Tunnel - Degree 2 inspection
	Inbound X-Ray Scan Tunnel - Degree 2 inspectic	Inbound X Ray Scan Tunnel - Degree 2 inspection complete, 27 Mar-
	I.1.1.3 Design, build, supply and install	Commencement of design Works, 31-Dec-15 A
<b>28</b>	Commencement of design Works	a second a s
HY/2014/0	04.1.1.3.1.3.2 Detailed Design Stage Kick-off Meeting	Kick-off Meeting
<b>3</b> 30	Project Charter	Project Charter
<b>3</b> 1	Liaison with Building Contractors on civil provisio	Liaison with Building Contractors on civil provisions required and submissi
	Interface and Coordination with interfacing contra	Interface and Coordination with interfacing contractor
<b>3</b> 3		Presentation of the workflow and states is esign to interested parties (C&ED, EMSD, HyD, etc.)
<b>3</b> 5	Presentation of the workflow and system design	
<b>a</b> 36	Preparation of AIP Submissions, including checki	Preparation of AIP Submissions, no the stirg by Independent Checking Engineer
<ul> <li>Actual Level of</li> </ul>	of Effort Remaining Work	Page 1 of 8 TASK filter: All Activities
	-	© Oracle Cor

	o Bridge Gantry Type X-Ray Vehicle Inspection System Activity Name	Classic Schedule Layout	2016
		ec Jan F Mar Apr M	Jun Jul Aug S Oct N Dec Jan F Mar Apr M J
<b>—</b> 37	Submission of AIP Documents		ibmission of AlP Documents
<b>3</b> 8	Comment by the Engineer		Comment by the Engineer
<b>3</b> 9	Preparation and Re-submission of AIP Documents		Preparation and Re-submission of A P Documents
<b>4</b> 0	Approval by the Engineer		Approval py the Engineer
	AIP Complete	······································	AIP Complete, 21-Jun-16 A
<b>4</b> 1			
<b>4</b> 2	Development of man-machine interface (MMI) wi		→ Detailed Design Stage Sompleter MS 3.1 C.1 - 22 S
<b>5</b> 1	Detailed Design Stage Complete (MS B.1, C.1 - :		■ Detailed Design Stage Stander Hyper VIS A. HY/2014/04.1
	4/04.1.1.3.1.3.2.1.3.2.7 Detailed Design Approv		Préparation of DDA Submission:
	Preparation of DDA Submissions	······································	I Submission of DDA Documents (I art 1)
<b>4</b> 5	Submission of DDA Documents (Part1)		
<u> </u>	Submission of DDA Documents (Part2)		Submission of DDA Docurner ts Par 2), 30-Jun-16
<b>—</b> 47	Receive comment and approval of DDAs by the I		Receive comment and the relation of DDAs by the
<b>a</b> 48	Provision to re-submit DDA volumes if required		Provision to re-suprimit DA volumes if requ
<b>—</b> 49	Approval of DDA volumes by the Engineer		Approval of D
<b>—</b> 50	DDA Complete (MS B.2, C.2 - 22 Oct 16)		DE 🔭 DE 🔭 plete ( MS B.2, C.2
HY/201	4/04.1.1.3.1.3.2.1.3.4 Interfaces		▼ 🥳 I.e16 H 7/2014/04.1
<b>—</b> 91	interfaces for building 053 agreed		Inter a les or puilding 055
<b>—</b> 92	interfaces for building 054 agreed		♦ niteraties or building 054
93	interfaces for building 058 agreed		Interaces or puilding 058
94	interfaces for building 059 agreed		the factor of puilding 05     the factor of puilding 05     the factor of the puilding 05     the
HY/2014/04.	1.1.3.3 Procurement and Delivery		21-Ap
53	Generate BOM		Generate BOM
<b>5</b> 4	Pre-Release Long Lead Item BOM	♦ Pre-Ré	elease Long Lead Item BOM, (7-45-14 A
55	Release full BOM		Release full BOM
<b>5</b> 6	Procurement of Long Lead Items (Tungsten)		Procurement of Lorg each ems (Tungsten)
<b>5</b> 7	Procurement of Electrical Components		Procurement of Electrical Company of s
<b>5</b> 8	Procurement of Cantry fabrications 1		Procurement of Gantry fabrications 1
	Procurement of Gantry Fabrications 2		Procurement of Gantry Landau Stations 2
<b>5</b> 9			
<b>6</b> 0	Procure balance of BOM		Product ance of BOM
<b>8</b> 9	Procurement and Delivery Complete (MS B.4 27,		
	4.1.1.3.3.1.2 Local contract commencement v		▼ 14 N54 SIA, HT /2014/04.1.1. ▼ 09-NGV=161, HT /2014/04.1.1.3
	4/04.1.1.3.3.1.2.1.2.1 Procurement of uniform		<ul> <li>O9-Nov-72,4 HY2CI 4/04.1.1.3</li> <li>◆ Approval for uniform design / O-Ja-15 A</li> </ul>
	Approval for uniform design		e e terretter en se
	Procurement of uniforms		· · · · · · · · · · · · · · · · · · ·
9	Issue uniform to staff		
	4/04.1.1.3.3.1.2.1.2.2 Procurement of car		₩₩ 14 N5₩ 5, H 721 4/04.1.1.
	Approval for car specificications		App ovat or ar specificications
<b>1</b> 2	lead time for car preperation		
	Delivery of car		└╾┥ Ďe ive <del>xy</del> Ci ar
	4/04.1.1.3.3.1.2.1.2.3 Procurement of Documer		▼ 31-C ct <mark>164,</mark> 1Y/2014/04.1.1.3.
<b>—</b> 15	Approval for specifications of Document Manage		Approval for specifications of Document I
<b>—</b> 16	Procurement and delivery		Procuremen and celivery
<b>—</b> 17	Scope Document management System		Scope Do un ent management
	4/04.1.1.3.3.1.2.1.2.4 WA 4 Activities		✓ 22-Oc - 16 7. + 7/2(14,0)4.1.1.3.3. Site Survey With Cont action: W/4 celiverables
	Site Survey With Contractor for WA4 deliverables		
📄 20	Submission and approval of method statement		Submission and approva of method statement
<b>—</b> 21	Application for permit from Environemental Prote		Application for permitinent Environmental P
22	Procurement and delivery of WA4 Fencing		Procurement and delivery of VA: Fencing
23	Install WA4 Fencing		Install WA4 Fer cing
	Procurement activity for WA4 Concrete/Tarmac		Procurement activity of WA-Concrete/Tar
	Lay WA4 Concrete/Tarmac		Lay WA4 Concrete Tarmac

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-	ao Bridge Gantry Type X-Ray Vehicle Inspection System	Classic Schedule Layout	18-Jan-1
	Activity Name	2016	2017 2018
		ec Jan F Mar Apr M Jun Jul Aug S	
	Commencement of WA4 Weekly checks and ma		Commen and A for VA Weekly checks and maintainance, 17-Oct-16 A
	04.1.1.3.3.1.3.3.9 X-ray System Equipment		
	4/04.1.1.3.3.1.3.3.9.1.3.3.9.1 Manufacturing for		19-Feb-17, HY/2014/04.1.1.3.3.1.3.3.9.1.3.3.9.1 Manufacturing for X-ray Sys
	Regular Site & Facility Inspection for Gantry Insta		Regula Site & Facility Inspection for Gantry Installation preparation
<b>=</b> 64	Submission of samples		<b>If the state of samples</b>
<b>—</b> 65	Approval of samples		: : : · · · · · · · · · · · · · · · · ·
	Manufacturing, software design, coding and testing		An facturing, software design, coding and testing
	4/04.1.1.3.3.1.3.3.9.1.3.3.9.2 Factory Acceptan		▼ 4-Feb-17, HY2014/04.1.1.3.3.1.3.3.9.1.3.3.9.2 Factory Acceptance Tests
68	Assemble and Test System (Pre-FAT)	· · · · · · · · · · · · · · · · · · ·	► <b>France State</b> (Pre-FAT)
<b>—</b> 69	Submission of FAT Plan		
<b>—</b> 69.5	Approval of FAT Plan		
<b>—</b> 70	FAT at Stoke		AT at Stoke
<b>—</b> 71	Submission of complete set of sample and asso		But -1 But mission of complete set of sample and associated supporting structure
<b>—</b> 72	Submission of radiation source with protective er		utmission of adiation source with protective enclosure to Government
	Submission and acceptance of FAT Report		Butmission and acceptance of FAT Report
	FAT Complete (MS B.3, C.3 - 7 Dec 16)		A Complete MS B.3, C.3 - 7 Dec 16),
	4/04.1.1.3.3.1.3.3.9.1.3.3.9.3 Delivery of X-ray S		-17, HY/2014/04.1.1.3.3.1.3.3.9.1.3.3.9.3 Delivery of X-ray
	Application for export permit		□ → oplication for export permit
	Arrange shipping, Packing		Arrange shipping, Packing
<b>7</b> 8	Shipping (via sea) and import clearance declaration		Shipping (via sea) and import clearance declaration
	Submission of List of Hazardous Materials		Submission of List of Hazardous Materials
<b>—</b> 79			
<b>8</b> 0	Delivery/Arrival of accessories (rail, intercom,PA,		Delivery/Arrival of accessories (rail, intercom,PA, Speakers,CCTV,power and
	Delivery of Gantry Type X-Ray Vehicle Inspectior		Delive y of Gantry Type X-Ray Vehicle Inspection System Complet
	4.1.1.3.3.1.3.3.10 Radiation Shielding Doors a		■ • • • • • • • • • • • • • • • • • • •
	Subission of proposed RSE		ion of proposed R SI
<b>8</b> 4	Structural calculation of sliding doors for submist		Structura catching of sluing doors for submission to TPIDC for approval
<b>8</b> 5	Approval by the Engineer and TPIDC	· · · · · · · · · · · · · · · · · · ·	
<b>8</b> 6	Manufacturing of Doors		acting of Doors
<b>8</b> 7	Delivery of Radiation Shielding Doors to HK site		line in the second state of Radiation Shielding Doors to HK site
88 🔲	Delivery of other Auxiliary Systems and Equipmer		Line Auxiliary Systems and Equipment to HK site
<b>—</b> A1000	Complete delivery of Radiation Shielding Doors to		Complete delivery of Radiation Shielding Doors to HK site,
HY/2014/04	.1.1.3.6 Section I - Gantry Type X-ray Vehic		30-Jun-17, HY/2014/04.1.1.3.6 Section I - Gantry Type
212	Software Setup & Integration and Imaging Tests		So tware Setup & Integration and Imaging Tests
	Construction Works - Section I Complete		Construction Works - Section I Complete, 16-May-17
	4.1.1.3.6.1.3.8.1 Inbound Cargo Examination I		<b>VII</b> 30-Jun-17, HY/2014/04.1.1.3.6.1.3.8.1 Inbound Cargo
	Cabling and cable containment		Cabling and cable containment
<b>—</b> 316	Installation of X-ray System Image Analysis Work		- Internet allation of X-ray System Image Analysis Workstations, UPS for wo
<b>3</b> 17	Temporary Installation of X-ray System Image An		- I Tempora y Installation of X-ray System Image Analysis Workstations,
	Dismantle of the temporary setup of System Image		Dismantle of the temporary setup of System Image Ana
	4.1.1.3.6.1.3.6.1 Scan Tunnel		• • • • • • • • • • • • • • • • • • •
	Cabling and cable containment		Caving and cable containment
	Scan Tunnel Installation Complete		🗰 🚺 🔸 Scen Tunnel Installation Complete, 09-May-17
	4/04.1.1.3.6.1.3.6.1.1.3.6.1.2 Installation of X-ra		•••••••••••••••••••••••••••••••••••••
	Install Gantry rails		
			nsall Gantry nails
	Linear Accelerator Pod and Modular Pod		Linea Accelerator Pod and Modular Pod
			Verital Boom Wheel Set and Vertical Boom
	Horizontal Boom		
	Radioactivity threat detection system		Radioactivity threat detection system
	4/04.1.1.3.6.1.3.6.1.1.3.6.1.3 Radiation Shieldin		27-Mar-17, HY/2014/04.1.1.3.6.1.3.6.1.3. Radiation Shielding S
124	Unloading and storage of of Materials on site		In pading and storage of of Materials on site
<b>—</b> 125	Installation of brackets and Hilti bolts		nstalation of brackets and Hilti bolts
126	Installation of beam		hstalation of beam
		Page 3 of 8	TASK filter: All Activities
ctual Level of	f Effort		

Activity Name	Classic Schedule Layout         18-Jan-17 10           2016         2017         2018
	ec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul
127 Installation of door box	
128 Testing & commissioning	I Testing 8 commissioning
HY/2014/04.1.1.3.6.1.3.6.1.1.3.6.1.4 Installation of oth	<b>1</b> 2-Api-17, HY/2014/04.1.1.3.6.1.3.6.1.1.3.6.1.4 Installation of other Aux
130 PTZ CCTV camera (indoor type)	PTZ CCTV camera (indoor type)
131 PTZ CCTV camera (outdoor type)	PTZ CCT/ camera (outdoor type)
132 Humidity Sensor	🗧 📔 Humidity <mark>B</mark> ensor
133 CCTV Control System	CCTV Centrol System
134 Drop arm barrier, stop/go light and connection to	Drop ar barrier, stop/go light and connection to x-ray control system
135 Perimeter Alarm System and connection to the x-	Perimeter Alarm System and connection to the x-ray control system
136 Infra-red over-height detection portal and connec	Infra-red over-height detection portal and connection to x-ray control sy
137 Control, monitoring and alarms of infra-red over-I	Control monitoring and alarms of infra-red over-height detection system
138 Personal X-ray Dosimeter	Personal X-ray Dosimeter
139 UPS for workstations, equipment and system	UPS for workstations, equipment and system
HY/2014/04.1.1.3.6.1.3.6.2 X-ray Building	24-A <mark>0</mark> -17, HY/2014/04.1.1:3.6.1.3.6.2 X+ray Building
211 X-ray Building Installation Complete	X-ray Building Installation Complete, 24-Apr-17
HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.1 Cabling and cable	02-Teb 17, HY/20, 4/04.1.1.3.6.1.3.6.2.1.3.6.2.1 Cabling and cable containment
143 Entry Kiosk	
144 Control Room	The second se
145 Exit Kiosk	Exit Kiose
146 Image Interpretation Room	<b>Hermale Interpretation</b> Room
147 X-ray Examination System Operation Room	X-ray Examination Bystem Operation Room
148 Driver's Waiting Room	Driver's Waiting Room
149 Training Room	
150 Cabling and cable containment complete	Calling and cable containment complete, 02-Feb-17
HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2 Equipment Install: HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.1 Entry	21-Ac - 17, HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1 Equipment Installati
A 172014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.1 Entry	T X-ray System Image Analysis Workstation
CCTV System	
Intercom System	Intercom System
Public Address System	Public Address System
Perimeter Alarm System	Perina ter Alarm System
Adiation Monitoring and Alarm System	Radiat on Monitoring and Alarm System
Ver Height Detection System alarm	Over eleght Detection System alarm
Crop Arm Barrirer controller	
Adjustion shielding sliding door controller	Radiat on shielding sliding door controller
<ul> <li>UPS for workstations, equipment and system</li> </ul>	UPS for workstations, equipment and system
Speaker	₩ Speaker
HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.2 Cont	▼ 21-Ag - 17, HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.2 Control I
Video Wall (4nos. 55" LED)	Video Wall (4nos. 55" LED)
UPS for workstations, equipment and system	UPS to r workstations, equipment and system
CCTV System	
Yublic Address System	Public Address System
· Intercom System	Intercom System
Addition Monitoring and Alarm System	Radiation Monitoring and Alarm System
restance in the ing and its in the ing and its in	Perine ter Alarm system
Your of the second of the	Wall-n ounted Display Unit of Humidity Sensor
Over Height Detection System alarm	Over leight Detection System alarm
Crop Arm Barrier controller	Drop. rm Barrier controller
realization shielding sliding door controller	Radiation shielding sliding door controller
	X-ray System Control Workstation
Scanner / Scanner	

Activity Name  Activity Name  HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.3 E  HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1 E  Activity Name  X-ray System  X-ray System Image Analysis Workstation  X-ray System Image Analysis Workstation  X-ray System Image Analysis Workstation  CCTV System  CCTV System  VPS for workstations, equipment and system  VPS for workstations, equipment and system	it /	2016       2017       2018         ac       Jan       F       Mar       Apr       M       Jun       Jul       Aug       S       Oct       N       Dec       Jan       F       Mar       Apr       M       Jun       Jun
HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.3       E         Intercom System       Intercom System         Yame       Radiation Monitoring and Alarm System         Yame       X-ray System Image Analysis Workstation         Yame       Radiation shielding sliding door controller         Yame       CCTV System         Yame       Public Address System	it P	
<ul> <li>Intercom System</li> <li>Radiation Monitoring and Alarm System</li> <li>X-ray System Image Analysis Workstation</li> <li>Radiation shielding sliding door controller</li> <li>CCTV System</li> <li>Public Address System</li> </ul>	it F	
<ul> <li>Radiation Monitoring and Alarm System</li> <li>X-ray System Image Analysis Workstation</li> <li>Radiation shielding sliding door controller</li> <li>CCTV System</li> <li>Public Address System</li> </ul>		▼ 21-A <mark>:</mark> -17, HY/2014/04.1.1.3.6.1.3.6.2.2.1.3.6.2.2.3 Exit H
<ul> <li>X-ray System Image Analysis Workstation</li> <li>Radiation shielding sliding door controller</li> <li>CCTV System</li> <li>Public Address System</li> </ul>		Inter <del>cu</del> m System
<ul> <li>Radiation shielding sliding door controller</li> <li>CCTV System</li> <li>Public Address System</li> </ul>		Radiation Monitoring and Alarm System
CCTV System  CUDIc Address System		X-ray System Image Analysis Workstation
Yublic Address System		Radiat on shielding sliding door controller
		CCT <mark>V</mark> System
UPS for workstations, equipment and syster		Public Address System
		UPS <b>to</b> r workstations, equipment and system
HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.4	ag	21-Ac - 17, HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.4 Imag
Intercom System		Intercon m System
Radiation Monitoring and Alarm System		Radiation Monitoring and Alarm System
X-ray System Image Analysis Workstation		X-ray System Image Analysis Workstation
Printer		
<ul> <li>UPS for workstations, equipment and system</li> </ul>		UPS for workstations, equipment and system
HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.5 >		▼ 21-Ac - 17, HY/2014/04.1.1.3.6.1.3.6.2.2.1.3.6.2.2.5 X-rav
<ul> <li>Firizo 14/04.1.1.3.0.1.3.0.2.1.3.0.2.2.1.3.0.2.2.1.3.0.2.2.3</li> <li>Server</li> </ul>		
Server rack		
		UPS for workstations, equipment and system
UPS for workstations, equipment and system		
HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.6		▼ 21-Ac -17, HY/2014/04.1.1.3.6.1.3.6.2.2.1.3.6.2.2.6 Drive
CCTV System		Intercom System
Intercom System		
Adiation Monitoring and Alarm System		Radiat on Monitoring and Alarm System
2 Speaker		Speaker:
UPS for workstations, equipment and system		UPS to r workstations, equipment and system
HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.7 T	aini	▼ 28 reb 17, HV/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.1.3.6.2.2.7 Training roor
Projector screen (Screen size 106")		Projector screen size 106")
Ceilling mounted projector		Cei ng mounted projector
X-ray System Training Workstation		State of the second s
Cadiation Monitoring and Alarm System		Rad ation Montoring and Alarm System
UPS for workstations, equipment and system		UFS for works ations, equipment and system
📑 🏅 Training aids		Traning aids
Drinter		Priner
014/04.1.1.3.7 Section II - Gantry Type X-ray	ehi -	Ty 17 May-17, HY/2014/04.1.1.3.7 Section II - Gantry Type X-ra
1 Software Setup & Integration and Imaging Te		So tware Setup & Integration and Imaging Tests
2 Construction Works - Section II Complete		Construction Works - Section II Complete, 17-May-17
/2014/04.1.1.3.7.1.3.7.1 Scan Tunnel		10 May-17, HY/2014/04.1.1.3.7.1.3.7.1 Scan Tunnel
216 Cabling and cable containment		Cabing and cable containment
9 Scan Tunnel Installation Complete		Son Tunnel Installation Complete, 10-May-17
Y/2014/04.1.1.3.7.1.3.7.1.1.3.7.1.2 Installation of		● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●
218 Gantry rails		Gantry rails
219 Linear Accelerator Pod and Modular Pod		Line: r Accelerator Pod and Modular Pod
220 Vertical Boom Wheel Set and Vertical Boom		Vertical Boom Wheel Set and Vertical Boom
221 Horizontal Boom		
222 Radioactivity threat detection system	-	Racioactivity threat detection system
HY/2014/04.1.1.3.7.1.3.7.1.1.3.7.1.3 Radiation Shi		The stallation of brackets and Hilti bolts
225 Installation of beam		Installation of beam
226 Installation of door box		Installation of door box
227 Testing & commissioning		Testing & commissioning
IY/2014/04.1.1.3.7.1.3.7.1.1.3.7.1.4 Installation of	<mark>\ux</mark>	09 <mark>1</mark> /ay-17, HY/2014/04.1.1.3.7.1.3.7.1.4 Installation o
229 PTZ CCTV camera (indoor type)		TTZ CCTV camera (indoor type)

y ID		to Bridge Gantry Type X-Ray Vehicle Inspection System Activity Name	Classic Schedule Layout         18-Jan-17           2016         2017         2018
			ec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul
	<b>a</b> 230	PTZ CCTV camera (outdoor type)	PTZ CTV camera (outdoor type)
	231	Humidity Sensor	Hum <mark>ci</mark> ty Sé <mark>ns</mark> or
	<b>a</b> 232	CCTV Control System	CCTV Control System
	<b>a</b> 233	Drop arm barrier, stop/go light and connection to	Diep arm parrier, stop/go light and connection to x-ray control system
		Perimeter Alarm System and connection to the x-	Perimener Alarm System and connection to the x-ray control system
		Infra-red over-height detection portal and connec	Infrared over-height detection portal and connection to x-ray control
		Control, monitoring and alarms of infra-red over-l	Control, monitoring and alarms of infra-red over-height detection sys
		Personal X-ray Dosimeter	Personal X-ray Dosimeter
		UPS for workstations, equipment and system	UPS for workstations, equipment and system
		4.1.1.3.7.1.3.7.2 X-ray Building	▼
		X-ray Building Installation Complete	X-ra, Building Installation Complete, 25-Apr-17
		4/04.1.1.3.7.1.3.7.2.1.3.7.2.1 Cabling and cable	17-Feb-17, HY2014/04.1.1.3.7.1.3.7.2.1.3.7.2.1 Cabling and cable containme
		Cabling and cable containment - Entry Kiosk	Cabling and cable containment - Entry Kiosk
		Cabling and cable containment - Control Room	Cabling and cable containment - Control Room
		Cabling and cable containment - Exit Kiosk	Cabing and cabie containment - Exit Kiosk
		Cabling and cable containment - Image Interpret	Cabing and cable containment - Image Interpretation Room
		Cabling and cable containment - X-ray Examinati	Gabirg and cape containment - X-ray Examination System Operation Room
		Cabling and cable containment - Driver's Waiting	Cabirg and cape containment - Driver's Waiting Room
		Cabling and cable containment - Training Room	• Cabling and came containment - Training Room
			Cabing and care containment - maining (cont
		Cabling and cable containment complete	
		4/04.1.1.3.7.1.3.7.2.1.3.7.2.2 Equipment Install: 014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.1 Entry	V ■ 24-Apr-17, HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2 Equipment Installat V 31-Mar-17, HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1 Entry Kiosl
		X-ray System Image Analysis Workstation	X-ray System Image Analysis Workstation
		CCTV System	CCTV Suitem
		Intercom System	
		Public Address System	Public Address System
		Perimeter Alarm System	Perimete Alarm System
		Radiation Monitoring and Alarm System	Radiation Monitoring and Alarm System
		Over Height Detection System alarm	►I Over Height Detection System alarm
		Drop Arm Barrirer controller	Drop Arm Barrirer controller
	🔲 í	Radiation shielding sliding door controller	Radiation shielding sliding door controller
	2	UPS for workstations, equipment and system	UPS for workstations, equipment and system
	🔲 🗐 🕹	Speaker	tan an a
		014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.2 Cont	03-Apr-17, HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.2 Control Ro
		Video Wall (4nos. 55" LED)	Video Wall (4nos. 55" LED)
	🔲 🗐 🕹	UPS for workstations, equipment and system	UPS for workstations, equipment and system
	🔲 1	CCTV System	CCTV S <mark>I</mark> stem
	🔲 í	Public Address System	Public Address System
	🔲 🖬	Intercom System	Intercom System
	1	Radiation Monitoring and Alarm System	Radiation Monitoring and Alarm System
	🔲 í	Perimeter Alarm system	Perimetar Alarm system
	🔲 í	Wall-mounted Display Unit of Humidity Sensor	₩all-mounted Display Unit of Humidity Sensor
	i 🗐	Over Height Detection System alarm	Over Height Detection System alarm
		Drop Arm Barrier controller	Dop Arr Barrier controller
		Radiation shielding sliding door controller	Radiation shielding sliding door controller
		X-ray System Control Workstation	X-ray System Control Workstation
		Scanner	→ T Scanner
		Printer	
		014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.3 Exit	<b>V</b> 03-Apr-17, HY/2014/04.1,1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.3 Exit Kiosk
		Intercom System	••• •• •• ••• ••• ••• ••• ••• ••• •••
		Radiation Monitoring and Alarm System	Radiaticr Monitoring and Alarm System
	4		
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	Actual Level of	f Effort	Page 6 of 8 TASK filter: All Activities

g-Zhuhai-Macao Bridge Gantry Type X-Ray Vehicle Inspection System Activity Name	Classic Schedule Layout 2016	18-Jan-17 1 2017 2018
		Oct N Dec Jan F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul
📄 💈 X-ray System Image Analysis Workstation		X-ray System Image Analysis Workstation
a Radiation shielding sliding door controller		Radiation shielding sliding door controller
CCTV System		CCTV Sistem
🔲 💈 Public Address System		Public Address System
UPS for workstations, equipment and system		UPS for workstations, equipment and system
HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.4 Imag		24-Ap-17, HY/2014/04.1.1;3.7.1.3.7;2.1.3.7.2.2.1.3.7.2.2.4 Image In
🔲 1 Intercom System		🗧 🔄 👘 📕 Inter om System
Radiation Monitoring and Alarm System		Radia ion Monitoring and Alarm System
X-ray System Image Analysis Workstation		X-ray system Image Analysis Workstation
□ 1 Printer		Printer
<ul> <li>UPS for workstations, equipment and system</li> </ul>		UPS for workstations, equipment and system
HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.5 X-ray		▼ 27-Mar-17, HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.5 X-ray Exami
□ 1 Server		• Selver
i Server rack		► Selver rack
		UPS for workstations, equipment and system
UPS for workstations, equipment and system		▼ 03-Apr-17, HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.6 Driver's Wa
HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.6 Drive		CCTV Sistem
CCTV System		CLIV Sistem →■ Intercom System
intercom System		
Radiation Monitoring and Alarm System		Radiation Monitoring and Alarm System
🚍 🤇 Speaker		
UPS for workstations, equipment and system		↓ UPS for workstations, equipment and system
HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.7 Train		<b>3</b> -Apr- <b>17</b> , HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.7 Training roo
🔲 🕻 Projector screen (Screen size 106")		➡1 Projectors creen (Screen size 106")
Ceilling mounted projector		I Celling mounted projector
😑 🗧 🗧 X-ray System Training Workstation		🕂 🕂 X-ray System Training Workstation
Cadiation Monitoring and Alarm System		Radiation Monitoring and Alarm System
UPS for workstations, equipment and system		UPS for workstations, equipment and system
👝 🗧 Training aids		I Training a ds
C Printer		
TY/2014/04.1.1.3.8 Section III - Cargo Examination Bu		04-Jul-17, HY/2014/04.1.1.3.8 Section III - Cargo Examin
322 Construction Works - Section III Complete		Construction Works - Section III Complete,
HY/2014/04.1.1.3.8.1.3.8.2 Outbound Cargo Examination		04-Jul-17, HY/2014/04.1.1.3.8;1.3.8.2 Outbound Cargo E
320 Cabling and cable containment		Cabling and cable containment
321 Installation of X-ray System Image Analysis Work		Installation of X-ray System Image Analysis Workstations,
HY/2014/04.1.1.3.9 On-Site Testing & Commissioning		
		Operability Test
		na na na 🚺 📔 na 👘 na 🖡 na 📔 na 📻 na
336 T&C Complete and Issurance of Certificate of Ac		T&C Complete and Issurance of Certificate of Accept
345 Contruction Works Complete		Contruction Works Complete, 05-Sep-17
HY/2014/04.1.1.3.9.1.3.10 Defect Liability Period for Con		
359 Defect Liability Period		
360 Submission of Warranty Completion Test Plan		Submission of Warranty Completion Test Plan
361 Warranty Completion Test		
362         DLP Complete and issuance of Defect Laibility C		
Gommencement of Maintenance Services		
HY/2014/04.1.1.3.9.1.3.9.1 Integration Test		<b>16</b> Jun 17, HY/2014/04,1.1.3.9.1,3.9.1 Integration Test
325 Submission of Integration Test Plan		Submission of Integration Test Plan
326 Integration Test		► I ← m egration Test
327 Preparation, submission and acceptance of Integ		Preparation, submission and acceptance of Integration Test
327.5 Complete Inegration Test (MS B.5 - 3 Mar 17)		Gomplete Iregration Test (MS B.5 - 3 Mar 17),
HY/2014/04.1.1.3.9.1.3.9.2 Site Acceptance Test		
329 Submission of SAT Plan		● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●
Actual Level of Effort Remaining Work	Page 7 of 8	TASK filter: All Activities
ctual Work		© Oracle Corpo

Kong-Zhuhai-Macao Bridge Gantry Type X-Ray Vehicle Inspection System	Classic Schedule Layout	
ID Activity Name	2016 C Jan F Mar Apr M Jun Jul Aug S Oct N	Dec Jan F
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331 Submission of complete set of sample and assoc		, sub
331 Submission of complete set of sample and assot     332 Submission of radiation source with protective er		Sub
333       SAT carried out by an Independent Competent A         334       Preparation, submission and acceptance of SAT		
		<mark></mark>
HY/2014/04.1.1.3.9.1.3.9.5 Training 338 Submission of Training Syllabus for approval		
340 Operator Training		
341 Trainer training		
342 Preventive maintenance training		
343 Comprehensive maintenance training		
344 Training Complete		
HY/2014/04.1.1.3.9.1.3.9.7 Other Documentation		
347 Submission of WR1/WR1 (A) for all electrical ins		
348 Submission of draft O&M Manuals, Driver's Han		<b>└</b> ►[
349 Submission of finalized O&M Manuals, Driver's H		
350 Submission of CD-ROM/DVD-ROM of O&M Mar		
351 Submission of As-built Drawings		
352 Submission of Spare Parts and Special Tools Re		
353 Submission of Operator's Operating Instructions		
354 Submission of System Operation Instructions		
355 Submission of Software Manuals and Instruction		
356 Submission of Equipment and Hardware Mainter		
357 Submission of Software License Installation Disk		

Actual Level of Effort Remaining Work	♦ ♦ Milestone	Page 8 of 8	TASK filter: All Activities
Actual Work Critical Remaining Work	summary		

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## **APPENDIX D**

**Event and Action Plan** 



## Event/Action Plan for Air Quality

EVENT		ACTIO	ON	
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>
2. Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurement s to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial to ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>

	EVENT	ACTION			
		ET	IEC	ER	CONTRACTOR
LI	MIT LEVEL				
1.	Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>
2.	Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>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.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>

EVENT		ACTION		
	ET	IEC	ER	CONTRACTOR
	<ol> <li>Notify IEC and Contractor;</li> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss with the Contractor and formulate remedial measures;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>		notification of failure in writing; 2. Notify Contractor;	<ol> <li>Submit noise mitigation proposals to IEC;</li> <li>Implement noise mitigation proposals.</li> </ol>
Limit Level	<ol> <li>Inform IEC, ER, EPD and Contractor;</li> <li>Identify source;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Inform IEC, ER and EPD the causes and actions taken for the exceedances;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>Ensure remedial measures properly implemented;</li> <li>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.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>



# **APPENDIX E**

Waste Flow Table



Name of Department: Highways Department

#### Contract No.: <u>HY/2014/05</u>



#### Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly b. Hard e. k. Others. d. Reused a.Total Rock h. Paper / c. Reused Disposed i. Plastics f. Imported Chemical Quantity and Large in a. Metals Cardboard e.g. in the Month as Public (see Note 3) Other Fill (see Note 5) Waste Packaging general Generated Broken (see Note 5) Contract Fill **Projects** (see Note 8) (see Note 5) refuse Concrete (see Note 10) (see Note 9) (in '000m<sup>3</sup>) (in '000m<sup>3</sup>) (in '000m<sup>3</sup>) (in '000m<sup>3</sup>) (in '000m<sup>3</sup>) (in '000m<sup>3</sup>) (in '000kg) (in '000kg) (in '000kg) (in '000kg) (in '000kg) 1.390 0.010 1.380 0.000 0.010 0.000 0.000 0.000 0.000 0.000 0.197 January February 1.070 0.003 1.067 0.000 0.003 0.000 0.000 0.000 0.000 0.000 0.143 0.266 0.064 0.000 0.202 0.000 0.269 March 0.202 0.000 5.840 0.000 0.000 0.249 0.013 0.236 0.000 0.000 0.000 0.220 April 0.000 0.013 0.000 0.000 0.132 0.132 Mav 0.132 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.421 0.000 0.392 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 June 0.360 3.107 2.747 0.000 0.000 5.840 0.000 0.000 0.000 1.642 Sub-total 0.360 July 0.076 0.007 0.069 0.000 0.007 0.000 0.000 0.000 0.000 0.000 0.403 0.010 0.010 0.000 0.000 0.010 0.000 0.000 0.000 0.000 0.000 0.405 August September 0.071 0.071 0.000 0.000 0.071 0.000 0.000 0.000 0.000 0.000 0.465 October 0.025 0.000 0.166 0.141 0.141 0.416 0.000 0.000 0.000 0.000 0.448 0.260 0.000 0.000 0.000 0.000 0.000 November 0.425 0.165 0.165 0.000 0.427 December 0.543 0.543 0.000 0.000 0.543 0.000 0.000 0.000 0.000 0.000 0.319 4.398 1.297 3.101 0.000 1.297 0.416 5.840 0.000 0.000 Total 0.000 4.109

Total C&D waste generated = a+b+f+g+h+i+j+k

Total C&D waste generated (excluded excavated material) = g+h+i+j+k

Total C&D waste recycled = c+d+g+h+i

% of recycled C&D waste = (Total C&D waste generated - Total C&D waste recycled) / Total C&D waste generated

Monthly Summary Waste Flow Table for 2016 - Rev.00 - 22/01/2016

#### Monthly Summary Waste Flow Table for 2017

page 1

- Notes: (1) The performance target are given in PS Clause 6(14)
  - (2) The waste flow table shall also include C&D materials that are not specified in the Contract to be imported for use at the Site
  - (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
  - (4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m3.
  - (5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.
  - (6) Conversion factors for reporting purpose:
    - in-situ: rock = 2.5 tonnes/m<sup>3</sup>; soil = 2.0 tonnes/m<sup>3</sup>
    - excavated: rock = 2.0 tonnes/m<sup>3</sup>; soil = 1.8 tonnes/m<sup>3</sup>; broken concrete and bitumen = 2.4 tonnes/m<sup>3</sup>
    - C&D Waste = 0.9 tonnes/m<sup>3</sup>; bentonite slurry = 2.8 tonnes/m<sup>3</sup>
  - (7) Numbers are rounded off to the nearest three decimal places
  - (8) The "Total Quantity Generated" equals to the sum of "Reuse in the Contract", "Reuse in Other Projects" and "Disposed as Public Fill"
  - (9) The "Hard Rock and Large Broken Concrete" were disposed as public fill
  - (10) The amount in "Disposed as Public Fill" included the "Hard Rock and Large Broken Concrete" disposed as public fill

Monthly Summary Waste Flow Table for 2016 - Rev.00 - 22/01/2016

page 2



## Monthly Summary Waste Flow Table for 2017

			&D Waste c (in tonnes) (	-			<b>disp</b> 非墮性	C&D Waste osal 生廢物 nnes)		Waste t	o be recycle	d and returr	ned / 可再循	環利用或回	收的廢物			
Month	. –	kage ckfilling) 仒工程	Reused in other Projects 再用於其他工程		Inert Waste (e.g. soil, broken concrete, rubble, fill material etc.) 墮性廢物 (如泥, 石矢頭, 石, 填料等)		(e.g. gene broken for 其	ners eral refuse, mwork etc) 他 廢板枋等)	Me 金	tals 屬		stic I膠	Paper/cardboard packaging 廢紙/包裝紙類		Chemical Waste 化學廢物		Total Quantity Generated 總生產量	
	(t	<b>)</b>	(0	;)	(0	(k	(	e)	(in to	nnes)	(in to	nnes)	(in to	onnes)	(in l	litre)	(a)= (b-	+c+d+e)
	Est. Qty. 估計數量	Act. Qty. 實際數量	<b>Est. Qty.</b> 估計數量	Act. Qty. 實際數量	<b>Est. Qty.</b> 估計數量	Act. Qty. 實際數量	<b>Est. Qty.</b> 估計數量	Act. Qty. 實際數量	<b>Est. Qty.</b> 估計數量	Act. Qty. 實際數量	<b>Est. Qty.</b> 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量
January	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.000	0.000
February	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.000	0.000
March	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
April	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
Мау	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005
June	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
July	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
August	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
September	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
October	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020
November	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020
December	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.055	0.025	0.025	0.000	0.000	0.004	0.004	0.000	0.000	0.055	0.055

(1) The quantitles of C&D Materials, in tonne, was calculated by multiply the estimated volume, in m3, with the density of the soil, which is 1.5 gcm-<sup>3</sup>. Notes:

Ver: 1st Date: Jan 2017



Gantry Type X-ray Vehicle Inspection System

### Highways Department Monthly Summary of Waste Flow Table in 2017

	Actua	· ·	of Inert C&D	Materials G	enerated / In	nported	Actual Quantities of Other C&D Materials / Wastes Generated					
	Total	Rocks and	Reused in	Reused in	Disposed			Paper/Card-			Others. e.g.	
Month	Quantity	Large	the	other	as Public	Imported	Metals	board	Plastic	Chemical	general	
	Generated	Broken	Contract	Projects	Fill	Fill		packaging		Waste	refuse,	
	2	Conorata		U .	2	2					plastic	
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	$(in '000m^3)$	(in '000m <sup>3</sup> )	$(in '000m^3)$	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	
Jan-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Feb-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Mar-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Apr-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.6100	
May-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.8000	
Jun-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.0700	
Half-year												
total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.4800	
Jul-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14.3700	
Aug-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Sep-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.5100	
Oct-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.9400	
Nov-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.6300	
Dec-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Yearly Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	30.9300	



# **APPENDIX F**

**Environmental Licenses and Permits** 



Environmental License/ Permits /Notification Register

Contract No. HY/2014/05 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities

							Date: Decem	nber 2017	
ltem No.	Per	mit/License o Applica	r Registration ation	Permit/License/ Notification/	Permit/License/ Registration	lssue/Start Date	Expiry Date	Issuing Office	Remark
NO.	Work Area	Date	Reference	Registration Description	Number	Date	Date		
1	All Areas	30 Jun 2015	N/A	Environmental Permit to construct the Remaining Ancillary Buildings and Facilities and associated works of the Hong Kong Zhuhai and Macao Bridge Boundary Crossing Facilities	EP-353/2009/I	17 Jul 15	N/A	EPD	Superseded by EP-353/2009/J
2	All Areas	18 Feb 2016	N/A	Environmental Permit to construct the Remaining Ancillary Buildings and Facilities and associated works of the Hong Kong Zhuhai and Macao Bridge Boundary Crossing Facilities	EP-353/2009/J	25 Feb 2016	N/A	EPD	Superseded by EP-353/2009/K
3	All Areas	24 Mar 2016	N/A	Environmental Permit to construct the Remaining Ancillary Buildings and Facilities and associated works of the Hong Kong Zhuhai and Macao Bridge Boundary Crossing Facilities	EP-353/2009/K	11 Apr 2016	N/A	EPD	-
4	All Areas	30 Dec 15	N/A	Billing Account for disposal of construction waste	7024342	16 Feb 16	N/A	EPD	-

Environmental License/ Permits /Notification Register

Contract No. HY/2014/05 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities

							Date: Decem	iber 2017	_
Item	Per	mit/License c Applica	or Registration ation	Permit/License/ Notification/	Permit/License/ Registration	Issue/Start	Expiry	Issuing Office	Remark
No.	Work Area	Date	Reference	Registration Description	Number	Date	Date		
5	All Areas	30 Dec 15	RABF-LTR- EPD- 000001	<b>Notification</b> that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 397571	06 Jan 16	N/A	EPD	-
6	All Areas	04 Jan 16	RABF-LTR- EPD- 000002	<b><u>Registration</u></b> as Chemical Waste Producer for disposal of spent batteries, used Iubrication oil and surplus paint at RABF area	WPN 5213-951- L2846-02	19 Feb 16	N/A	EPD	-
7	All Areas	25 Jan 16	RABF-LTR- EPD- 000003	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0106-16	11 Feb 16	10 Aug 16	EPD	Superseded by GW-RS0476-16
8	All Areas	08 May 16	RABF-LTR- EPD- 000012	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Nondesignated area)	GW-RS0476-16	19 May 16	18 Nov 16	EPD	Superseded by GW-RS0666-16



LCAL H2642

Environmental License/ Permits /Notification Register

Contract No. HY/2014/05 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities

							Date: Decem	ber 2017	
Item	Per	mit/License c Applica	or Registration ation	Permit/License/ Notification/	Permit/License/ Registration	Issue/Start	Expiry	Issuing Office	Remark
No.	Work Area	Date	Reference	Registration Description	Number	Date	Date	-	
9	All Areas	16 Jun 16	RABF-LTR- EPD- 000015	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Nondesignated area)	GW-RS0666-16	04 Jul 16	03 Jan 17	EPD	Superseded by GW-RS0907-16
10	All Areas	18 Aug 16	RABF-LTR- EPD- 000018	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Nondesignated area)	GW-RS0907-16	01 Sep 16	28 Feb 17	EPD	Superseded by GW-RS1195-16
11	All Areas	16 Nov 16	RABF-LTR-EPD- 000020	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Nondesignated area)	GW-RS1195-16	30 Nov 16	29 May 17	EPD	Superseded by GW-RS1315-16
12	All Areas	08 Dec 16	RABF-LTR-EPD- 000023	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Nondesignated area)	GW-RS1315-16	22 Dec 16	21 Jun 17	EPD	Superseded by GW-RS0131-17



LCAL H2642

Environmental License/ Permits /Notification Register

Contract No. HY/2014/05 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities

				-			Date: Decem	1ber 2017	
ltem No.	Per Work	Applica		Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	lssue/Start Date	Expiry Date	Issuing Office	Remark
	Area	Date	Reference	Registration Description	Number				
13	WA3	13 Jan 17	RABF-LTR-EPD- 000026	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00. (Non-designated area)	GW-RS0070-17	27 Jan 17	26 Jul 17	EPD	Superseded by GW-RS0626-17
14	All areas	03 Feb 17	RABF-LTR-EPD- 000028	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0131-17	17 Feb 17	16 Aug 17	EPD	Superseded by GW-RS0306-17
15	All areas	20 Mar 17	RABF-LTR-EPD- 000035	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Nondesignated area)	GW-RS0306-17	05 Apr 17	02 Oct 17	EPD	Superseded by GW-RS0435-17
16	All areas	05 May 17	RABF-LTR-EPD- 000036	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Nondesignated area)	GW-RS0435-17	20 May 17	16 Nov 17	EPD	Superseded by GW-RS0710-17



Environmental License/ Permits /Notification Register

LCAL H2642

Contract No. HY/2014/05 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities

							Date: Decem	nber 2017	
Item	Permit/License or Registration Application			Permit/License/ Notification/	Permit/License/ Registration	Issue/Start	Expiry	Issuing Office	Remark
No.	Work Area	Date	Reference	Registration Description	Number	Date	Date		
17	WA3	28 Jun 17	RABF-LTR-EPD- 000041	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00. (Non-designated area)	GW-RS0626-17	27 Jul 17	26 Jan 18	EPD	-
18	All areas	03 Aug 17	RABF-LTR-EPD- 000042	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Nondesignated area)	GW-RS0710-17	21 Aug 17	16 Feb 18	EPD	-

### ATAL Technologies Limited

Environmental License/ Permits /Notification Register

#### Contract No. HY/2013/06 – Hong Kong Zhuhai and Macao Bridge - HKBCF – Automatic Vehicle Clearance Support System

	Date: 29 December 2017									
lte m	Permit/L	icense or Reg Application		Permit/License/ Notification/	Permit/License/ Registration	Issue/Start	Expiry	Issuing Office	Remark	
No.	Work Area	ea Date Refere		Registration Description	Number	Date	Date			
1	HZMB-HK Boundary Crossing Facilities	31 July 2015	WFG14980	Disposal of Construction Waste Billing Account	7023015	20 August 2015		EPD		
2	HZMB-HK Boundary Crossing Facilities	14 Nov 2017	EP831/N09/R S1037-17	Construction Noise Permit	GW-RS1037-17	1 Dec 2017	30 May 2018	EPD		



LCAL H2642

Rapiscan Systems Pte Ltd (RS)



Environmental License/ Permits /Notification Register

# Contract No. HY/2014/04 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities – Gantry Type X-ray Vehicle Inspection System

							Date: Dece	mber 2017	
ltem	Permit/License or Registration Application			Permit/License/ Notification/	Permit/License/ Registration	Issue/Start	Expiry	Issuing Office	Remark
No.	Work Area	Date	Reference	Registration Description	Number	Date	Date		
1	All Areas	23 Aug 2016	N/A	<b>Billing Account</b> for disposal of construction waste	7025930	20 Sep 2016	N/A	EPD	
2	Building 058,059	27 Jul 2017	N/A	Construction Noise Permit(CNP)	GW-RS0640-17	6 Aug 2017	4 Feb 2018	EPD	



# **APPENDIX G**

Implementation Schedule for Environmental Mitigation Measures (EMIS)



#### Contract No. HY/2014/05 – Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities

#### Implementation Schedule for Environmental Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Air Quality								
S5.5.6.1	A1	<ol> <li>The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation</li> </ol>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm <sup>-3</sup> and 260 µgm <sup>-3</sup> , respectively)	$\checkmark$
S5.5.6.2	A2	<ol> <li>Proper watering of exposed spoil should be undertaken throughout the construction phase:</li> <li>Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;</li> <li>Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> <li>A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones.</li> <li>The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;</li> <li>Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;</li> </ol>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm <sup>-3</sup> and 260 µgm <sup>-3</sup> , respectively)	V

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	for the measures to achieve?	Implementation Status
S5.5.6.2	A2	<ul> <li>When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;</li> <li>The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;</li> <li>Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;</li> <li>Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;</li> <li>Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding;</li> <li>Any skip hoist for material transport should be totally enclosed by impervious sheeting;</li> <li>Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;</li> </ul>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm <sup>-3</sup> and 260 µgm <sup>-3</sup> , respectively)	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?		Implementation Status
S5.5.6.2	A2	<ul> <li>Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;</li> <li>Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and</li> <li>Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.</li> </ul>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm <sup>-3</sup> and 260 µgm <sup>-3</sup> , respectively)	V
S5.5.6.4	A3	The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	Control construction dust	Contractor	All construction sites	Construction stage	To control the dust impact	N
S5.5.6.5	A4	Engineer to incorporate the controlled measures into the Particular Specification (PS) for the civil work. The PS should also draw the contractor's attention to the relevant latest Practice Notes issued by EPD.	Control construction dust	Engineer	All construction sites	Design Stage	Air Pollution Control (Construction Dust) Regulation	V
S5.5.6.5	A5	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period.	Contractor	Selected representative dust monitoring station	Construction stage	<ul> <li>Air Pollution Control (Construction Dust) Regulation</li> <li>To control the dust impact to within the HKAQO and TM-EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm<sup>-3</sup> and 260 µgm<sup>-3</sup>, respectively)</li> </ul>	√ (The dust monitoring at AMS6 under EM&A Programme for the Contract is covered by Contract No. HY/2011/03 while the dust monitoring at AMS7 under EM&A Programme for the Contract is covered by Contract No. HY/2013/01.)

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	measures?	What requirements or standards for the measures to achieve?	Implementation Status
S5.5.7.1	A6	<ul> <li>The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant:</li> <li>Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system;</li> <li>All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP;</li> <li>Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system;</li> <li>The materials which may generate airborne dusty emissions should be wetted by water spray system;</li> <li>All receiving hoppers should be enclosed on three sides up to 3m above unloading point;</li> <li>All conveyor transfer points should be totally enclosed;</li> <li>All access and route roads within the premises should be paved and wetted; and</li> <li>Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body.</li> </ul>	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period.	Contractor	Selected representative dust monitoring station	Construction stage	<ul> <li>Air Pollution Control (Construction Dust) Regulation</li> <li>To control the dust impact to within the HKAQO and TM-EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm<sup>-3</sup> and 260 µgm<sup>-3</sup>, respectively)</li> </ul>	N/A
S5.5.2.7	A7	<ul> <li>The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:</li> <li>All road surface within the barging facilities will be paved;</li> <li>Dust enclosures will be provided for the loading ramp;</li> <li>Vehicles will be required to pass through designated wheels wash facilities; and</li> <li>Continuous water spray at the loading points.</li> </ul>	Control construction dust	Contractor	All construction sites	Construction stage	Air Pollution Control (Construction Dust) Regulation	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Construct		(Air borne)						
S6.4.10	N1	<ol> <li>Use of good site practices to limit noise emissions by considering the following:         <ul> <li>only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;</li> <li>machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to aminimum;</li> <li>plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;</li> <li>silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;</li> <li>mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul> </li> </ol>	Control construction airborne noise by means of good site practices	Contractor	All construction sites	Construction stage	Noise Control Ordinance	
S6.4.11	N2	<ol> <li>Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.</li> </ol>	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites	Construction stage	Noise Control Ordinance     Annex 5, TM- EIA	N/A
\$6.4.12	N3	3) Install movable noise barriers (typically density @ 14kg/m <sup>2</sup> ), acoustic mat or full enclosure close to noisy plants including air compressor, generators, saw.	Screen the noisy plant items to be used at all construction sites	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	<ul> <li>Noise Control Ordinance</li> <li>Annex 5, TM- EIA</li> <li>75dB(A) for residential premises</li> <li>The movable barrier should achieve at least 5dB(A) and the full enclosure should be</li> </ul>	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
S6.4.13	N4	4) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	Reduce the noise levels of plant items	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	stage	<ul> <li>Noise Control Ordinance &amp; its TM</li> <li>Annex 5, TM- EIA</li> </ul>	V
S6.4.14	N5	5) Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	Noise Control Ordinance     Annex 5, TM- EIA	V
1	N6	6) Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected representative noise monitoring station	Construction stage	<ul> <li>Noise Control Ordinance</li> <li>Annex 5, TM- EIA</li> <li>75dB(A) for residential premises</li> </ul>	√ (The noise monitoring at NMS2 and NMS3B under EM&A programme for the Contract are covered by Contract No. HY/2013/01.)
Sediment	·			L	L		•	
S7.3	S1	<ol> <li>The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.</li> </ol>	Develop sediment disposal arrangement	Engineer	All construction sites	Design stage	Waste Disposal Ordinance     ETW B TC 34/2002	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Waste Man	agement (	Construction Waste)						
S8.3.8	WM1	<ul> <li>Construction and Demolition Material</li> <li>The following mitigation measures should be implemented in handling the waste:</li> <li>Maintain temporary stockpiles and reuse excavated fill material for backfilling andreinstatement;</li> <li>Carry out on-site sorting;</li> <li>Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;</li> <li>Adopt 'Selective Demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible;</li> <li>Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified; and</li> <li>Implement an enhanced Waste Management Plan similar to ETW BTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&amp;D materials and to minimize their generation during the course of construction.</li> <li>In addition, disposal of the C&amp;D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation.</li> </ul>	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETW BTC 19/2005	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
\$8.3.9- \$8.3.11	WM2	<ul> <li><u>C&amp;D Waste</u></li> <li>Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&amp;D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage.</li> <li>The Contractor should recycle as much of the C&amp;D materials as possible on-site. Public fill and C&amp;D waste should be segregated</li> </ul>	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	<ul> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TC 19/2005</li> </ul>	V
		and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.						
\$8.2.12- \$8.3.15	WM3	<ul> <li><u>Chemical Waste</u></li> <li>Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.</li> <li>Containers used for the storage of chemical wastes should 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 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation.</li> <li>The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in</li> </ul>	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	<ul> <li>Waste Disposal (Chemical Waste) General) Regulation</li> <li>Code of Practice on the Packaging, Labelling and Storage of Chemical Waste</li> </ul>	~
		that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated.						

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
		<ul> <li>Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD.</li> </ul>						V
S8.3.16	WM4	<ul> <li><u>Sewage</u></li> <li>Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state, which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly.</li> </ul>	Proper handling of sewage from worker to avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	Waste Disposal Ordinance	V
S8.3.17	WM5	<ul> <li>General Refuse</li> <li>General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.</li> <li>A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited bylaw.</li> <li>Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible.</li> <li>Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. In addition, waste separation facilities for paper, aluminum cans, plastic bottles etc., should be provided.</li> <li>Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes.</li> </ul>	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Water Qual	ity (Constr	uction Phase)						
Water Qual		<ul> <li>uction Phase)</li> <li>Land Works General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include: <ul> <li>wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters;</li> <li>sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the W PCO or collected for disposal offsite. The use of soakaways shall be avoided;</li> <li>storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks;</li> <li>silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm;</li> <li>temporary access roads should be surfaced with crushed stone or gravel;</li> <li>rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;</li> <li>measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system;</li> <li>open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms;</li> </ul> </li> </ul>	To control construction water quality	Contractor	Land-based works areas	Construction stage	TM-EIAO	
		<ul> <li>discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system;</li> </ul>						

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
S9.11.1.7	W2	<ul> <li>all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit;</li> <li>wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain;</li> <li>the section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel;</li> <li>wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects;</li> <li>vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal;</li> <li>the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately;</li> <li>waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance;</li> <li>all fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank; and</li> <li>surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.</li> </ul>	To control construction water quality	Contractor	Land-based works areas	Construction stage	TM-EIAO	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Ecology (C	onstructio	n Phase)						
S10.7	E4	<ul> <li>Watering to reduce dust generation; prevention of siltation freshwater habitats; Site runoff should be desilted, to redu the potential for suspended sediments, organics and oth contaminants to enter streams and standing freshwater</li> </ul>	ce Land-based works areas	Contractor	Land-based works areas	During construction	TM-Water	V
S10.7	E5	Good site practices, including strictly following the permitt works hours, using quieter machines where practicable, a avoiding excessive lightings during night time		Contractor	Land-based works areas	During construction		V
S10.7	E8	<ul> <li>Control vessel speed</li> <li>Skipper training</li> <li>Predefined and regular routes for working vessels; avoid Broth Islands.</li> </ul>	Minimise marine traffic disturbance on dolphins er	Contractor	Marine Traffic	During construction		N/A
Fisheries	1			1				1
S11.7	F4	<ul> <li>Maritime Oil Spill Response Plan (MOSRP);</li> <li>Contingency plan.</li> </ul>	Minimise impacts on marine water quality impacts	Marine Department	HKBCF	During operation		N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Landscape	& Visual (	Detailed Design Phase)						
S14.3.3.1	LV1	<ul> <li>General design measures include:</li> <li>Roadside planting and planting along the edge of the HKBCF Island is proposed;</li> <li>Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting;</li> <li>Protection measures for the trees to be retained during construction activities;</li> <li>Optimizing the sizes and spacing of the bridge columns; Finetuning the location of the bridge columns to avoid visually-sensitivelocations;</li> <li>Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed;</li> <li>Providing planting area around peripheral of HKBCF for tree planting screening effect;</li> <li>Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline;</li> <li>For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and</li> <li>Fine-tuning the sizes of the structural members to minimize the buildings disturbance to surrounding vegetation in the HKBCF.</li> </ul>	Minimise visual & landscape impact	Detailed designer	HKBCF	Design Stage		N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Landscape	& Visual (C	Construction Phase)						
S14.3.3.3	LV2	Mitigate both Landscape and Visual Impacts G1. Grass-hydroseed bare soil surface and stock pile areas.	Minimise visual & landscape impact	Contractor	Buildings 025, 044 and 032	Construction stage		√ Under construction
		<ul> <li>G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic. (This mitigation measure is not applicable to the Contract.)</li> <li>G3. Not applicable as this is for HKLR.</li> </ul>						
		<ul> <li>G4. For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF.</li> </ul>						
		<ul><li>G5. Vegetation reinstatement and upgrading to disturbed areas.</li><li>G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed.</li></ul>						
		G7. Providing planting area around peripheral of HKBCF for tree planting screening effect. (This mitigation measure is not applicable to the Contract.)						
		<ul> <li>G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall. (This mitigation measure is not applicable to the Contract.)</li> <li>G9. Reserve of loose natural granite rocks for re-use. Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enchance "natural-look" of the new coastline. (This mitigation measure is not applicable to the Contract.)</li> </ul>						
S14.3.3.3	LV3	Mitigate Visual Impacts           V1. Minimize time for construction activities during construction period.           V2. Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKBCF construction.						√ for V1. N/A for V2.

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
EM&A								
S15.2.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual.	Control EM&A Performance	Project Proponent	All construction sites		EIAO Guidance Note No.4/2002     TM-EIAO	V
S15.5 - S15.6	EM2	<ol> <li>An Environmental Team needs to be employed as per the EM&amp;A Manual.</li> <li>Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures.</li> <li>An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&amp;A Manual are fully complied with.</li> </ol>	Perform environmental monitoring & auditing	Contractor	All construction sites		EIAO Guidance Note No.4/2002     TM-EIAO	V

Legends:  $\sqrt{}$  = Implemented; X = Not implemented; N/A = Not applicable



# **APPENDIX H**

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions





#### Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

#### For Contract No. HY/2014/05

Reporting Period		Cumulative Statistics				
	Complaints	Notifications of Summons	Successful Prosecutions			
This reporting period	0	0	0			
From commencement date of contract to end of reporting month	6	0	0			

#### For Contract No. HY/2013/06 within Contract No. HY/2014/05 works area

Reporting Period	Cumulative Statistics					
	Complaints	Notifications of Summons	Successful Prosecutions			
This reporting period	0	0	0			
From commencement date of contract to end of reporting month	0	0	0			



#### For Contract No. HY/2014/04 within Contract No. HY/2014/05 works area

Reporting Period	Cumulative Statistics					
	Complaints	Notifications of Summons	Successful Prosecutions			
This reporting period	0	0	0			
From commencement date of contract to end of reporting month	0	0	0			





# **APPENDIX I**

Environmental Site Inspection Schedule



### Contract No. HY/2014/05 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities

	Monday	Tueday	Wednesday	Thursday	Friday	Saturday	Sunday
Time	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan
			Site Inspection				
Time	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan
				Site Inspection			
Time	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan
	Site Inspection						
Time	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan
	Site Inspection						
Time	29-Jan	30-Jan	31-Jan				
	Site Inspection						

#### Environmental Site Inspction Schedule for January 2018

Contract No. HY/2013/06 (within Contract No. HY/2014/05 works area) Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System

### Environmental Site Inspction Schedule for January 2018

	Monday	Tueday	Wednesday	Thursday	Friday	Saturday	Sunday
Time	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan
			Site Inspection				
Time	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan
				Site Inspection			
Time	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan
	Site Inspection						
Time	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan
	Site Inspection						
Time	29-Jan	30-Jan	31-Jan				

	Site Inspection			

Contract No. HY/2014/04 (within Contract No. HY/2014/05 works area) Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Gantry Type X-ray Vehicle Inspection System

Environmental Site Inspction Schedule for January 2018

	Monday	Tueday	Wednesday	Thursday	Friday	Saturday	Sunday
Time	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan
			Site Inspection				
Time	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan
				Site Inspection			
Time	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan
	Site Inspection						
Time	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan
	Site Inspection						
Time	29-Jan	30-Jan	31-Jan				
	Site Inspection						



# **APPENDIX J**

Investigation Report



#### Contract No. HY/2014/05 -Hong Kong- Zhuhai- Macao Bridge Hong Kong Boundary Crossing Facilities – Remaining Ancillary Buildings and Facilities

#### Notifications of Environmental Quality Limits Exceedances

Notification No.: 20171223\_Air\_24hr

Date of Investigation Report: 10 January 2018

#### Date of Environmental Quality Limit Exceedance: 23 December 2017 and the results were issued on 5 January 2018

**Monitoring Location:** AMS3B – Site Boundary of Site Office Area at Work Area WA2 (The air quality monitoring station for the Contract is covered by Contract No. HY/2013/01 HZMB HKBCF – Passenger Clearance Building)

Monitoring Date: 23 December 2017 Start Time: 08:00

#### Action & Limit Level (AL & LL) / Measured Level:

PARAMETER	STATION	<u>AL (μg/m<sup>3</sup>)</u>	<u>LL (µg/m<sup>3</sup>)</u>	MEASURED LEVEL, µg/m <sup>3</sup>
24-hr TSP	AMS3B – Site Boundary of Site Office Area at Works Area WA2	167	260	182
Notes: <b>Bold Italic</b> means Bold Italic with ur	AL exceedance Inderline means LL exceedance			

#### Possible reason for Action / Limit Level Non-compliance:

On 23 December 2017, one AL exceedance of 24-hr TSP at AMS3B was recorded.

Based on the information form the Contractor, the construction works undertaken on 23 and 24 December 2017 are shown as below:

- ABWF & MEP works (Internal) of Buildings 022, 023, 032, 044, 045, 050H1, 050H2, 050A1, 050A2, 053
- ABWF works (external) of Buildings 022, 023, 025, 032, 044, 045, 050H1, 050H2, 050A1, 050A2
- ABWF works (roof) of Buildings 021, 022, 023, 032, 044, 050H1, 050H2, 050A1, 050A2, 053
- Utilities and Drainage installation of Buildings 050H1, 050A1, 050A2

The Contractor confirmed that the mitigation measures according to Water Spraying Plan in December 2017 (Appendix A) are implemented to avoid dust emission. Photos of haul road condition and dust suppression are included in Appendix A. The Contractor has provided the guideline to remind the site vehicles travel within speed limit of 8km/hr. According to site inspection which conducted on 4, 13, 18 and 27 December 2017, no dusty activities and dry condition in haul road were observed.

The Air Quality Health Index (AQHI) of Tung Chung station with the wind data from the on-site wind station are shown in Appendix B. The hourly AQHI of Tung Chung station ranged 3 to 8 (Low to Very High) on 23 and 24 December 2017 during monitoring period. According to the wind data at on-site wind station, no prevailing wind direction was found in the monitoring period. The RABF site of HKBCF is far away from AMS3B (more than 1km). No potential dust source was observed near the monitoring station at AMS3B during the monitoring period.

Therefore, it is concluded that the exceedances were not related to the Contract.

#### Actions taken/ to be taken:

The Water Spraying Plan including the information of watering schedule, routing of trucks of for watering and the location of water filling, was prepared and submitted to RE and ENPO. The Contractor was also reminded to implement all necessary mitigation as specified in EIA (Section 5.5.6.3), EM&A Manual (EM&A Log Ref: A3), EMP, Method Statements, General and Particular Specifications of this Project to minimize the potential dust impact during construction activities.

Prepared by:	Ruby Law	Title:	Environmental Team Representative
Signature:	Kuls	Date:	10 January 2018
Checked by:	Keith Chau	Title:	Environmental Team Leader
Signature:	Keith	Date:	10 January 2018
0.11			

Copied to : Contractor, Engineer Representative and IEC/ENPO

#### Appendix A



# Contract No. HY/2014/05

Watering Plan for December 2017

Water Truck License Plate Number: PJ9039, SE4312

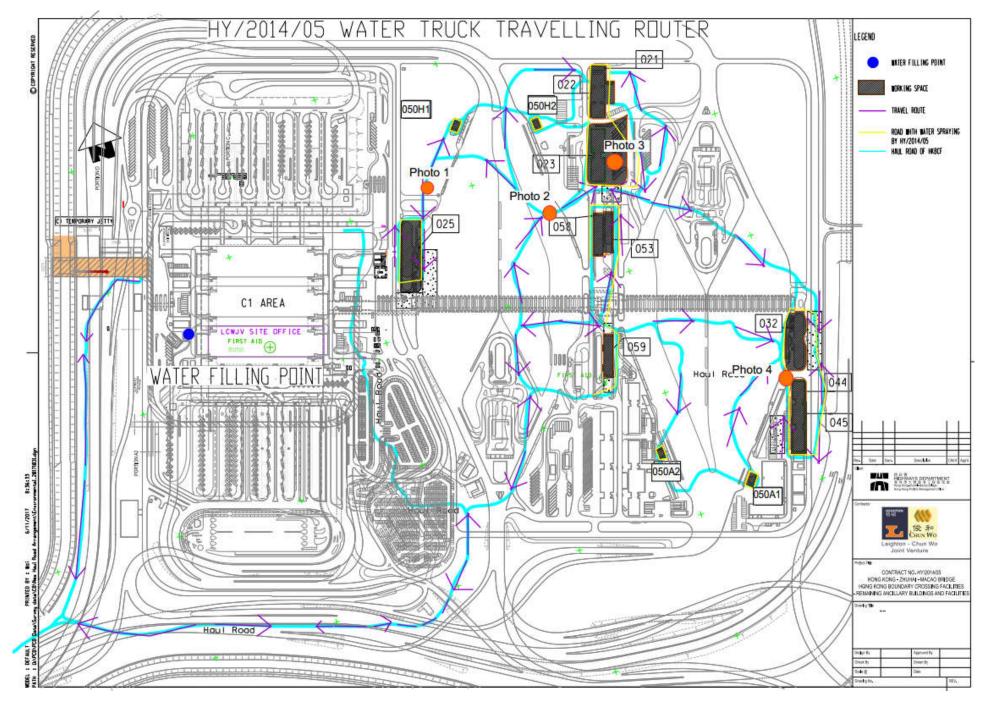
Capacity of a Water Truck: 15000L

Volume of water/ distance needed to water spraying: = 7.3 L/m

Water Truck could spray 15000L in one 59 minutes trip.

#### Planned Schedule of Watering Spraying by Water Truck

Cycle	Truck No.	Time of water spraying	
1	PJ9039	08:00 - 09:15	
2	SE4312	09:15 - 10:30	
3	PJ9039	10:30 - 11:45	
4	SE4312	13:00 - 14:15	
5	PJ9039	14:15 - 15:30	
6	SE4312	15:30 - 16:45	
7	PJ9039	16:45 - 18:00	
8	SE4312	18:00 - 19:00	





#### Appendix B

Date	Hour	AQHI at Tung Chung Station	Average Wind Speed (m/s) <sup>#</sup>	Average Wind Direction #
23/12/2017	08:00	3	0	ENE
23/12/2017	09:00	3	0	NNE
23/12/2017	10:00	4	0	ENE
23/12/2017	11:00	4	0	ENE
23/12/2017	12:00	4	0	NNE
23/12/2017	13:00	4	0	N
23/12/2017	14:00	4	0	NE
23/12/2017	15:00	5	0	NE
23/12/2017	16:00	6	0	NNE
23/12/2017	17:00	6	0	N
23/12/2017	18:00	6	0	
23/12/2017	19:00	6	0	NE
23/12/2017	20:00	6	0	WNW
23/12/2017	21:00	5	0	N
23/12/2017	22:00	5	0	N
23/12/2017	23:00	5	0	NNW
24/12/2017	00:00	5	0	ENE
24/12/2017	01:00	6	0	ESE
24/12/2017	02:00	5	0	
24/12/2017	03:00	6	0	
24/12/2017	04:00	7	0	W
24/12/2017	05:00	8	0	SSE
24/12/2017	06:00	8	0	NNW
24/12/2017	07:00	7	0	
24/12/2017	08:00	7	0	

 The data collection for calculation of AQHI was affected due to station or equipment maintenance, the data of a most similar station was adopted.

#- The related wind data is obtained from the on-site wind station.

N.A. - Not available.